DICOM

Conformance Statement

HD15 3.0.x

000309000000008 Rev A

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PHILIPS

0.1 REVISION HISTORY

Document Version	Date of Issue	Author	Description
A	May 25, 2012	Anantharaman Sekar	Initial Release

1 CONFORMANCE STATEMENT OVERVIEW

The Philips HD15 3.0.x Ultrasound systems implement the necessary DICOM® services to download worklists from an information system, save acquired US Images and Structured Reports to a network storage device, CD/DVD or USB, 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.

Table 1
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
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

* Purchasable option.

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Table 2 below specifies the Media Storage Application Profiles supported.

Table 2
MEDIA SERVICES

Media Storage Application Profile	Write Files (FSC or FSU)	Read Files (FSR)
Compact Disk - Recordable		
STD-US-SC-MF[(1)]-CD-R for Ultrasound images, compressed and uncompressed	Yes / Yes[(2)]	Yes[(3)]
STD-GEN-CD for Structured Reports	Yes / Yes[(2)]	No
DVD		
STD-US-SC-MF[(1)]-DVD for Ultrasound images, compressed and uncompressed	Yes / Yes[(2)]	Yes[(3)]
STD-GEN-DVD for Structured Reports	Yes / Yes[(2)]	No
USB Devices		
STD-GEN-USB-JPEG for Ultrasound images, compressed and uncompressed and Structured Reports	Yes / Yes	Yes[(4)]

(1) Note that the "MF" designator includes both Single Frame (SF) and Mullti-frame (MF) ultrasound images.
(2) Only acts as a FSU for media that may be written to multiple times.
(3) Only reads and imports data from other Philips HD15 3.0.x systems of the same software version.
(4) Yes, but not for importing Structured Reports.

Table 3
SUPPORTED STRUCTURED REPORT TEMPLATES

Concept Name
OB-GYN Ultrasound Procedure Report (Template ID 5000)
Vascular Ultrasound Procedure Report (Template ID 5100)
Adult Echocardiography Procedure Report (Template ID 5200)
Pediatric Echocardiography Procedure Reports (Template ID 5220)

2 TABLE OF CONTENTS

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 first-level validation for interoperability between different applications supporting the same DICOM functionality.

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

The scope of this Conformance Statement is to facilitate communication between the Philips Healthcare HD15 3.0.x ultrasound 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 Healthcare and non - Philips Healthcare 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 Healthcare is actively involved in developing the standard further and therefore reserves the right to make changes to its products or to discontinue its delivery.

3.3 IMPORTANT NOTE TO THE READER

Interoperability

Interoperability refers to the ability of application functions, distributed over two or more systems, to work successfully together. The integration of medical devices into an IT environment may require application functions that are not specified within the scope of DICOM. Consequently, using only the information provided by this Conformance Statement does not guarantee interoperability of Philips equipment with non-Philips equipment. It is the user's responsibility to analyze thoroughly the application requirements and to specify a solution that integrates Philips equipment with non-Philips equipment.

Validation

Philips equipment has been carefully tested to assure that the actual implementation of the DICOM interface corresponds with this Conformance Statement. Where Philips equipment is linked to non-Philips equipment, the first step is to compare the relevant Conformance Statements. If the Conformance Statements indicate that successful information exchange should be possible, additional validation tests will be necessary to ensure the functionality, performance, accuracy and stability of image and image related data. It is the responsibility of the user (or user's agent) to specify the appropriate test suite and to carry out the additional validation tests.

New versions of the DICOM Standard

The DICOM Standard will evolve in future to meet the user's growing requirements and to incorporate new features and technologies. Philips is actively involved in this evolution and plans to adapt its equipment to future versions of the DICOM Standard. In order to do so, Philips reserves the right to make changes to its

products or to discontinue its delivery. The user should ensure that any non-Philips provider linking to Philips equipment also adapts to future versions of the DICOM Standard. If not, the incorporation of DICOM enhancements into Philips equipment may lead to loss of connectivity (in case of networking) and incompatibility (in case of media).

3.4 DEFINITIONS, TERMS AND ABBREVIATIONS

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

Abbreviations and terms are as follows:

AE	DICOM Application Entity
AET	Application Entity Title
CD-R	Compact Disk Recordable
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
MWL	Modality Worklist
R	Required Key Attribute for Modality Worklist Query Matching
O	Optional Key Attribute for Modality Worklist Query Matching
PDU	DICOM Protocol Data Unit
PDE	Patient Data Entry
SCP	DICOM Service Class Provider (DICOM server)
SCU	DICOM Service Class User (DICOM client)
SOP	DICOM Service-Object Pair
SNOMED	Systematized Nomenclature of Medicine (SRT)
U	Unique Key Attribute for Modality Worklist Query Matching, or Optional Attribute
US	Ultrasound

3.5 REFERENCES

[DICOM] Digital Imaging and Communications in Medicine (DICOM), NEMA PS 3.1-3.18, 2008

Integrating the Healthcare Enterprise (IHE) Radiology Technical Framework, Vol. 1, Integration Profiles, Revision 8.0 Final Text, August 30, 2007

Integrating the Healthcare Enterprise (IHE) Radiology Technical Framework, Vol. 2, Transactions, Revision 8.0 Final Text, August 30, 2007

Integrating the Healthcare Enterprise (IHE) Radiology Technical Framework, Vol. 3, Transactions (Continued), Revision 8.0 Final Text August 30, 2007

Integrating the Healthcare Enterprise (IHE) Cardiology Technical Framework, Year 2: 2005-2006, Volume 1, Integration Profiles, Revision 2.1, June 9, 2006

Integrating the Healthcare Enterprise (IHE) Cardiology Technical Framework, Year 2: 2005-2006, Volume 2, Transactions, Revision 2.1, June 8, 2006

Integrating the Healthcare Enterprise (IHE) Cardiology Technical Framework, Supplement 2007, Evidence Documents Profile Cardiology Options: Stress Testing CT/MR Angiography, <Trial Implementation Version 0.06>, June 6, 2007

4 NETWORKING

4.1 IMPLEMENTATION MODEL

4.1.1 Application Data Flow

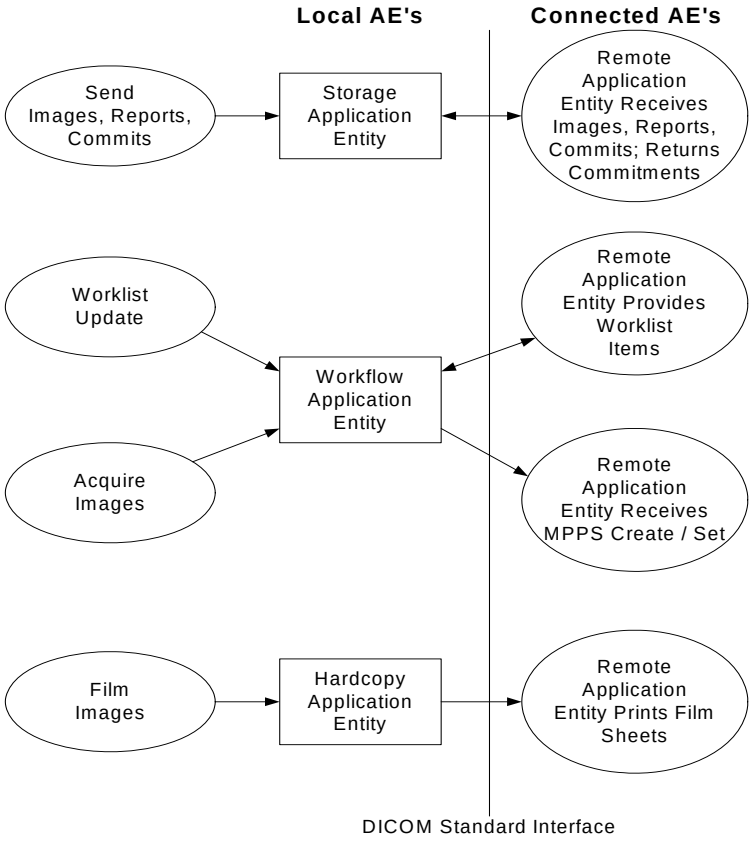


Figure 1
APPLICATION DATA FLOW DIAGRAM

— The **Storage Application Entity** sends **Images** to one or two remote AEs and **Structured Reports** to a single remote AE. Acquisition of images is associated with the local real-world activity “Freeze” then “Acquire” for single frame and “Acquire” for loops or clips. Sending or exporting of images depends on user configuration, either “Send as you go” or ”Batch” when End Exam is pressed, or Manual. An exam may be sent by user selection from “Review”. A storage commitment server is configured for one of the two image storage servers. Storage Commitment for Structured Reports requires a separate commit server configuration entry. If the remote AE is configured for **Storage Commitment**, the Storage AE will request Storage Commitment after successful storage of the image(s) and Structured Reports, if sent. If a commitment response is successfully obtained, there will be no job remaining in the queue (viewed using CNTL-J) signaling the Auto-delete function that the exam qualifies for deletion.

— The **Workflow Application Entity** receives Worklist information from and sends MPPS information to remote AEs. It is associated with the local real-world activities “Refresh Now” or automatic polling. When either the “Refresh Now” or automatic polling are performed, the Workflow Application Entity queries a remote AE for worklist items that provides the set of worklist items matching the query request.

Modality Performed Procedure Step (MPPS) messages are sent from the system under the following circumstances:

- MPPS N-Create, Status = IN PROGRESS:
  - Closing the Patient Data Entry screen 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" causes the "Discontinued" status to be sent.

— An Ended Exam may be 'appended' with images and SRs within 24 hours of the beginning of the exam. There are two fundamental methods to perform append:

- *Note: The system will notify the user that it is "Restarting" the study. If beyond 24 hours, the system will not allow new images to be acquired.*

- Append from Patient Data Entry
  - Press the "Patient" hardkey. If Modality Worklist is configured, press the "Manual Entry" button and/or select the "Restart" button to get a list of exams that are less than 24 hours old. Select an exam and 'OK' to close Patient Data Entry to return to scanning.
- Append from Image Review
  - Press the "Review" hardkey then select the "Search for Study" icon to see the list of performed studies. Select the exam and hit "Open Study" to return to live scanning to acquire images and measurements.

— The **Hardcopy Application Entity** sends DICOM print pages to a remote AE (Printer or print server). It is associated with the local real-world activity Acquire when a DICOM Printer is configured for Batch Mode in the current preset, or "DICOM print" is selected with Right Button on the Exam in the system Patient Directory.

— Additionally, individual images can be selected in Review and sent with the selection of "Print selected still images to DICOM Printer" icon.

— Either 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 "Send as you go", 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 "Send as you go" or "Batch" at end of exam or Manual.

4.1.2 Functional Definition of AEs

4.1.2.1 Functional Definition of Storage Application Entity

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's Status is set to RETRY as displayed in the Job Manager (CNTL-J). The user may select "Retry Job" to attempt re-send.. After the automatic retries have failed, the job is set to ERROR. The user may "Delete Job" and re-send manually. Deleting a job does not remove the data, as it is still present on the system. Only the request to transfer the data is removed. Once any communication issues have been resolved, "Retry Job" may be selected or if the jobs were deleted, they may be queued again from the Review directory.

Storage Commitment messages are structured and sent depending on the user configuration for sending data. If the system is set for “Send as you go”, then commit requests are sent when the images are exported. Several images may be contained in a single request. When the system is set to “Batch mode” all images are exported at the end of the exam, a Storage Commitment queue is established and remains in the Job Manager window until the N-Event-Report-Request message is received.

Studies sent manually from “Review” will also send Storage Commitment requests.

4.1.2.2 Functional Definition of Workflow Application Entity

“Refresh Now” attempts to download a Modality Worklist from a Modality Worklist server with studies matching the search criteria by sending a C-Find Request containing user-definable Query parameters. Query parameters are stored in the “Advanced” tab adjacent to the MWL SCP selection in the “Servers and Roles” setup page. 10 Customizable Queries may be used, 5 are factory defaults.

Settings that may be customized are:

- Query Name (not sent in the DICOM data)
- Start Date (All Dates, Today or Date Range)
- AE Title (This system, Any or Another specific)
- Modality (Ultrasound or All Modalities)

When the Workflow AE establishes an association to a remote AE, a MWL C-Find-Rq message is sent to the MWL server. The server will transfer all matching worklist items via the open association. The results of a successful Worklist Update will overwrite the data in the Worklist display.

There is no queue management for Worklist.

The Workflow AE creates a MPPS Instance when the PDE (Patient Data Entry screen) is closed. An MPPS N-Create-Rq message is sent to the MPPS server with the status of “IN PROGRESS”. At the end of the exam, when “Completed” or “Cancel” are selected, an MPPS N-Set- Rq message is sent with “COMPLETED” or “DISCONTINUED” respectively. MPPS message queues are listed in the Job Manager (CNTL-J) window.

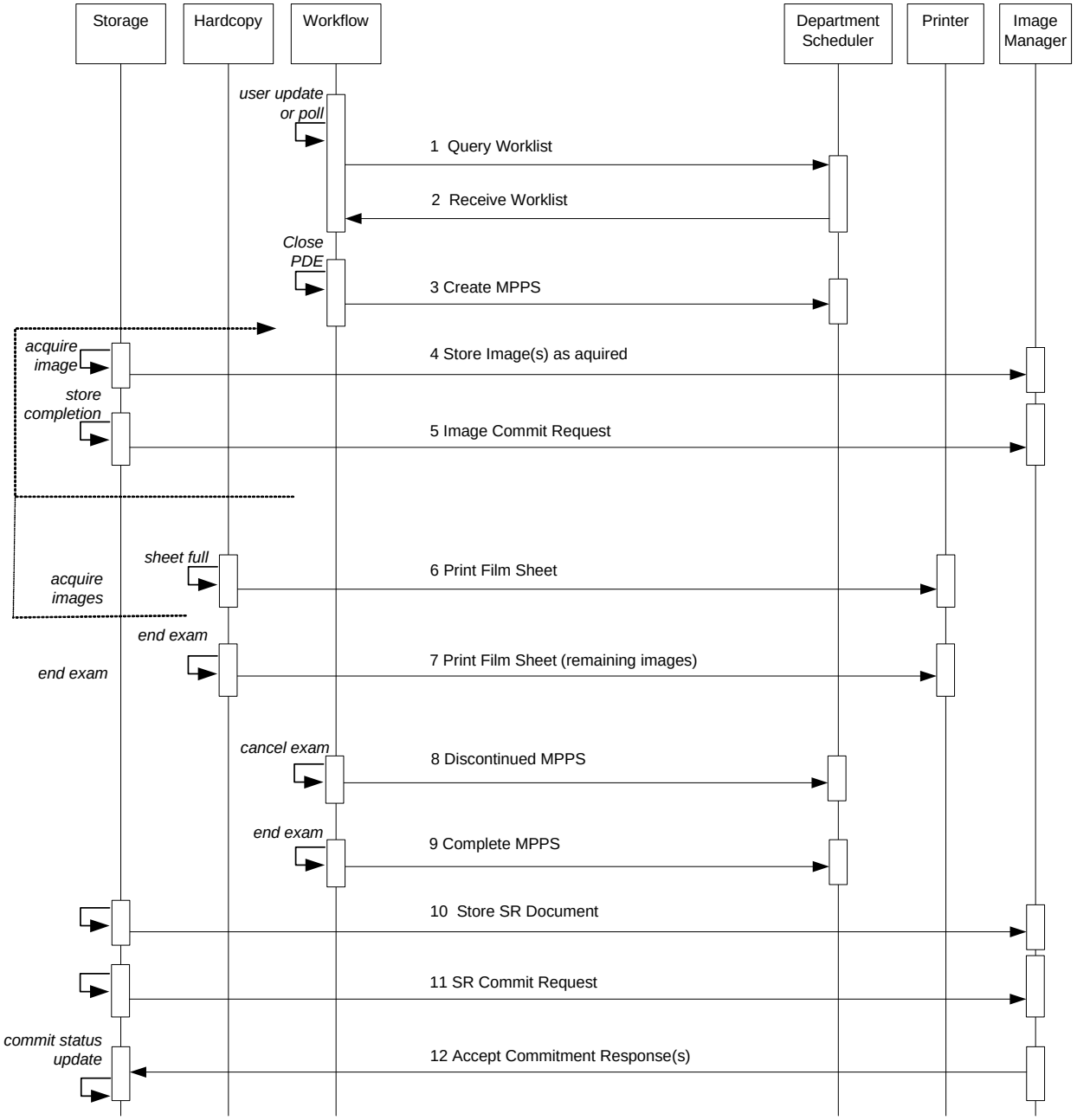
4.1.2.3 Functional Definition of Hardcopy Application Entity

A print queue will activate the Hardcopy AE. An association is established with the printer(s) and the printer’s status is determined. If the printer is operating normally, the film sheet print requests will be sent. If the printer is not operating normally, the print queue status is set to “Failed” and can be restarted by the user via the queue management interface.

When both a BW and a Color DICOM printer are configured, 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 will be sent to the BW printer. Otherwise, all images will be sent to the selected printer.

There is an embedded retry mechanism that retries based on the individual server’s settings as configured by the user. Default values are: 3 Retries with 300 seconds (5 minutes) Interval.

Sequencing of Real-World Activities



Note: Step 8 may occur prior to acquisition of the first image if the exam is cancelled prior to first image.

FIGURE 2A:
SEQUENCING CONSTRAINTS – SEND AS YOU GO 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 as you go”, at the end of exam “Batch” or from Review when set for Manual.
- Selecting a study from Review for export will send to 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.

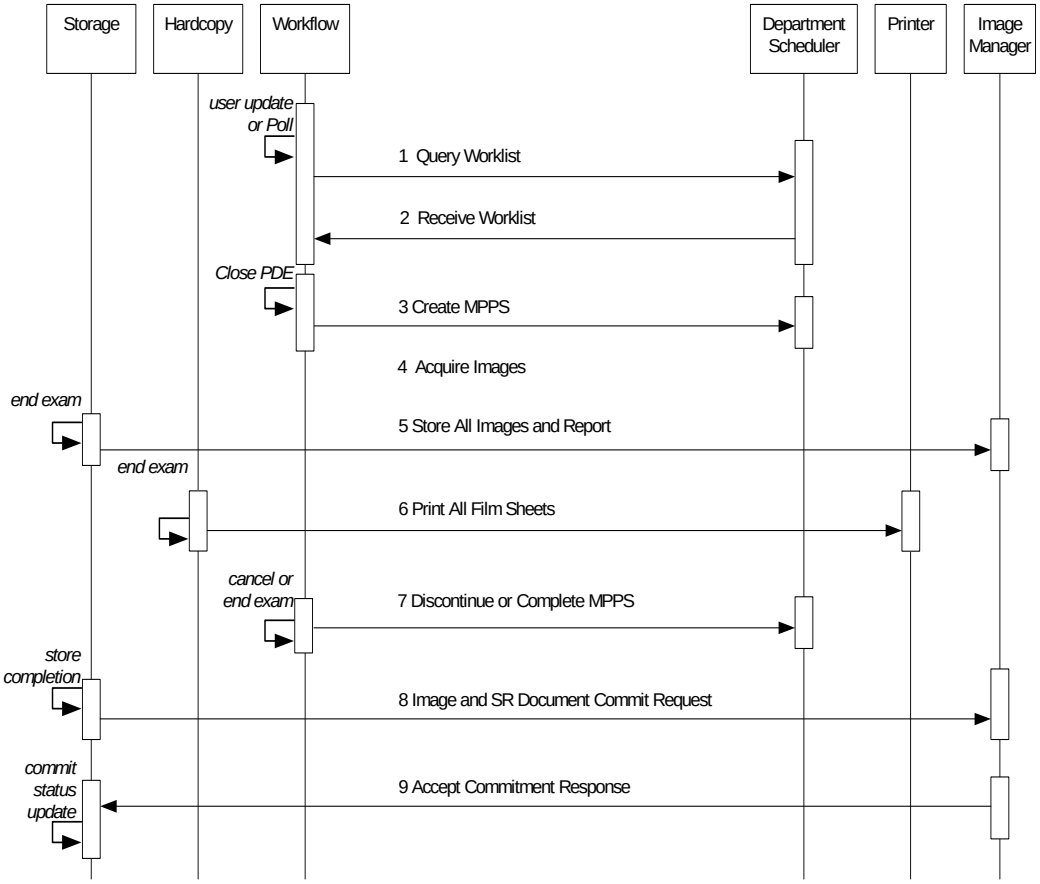


FIGURE 2B:
SEQUENCING CONSTRAINTS – END EXAM CONFIGURATION

4.2 AE SPECIFICATIONS

4.2.1 Storage Application Entity Specification

4.2.1.1 SOP Classes

HD15 3.0.x provides Standard Extended[1] Conformance to the following SOP Classes:

Table 3
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 Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Yes	No
Comprehensive Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.33	Yes	No
Storage Commitment Push Model	1.2.840.10008.1.20.1	Yes	No

4.2.1.2 Association Establishment Policy

4.2.1.2.1 General

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

The PDU size is configurable with a minimum size of 100 and a maximum size of 16,000. The default PDU size is 16,000.

4.2.1.2.2 Number of Associations

HD15 3.0.x initiates one Association at a time for each destination to which a transfer request is being processed in the active job queue list. Two Storage SCPs may be selected, 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

One Primary Storage Server, one Secondary Storage Server, one Storage Commitment Server, one SR Storage Server and one SR Storage Commitment Server.

HD15 3.0.x accepts Associations for N-EVENT-REPORT notifications for the Storage Commitment Push Model SOP Class on a separate association.

Table 6
NUMBER OF ASSOCIATIONS ACCEPTED FOR AE STORAGE

Maximum number of simultaneous Associations	1

[1] See section 8.7 for information on the Standard Extended SOP Class

4.2.1.2.3 Asynchronous Nature

HD15 3.0.x does not support asynchronous communication (multiple outstanding transactions over a single Association).

Table 7
ASYNCHRONOUS NATURE AS A SCU FOR AE STORAGE

Maximum number of outstanding asynchronous transactions	1

4.2.1.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

Table 8
DICOM IMPLEMENTATION CLASS AND VERSION FOR AE STORAGE

Implementation Class UID	1.3.46.670589.14.2000.300
Implementation Version Name	HD15_300

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

Images and Reports may be sent from the selected studies from the Review directory. When the "Send as you go" option is active, the queue is serviced continuously during the exam. Each image is sent in its own association that is opened and closed. Additional images acquired during the exam will be sent using subsequent associations.

If the C-STORE response from the remote application contains a status other than Success or Warning, the association is retried until switched to a failed state.

When a system configured with network destinations is used without the network connected, it is considered to be in "Portable" mode. When returning from portable, reconnecting the network cable will initiate transfer.

The Storage Commitment service is implemented to handle image commitment separately from Structured Reports. For Images, only the Primary Store SCP may be associated with a commitment server. For Structured Reports, the SR Store SCP may be configured with its own commit server. In each case, the Storage AE will transmit a Storage Commitment request (N-ACTION) over a separate Association from the storage of image or report objects. Outstanding Commit Requests (those that have not received an N-Event-Report) will remain in the Job Manager (CNTL-J) until the report is received.

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 only supported measurements and calculations created by HD15 3.0.x. This may exclude some entries displayed in the on-system report. Measurements or calculations that are not supported for export are listed in Appendix A.

- The OB and Gyn Study types create OB-GYN Ultrasound Procedure Reports.
- The Vascular Study type creates Vaslcular Ultrasound Procedure Reports.
- The Cardiac (Adult Echo) Study type creates Adult Echocardiography Reports.
- The Cardiac (Ped Echo) Study type creates Pediatric Echocardiography Reports.

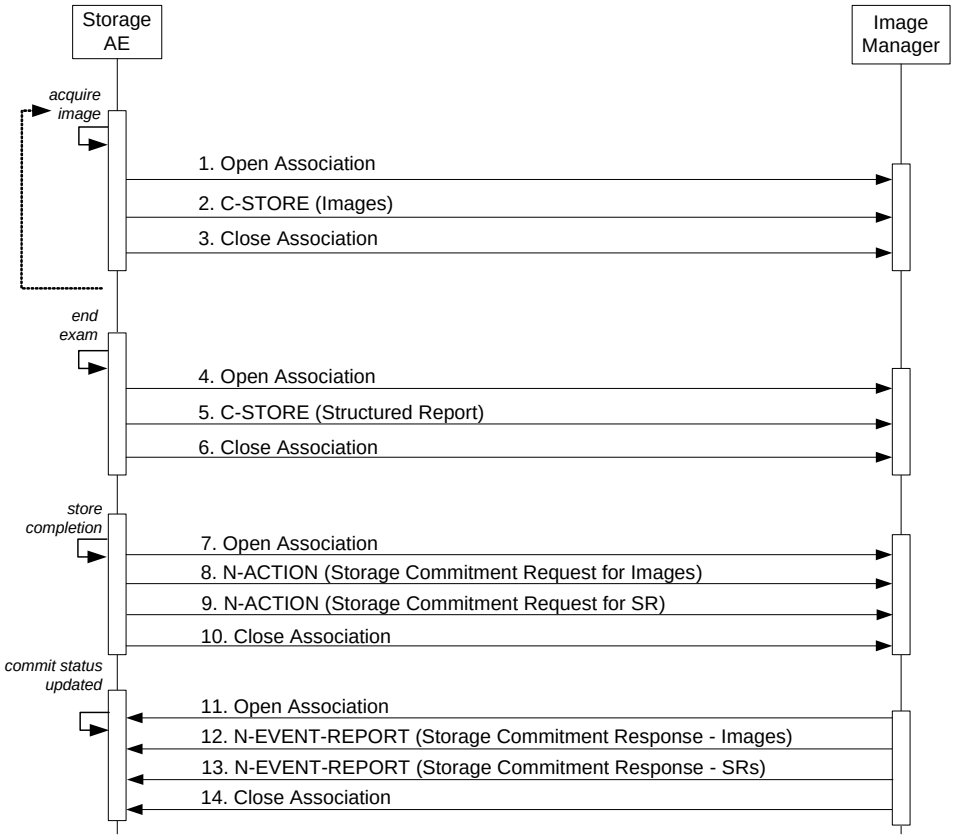


Figure 3
SEQUENCING OF ACTIVITY – SEND IMAGES AND STRUCTURED REPORT

The sequence of interactions between the Storage AE and an Image Manager is illustrated in Figure 3 for the “Store” configuration option “Send as you go.” The alternative option, “Batch mode” differs only in the removal of the loop symbol on the ‘acquire images’ activity

NOTES: 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

HD15 3.0.x is capable of proposing the Presentation Contexts shown in the following table:

Table 9
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY SEND IMAGES

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Ext. Neg.**
Name	**UID**	**Name List**	**UID List**		
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 RLE Lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.5	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 RLE Lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.5	SCU	None
Comprehensive Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.33	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
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

*The following applies to both US Image and US Multiframe Images
JPEG used if image Photometric Interpretation is
YBR_FULL_422
RLE Lossless is used if image formats are any of
Palette Color, RLE Compressed
RGB, RLE Compressed
MONOCHROME2, RLE Compressed
Implicit Little Endian (ILE) transfer Syntax is used when:
Palette Color, Uncompressed ILE
RGB, Uncompressed ILE
MONOCHROME2, Uncompressed ILE
Explicit Little Endian (ELE) transfer syntax is used when:
Palette Color, Uncompressed ELE
RGB, Uncompressed ELE
MONOCHROME2, Uncompressed ELE

Note: 3D single frame, 3D multiframe and Panview images will be sent in RGB/ELE regardless of DICOM Export settings.

Storage Commitment N-Action Requests are only sent to the image storage device that is configured as the Storage Commitment server and associated with the Primary SCP. SRs are sent to their own configured SCP and Storage Commitment for SRs are handled separately from images.

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.

The following Default Settings and Ranges may be used where applicable in Table 10:

Setting	Default	Range
Connect Timeout	30 sec	10 – 999 sec
Read Timeout	300 sec	30 – 999 sec
Write Timeout	300 sec	30 – 999 sec
Maximum Retries	3	0 – 999

Table 10
STORAGE C-STORE RESPONSE STATUS HANDLING BEHAVIOR

Establishing the Association with Default settings

Condition (After C-Store)	**Status Codes** (C-Store-RSP)	**Response**
Could not establish the association within 30-second time window (Connect Timeout) due to NO RESPONSE from the Storage Server	Not Applicable	The association attempt is aborted, and after 5-minutes a new association is attempted. HD15 3.0.x will make three attempts to open an association with the configured Storage SCP before aborting the storage request and placing the job in an error state. The user can then manually restart the job at some later date. The failure is logged to the DICOM log file as an error. The 5-minute timeout and the number of retries are configurable by the user from the DICOM Setup screens. The 5-minute timeout is mapped to the 'Retry Interval' input control on the DICOM Setup screen and the number of retries is mapped to 'Maximum Retries' on the DICOM Setup screen.
Refused	A7xx	If the Storage SCP server refuses the association, then the association attempt is aborted. HD15 3.0.x will wait 5-minutes and then reattempt the association. HD15 3.0.x will make three attempts to establish the association before aborting the storage request and placing the job in an error state. The user can then manually restart the job at some later date. The failure is logged to the DICOM log file as an error. As an example, the association would be refused if the storage server employs a high security mechanism whereby it only accepts association requests from DICOM Servers that it knows about and the HD15 3.0.x's AE Title was not in the PACS database. See the timeout and retry settings above.

During Image or SR Transfer

Service Status	Error Code	Behavior
After association has been accepted, there is no response to a request within 5-minute time window (Read Timeout).	Not Applicable	If the association is lost during active image transfer to the Storage SCP server, HD15 3.0.x will initiate a new association after 5 minutes, and attempt to store all the images. If during transfer, the association is again lost, HD15 3.0.x will wait another 5 minutes and try again. HD15 3.0.x will make three attempts to send all the images before aborting the storage request and placing the job in an error state. The user can then manually restart the job at some later date. The failure is logged to the DICOM log file as an error. See the timeout and retry settings above.
Error	A9xx, Cxxx, 0122, Other	HD15 3.0.x will treat all errors as failure of Storage request (also called as Job). A failed job is automatically retried after 5 minutes. If the job fails even after three attempts, HD15 3.0.x will abort this request and place the job in an Error state. The user can then manually restart the job at some later date. The failure is logged to the DICOM log file as an error.
Warning	D000, B000, B006, B007	If the Storage SCP issues a warning on a particular image (perhaps it had to use coercion), HD15 3.0.x logs the warning to the DICOM log file as an informational event and continues on as if the image was successfully stored to the PACS (see row below).
Success	0000	When an image is successfully stored to the Storage SCP (PACS), HD15 3.0.x will keep a record of the successful storage. If all the images in the job are successfully stored, HD15 3.0.x will notify the user (through an icon on the list of studies), and the job will be removed from the job manager.
*	Any other status code.	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.

Table 11
STORAGE COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior
Timeout	Same as Service Status timeouts in Table 10 above.
Association aborted by the SCP or network layers	Same as Service Status in Table 10 above.

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.

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

Action Type Name	Action Type ID	Attribute	Tag	Requirement Type SCU
Request Storage Commitment	1	Transaction UID	(0008,1195)	1
		Referenced SOP Sequence	(0008,1199)	1
		>Referenced SOP Class UID	(0008,1150)	1
		>Referenced SOP Instance UID	(0008,1155)	1

Subsequently, HD15 3.0.x expects N-EVENT-REPORT messages from the storage commit server although HD15 3.0.x does not assume that the event will arrive at any particular time. HD15 3.0.x does not wait but will process the event whenever it arrives.

HD15 3.0.x might be either powered down or disconnected from the network and used in portable mode, it is possible for the N-EVENT-REPORT to arrive from the Storage Commitment SCP while HD15 3.0.x cannot receive it. If an outstanding N-EVENT-REPORT does not arrive within 96 hours, then HD15 3.0.x will reissue the same Storage Commitment request. When the event arrives, HD15 3.0.x returns an N-EVENT-REPORT response primitive with one of the following status codes.

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.

Table 14
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.

The reasons for returning specific status codes in an 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 16 lists the tags that may be received within the N-EVENT-REPORT.

Table 16
STORAGE COMMITMENT N-EVENT-REPORT MESSAGE CONTENTS

Event Type Name	Event Type ID	Attribute	Tag	Requirement Type SCP
Storage Commitment Request Successful	1	Transaction UID	(0008,1195)	1
		Retrieve AE Title	*(0008,0054)*	*3*
		Storage Media File-Set ID	*(0088,0130)*	*3*
		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
		>Retrieve AE Title	*(0008,0054)*	*3*
		>Storage Media File-Set ID	*(0088,0130)*	*3*
		>Storage Media File-Set UID	*(0088,0140)*	*3*
Storage Commitment Request Complete – Failures Exist	2	Transaction UID	(0008,1195)	1
		Retrieve AE Title	*(0008,0054)*	*3*
		Storage Media File-Set ID	*(0088,0130)*	*3*

Event Type Name	Event Type ID	Attribute	Tag	Requirement Type SCP
		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
		>Retrieve AE Title	*(0008,0054)*	*3*
		>Storage Media File-Set ID	*(0088,0130)*	*3*
		>Storage Media File-Set UID	*(0088,0140)*	*3*
		Failed SOP Sequence	(0008,1198)	1
		>Referenced SOP Class UID	(0008,1150)	1
		>Referenced SOP Instance UID	(0008,1155)	1
		>Failure Reason	(0008,1197)	1

In Table 16 above, the attributes in *italics* may be sent from the server, handled and ignored by HD15.

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 Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Storage Commitment Push Model	1.2.840.10008.1.20.1	Implicit VR Little Endian 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.

The Storage AE may reject association attempts as shown in the Table below. The Result, Source and Reason/Diag columns represent the values returned in the appropriate fields of an ASSOCIATE-RJ PDU. The contents of the Source column is abbreviated to save space and the meaning of the abbreviations are:

a) 1 – DICOM UL service-user
b) 2 – DICOM UL service-provider (ASCE related function)
c) 3 – DICOM UL service-provider (Presentation related function)

Table 17b summarizes the reasons for returning specific status codes in an N-EVENT-REPORT response.

Table 17b
ASSOCIATION REJECTION REASONS

Result	Source	Reason/Diag	Explanation
2 – Rejected Transient	c	2 – Local Limit Exceeded	The (configurable) maximum number of simultaneous associations has been reached. An association request with the same parameters may succeed at a later time.
2 – Rejected Transient	c	1 – Temporary Congestion	No associations can be accepted at this time. An association request with the same parameters may succeed at a later time.
1 – Rejected Permanent	a	2 – Application Context Name Not Supported	The association request contained an unsupported Application Context Name. An association request with the same parameters will not succeed at a later time.
1 – Rejected Permanent	a	7 – Called AE Title Not Recognized	The association request contained an unrecognized Called AE Title. A successful association request will require configuration changes. This rejection reason normally occurs when the association initiator is incorrectly configured and attempts to address the association acceptor using the wrong AE Title. Make sure the Commit Server has the correct AE Title and IP Address for the ultrasound system.
1 – Rejected Permanent	a	3 – Calling AE Title Not Recognized	The association request contained an unrecognized Calling AE Title. An association request with the same parameters will not succeed at a later time unless configuration changes are made. This rejection reason normally occurs when the association acceptor has not been configured to recognize the AE Title of the association initiator. Ensure there is no variation in Case in this system's AE Title on the Commit Server.
1 – Rejected Permanent	b	1 – No Reason Given	The association request could not be parsed. An association request with the same format will not succeed at a later time.

4.2.2 Workflow Application Entity Specification

4.2.2.1 SOP Classes

HD15 3.0.x provides Standard Conformance to the following SOP Classes:

Table 18
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

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

HD15 3.0.x initiates one Association at a time for a Worklist request and a separate association for Modality Performed Procedure Step messages.

Table 20
NUMBER OF ASSOCIATIONS INITIATED FOR AE WORKFLOW

Maximum number of simultaneous Associations	1

4.2.2.2.3 Asynchronous Nature

HD15 3.0.x does 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:

Table 22
DICOM IMPLEMENTATION CLASS AND VERSION FOR AE WORKFLOW

Implementation Class UID	1.3.46.670589.14.2000.300
Implementation Version Name	HD15_300

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

Worklist queries for Modality (US) or All Modalities may be initiated by the user or will occur at a preset interval set as one of the following:

- The user may press “Refresh Now” to send a query: using search keys: Start Date, Modality and AE Title selections made in the Set Modality Worklist Queries configuration page.
- The user may configure the system to search for studies scheduled for its AE Title, or it may be set to search for a different AE Title’s studies, or all.
- The system may be set* to periodically poll the worklist server. Default is 10 minutes, adjustable in one minute increments from 1 to 32,767 minutes.

  * Follow Setups > System > DICOM > DICOM Preset > Change Settings for current preset > Modify in Roles > MWL SCP – Advanced > MWL Polling Frequency.

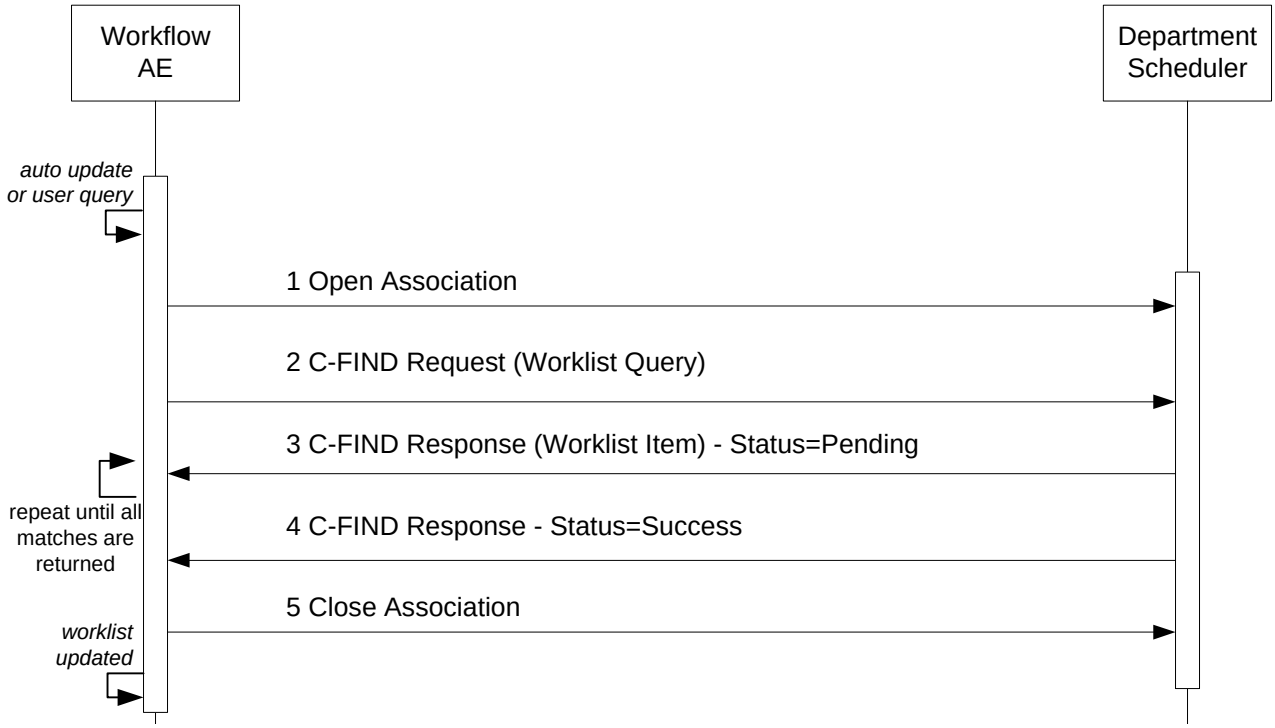


Figure 5
SEQUENCING OF ACTIVITY – WORKLIST UPDATE

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

HD15 3.0.x will propose Presentation Contexts as shown in the following table:

Table 23
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY WORKLIST UPDATE

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Ext. Neg.**
Name	**UID**	**Name List**	**UID List**		
Modality Worklist Information Model – FIND	1.2.840.10008.5.1 .4.31	Explicit VR Little Endian* Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2	SCU	None

*Note: If the worklist server accepts Explicit VR Little Endian and Implicit VR Little Endian then HD15 3.0.x will use Explicit VR Little Endian Transfer Syntax.

4.2.2.3.1.3 SOP Specific Conformance for Modality Worklist

Table 24 summarizes the behavior of HD15 3.0.x when encountering status codes in a MWL C-FIND response.

A message “query failed” will appear on the user interface if HD15 3.0.x receives 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 HD15 3.0.x during communication failure.

Table 25
MODALITY WORKLIST COMMUNICATION FAILURE BEHAVIOR

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 26 describes the HD15 3.0.x 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.

Table 26
WORKLIST MATCHING KEYS

Module Name Attribute Name	**Tag**	**VR**	**M**	**R**	**D**	**IOD**
Scheduled Procedure Step						
Scheduled Procedure Step Sequence	(0040,0100)	SQ		x		
> Scheduled Station AE Title	(0040,0001)	AE	S, *	x		x
> Scheduled Procedure Step Start Date	(0040,0002)	DA	S, R	x		x
> Scheduled Procedure Step Start Time	(0040,0003)	TM		x	x	x
> Scheduled Procedure Step End Date	(0040,0004)	DA		x		
> Scheduled Procedure Step End Time	(0040,0005)	TM		x		
> Modality	(0008,0060)	CS	S, *	x		x
> Scheduled Performing Physician’s Name[1]	(0040,0006)	PN		x		x
> Scheduled Procedure Step Description[2]	(0040,0007)	LO		x	x	x
> Scheduled Protocol Code Sequence[3]	(0040,0008)	SQ		x		x
> Scheduled Station Name	(0040,0010)	SH		x		
> Scheduled Procedure Step Location[4]	(0040,0011)	SH		x	x	x
> Pre-Medication	(0040,0012)	LO		x		
> Scheduled Procedure Step ID	(0040,0009)	SH		x		x
> Requested Contrast Agent	(0032,1070)	LO		x		
> Scheduled Procedure Step Status	(0040,0020)	CS		x		x
> Comments on the Scheduled Procedure Step	(0040,0400)	LT		x		
Requested Procedure						
Requested Procedure ID[5]	(0040,1001)	SH		x		x
Reason for the Requested Procedure[6]	(0040,1002)	LO		x		
Requested Procedure Description	(0032,1060)	LO		x		x
Study Instance UID	(0020,000D)	UI		x		x
Referenced Study Sequence	(0008,1110)	SQ		x		x
Requested Procedure Code Sequence	(0032,1064)	SQ		x		
Names of Intended Recipients of Results	(0040,1010)	PN		x		
Requested Procedure Comments	(0040,1400)	LT		x		

Imaging Service Request						
Accession Number[7]	(0008,0050)	SH		x	x	x
Requesting Physician	(0032,1032)	PN		x		
Requesting Service	(0032,1033)	LO		x		
Referring Physician's Name[8]	(0008,0090)	PN		x	x	x
Reason for the Imaging Service Request[9]	(0040,2001)	LO		x	x	
Imaging Service Request Comments	(0040,2400)	LT		x		
Module Name Attribute Name	**Tag**	**VR**	**M**	**R**	**D**	**IOD**
Visit Admission						
Current Patient Location	(0038,0300)	LO		x		
Patient Identification						
Patient's Name	(0010,0010)	PN		x	x	x
Patient ID	(0010,0020)	LO		x	x	x
Other Patient IDs[10]	(0010,1000)	LO		x	x	x
Patient Demographic						
Patient's Birth Date[11]	(0010,0030)	DA		x	x	x
Patient's Birth Time[11]	(0010,0032)	TM		x	x	
Patient's Sex[12]	(0010,0040)	CS		x	x	x
Patient's Age[13]	(0010,1010)	AS		x		
Patient Size[14]	(0010,1020)	DS		x	x	x
Ethnic Group	(0010,2160)	SH		x		
Patient's Weight[15]	(0010,1030)	DS		x	x	x
Patient Comments	(0010,4000)	LT		x	x	
Referenced Patient Sequence	(0008,1120)	SQ		x		x
Patient Medical						
Medical Alerts	(0010,2000)	LO		x		
Additional Patient's History	(0010,21B0)	LT		x		
Pregnancy Status	(0010,21C0)	US		x		

* = Wildcard matching

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 a HD15 3.0.x Worklist Request Identifier.
Tag:	DICOM tag for this attribute.
VR:	DICOM VR for this attribute.
M:	Matching keys for (automatic) Worklist Update. An "S" indicates that HD15 3.0.x supplies an attribute value for Single Value Matching, "R" indicates a Range Value and "*" is for Wildcard matching. See section 4.2.2.3.1.1for setup location.
R:	Return keys. An "x" indicates that HD15 3.0.x supplies this attribute as a Return Key with zero length for Universal Matching.
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's data is included into applicable Image, SR or MPPS Object Instances created during performance of the related Procedure Step.
Notes:	
1	Scheduled Performing Physician's Name is set in MPPS, sets the "Performed by" field in the Patient ID screen.

2	Scheduled Procedure Step Description is set in MPPS and images. May be used to set "Description" field in the Patient Selection screen and is mapped to "Study Description" in images. 2nd Configuration choice for "Study Description" in images.
3	Returned Scheduled Protocol Code Sequence contents are mapped to Scheduled Action Item Code Sequence and Performed Action Item Code Sequence in MPPS. If Code Meaning is present it is the 3rd Configuration option for Study description in images.
4	Scheduled Procedure Step Location sets the "Location" field in the Patient Selection Screen.
5	Requested Procedure Description value is set in the "Description" field of the Patient Selection screen and "Study Description" of the Patient ID screen. Manual entry to Study Description field is also sent in Image and MPPS messages.
6	May be used to set "Indication" field on Patient Selection screen. 1st choice, configurable. Not exported in DICOM.
7	Displayed on Patient ID screen and sent in MPPS and Images.
8	Sets the "Referring Physician" in Patient ID and Patient Selection screens.
9	May be used to set "Indication" field on Patient Selection screen. 2nd choice, configurable.
10	Displayed in "Alternate ID Number" field of Patient ID screen. Sent only in Images.
11	Birth Date and Birth Time can populate the 'DOB" field of Patient ID screen. Birth Date only is sent in MPPS messages.
12	Populates the "Gender" field in the Patient Selection screen.
13	Populates the "Age" field in the Patient Selection screen.
14	Populates "Height" fields in "Patient ID" and "Patient Selection" screens.
15	Populates "Weight" fields in "Patient ID" and "Patient Selection" screens.

4.2.2.3.2 Activity –Acquire Images

4.2.2.3.2.1 Description and Sequencing of Activities

An association to the configured MPPS SCP system is established immediately after the closing the Patient Data Entry screen, sending 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. See section 4.1.1, Application Data Flow for details on append.

Pressing the "Cancel" 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. 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.

HD15 3.0.x 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.

The opening of a study marks the beginning of a new Modality Performed Procedure Step (MPPS). At this time, a MPPS record is created on the MPPS SCP through the use of the N-CREATE service. If the MPPS SCP is unavailable at this time, the request is queued and will be sent when the MPPS SCP is available.

When the user ends the scheduled procedure by closing the study and saving any changes, the MPPS status is "Completed". Alternatively, the user may choose to cancel acquisition, the study is saved in local storage and the

MPPS status becomes “Discontinued”. At this time, the Study Management AE attempts to modify the MPPS on the MPPS SCP through the use of the N-SET service. If the MPPS SCP is unavailable, the request is queued and will be sent when the MPPS SCP is available.

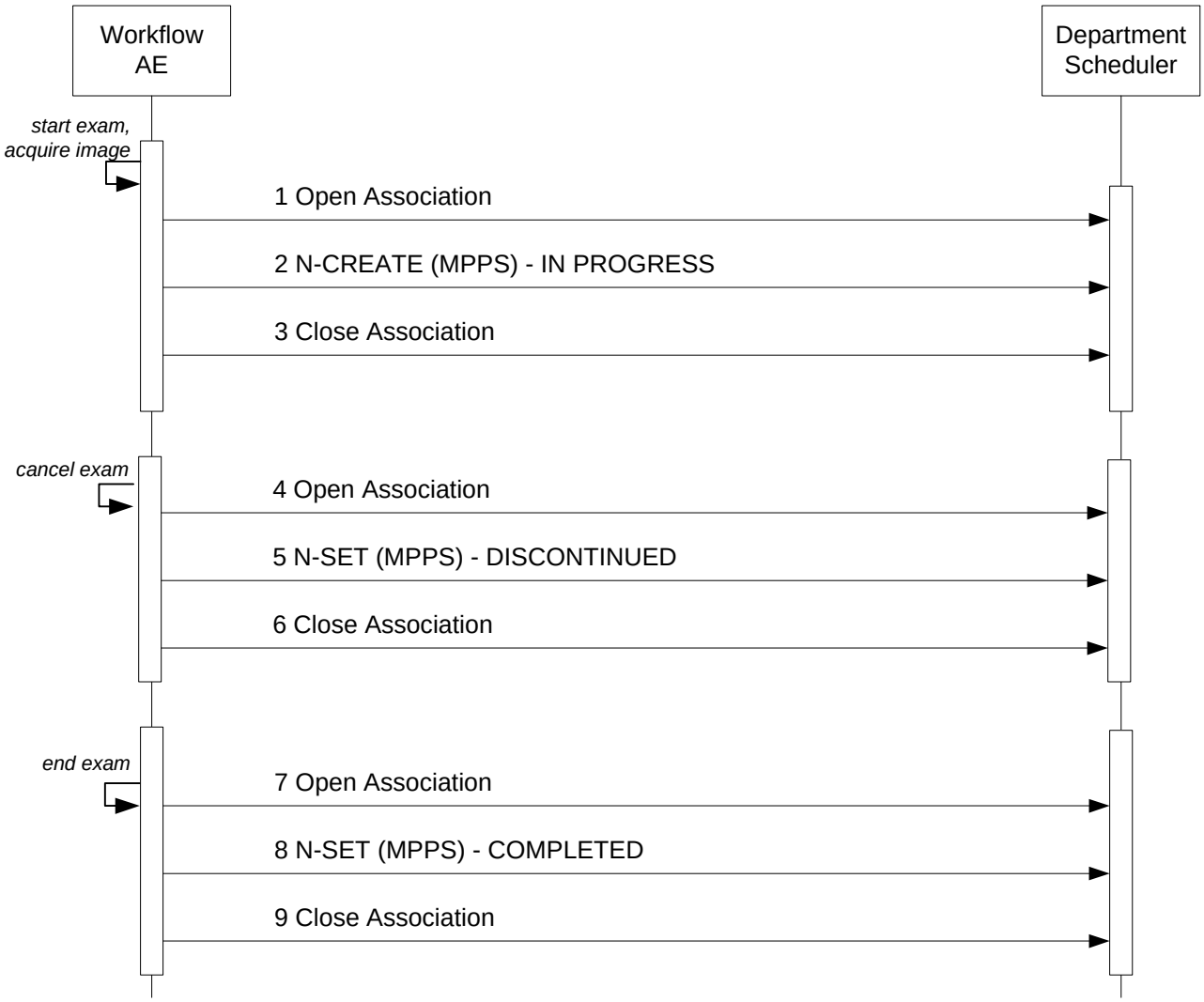


Figure 6
SEQUENCING OF ACTIVITY – ACQUIRE IMAGES

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

HD15 3.0.x 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**		**Role**	**Ext. Neg.**
Name	**UID**	**Name List**	**UID List**		
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	Explicit VR Little Endian* Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2	SCU	None

*Note: If the worklist server accepts Explicit VR Little Endian and Implicit VR Little Endian then HD15 3.0.x will use Explicit VR Little Endian Transfer Syntax.

4.2.2.3.2.3 SOP Specific Conformance for MPPS

Table 28 summarizes the behavior of HD15 3.0.x when encountering status codes in an MPPS N-CREATE or N–SET response.

The updated attributes are shown in Table 30 below. The “N_CREATE Usage” column shows the attributes transmitted when the status of the study changes to “IN_PROGRESS”. The “N-SET Usage” column shows the attributes transmitted when the status of the study changes to “COMPLETED” or “DISCONTINUED”.

Note: The following fields are copied from the selected MWL entry to the Patient ID screen:

Accession Number

Patient’s Name

Patient’s ID

Patient’s Birth Date

Patient’s Sex

Referring Physician’s Name

Study description

Usually, the performing physician will accept the information in the Patient ID Screen, as is, however the physician has the option of editing the information before starting the study. If the physician edits this information then the MPPS N-CREATE command that is sent to the MPPS server on study start will use the edited information and not the original MWL information.

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 HD15 3.0.x 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	See Section 6 for details.	
Modality	(0008,0060)	CS	US	
Referenced Patient Sequence	(0008,1120)	SQ	If available from MWL, else NULL	
> Referenced SOP Class UID	(0008,1150)	UI	1.2.840.10008.3.1.2.1.1 No value sent for unscheduled study.	
>Referenced SOP Instance UID	(0008,1155)	UI	No value sent for unscheduled study.	
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 to the “MRN” field. MWL value may be edited.	
Patient’s Birth Date	(0010,0030)	DA	Same as above, except “Patient’s Birth Date” field.	
Patient’s Sex	(0010,0040)	CS	Same as above, except “Gender” field.	
Study ID	(0020,0010)	SH	System Generated, starting with 1 and incrementing for each study,	
Performed Station AE Title	(0040,0241)	AE	AE Title from configuration (requires power cycle to use updated setting)	
Performed Station Name	(0040,0242)	SH	Same as “Performed Station AE Title’ tag above.	
Performed Location	(0040,0243)	SH	If available from MWL, else NULL	

Attribute Name	Tag	VR	N-CREATE	N-SET
Performed Procedure Step Start Date	(0040,0244)	DA	Actual start date (on close of PDE screen)	
Performed Procedure Step Start Time	(0040,0245)	TM	Actual start time (on close of PDE screen)	
Procedure Code Sequence	(0008,1032)	SQ	Mapped from Requested Procedure Code Sequence (0032,1064) from MWL No value sent for unscheduled study.	As received from MWL No value sent for unscheduled study.
>Code Value	(0008,0100)	SH	As received from MWL No value sent for unscheduled study.	As received from MWL No value sent for unscheduled study.
>Coding Scheme Designator	(0008,0102)	SH	As received from MWL No value sent for unscheduled study.	As received from MWL No value sent for unscheduled study.
>Coding Scheme Version	(0008,0103)	SH	As received from MWL No value sent for unscheduled study.	As received from MWL No value sent for unscheduled study.
>Code Meaning	(0008,0104)	LO	As received from MWL No value sent for unscheduled study.	As received from MWL No value sent for unscheduled study.
Performed Procedure Step End Date	(0040,0250)	DA	Zero length	Actual end date
Performed Procedure Step End Time	(0040,0251)	TM	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 in the format, <YYYYMMDD.HHMMSS>	
Performed Procedure Step Description	(0040,0254)	LO	Set from “Study Description” field in PDE, else mapped from Requested Procedure Description in MWL.	
Performed Procedure Type Description	(0040,0255)	LO	If present in MWL, else ”Indication” field in PDE.	
Performed Protocol Code Sequence	(0040,0260)	SQ	Zero length, or mapped from MWL Scheduled Protocol Code Sq (0040,0008)	
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.	

Attribute Name	Tag	VR	N-CREATE	N-SET
>> 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	
> Requested Procedure Description	(0032,1060)	LO	Same value as in MWL attribute, 1st Choice, from "Study Description" in PDE, else NULL	
> Scheduled Procedure Step Description	(0040,0007)	LO	Same value as in MWL attribute, else NULL	
> Scheduled Protocol Code Sequence	(0040,0008)	SQ	Same value as in MWL attribute, else NULL	
> Scheduled Procedure Step ID	(0040,0009)	SH	Same value as in MWL attribute, else NULL	
> Requested Procedure ID	(0040,1001)	SH	Same value as in MWL attribute, else NULL	
Performed Series Sequence	(0040,0340)	SQ		One item per acquired series
> Retrieve AE Title	(0008,0054)	AE	Zero Length	Same
> Series Description	(0008,103E)	LO	Zero Length	Same
> Performing Physician's Name	(0008,1050)	PN	From the "Performed by" field in PDE	From the "Performed by" field in PDE
> Operator's Name	(0008,1070)	PN	From the "Performed by" field in PDE	Same
> Referenced Image Sequence	(0008,1140)	SQ	Zero Length	Zero Length
>> Referenced SOP Class UID	(0008,1150)	UI		
>> Referenced SOP Instance UID	(0008,1155)	UI		
> Protocol Name	(0018,1030)	LO	"Free Form"	"Free Form"
> Series Instance UID	(0020,000E)	UI	Auto Generated	Same
> Referenced Non-Image Composite SOP Instance Sequence	(0040,0220)	SQ	Zero Length	Zero Length

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

HD15 3.0.x provides 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

The Print Meta SOP Classes are defined by the following set of supported SOP Classes:

- Basic Film Session SOP Class
- Basic Film Box SOP Class
- Basic Grayscale (or Color) Image Box SOP Class
- Printer SOP Class

Important note about printing by HD15 3.0.x:

- The number of Film Boxes per session is one
- The number of images per Film Box is one
- Most image formatting and layout is performed by HD15 3.0.x resulting in a single rather large dataset sent to the printer
- HD15 3.0.x will release the association after the print command (N-Action-Rq) is sent. It will not hold the association open to receive the printer's N-Event-Report message.

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

HD15 3.0.x initiates 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

Maximum number of simultaneous Associations	2

Note: One Black and White only Printer/Server and one Color Printer/Server.

4.2.3.2.3 Asynchronous Nature

HD15 3.0.x does 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:

Table 35
DICOM IMPLEMENTATION CLASS AND VERSION FOR AE HARDCOPY

Implementation Class UID	1.3.46.670589.14.2000.300
Implementation Version Name	HD15_300

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.

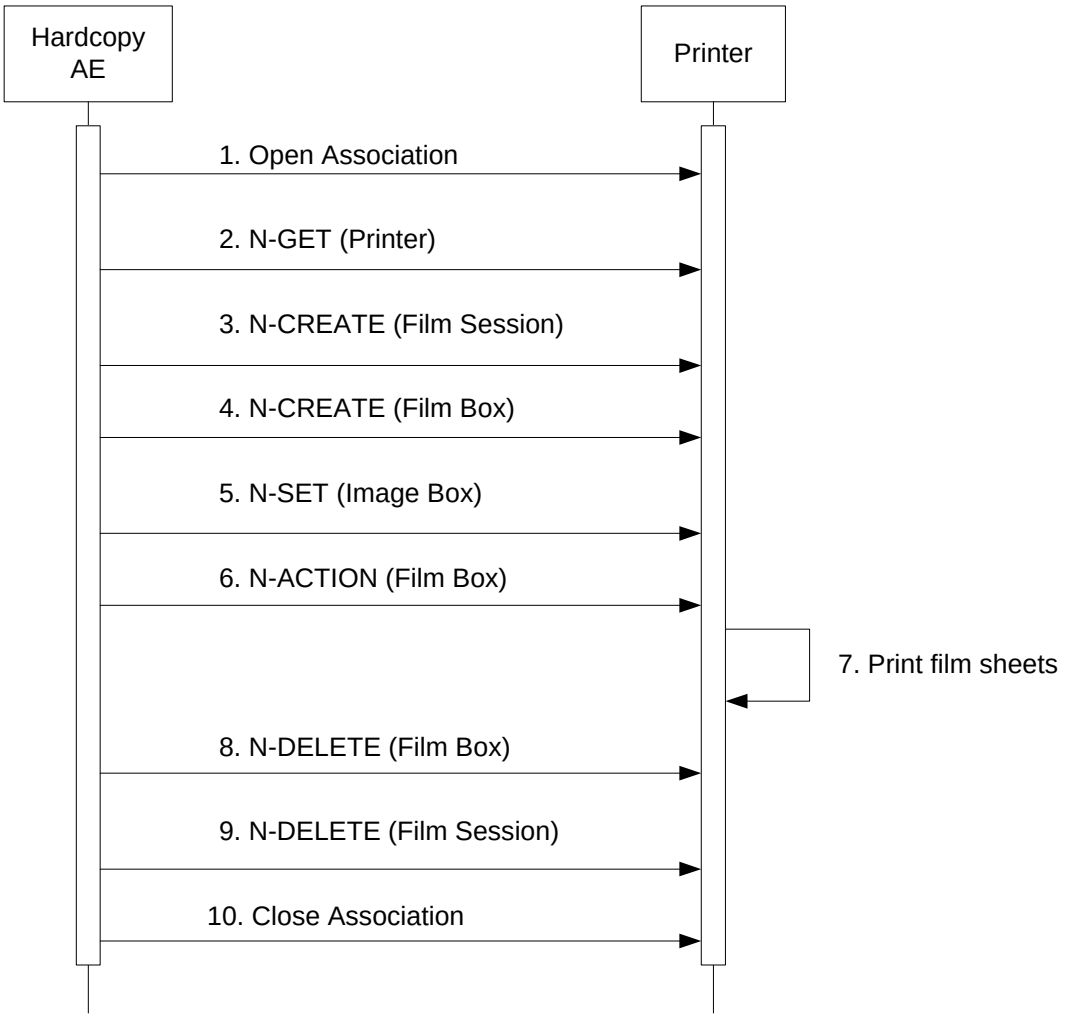


Figure 7
SEQUENCING OF ACTIVITY – PRINT IMAGES

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 images that contain color data, i.e., Color Flow Doppler or “Chroma” will be sent to the Color printer, and all other images will be sent to the BW printer.

In “Send as you go”, images will be sent to the printer when the number needed to fill the configured format is met, until “End Exam” is pressed when page(s) that have not been exported will be sent. In “Batch mode” or “Manual”, each formatted page is sent as soon as it is composed by the system. If fewer images than a full page are sent, the remaining blank spaces will be sent black.

Status of the print-job is reported through the Job Manager (CNTL-J). 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 HD15 3.0.x is capable of proposing.

Table 36
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY FILM IMAGES

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Ext. Neg.**
Name	**UID**	**Name List**	**UID List**		
Basic Grayscale Print Management Meta	1.2.840.10008.5.1.1.9	Explicit VR Little Endian* Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2	SCU	None
Basic Color Print Management Meta	1.2.840.10008.5.1.1.18	Explicit VR Little Endian* Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2	SCU	None

* Note: If the worklist server accepts Explicit VR Little Endian and Implicit VR Little Endian then HD15 3.0.x will use Explicit VR Little Endian Transfer Syntax.

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 retried as configured then 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 an 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 success.
*	*	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 retries as configured. Then marked as failed.
Failure	3	The job retries as configured print then is marked as failed.
*	*	Status code of 0113H

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

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

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

4.2.3.3.1.5 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. Range is 1 – 99.	ALWAYS	USER
Print Priority	(2000,0020)	CS	HIGH	ALWAYS	AUTO
Medium Type	(2000,0030)	CS	BLUE FILM, CLEAR FILM or PAPER and 'Printer Specific' options*	VNAP	USER
Film Destination	(2000,0040)	CS	MAGAZINE or PROCESSOR and 'Printer Specific' options *	ANAP	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 an 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.

4.2.3.3.1.5.2 Film Session SOP Class Operations (N-DELETE)

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

Table 44
PRINTER SOP CLASS N-DELETE RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully.
*	*	Any other status code.	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.

4.2.3.3.1.6 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.

4.2.3.3.1.6.1 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	Tag	VR	Value	Presence of Value	Source
Image Display Format	(2010,0010)	ST	STANDARD\1,1	ALWAYS	AUTO
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	Default = PORTRAIT, or LANDSCAPE	ALWAYS	AUTO/USER
Film Size ID	(2010,0050)	CS	Default – 8INX10IN and DICOM Defined Terms: 8INX10IN, 8_5INX11IN, 10INX12IN, 10INX14IN, 11INX14IN, 11INX17IN, 14INX14IN, 14INX17IN, 24CMX24CM, 24CMX30CM, A4, A3 and 'Printer Specific' options.	ALWAYS	AUTO/USER
Magnification Type	(2010,0060)	CS	NONE, CUBIC, BILINEAR, REPLICATE, 'Printer Specific' options	ANAP	USER
Min Density	(2010,0120)	US	User editable 0-999	ANAP	USER

Attribute Name	Tag	VR	Value	Presence of Value	Source
Max Density	(2010,0130)	US	User editable 0-999	ANAP	USER
Trim	(2010,0140)	CS	NO	ALWAYS	AUTO
Configuration Information	(2010,0150)	ST	DICOM supports a “config ID#” or a “config string”. Check “Printer Catalog” for appropriate data.	ANAP	USER

Table 48 summarizes the behavior of Hardcopy AE when encountering status codes in an 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.

4.2.3.3.1.6.2 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.

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

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully. The film has been accepted for printing.
Warning	Film Box SOP Instance hierarchy does not contain Image Box SOP Instances (empty page)	B603H	The 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.

4.2.3.3.1.7 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.

4.2.3.3.1.7.1 Image Box SOP Class Operations (N-SET)

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

Table 50
IMAGE BOX SOP CLASS N-SET REQUEST ATTRIBUTES

Attribute Name	Tag	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	“01” for Color-by-plane “00” for Color-by-Pixel, Used only for RGB print.	ANAP	USER
>Rows	(0028,0010)	US	Depends on film size	ALWAYS	See Printer Catalog
>Columns	(0028,0011)	US	Depends on film size	ALWAYS	See Printer Catalog
>Bits Allocated	(0028,0100)	US	8	ALWAYS	AUTO
>Bits Stored	(0028,0101)	US	8	ALWAYS	AUTO
>High Bit	(0028,0102)	US	7	ALWAYS	AUTO
>Pixel Representation	(0028,0103)	US	0	ALWAYS	AUTO
>Pixel Data	(7FE0,0010)	OW	Pixels of rendered film sheet.	ALWAYS	AUTO

* Mutually exclusive attributes

Table 51 summarizes the behavior of Hardcopy AE when encountering status codes in an 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.

Service Status	Further Meaning	Error Code	Behavior
*	*	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

HD15 3.0.x provides 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

HD15 3.0.x initiates one Association at a time for a Verification request.

Table 51.3
NUMBER OF ASSOCIATIONS INITIATED FOR AE VERIFICATION

Maximum number of simultaneous Associations	Up to 10, one for each configured remote device

Table 51.4
NUMBER OF ASSOCIATIONS ACCEPTED FOR AE VERIFICATION

Maximum number of simultaneous Associations	Unlimited - calling AE must be already configured in HD15 3.0.x.

4.2.4.2.3 Asynchronous Nature

HD15 3.0.x does not support asynchronous communication (multiple outstanding transactions over a single Association).

Table 51.5
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 51.6
DICOM IMPLEMENTATION CLASS AND VERSION FOR AE VERIFICATION

Implementation Class UID	1.3.46.670589.14.2000.300
Implementation Version Name	HD15_300

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 can verify the existence of a DICOM server on the hospitals network, through a button in the 'DICOM Setup' screen. When the user presses this button, HD15 3.0.x will initiate the association.

Only one association is established for each verification attempt. However, the proposed presentation contexts not only includes the 'Verification SOP class' but also includes all the SOP classes that HD15 3.0.x could possibly be connected to as Servers. This is done in order to retrieve the capabilities of the remote Server.

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Ext. Neg.**
Name	**UID**	**Name List**	**UID List**		
Verification	1.2.840.10008.1.1	Explicit VR Little Endian Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2	SCU /SCP	None
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 RLE Lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.5	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 RLE Lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.5	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
Modality Worklist Information Model – FIND	1.2.840.10008.5.1.4.31	Explicit VR Little Endian* Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2	SCU	None

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Ext. Neg.**
Name	**UID**	**Name List**	**UID List**		
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	Explicit VR Little Endian* Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2	SCU	None
Basic Grayscale Print Management Meta	1.2.840.10008.5.1.1.9	Explicit VR Little Endian* Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2	SCU	None
Basic Color Print Management Meta	1.2.840.10008.5.1.1.18	Explicit VR Little Endian* Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2	SCU	None

HD15 3.0.x initiates an Association in order to issue:

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

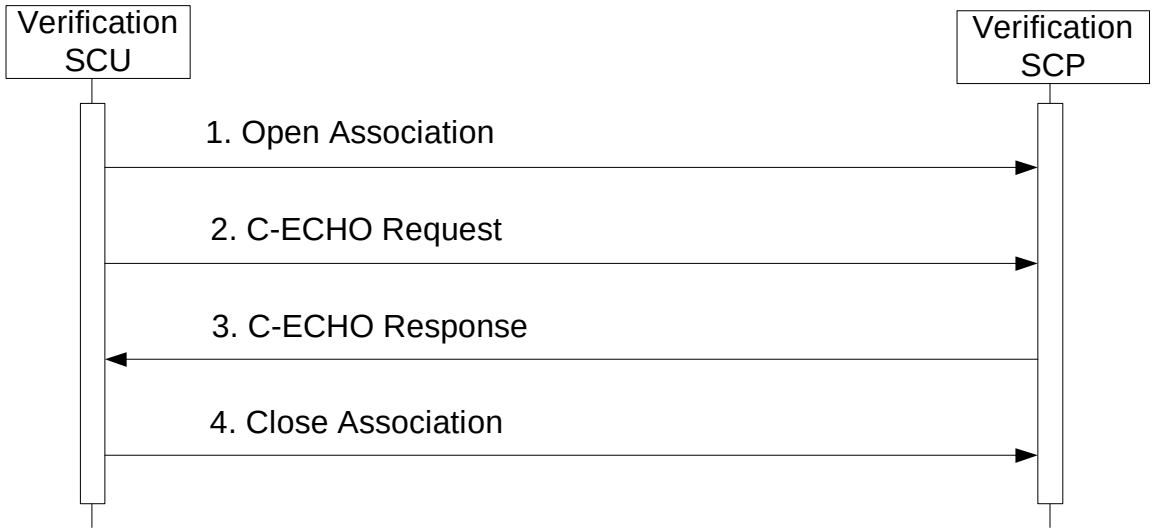


Figure 8a
SEQUENCING OF ACTIVITY – ISSUE VERIFY

SCP: The system listens on the port configured on the “This System” Configuration screen for Verification requests initiated by other remote devices. The calling device AE must already be configured as a remote device in HD15 3.0.x or the association is rejected.

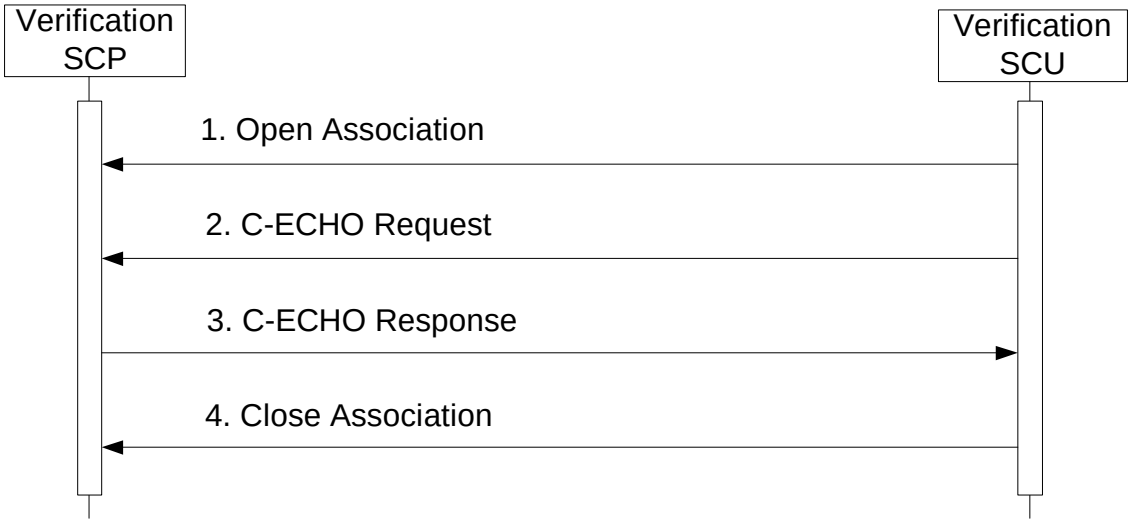


Figure 8b
SEQUENCING OF ACTIVITY – RECEIVE VERIFY

4.2.4.3.3 Proposed Presentation Contexts

HD15 3.0.x will propose Presentation Contexts as shown in the following table:

Table 51.7
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY VERIFICATION

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Ext. Neg.**
Name	**UID**	**Name List**	**UID List**		
Verification	1.2.840.10008.1.1	Explicit VR Little Endian Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2	SCU /SCP	None

4.2.4.3.4 SOP Specific Conformance for Verification

Table 51.8 summarizes the behavior of HD15 3.0.x when receiving status codes in a C-ECHO response.

A message will appear on the user interface if HD15 3.0.x receives any other SCP response status than “Success.”

Table 51.8
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.

Service Status	Further Meaning	Error Code	Behavior
*	*	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

Association Negotiation Request message contents for each DICOM device:

Device Type	SOP Classes Requested	Additional Notes
Primary or Secondary Storage SCP	US Image Storage US Multiframe Storage Verification	
Storage Commit SCP	Storage Commitment Verification	
SR Storage SCP	Comprehensive Structured Report Storage Verification	
SR Storage Commit SCP	Storage Commitment Verification	
B&W Printer SCP	Basic Grayscale META Print Verification	Color images may be sent to a bw printer if it supports converting to BW.
Color Printer SCP	Basic Color META Print Verification	May be the same printer if color is also supported.
MWL SCP	Modality Worklist Verification	MWL query settings are located in Setups > System > DICOM > DICOM Preset > Change Settings for current preset > Modify in Roles > MWL SCP – Advanced > Set Modality Worklist Query page.
PPS SCP	Modality Performed Procedure Step Verification	

4.3 PHYSICAL NETWORK INTERFACES

4.3.1 Supported Communication Stacks

4.3.1.1 TCP/IP Stack

HD15 3.0.x provides DICOM TCP/IP Network Communication Support as defined in Part 8 of the DICOM Standard.

4.3.2 Physical Network Interface

The HD15 3.0.x system supports one network interface at a time. The following physical network interfaces are available:

Table 52
SUPPORTED PHYSICAL NETWORK INTERFACE

1) Ethernet 10/100/1000BaseT, RJ-45, UTP, STP; AutoDetect Speed, Full or Half Duplex
2) 802.11 b/g Wireless

4.4 CONFIGURATION

AE Title/Presentation Address Mapping

The DICOM setup screen allows the user to configure a significant number of options including (but not limited to):

- For the HD15 3.0.x system, it's AE Title, IP Address and Port number, Wired or Wireless connection.
- For DICOM servers, their AE Title, Port number, IP address.
- For Storage SCP's and for media storage, the image format.

  Advanced settings (including Photometric Interpretation settings: MONOCHROME2, RGB, Palette color and YBR_FULL_422 and Transfer Syntaxes: Implicit Little Endian, Explicit Little Endian, RLE and JPEG for images), loop timing, pixel spacing, and display compensation.
- For DICOM Printers, many DICOM configuration settings
- For a MWL server, the query parameters: scheduled procedure start range, modality, AE Title.

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

Device Type	Supported SOPs
Primary or Secondary Storage SCP	Ultrasound Store Ultrasound Multiframe Store
Storage Commit SCP	Storage Commitment Push Model
SR Storage SCP	Comprehensive Structured Report Store
SR Storage Commit SCP	Storage Commitment Push Model
B&W Printer SCP	Basic Grayscale Print Meta
Color Printer SCP	Basic Color Print Meta
MWL SCP	Modality Worklist
PPS SCP	Modality Performed Procedure Step

To configure a single server that supports image store, commitment and PPS, then a "Server" entry must be configured under "Setups>DICOM…>Change Settings for DICOM Preset>Servers and Roles>Servers". Enter a Name (an 'alias' used in the system UI only), the appropriate AE Title, IP Address, Port number and timeout values. "Ping" sends an ICMP ping message to the address and a DICOM Verification Association message is sent to the Port and AE Title. A success message is displayed if all is configured correctly at this level. If

not, an error message dialog is displayed indicating possible reasons and suggested corrective actions. Hit "Done" to continue to Role definition.

Once the server data is defined, then its role and options are configured. For each role, as in Primary Storage SCP, MPPS SCP, etc, select the server's alias name from the list. If "Advanced" options are available, select the "Advanced" button to access them,

When Role configuration is completed and "Done" is selected under "Roles", then another set of Verification messages are sent to each server confirming network connectivity and DICOM role support. A dialog box updates as the tasks are in progress. No error messages indicates successful configuration.

4.4.1.1 Local AE Title

All local AEs use the same AE Title and TCP/IP Port configured via the Setups>DICOM…>Change Settings for DICOM Setup>This System screen. The system listens on the configured Port only for Verification requests and Storage Commitment N-Event reports. The system supports Static Addressing or DHCP to receive its IP Address, Subnet Mask and Default Gateway address.

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 Setups>DICOM…>Change Settings for DICOM Preset>Servers and Roles>. The remote system's IP Address may be entered manually if known or the Host Name of the remote device may be entered and resolved by the DNS if the network includes this service.

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.

The default MWL query uses Modality = "US". This may be changed in the "Set Modality Worklist Query Customizable Queries" definition page. Alternately, "ANY" modality may be selected.

"AE Title" may be selected as the system's or a custom query value may be defined for a different AE Title or for "ANY".

The Start Date defaults to "Today" but may be modified to be "All Dates", or a Date Range that may be 0 - 99 days (or hours) Prior plus the next 0 -99 days.

The automated polling interval range for sending MWL queries is between 1 and 32,767 minutes, defaulting to 10 minutes.

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 Setups>DICOM…>Change Settings for DICOM Preset>Servers and Roles>BW or Color Printer SCP Advanced settings.

5 MEDIA STORAGE

5.1 IMPLEMENTATION MODEL

5.1.1 Application Data Flow

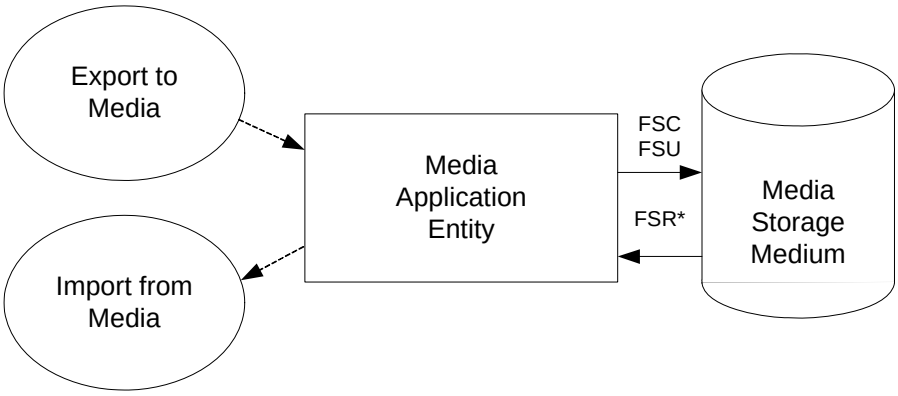


Figure 9
APPLICATION DATA FLOW DIAGRAM FOR MEDIA STORAGE

— The Media Application Entity exports Images and Structured Reports to a removable storage medium. It is associated with the local real-world activity “Export” using the configured export selection parameters for selected patients’ data (images and / or Structured Reports). For “Import”, the system will not read in Structured Reports.

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

HD15 3.0.x will support the use of most writable media including CD-R, CD-RW, DVD-R, DVD+R, DVD-RW, DVD+RW, and USB devices. The DICOM structure will be the same regardless of media used.

5.1.2 Functional Definition of AEs

5.1.2.1 Functional Definition of Media Application Entity

Using ”Export” will pass the currently selected patients’ exams or individually selected images to the Media Application Entity. The contents of each export job will be written to the selected media destination. The size of the selected media is used to determine and display the number of media required for the export. When a device is filled to capacity, the system will prompt the user for addition media and continue.

5.1.3 Sequencing of Real-World Activities

At least one image must exist and be selected before the Media Application Entity can be invoked. The operator can insert new media at any time. The Media Application Entity will wait indefinitely for media to be inserted before starting to write to the device.

5.1.4 File Meta Information Options

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

Table 65
DICOM IMPLEMENTATION CLASS AND VERSION FOR MEDIA STORAGE

Implementation Class UID	1.3.46.670589.14.2000.300
Implementation Version Name	HD15_300

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-MF-CDR STD-GEN-CD*	Send to….Media	FSC	Interchange
STD-US-SC-MF-DVD STD-GEN-DVD STD-GEN-USB-JPEG		FSC, U**	
STD-US-SC-MF-CDR STD-US-SC-MF-DVD STD-GEN-USB-JPEG	Send to … Hard Disk	R***	

* Note that Ultrasound-specific Application Profiles do not include Structured Report SOP Class, necessitating addition of the STD-GEN CDR and DVD Application Profiles.
** Update functionality requires DVD+RW, or USB
*** File Set Reader functionality may be limited only to media created by other HD15 3.0.x systems.

For previously imported studies, HD15 3.0.x will export the IODs using the transfer syntax and tags that were used when HD15 3.0.x originally imported the study.

Transfer Syntax and Photometric Interpretation options for removable media

Transfer Syntax	Photometric Interpretation
Uncompressed (DICOM Explicit VR Little Endian)	Palette Color
Uncompressed (DICOM Explicit VR Little Endian)	RGB
Uncompressed (DICOM Explicit VR Little Endian)	MONOCHROME2
RLE (Lossless) Compression	Palette Color
RLE (Lossless) Compression	RGB
RLE (Lossless) Compression	MONOCHROME2
JPEG (Lossy) Compression	YBR_FULL_422

Reading a DICOM study from removable media

When requested to read the media directory, the HD15 3.0.x Application Entity acts as FSR using the Interchange Option.

Choosing the Import operation from a menu initiates importing images. See the system user manuals for a description of the specific user interface capabilities. HD15 3.0.x doesn't support FSR role for DICOM SR.

5.2.1.1 File Meta Information for the Application Entity

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

5.2.1.2 Real-World Activities

5.2.1.2.1 Activity – Send to Media – "Export"

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.

5.2.1.2.2 Activity – Import from Media – "Import"

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 Import Studies icon 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 HD15 3.0.x.

5.2.1.2.3 Activity – Update to Media – Export"

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.

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
US Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Explicit VR Little Endian JPEG Lossy Baseline RLE	1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.5
US Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Explicit VR Little Endian JPEG Lossy Baseline RLE	1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.5
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

* Export only.

Directory Information Module

All data elements are used as described in DICOM 3.0 Part 3 for Basic Directory Object Definitions. As stated in the Ultrasound Application Profile, "The (DICOMDIR) Directory shall include Directory Records of PATIENT, STUDY, SERIES, IMAGE and SR DOCUMENT corresponding to the information object files in the File-set". These are present when writing media. Given this requirement, HD15 3.0.x uses these directory records to identify the study to import with the exception of SR DOCUMENT. If there are DICOM image files on the import media that do not appear in the DICOMDIR Directory Information Module (either because references to these files were omitted or because the Directory Information Module, optional in DICOM but required in the Ultrasound Application Profile, does not exist), these files are not recognized by the system.

HD15 3.0.x ignores directory Record Types other than those above.

HD15 3.0.x also ignores the "File-set consistency Flag" (0004, 1212).

Patient Directory Record

Attribute Name	Tag	Type	Usage
Specific Character Set	0008,0005	1C	The default DICOM character set and optional set ISO-IR 100 (Latin 1) are supported. See Section 6 for details.
Patient Name	0010,0010	2	Displayed to help the user identify the patient folder in which to place the studies for this patient.
Patient ID	0010,0020	1	Displayed to help the user identify the patient folder in which to place the studies for this patient.

Study Directory Record

Attribute Name	Tag	Type	Usage
Specific Character Set	0008,0005	1C	The Default DICOM character set and optional set ISO-IR 100 (Latin 1) are supported. See Section 6 for details.
Study Date	0008,0020	1	Used in displaying list of studies to user
Study Time	0008,0030	1	Used in displaying list of studies to user
Accession Number	0008,0050	2	Stored in the system database
Study Description	0008,1030	2	Generated
Study Instance UID	0020,000D	1C	Stored in the system database
Study ID	0020,0010	1	Stored in the system database

Series Directory Record

Attribute Name	Tag	Type	Usage
Specific Character Set	0008,0005	1C	The default DICOM character set and optional set ISO-IR 100 (Latin 1) are supported. See Section 6 for details.
Modality	0008,0060	1	Only US is supported. Other modalities are ignored.
Series Instance UID	0020,000E	1	Stored
Series Description	0008,103E	3	Stored
Series Number	0020,0011	1	Stored

Image Directory Record

Attribute Name	Tag	Type	Usage
Specific Character Set	0008,0005	1C	The default DICOM character set and optional set ISO-IR 100 (Latin 1) are supported. See Section 6 for details.
Instance Number	0020,0013	1	Used
Referenced File ID	0004,1500	1C	Used
Referenced SOP Class UID in File	0004,1510	1C	Used
Referenced SOP UID in File	0004,1511	1C	Used
Referenced Transfer Syntax UID in File	0004,1512	1C	Used
Content Date	0008,0023	3	Used for ordering the thumbnail display. On Export, comes from the image.
Content Time	0008,0033	3	Used for ordering the thumbnail display. On Export, comes from the image.

SR Document Directory Record

Attribute Name	Tag	Type	Usage
Specific Character Set	0008,0005	1C	The default DICOM character set and optional set ISO-IR 100 (Latin 1) are supported. See Section 6 for details.
Instance Number	0020,0013	1	Used
Referenced File ID	0004,1500	1C	Used
Referenced SOP Class UID in File	0004,1510	1C	Used
Referenced SOP UID in File	0004,1511	1C	Used
Referenced Transfer Syntax UID in File	0004,1512	1C	Used
Content Date	0008,0023	3	Used for ordering the thumbnail display. On Export, comes from the image.
Content Time	0008,0033	3	Used for ordering the thumbnail display. On Export, comes from the image.
Concept Name Code Sequence	(0040,A043)	1	Code describing the concept represented by the root Content Item (Document Title).
>Code Value	0008,0100		Used to identify SR Template value
>Coding Scheme Designator	0008,0102		DCM
>Code Meaning	0008,0104		Name of the SR template
Completion Flag	0040,A491		“PARTIAL”
Verificaiton Flag	0040,A493		“UNVERIFIED”

6 SUPPORT OF CHARACTER SETS

All HD15 3.0.x DICOM applications support the

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

HD15 3.0.x will offer support for Chinese and Russian. This includes translating system text into these languages and allowing the user to input Chinese and Cyrillic characters into the system. One important aspect of this is that the user will be able to enter these special characters into the Patient ID screen.

The present DICOM standard allows Code Extension Techniques for multi-byte characters. Therefore, as well as the default character set (ISO-IR 6), HD15 3.0.x supports the following extended character sets:

ISO-IR 100	Latin Alphabet No. 1
ISO-IR 144	Russian Cyrillic

Important Note:

When an Application Entity which, does not support Code Extension Techniques, receives a Data Set, which includes multi-byte characters from a HD15 3.0.x system, misrepresentation of characters may occur.

The DICOM standard states that it is the responsibility of the Application Entity, which receives the Data Sets to take whatever action is considered necessary to minimize the effect of misrepresented characters. It is not the responsibility of the HD15 3.0.x system to take such action.

6.1 SUPPORT FOR RUSSIAN MARKETS

HD15 3.0.x uses "Code-extension techniques" to encode Russian Cyrillic characters in DICOM tags with value representations of SH, LO, ST, LT, UT, and PN.

The technique requires two things in a DICOM file that contains these characters:

1. Add the Optional Specific Character Set tag (0008,0005) and set the value to the list of identifiers for all the non-standard character sets that will appear in any string in the file separated by backslashes. For example:

   For Russian systems:
   (0008,0005) = "ISO 2022 IR 144\ISO 2022 IR 100"

   For English systems:
   (0008,0005) = "ISO 2022 IR 100"

2. Embed escape sequences in the strings that contain Cyrillic characters to cause the DICOM interpreting code to switch from one character set to another.

The escape sequences to be used are defined as:

"<ESC>(B" ISO - IR 6 ASCII - DICOM default character set

"<ESC>(J" ISO - IR 144 Russian Cyrillic

6.2 SUPPORT FOR CHINESE MARKETS

The current DICOM standard as of this release of HD15 3.0.x does not support Chinese character sets. HD15 3.0.x however provides support for Chinese customers so that they can enter text using Chinese characters.

If the system is set up for Chinese, then the user can enter just one version of the patient name. This would make Chinese systems work in the same way as Russian, English, French, Italian, and Spanish systems. The Chinese user will be able to enter the patient name using a combination of Chinese and Roman characters – all of the characters will appear wherever the system displays the patient name (image, report, Search for Study window, etc.).

Since the DICOM Standard does not offer support for Chinese characters, all Chinese characters entered into the Patient ID screen will be lost if a user exports or backs up a study to media. This will be noticed when the study is imported back into the system; upon import, each Chinese character will be replaced with a question mark ("?") character. The question marks will make it obvious to the user that the characters were lost.

If the user enters a patient name that consists entirely of Chinese characters, then the name will come back as "??????". In this case, the user will have to identify the study in the "Import Study" and "Search for Study" windows by the MRN. If the user enters a patient name that consists of a combination of Roman and Chinese characters, then Roman characters will be preserved, and the name will come back as something like "Lee ????????". This will give users who like to back up their studies the flexibility of entering a patient name with a combination of Roman and Chinese characters, and have at least part of the name come back during import.

Note that the original Chinese name will be "burned into" study images that are exported to media. These Chinese characters will remain on the images when the studies are imported back into the system.

7 SECURITY

DICOM security is not implemented on HD15 3.0.x at this time.

HD15 3.0.x incorporates an internal firewall that only accepts incoming traffic on the designated listening port, as configured in the "This System" tab of the DICOM setups screen. Changes to this port value require a power cycle to become effective.

8 ANNEXES

8.1 CREATED IOD INSTANCES

Table 69 specifies the attributes of an Ultrasound Image transmitted by the HD15 3.0.x storage application.

Table 70 specifies the attributes of a Comprehensive Structured Reports transmitted by the HD15 3.0.x 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 Unless otherwise noted, values returned from worklist may be overridden by User input.
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

Table 69
IOD OF CREATED US OR US MULTIFRAME SOP INSTANCES

IE	Module	Reference	Presence of Module
Patient	Patient	Table 71	ALWAYS
Study	General Study	Table 72	ALWAYS
	Patient Study	Table 73	ALWAYS
Series	General Series	Table 74	ALWAYS
Equipment	General Equipment	Table 75	ALWAYS
Image	General Image	Table 76	ALWAYS
	Image Pixel	Table 77	ALWAYS
	Palette Color Lookup Table	Table 77-a	ANAP
	Cine	Table 78	Only if Multi-frame

IE	Module	Reference	Presence of Module
	Multi-frame	Table 79	Only if Multi-frame
	US Region Calibration	Table 80	ANAP
	US Image	Table 81	ALWAYS
	VOI LUT	Table 82	ANAP
	SOP Common	Table 83	ALWAYS

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
	Patient Study	Table 73	ALWAYS
Series	SR Document Series	Table 84	ALWAYS
Equipment	General Equipment	Table 75	ALWAYS
Document	SR Document General	Table 85	ALWAYS
	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	Tag	VR	Value	Presence of Value	Source
Patient's Name	(0010,0010)	PN	Same attribute of MWL or PDE input	ALWAYS	MWL/ USER/ AUTO
Patient ID	(0010,0020)	LO	From MWL, user input or system generated.	ALWAYS	MWL/ USER/ AUTO
Patient's Birth Date	(0010,0030)	DA	Same attribute of MWL or PDE input	VNAP	MWL/ USER

Attribute Name	Tag	VR	Value	Presence of Value	Source
Patient's Sex	(0010,0040)	CS	Same attribute of MWL or PDE input User Input may be: M = male F = female O = other If "Unknown", an empty string is sent.	VNAP	MWL/ USER
Other Patient IDs	(0010,1000)	LO	Same attribute of MWL or PDE input to Alternate ID number.	ANAP	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 If non-Worklist, format is: 1.3.46.670589.14.<model>.300.4.<serno>.<datetime>.<n> <model> is 2000 for HD15 <serno> is system serial number <datetime> is date time when the uid was requested in yyyymmddhhmmss format <n> is the nth image generated at the <datetime>th second	ALWAYS	MWL/ AUTO
Study Date	(0008,0020)	DA	Study's Start Date (0040,0244).	ALWAYS	AUTO
Study Time	(0008,0030)	TM	Study's Start Time (0040,0245).	ALWAYS	AUTO
Referring Physician's Name	(0008,0090)	PN	User Input from Patient ID screen. From MWL, only Last, First and Middle names sent as "Last, First, Middle" in the Last name field.	VNAP	MWL/ USER
Study ID	(0020,0010)	SH	Auto-generated starting at 1	ALWAYS	AUTO
Accession Number	(0008,0050)	SH	Same attribute of MWL or user PDE input.	VNAP	MWL/ USER

Attribute Name	Tag	VR	Value	Presence of Value	Source
Study Description	(0008,1030)	LO	'Study Description' in PDE or, Configurable by the user through setup. Can either be a fixed list or (for users with a MWL server), can be obtained from the MWL Server. The string used will be the first non-empty string from the following list: Requested Procedure description tag (0032,1060), Scheduled Procedure Step description tag (0040,0007) Scheduled Procedure Step, "Code Meaning" tag (0008,0104) Reason for the requested procedure tag (0040,1002) Reason for imaging service request tag (0040,2001)	ANAP	MWL/ USER

Table 73
PATIENT STUDY MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Patient Size	(0010,1020)	DS	Same value as MWL attribute or PDE input.	ANAP	MWL/ USER
Patient's Weight	(0010,1030)	DS	Same value as MWL attribute or PDE input.	ANAP	MWL/ USER
Additional Patient's History	(0010,21B0)	LT	Only from User Input	ANAP	USER

Table 74
GENERAL SERIES MODULE OF CREATED IMAGE SOP INSTANCES

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

Attribute Name	Tag	VR	Value	Presence of Value	Source
Series Instance UID	(0020,000E)	UI	A system generated Unique Identifier of the form: 1.3.46.670589.14.<model>.300.3.<serno>.<datetime>.<n> <model> is 2000 for HD15 <serno> is system serial number <datetime> is date time when the uid was requested in yyyymmddhhmmss format <n> is the nth image generated at the <datetime>th second Note: If a study is reopened, a new SeriesInstUID would be generated and all newly acquired images would be part of the new series. Also the MPPS messages (if applicable) that would be sent when the study is restarted would contain the newly generated SeriesInstUID.	ALWAYS	AUTO
Series Number	(0020,0011)	IS	Always 1 for images	ALWAYS	AUTO
Performing Physician's Name	(0008,1050)	PN	PDE input, 'Performed by'.	ANAP	USER
Protocol Name	(0018,1030)	LO	"Free Form" "Exercise 2 Stage" "Exercise 3 Stage" "Pharmacological 4 Stage" user defined	ANAP	AUTO
Series Description	(0008,103E)	LO	User entry in the 'Study Description' field of the Patient ID screen. If the user does not enter a value, this tag is not sent.	ANAP	MWL/ USER
Operator's Name	(0008,1070)	PN	User entry in the 'Performed by' field of the Patient ID screen. If the user does not enter a value, this tag is not sent.	ANAP	MWL/ USER
Referenced Performed Procedure Step Sequence	(0008,1111)	SQ	Identifies the MPPS SOP Instance this image is related to * Will be present when an MPPS Server is configured.	ANAP*	AUTO
>Referenced SOP Class UID	(0008,1150)	UI	PPS SOP Class = "1.2.840.10008.3.1.2.3.3" * Will be present when an MPPS Server is configured.	ANAP*	AUTO
>Referenced SOP Instance UID	(0008,1155)	UI	PPS Instance UID of the PPS generating this image * Will be present when an MPPS Server is configured.	ANAP*	AUTO
Request Attributes Sequence	(0040,0275)	SQ	This sequence will be present only for scheduled study. In case of unscheduled study, this sequence will not be present. This sequence will not be present if attributes 'Requested Procedure ID' and/or 'Scheduled Procedure Step ID' is/are missing.	ANAP	AUTO / MWL

Attribute Name	Tag	VR	Value	Presence of Value	Source
>Requested Procedure ID	(0040,1001)	SH	Auto-generated=Study ID or value from MWL. One item.	ANAP	AUTO / MWL
>Requested Procedure Description	0032,1060	LO	Set with the value entered or selected in “Study Description” field of Patient ID screen. If the study is started from MWL, the “Study Description” field of Patient ID screen is populated from ‘Requested Procedure Description” attribute of MWL. (1st choice, configurable)	ANAP	USER/ MWL
>Scheduled Procedure Step ID	(0040,0009)	SH	Auto-generated=Study ID or value from MWL. One item.	ANAP	AUTO / MWL
>Scheduled Procedure Step Description	(0040,0007)	LO	Same value as MWL attribute.	ANAP	MWL
>Scheduled Protocol Code Sequence	(0040,0008)	SQ	Same value as MWL attribute.	ANAP	MWL
Performed Procedure Step ID	(0040,0253)	SH	Set as current date and time in the format yyyymmdd.hhmmss.	ANAP	AUTO
Performed Procedure Step Start Date	(0040,0244)	DA	Date on which the Performed Procedure Step started on close of Patient Data Entry Screen	ANAP	AUTO
Performed Procedure Step Start Time	(0040,0245)	TM	Time on which the Performed Procedure Step started on close of Patient Data Entry Screen	ANAP	AUTO
Performed Procedure Step Description	(0040,0254)	LO	Set with the value entered or selected in ‘Study Description’ field of Patient ID screen. If the study is started from MWL, the “Study Description” field of Patient ID screen is populated from ‘Requested Procedure Description” attribute of MWL. (1st choice, configurable).	ANAP	USER / MWL
Performed Protocol Code Sequence	(0040,0260)	SQ	Zero length, or mapped from MWL Scheduled Protocol Code Sq (0040,0008)	ANAP	MWL

Table 75
GENERAL EQUIPMENT MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Manufacturer	(0008,0070)	LO	Philips Medical Systems	ALWAYS	AUTO

Attribute Name	Tag	VR	Value	Presence of Value	Source
Institution Name	(0008,0080)	LO	Entered by the user from the 'System' tab in the 'Setup' screen ('Top Border' button).Note: If the user imports an EnVisor or HD15 3.0.x study that was generated at another institution and opens the study the institution name displayed along the top border of the system screen is the institution viewing the images not the institution where the image was acquired. The institution name where the image was acquired can however be burned into the image. Also, if the user exports the study to removable media or to a networked PACS and changes the format of the image data in some way either by exporting it in a different image format from the internal format (Palette Color, RLE) or by applying a display compensation curve, then the institution name is changed to the current institution. 'Philips Healthcare' default.	VNAP	CONFIG
Station Name	(0008,1010)	SH	The AE Title of HD15 3.0.x system on which the image is acquired. The user can configure the AE Title of the system through 'Setup'.	VNAP	CONFIG
Software Version(s)	(0018,1020)	LO	This is a multi-valued tag which contains the following components: Model Name HD15_300 Then the part number and version of PRINTERS Ultrasound Application DRIVERS Operating System.	ALWAYS	AUTO
Manufacturer's Model Name	(0008,1090)	LO	HD15	ALWAYS	AUTO

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. Gaps in values may exist if images are deleted on the system prior to export.	ALWAYS	AUTO
Patient Orientation	(0020,0020)	CS	The system sends the tag empty	VNAP	AUTO
Content Date	(0008,0023)	DA	<yyyymmdd>	ALWAYS	AUTO
Content Time	(0008,0033)	TM	<hhmmss>	ALWAYS	AUTO
Image Type	(0008,0008)	CS	The system computes this value as the four component multi-value attribute: "<Pixel Data Characteristics> / <Patient Examination Characteristics> / <Modality Specific Characteristics> / <Implementation Specific Identifiers>" <Pixel Data Characteristics> Palette Color & RGB: "ORIGINAL" denotes original source-data YBR: "DERIVED" denotes pixels that have been derived from the original – in this case by lossy compression. MONOCHROME2: "DERIVED" denotes pixels that have been derived from the original – in this case by grayscale transformations. <Patient Examination Characteristics> Always "PRIMARY" <Modality Specific Characteristics> This is based on the user-selected entry in the drop down list 'Additional Data Type' on the Patient Id screen. It is mapped to the most appropriate value from the DICOM standard (Ex: "ABDOMINAL"). <Implementation Specific Identifiers>" Always blank.	ALWAYS	CONFIG
Acquisition Date	(0008,0022)	DT	The system uses the same value as the Content Date, tag 0008,0023.	ALWAYS	AUTO
Acquisition Time	(0008,0032)	TM	The system uses the same value as the Content time, tag 0008,0033.	ALWAYS	AUTO

Attribute Name	Tag	VR	Value	Presence of Value	Source
Acquisition Datetime	(0008,002A)	DT	The system generates this as a combination of Acquisition Date and Acquisition Time. The format is dd-mm-yyyy hh:mm:ss:ff	ALWAYS	AUTO
Lossy Image Compression	(0028,2110)	CS	"01" if image is lossy compressed, "00" if not.	ALWAYS	AUTO
Image Comments	(0020,4000)	LT	Not used with images. For reports, contains: "Report Version x Page x of x"	ANAP	AUTO
Presentation LUT Shape	(2050,0020)	CS	"IDENTITY". Only if "Image Export Format" is GSDF.	ANAP	AUTO

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	1 for MONOCHROME2 1 for PALETTE COLOR 3 for RGB 3 for YBR_FULL_422	ALWAYS	CONFIG
Photometric Interpretation	(0028,0004)	CS	MONOCHROME2 PALETTE COLOR RGB YBR_FULL_422	ALWAYS	CONFIG
Rows	(0028,0010)	US	2D B/W & Color stills/loops, acquired with top & right border: 600 2D B/W & Color quad-sized loops from stress: 300 Reports: 600	ALWAYS	CONFIG
Columns	(0028,0011)	US	2D B/W & Color stills/loops, acquired with top & right border: 800 2D B/W & Color quad-sized loops from stress: 336 Reports: 800	ALWAYS	CONFIG
Bits Allocated	(0028,0100)	US	Based on the 'Image Format' that is set by the user in DICOM Setup. Palette Color Mode: 2D B&W: 8 bits 2D Color & Reports: 16 bits RGB Mode: 2D B&W,: 8 bits 2D Color & Reports : 8 bits YBR_FULL_422 Mode:	ALWAYS	AUTO

Attribute Name	Tag	VR	Value	Presence of Value	Source
			2D B&W: 8 bits 2D Color & Reports: 8 bits MONOCHROME2 Mode: 8 bits		
Bits Stored	(0028,0101)	US	Always the same numbers as Bits Allocated.	ALWAYS	AUTO
High Bit	(0028,0102)	US	The High Bit is always (Bits Allocated -1).	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	Palette Color Images: Not present RGB Images: Zero (color-by-pixel) YBR: Images: Always zero (color-by-pixel) MONOCHROME2 Images: Not present	ANAP	AUTO
Red Palette Color Lookup Table Descriptor	(0028,1101)	IC	See Table 77-a.	ANAP	CONFIG
Green Palette Color Lookup Table Descriptor	(0028,1102)	IC	See Table 77-a.	ANAP	CONFIG
Blue Palette Color Lookup Table Descriptor	(0028,1103)	IC	See Table 77-a.	ANAP	CONFIG
Red Palette Color Lookup Table Data	(0028,1201)	IC	See Table 77-a.	ANAP	CONFIG
Green Palette Color Lookup Table Data	(0028,1202)	IC	See Table 77-a.	ANAP	CONFIG
Blue Palette Color Lookup Table Data	(0028,1203)	IC	See Table 77-a.	ANAP	CONFIG

Table 77-a
PALETTE COLOR LOOKUP TABLE MODULE

Attribute Name	Tag	VR	Value	Presence of Value	Source
Red Palette Color Lookup Table Descriptor	(0028,1101)	US	Used only for 2D and REPORT acquired as image. B&W stills & loops: 256, 0, 16 Color stills & loops: 0, 0, 16 REPORT (acquired as image): xx, 0, 16 where ‘xx’ is a variable value.	VNAP	CONFIG

Attribute Name	Tag	VR	Value	Presence of Value	Source
Green Palette Color Lookup Table Descriptor	(0028,1102)	US	Used only for 2D and REPORT acquired as image. B&W stills & loops: 256, 0, 16 Color stills & loops: 0, 0, 16 REPORT (acquired as image): xx, 0, 16 where 'xx' is a variable value.	VNAP	CONFIG
Blue Palette Color Lookup Table Descriptor	(0028,1103)	US	Used only for 2D and REPORT acquired as image. B&W stills & loops: 256, 0, 16 Color stills & loops: 0, 0, 16 REPORT (acquired as image): xx, 0, 16 where 'xx' is a variable value.	VNAP	CONFIG
Red Palette Color Lookup Table Data	(0028,1201)	OW	Used only for 2D and REPORT acquired as image.	ANAP	CONFIG
Green Palette Color Lookup Table Data	(0028,1202)	OW	Used only for 2D and REPORT acquired as image.	ANAP	CONFIG
Blue Palette Color Lookup Table Data	(0028,1203)	OW	Used only for 2D and REPORT acquired as image.	ANAP	CONFIG

Table 78
CINE MODULE OF CREATED US MULTIFRAME SOP

Attribute Name	Tag	VR	Value	Presence of Value	Source
Recommended Display Frame Rate	(0008,2144)	IS	Used for Multiframe	ANAP	AUTO
Cine Rate	(0018,0040)	IS	Used for Multiframe	ANAP	AUTO
Effective Series Duration	(0018,0072)	DS	Used for Multiframe	ANAP	AUTO
Frame Time	(0018,1063)	DS	Nominal time (in msec) per individual frame. Present if Frame Increment Pointer (0028,0009) points to Frame Time. Note: If you export a study to removable media using Average Frame Time, on import back into the system only the images up to but not including the loop will be imported. However the study on media is fine and can be imported onto a PACS without any problems.	ANAP	CONFIG
Frame Time Vector	(0018,1065)	DS	An array that contains the real time increments (in msec) between frames for a Multi-frame image. Present if Frame Increment Pointer (0028,0009) points to Frame Time Vector.	ANAP	CONFIG

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	Configurable by the user in DICOM Setup. If the user selects a loop timing preference where each frame in a loop has the same duration then Frame Increment Pointer takes the value 0018,1063 (Frame Time). If the user selects a loop timing preference where each frame in a loop has the different duration then Frame Increment Pointer takes the value 0018,1065 (Frame Time Vector).	ANAP	CONFIG

Table 80
US REGION CALIBRATION MODULE OF CREATED US IMAGE OR US MULTIFRAME IMAGE SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Sequence of Ultrasound Regions	(0018,6011)	SQ	A sequence is present for each region on the system display	ANAP	AUTO
>Region Location Min x_0	(0018,6018)	UL	Top Left position of region.	ALWAYS	AUTO
>Region Location Min y_0	(0018,601A)	UL	Top Left position of region	ALWAYS	AUTO
>Region Location Max x_1	(0018,601C)	UL	Bottom Right position of region	ALWAYS	AUTO
>Region Location Max y_1	(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. ECG Region = 0000H = None 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	ALWAYS	AUTO
>Reference Pixel	(0018,6022)	SL	The Y pixel value of baseline	ALWAYS	AUTO

Attribute Name	Tag	VR	Value	Presence of Value	Source
Y0					
>Reference Pixel Physical Value X	(0018,6028)	FD	For each region, the X coordinate of the reference point for measurements within that region.	ALWAYS	AUTO
>Reference Pixel Physical Value Y	(0018,602A)	FD	For each region, the Y coordinate of the reference point for measurements within that region.	ALWAYS	AUTO
>Region Spatial Format	(0018,6012)	US	Enumerated Value. 2D (tissue or flow) = 0001H MMode (tissue or flow) = 0002H Spectral (CW or PW Doppler) = 0003H ECG (waveform) = 0004H	ALWAYS	AUTO
>Region Data Type	(0018,6014)	US	Enumerated Value. Tissue = 0001H (2D only, MMode = 0000H) PW Spectral Doppler = 0000H CW Spectral Doppler = 0000H ECG (waveform) = 000AH	ALWAYS	AUTO
>Region Flags	(0018,6016)	UL	Always set to 3.	ALWAYS	AUTO

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

Attribute Name	Tag	VR	Value	Presence of Value	Source
Samples Per Pixel	(0028,0002)	US	See 'Image Pixel Module'	ALWAYS	AUTO
Photometric Interpretation	(0028,0004)	CS	See 'Image Pixel Module'	ALWAYS	CONFIG
Bits Allocated	(0028,0100)	US	See 'Image Pixel Module'	ALWAYS	AUTO
Bits Stored	(0028,0101)	US	See 'Image Pixel Module'	ALWAYS	AUTO
High Bit	(0028,0102)	US	See 'Image Pixel Module'	ALWAYS	AUTO
Planar Configuration	(0028,0006)	US	See 'Image Pixel Module'	ANAP	AUTO
Pixel Representation	(0028,0103)	US	"0" Pixels are Unsigned integers	ALWAYS	AUTO
Frame Increment Pointer	(0028,0009)	AT	(0018,1063) "Frame Time" or (0018,1065) "Frame Time Vector"	ANAP	CONFIG
Image Type	(0008,0008)	CS	See 'General Image Module'	ALWAYS	CONFIG
Lossy Image Compression	(0028,2110)	CS	"01" if image is lossy compressed, "00" if not.	ALWAYS	AUTO
Ultrasound Color Data Present	(0028,0014)	US	0 or 1	ALWAYS	AUTO

Attribute Name	Tag	VR	Value	Presence of Value	Source
Acquisition Datetime	(0008,002A)	DT	The date and time that the acquisition of data that resulted in this image started.	ALWAYS	AUTO
Transducer Data	(0018,5010)	LO	Transducer name. VM = 3, the last two fields are written as “UNUSED”.	ALWAYS	AUTO
Transducer Type	(0018,6031)	LO	SECTOR_PHASED, LINEAR, CURVED LINEAR Only used for 2D images; not used for Doppler-only images (i.e. pencil probes)	ANAP	AUTO
Processing Function	(0018,5020)	LO	The factory-defined exam/preset that was active when the image was acquired even if a user-defined preset.	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	2^{n-1} where n is the number of bits per pixel n = 8 Center = 128 n= 16 Center = 32768 Value only meaningful with MONOCHROME2.	ANAP	AUTO
Window Width	(0028,1051)	DS	2^{n} where n is the number of bits per pixel n = 8 Width = 256 n= 16 Width = 65336 Value only meaningful with MONOCHROME2.	ANAP	AUTO

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

Attribute Name	Tag	VR	Value	Presence of Value	Source
SOP Class UID	(0008,0016)	UI	1.2.840.10008.5.1.4.1.1.6.1 for US Image 1.2.840.10008.5.1.4.1.1.3.1 for US Multiframe Image	ALWAYS	AUTO
SOP Instance UID	(0008,0018)	UI	Generated by device in the format: 1.3.46.670589.14.2000.300.2.xxxxxx.yyyymmddhhmmsss.v where 2 indicates a SOP Instance UID, x indicates the system serial number,then date and time and v is a counter of the instances.	ALWAYS	AUTO
Specific Character Set	(0008,0005)	CS	The attribute contains all the character sets used (this is a multi-value attribute). See Section 6 for more information on the character sets that this system uses. ISO_IR 100 and possibly more. The most likely scenario that would require a non Basic Character set would be when the system has been set to a locale that uses non Basic characters (e.g. Russia) AND the user has entered one of these characters into the Patient Identification screen,	ALWAYS	AUTO

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 starting with 2.	ALWAYS	AUTO
Referenced Performed Procedure Step Sequence	(0008,1111)	SQ	Identifies the MPPS SOP Instance to which this image is related	ANAP	MPPS
>Referenced SOP Class UID	(0008,1150)	UI	PPS SOP Class = "1.2.840.10008.3.1.2.3.3"	ANAP	MPPS
> Referenced SOP Instance UID	(0008,1155)	UI	PPS Instance UID of the PPS generating this document	ANAP	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 starting with "0" zero.	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)	TM	Time content created.	ALWAYS	AUTO
Referenced Request Sequence	(0040,A370)	SQ	Identifies Requested Procedures being fulfilled (completely or partially) by creation of this Document. Null strring if unscheduled.	VNAP	AUTO
>Study Instance UID	(0020,000D)	UI	Same value as in MWL or auto generated	ALWAYS	MWL/ AUTO
>Referenced Study Sequence	(0008,1110)	SQ	1 item per item in MWL, absent if unscheduled	ANAP	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

Attribute Name	Tag	VR	Value	Presence of Value	Source
>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, absent if unscheduled	ANAP	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 (Adult Echo) 5220 (Pediatric Echo)	ALWAYS	AUTO
>Mapping Resource	(0008,0105)	CS	DCMR	ALWAYS	AUTO
Content Sequence	(0040,A730)	SQ		ALWAYS	AUTO
>Relationship Type	(0040,A010)	CS	*See Template ID 5000 for OB-GYN* *See Template ID 5100 for Vascular* *See Template ID 5200 for Adult Echo* *See Template ID 5220 for Pediatric Echo*	ALWAYS	AUTO
Document Relationship Macro Table			*See Template ID 5000 for OB-GYN* *See Template ID 5100 for Vascular* *See Template ID 5200 for Adult Echo* *See Template ID 5220 for Pediatric Echo*	ANAP	AUTO
Document Content Macro			*See Template ID 5000 for OB-GYN* *See Template ID 5100 for Vascular* *See Template ID 5200 for Adult Echo* *See Template ID 5220 for Pediatric Echo*	ALWAYS	AUTO
Value Type	(0040,A040)	CS	CONTAINER, always first tag of SR	ALWAYS	AUTO
Concept Name Code Sequence	(0040,A043)	SQ		ALWAYS	AUTO

Attribute Name	Tag	VR	Value	Presence of Value	Source
>Code Value	(0008,0100)		125000 for OB-GYN 125100 for Vascular 125200 for Adult Echo 125195 for Pediatric Echo	ALWAYS	AUTO
>Coding Scheme Designator	(0008,0102)		DCM	ALWAYS	AUTO
>Code Meaning	(0008,0104)		"OB-GYN Procedure Report" "Vascular Ultrasound Procedure Report" "Adult Echocardiography Procedure Report" "Pediatric Cardiac Ultrasound Report"	ALWAYS	AUTO
Continuity of Content	(0040,A050)	CS	SEPARATE	ALWAYS	AUTO
Numeric Measurement Macro			*See Template ID 5000 for OB-GYN* *See Template ID 5100 for Vascular* *See Template ID 5200 for Adult Echo* *See Template ID 5220 for Pediatric Echo*	ALWAYS	AUTO
Code Macro			*See Template ID 5000 for OB-GYN* *See Template ID 5100 for Vascular* *See Template ID 5200 for Adult Echo* *See Template ID 5220 for Pediatric Echo*	ALWAYS	AUTO

Table 87
SOP COMMON MODULE OF CREATED COMPOSITE SR SOP INSTANCES

Attribute Name	Tag	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	ISO_IR 100. See Section 6 for details.	ALWAYS	CONFIG

8.2 USED FIELDS IN RECEIVED IOD BY APPLICATION

The HD15 3.0.x 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 DICOM Part 4, Annex M.6

Table 88
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 > Study Description > Series Description > Performed Procedure Step Description	>Scheduled Procedure Step Description
Scheduled Protocol Code Sequence	>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

Modality Worklist	Image IOD	MPPS IOD
Requested Procedure Code Sequence	Procedure Code Sequence	Procedure Code Sequence
----	Referenced Performed Procedure Step Sequence	Performed Series Sequence
----	>Referenced SOP Class UID	SOP Class UID
----	>Referenced SOP Instance UID	SOP Instance UID
----	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 (Logical Observation Names and Codes), SRT (SNOMED – Systematized Nomenclature of Medicine) 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.

Tag Number	Tag Name	Added to:
0028,0030	Pixel Spacing	Images with a single 2D region or dual 2D with same depth See details in Section 8.7.3
2050,0020	Presentation LUT Shape	Images when 'GSDF' output format is selected

8.7.2 2D

The Pixel Spacing tag is added to the exported DICOM file when the user has configured this tag to be included and the image contains only one 2D calibration region and no Doppler or M-Mode calibration regions.

Contain the Pixel Spacing tag: 2D still, 2D loop, 2D color still, 2D color loop, MMode Preview Still, PW Preview Still, CW Preview still, Dual with same calibration on both images.

Do NOT contain the Pixel Spacing tag: MMode live trace, MMode frozen trace, PW live trace, PW Frozen trace, CW live trace, CW frozen trace, Reports and dual images with different calibration on each image.

This attribute is system generated, if used.

Attribute Name	Tag	Type	VR	Description	Value
Pixel Spacing	0028,0030	3	DS	Physical distance in the patient between the center of each pixel, specified by a numeric pair adjacent row spacing (delimiter) adjacent column spacing (in mm).	Adjacent row spacing \ Adjacent column spacing (in mm)

8.7.4 PRIVATE TRANSFER SYNTAXES

There are no Private Transfer Syntaxes.

APPENDIX A – Structured Reports

A.1 STRUCTURED REPORTS

Note that all the concepts defined privately by Philips have the CSD value as '99PMSBLUS'.

Note that **the average value is the average of all instances for the measurement for the study.**

A.2 OB – GYN STRUCTURED REPORT TEMPLATE

HD15 3.0.x implements the OB-GYN Ultrasound Procedure Report Template (TID 5000) from the DICOM standard, part 16. This appendix describes the scope and manner that HD15 3.0.x measurements appear in DICOM SR.

Measurements and calculations performed for Obstetric and Gynecology studies will lead to creation of "OB-GYN Ultrasound Procedure Report" structured report document. Measurements can be performed by pressing the 'Calc' key on the HD15 3.0.x control panel and selecting an OB of GYN analysis package. Measurements and calculations available in the menu can be configured through the setup application. It is also possible to configure the measurement unit (Metric or U.S).

All concepts with value type (VT) NUM will always have a 'MeasurementUnitCodeSequence' that specifies the unit of the measurement. The CSD for all units will be UCUM (Unified Code for Units) and CV and CM will be based on application configuration and will confirm to UCUM standards.

A.2.1 Template specific conformance for TID 5000

The template for the root of the content tree for TID 5000 and its use in the HD15 3.0.x context is described in the following table.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	EV (125000, DCM, "OB-GYN Ultrasound Procedure Report")	This is the root 'CONTAINER'
2	>	CONTAINS	INCLUDE	DTID (5001) Patient Characteristics	Refer to A.2.1.1 for HD15 3.0.x usage of this.
3	>	CONTAINS	INCLUDE	DTID (5002) OB-GYN Procedure Summary Section	Refer to A.2.1.2 for HD15 3.0.x usage of this.
4	>	CONTAINS	INCLUDE	DTID (5004) Fetal Biometry Ratio Section	Concepts in CID 12004 will be used, refer to A.2.1.3 for HD15 3.0.x usage of this.
5	>	CONTAINS	INCLUDE	DTID (5005) Fetal Biometry Section	Concepts in CID 12005 will be used, refer to A.2.1.4 for HD15 3.0.x usage of this.
6	>	CONTAINS	INCLUDE	DTID (5006) Long Bones Section	Concepts in CID 12006 will be used, refer to A.2.1.5 for HD15 3.0.x usage of this.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
7	>	CONTAINS	INCLUDE	DTID (5007) Fetal Cranium Section	Concepts in CID 12007 will be used, refer to A.2.1.6 for HD15 3.0.x usage of this.
8	>	CONTAINS	INCLUDE	DTID (5009) Biophysical Profile Section	Refer to A.2.1.7 for HD15 3.0.x usage of this.
9	>	CONTAINS	INCLUDE	DTID (5011) Early Gestation Section	Concepts in CID 12009 will be used, refer to A.2.1.8 for HD15 3.0.x usage of this.
10	>	CONTAINS	INCLUDE	DTID (5010) Amniotic Sac Section	Concepts in CID 12008 will be used, refer to A.2.1.9 for HD15 3.0.x usage of this.
11	>	CONTAINS	INCLUDE	DTID (5015) Pelvis and Uterus Section	Concepts in CID 12011 will be used, refer to A.2.1.10 for HD15 3.0.x usage of this.
12	>	CONTAINS	INCLUDE	DTID (5012) Ovaries Section	Refer to A.2.1.11 for HD15 3.0.x usage of this.
13	>	CONTAINS	INCLUDE	DTID (5013) Follicles Section	This section is used with concept modifier Laterality = Left. Refer to A.2.1.12 for HD15 3.0.x usage of this.
14	>	CONTAINS	INCLUDE	DTID (5013) Follicles Section	This section is used with concept modifier Laterality = Right. Refer to A.2.1.12 for HD15 3.0.x usage of this.
15	>	CONTAINS	CONTAINER	EV (121070, DCM, “Findings”)	This section (rows 15, 16, and 17) is used to include fetus vascular measurements. Refer to section A.2.1.13 for details. Measurements from DCID (12141), ‘Fetal Vasculature’ are used.
16	>>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, “Finding Site”)	EV (T-F6800, SRT, “Embryonic Vascular Structure”)
17	>>	CONTAINS	INCLUDE	DTID (5025) OB-GYN Fetal Vascular Measurement Group)	$AnatomyGroup = DCID (12141) Fetal Vasculature). Refer to section A.2.1.13 for details of TID 5025.
18	>	CONTAINS	CONTAINER	EV (121070, DCM, “Findings”)	This section (rows 18, 19, and 20) is used to include pelvic vascular measurements. Refer to section A.2.1.14 for details. Measurements from DCID (12140), ‘Fetal Vasculature’ are used.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
19	>>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, “Finding Site”)	EV (T-D6007, SRT, “Pelvic Vascular Structure”)
20	>>	CONTAINS	INCLUDE	DTID (5026) OB-GYN Pelvic Vascular Measurement Group)	$AnatomyGroup = DCID (12140) Pelvic Vasculature Anatomical Location. Refer to section A.2.1.14 for details of TID 5026.

A.2.1.1 OB-GYN Patient Characteristics (TID 5001)

Use of the template TID 5001 in the context of HD15 3.0.x is described in the following table.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	EV (121118, DCM, “Patient Characteristics”)	
2	>	CONTAINS	TEXT	EV (121106, DCM, “Comment”)	
3	>	CONTAINS	NUM	EV (8302-2, LN, “Patient Height”)	Value is taken from PDE (Patient Data Entry) screen or from the MWL.
4	>	CONTAINS	NUM	EV (29463-7, LN, “Patient Weight”)	Value is taken from PDE (Patient Data Entry) screen or from the MWL.
5	>	CONTAINS	NUM	EV (11996-6, LN, “Gravida”)	Value is taken from PDE (Patient Data Entry) screen.
6	>	CONTAINS	NUM	EV (11977-6, LN, “Para”)	Value is taken from PDE (Patient Data Entry) screen.
7	>	CONTAINS	NUM	EV (11612-9, LN, “Aborta”)	Value is taken from PDE (Patient Data Entry) screen.
8	>	CONTAINS	NUM	EV (33065-4, LN, “Ectopic Pregnancies”)	Value is taken from PDE (Patient Data Entry) screen.

A.2.1.2 OB-GYN Procedure Summary (TID 5002)

The following table describes the use of this template in the context of HD15 3.0.x.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT (121111, DCM, “Summary”)	

No	NL	REL WITH PARENT	VT	Concept Name	Comments
2	>	CONTAINS	DATE	(11955-2, LN, “LMP”)	Value is taken from PDE (Patient Data Entry) screen. -- Row 2, 3 and 4 are concepts from DCID 12003, “OB-GYN Dates”
3	>	CONTAINS	DATE	(11779-6, LN, “EDD from LMP”)	Value automatically calculated by the HD15 3.0.x system based on the value entered for LMP.
4	>	CONTAINS	DATE	(11781-2, LN, “EDD from average ultrasound age”)	Value automatically calculated by the HD15 3.0.x system based various measurements and on the LMP. If there is more than one fetus, the value used is the earliest calculated EDD amongst all fetuses.
5	>	CONTAINS	NUM	(11878-6, LN, “Number of Fetuses”)	Value is taken from PDE (Patient Data Entry) screen. -- This value is actually inserted as invocation of TID 300 (Measurement) with concept(s) from DCID 12001, “OB-GYN summary” passed as parameters.
6	>	TEXT	CONTAINS	EV (121106, DCM, “Comment”)	
7	>	CONTAINS	INCLUDE	“OB-GYN Fetus Summary” (BTID 5003)	Refer to section A.2.1.2.1 for details of HD15 3.0.x usage of this. This template is included 1 per fetus.

A.2.1.2.1 OB-GYN Fetus Summary (TID 5003)

HD15 3.0.x uses this template to insert measurements from DCID 12019. HD15 3.0.x uses a private extension to DCID 12019 to define a new Fetus Summary measurement concept for ‘Peak-to-Peak time interval over two beats’.

Following table shows the extension to Fetus Summary (CID 12019) used by HD15 3.0.x.

CSD	CV	CM
99PMSBLUS	C12019-01	Peak-to-Peak time interval over two beats

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT (125008, DCM, “Fetus Summary”)	
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1, LN, "Fetus ID”)	Value of “1”, “2”, “3” or “4” is used as identifier of the Fetus. -- This value is actually inserted as invocation of TID 1008 (Subject context - Fetus) -- This is present only if the study has more than one fetus.
3	>	CONTAINS	TEXT	EV (121106, DCM, “Comment”)	This field contains all observations, findings (only the Finding text value preceded by the Finding Group Name) and the comments entered in the reporting screen on the HD15 3.0.x. In case of multiple fetuses, these observations are associated with the selected Fetus ID. For the Anatomy Visualized finding, a string ‘Seen’ will be displayed against the anatomy if the check box against the particular anatomy is checked in the reporting screen. A string ‘Not Seen’ will be displayed against the anatomy if the check box against the particular anatomy is not checked in the reporting screen.
4	>	CONTAINS	NUM	(11888-5, LN, “Composite Ultrasound Age”)	This is a system-calculated value. This attribute is used to convey the “Average Ultrasound Age”. -- This value is inserted as invocation of TID 300 (Measurement) with concepts from DCID 12019
5	>	CONTAINS	NUM	(11885-1, LN, “Gestational Age by LMP”)	This is a system-calculated value. -- This value is inserted as invocation of TID 300 (Measurement) with concepts from DCID 12019
6	>	CONTAINS	NUM	(11727-5, LN, “Estimated Weight”)	This is a system-calculated value. -- This value is inserted as invocation of TID 300 (Measurement) with concepts from DCID 12019

No	NL	REL WITH PARENT	VT	Concept Name	Comments
7	>>	HAS CONCEPT MOD	CODE	Equation or Table using (121424, DCM, “Table of Values”)	Concepts from CID 12014, OB Body Fetal Weight Equations and Tables will be used. Refer to section A.2.1.16 for concepts used in HD15 3.0.x.
8	>	CONTAINS	NUM	(99PMSBLUS, C12019-01, “Peak-to-Peak time interval over two beats”)	This value is inserted as invocation of TID 300 (Measurement) with concepts from DCID 12019. This concept is an extension of DCID 12019.
9	>	CONTAINS	NUM	(LN, 11948-7, “Fetal Heart Rate”)	Exported as “xxx {H.B.}/min (UCUM, Beats Per Minute) where xxx = number of beats

A.2.1.3 Fetal Biometry Ratio Section (TID 5004)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT (125001, DCM, “Fetal Biometry Ratios”)	
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1,LN, "Fetus ID”)	Value of “1”, “2”, “3” or “4” is used as identifier of the Fetus. -- This value is actually inserted as invocation of TID 1008 (Subject context - Fetus) -- This value is present only if more than one fetus exists.
3	>	CONTAINS	NUM	Measurements from CID 12004 (Fetal Biometry Ratios) are included.	These biometry measurements are added as part of invocation of Measurement (TID 300) template.

A.2.1.3.1 Fetal Biometry Ratios (CID 12004)

HD15 3.0.x defines an extension of CID 12004 to include HrtC / TC ratio as part of this context group. Following table shows the concepts in CID 12004 (including the private extension for HD15 3.0.x) that are used in HD15 3.0.x.

CSD	CV	Code Meaning
LN	11947-9	HC/AC
LN	11871-1	FL/AC
LN	11872-9	FL/BPD

CSD	CV	Code Meaning
LN	11823-2	Cephalic Index
99PMSBLUS	C12004-01	HrtC/TC (Heart Circumference/Thoracic Circumference)

A.2.1.4 Fetal Biometry Section (TID 5005)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT (125002, DCM, ”Fetal Biometry”)	
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1,LN, "Fetus ID”)	Will be present if more than one fetus.
3	>	CONTAINS	INCLUDE	Biometry Group (DTID 5008)	Measurements from DCID 12005 are used as ‘Biometry type’ to invoke this template one or more number of times. Refer to section A.2.1.6.1 for details of Biometry Group template usage.

A.2.1.4.1 Fetal Biometry Measurements (CID 12005)

HD15 3.0.x defines a private extension to CID 12005 to include measurements available on HD15 3.0.x but not (yet) defined in this context group. The following table shows the measurements from CID 12005 (including HD15 3.0.x private extensions) that are used in HD15 3.0.x. All private extensions will use the coding scheme designator as 99PMSBLUS.

CSD	CV	Code Meaning
LN	11979-2	Abdominal Circumference
LN	11818-2	Anterior-Posterior Abdominal Diameter
LN	11819-0	Anterior-Posterior Trunk Diameter
LN	11820-8	Biparietal Diameter
LN	11965-1	Foot Length
LN	11984-2	Head Circumference
LN	11851-3	Occipital-Frontal Diameter
LN	11988-3	Thoracic Circumference
LN	11862-0	Transverse Abdominal Diameter
LN	11864-6	Transverse Thoracic Diameter
99PMSBLUS	C12005-01	Ear Length

CSD	CV	Code Meaning
99PMSBLUS	C12005-02	Fetal Trunk Cross Sectional Area
99PMSBLUS	C12005-03	Heart Circumference
99PMSBLUS	C12005-04	Length of Middle Phalanx of the Fifth Digit
99PMSBLUS	C12005-05	Renal Width
99PMSBLUS	C12005-06	Renal Length
99PMSBLUS	C12005-07	Anterior-Posterior Thoracic Diameter
99PMSBLUS	C12005-08	Transverse Trunk Diameter
99PMSBLUS	C12005-10	APTD*TTD

A.2.1.5 Fetal Long Bones Section (TID 5006)

Fetal Long Bones section is inserted in the SR Document in the same way as Fetal Biometry Section (Refer section A.2.1.4) using “DT (125003, DCM,” Fetal Long Bones”)”. $Biometry Type used to invoke the template TID 5008 is taken from the context group Fetal Long Bones Measurement (CID 12006). All the measurements in CID 12006 are available in HD15 3.0.x as described in the following table.

CSD	CV	Code Meaning
LN	11966-9	Humerus length
LN	11967-7	Radius length
LN	11969-3	Ulna length
LN	11968-5	Tibia length
LN	11964-4	Fibula length
LN	11962-8	Clavicle length
LN	11963-6	Femur Length

A.2.1.6 Fetal Cranium Section (TID 5007)

Fetal Cranium section is inserted in the SR Document in the same way as Fetal Biometry Section (Refer section A.2.1.4) using “DT (125004, DCM,” Fetal Cranium”)”. $Biometry Type used to invoke the template TID 5008 is taken from the context group Fetal Cranium (CID 12007).

HD15 3.0.x defines a private extension to CID 12007 to include cranial measurements available in HD15 3.0.x but not (yet) defined in CID 12007. The following table shows the measurements from CID 12007 (including HD15 3.0.x private extensions) that are used in HD15 3.0.x. All private extensions will use the coding scheme designator as 99PMSBLUS.

CSD	CV	Code Meaning
LN	12171-5	Lateral Ventricle width
LN	11860-4	Cisterna Magna Length
LN	12146-7	Nuchal Fold thickness

CSD	CV	Code Meaning
LN	33070-4	Inner Orbital Diameter
LN	11629-3	Outer Orbital Diameter
LN	11863-8	Trans Cerebellar Diameter
LN	33197-5	Anterior Horn Lateral ventricular width
LN	33196-7	Postierior Horn Lateral ventricular width
LN	12170-7	Width of Hemisphere
99PMSBLUS	C12007-01	Diameter of First Orbit
99PMSBLUS	C12007-02	Diameter of Second Orbit
99PMSBLUS	C12007-03	Ratio of Posterior Horn Lateral ventricular width/Hemisphere

A.2.1.6.1 Fetal Biometry Group (TID 5008)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT(125005, DCM, ”Biometry Group”)	
2	>	CONTAINS	NUM	Measurement of selected ‘Biometry Type’	This row and next two rows are inserted as part of TID 300 (Measurement) invocation. If multiple measurements are made of the same biometry type, these three rows will be repeated for each measurement instance.
3	>>	INFERRED FROM	IMAGE	Referenced Content Item Identifier	An ordered set of one or more integers that uniquely identify the Image in the ‘Image Library’ section of this SR document. This is the image from which the measurement is inferred. This item will not be present, if the measurement does not refer to any image.
4	>>	HAS CONCEPT MOD	CODE	EV (121401, DCM, “Derivation”)	If a user has performed more than one measurement then he / she can either use average (default) of these instances or he can specifically select one of the measured instances for using in calculations. If the selection is Average, then that average measurement instance will have a derivation modifier as (R-00317, SRT, “Mean”).
5	>>	HAS PROPERTIES	CODE	EV (121404, DCM, “Selection Status”)	This will have a value (121412, DCM, “Mean Value Chosen”) if the Derivation is ‘Mean’. In all other cases, this will have a value as (121410, DCM “User chosen value”).

No	NL	REL WITH PARENT	VT	Concept Name	Comments
6	>	CONTAINS	NUM	EV (18185-9, LN, ”Gestational Age”)	This will be present if user has selected the corresponding gestation age calculation. For example, if the biometry type is BPD and user has selected GA (BPD) as one of the calculations (from the analysis setup application), this row will be present. HD15 3.0.x system automatically calculates the GA based on standard (or user defined) equations and tables.
7	>>	INFERRED FROM	CODE	Equation or Table using (121424, DCM, “Table of Values”)	Concepts from CID 12013, Gestation age equations and tables will be used. Refer to section A.2.1.15 for concepts used in HD15 3.0.x.

A.2.1.7 Fetal Biophysical Profile Section (TID5009)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT (125006, DCM, ”Biophysical Profile”)	
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1, LN, "Fetus ID”)	Will be present if more than one fetus.
3	>	CONTAINS	NUM	EV (11631-9, LN, “Gross Body Movement”)	HD15 3.0.x uses the value as entered in the reporting screen.
4	>	CONTAINS	NUM	EV (11632-7, LN, “Fetal Breathing”)	HD15 3.0.x uses the value as entered in the reporting screen.
5	>	CONTAINS	NUM	EV (11635-0, LN, “Fetal Tone”)	HD15 3.0.x uses the value as entered in the reporting screen.
6	>	CONTAINS	NUM	EV (11630-1, LN, “Amniotic Fluid Volume”)	HD15 3.0.x uses the value as entered in the reporting screen.
7	>	CONTAINS	NUM	DT (11634-3, LN, “Biophysical Profile Sum Score”)	HD15 3.0.x automatically calculates the sum of all the scores.

A.2.1.8 Early Gestation Section (TID 5011)

Early Gestation section is inserted in the SR Document in the same way as Fetal Biometry Section (Refer section A.2.1.4) using “DT (125009, DCM,” Early Gestation”)”. $Biometry Type used to invoke the template TID 5008 is taken from the context group Early Gestation Biometry Measurements (CID 12009).

CSD	CV	Code Meaning
LN	11957-8	Crown Rump Length
LN	11850-5	Gestational Sac Diameter
LN	33071-2	Spine Length
LN	11816-6	Yolk Sac length
99PMSBLUS	C12009-05	Endomyometrial Mantle

A.2.1.9 Amniotic Sac Section (TID 5010)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT (121070, DCM, “Findings”)	
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, “Finding Site”)	DT (T-F1300, SRT, ”Amniotic Sac”)
3	>	CONTAINS	NUM	(11627-7, LN, “Amniotic Fluid Index”)	This is inserted as part of the invocation of template TID 300 (Measurement)
4	>	CONTAINS	NUM	(11624-4, LN, “First Quadrant Diameter”)	This is inserted as part of the invocation of template TID 300 (Measurement)
5	>	CONTAINS	NUM	(11626-9, LN, “Second Quadrant Diameter”)	This is inserted as part of the invocation of template TID 300 (Measurement)
6	>	CONTAINS	NUM	(11625-1, LN, “Third Quadrant Diameter”)	This is inserted as part of the invocation of template TID 300 (Measurement)
7	>	CONTAINS	NUM	(11623-6, LN, “Fourth Quadrant Diameter”)	This is inserted as part of the invocation of template TID 300 (Measurement)
8	>>	HAS CONCEPT MOD	CODE	EV (121401, DCM, “Derivation”)	This will have a value ‘Mean’ IFF average measurement instance is used in calculations.
9	>>	HAS PROPERTIES	CODE	EV (121404, DCM, “Selection Status”)	This will have a value ‘Mean Value Chosen’ if the Derivation is ‘Mean’. In all other cases, this will have a value, ‘User Chosen Value’.
10	>>	INFERRED FROM	IMAGE	Referenced Content Item Identifier	Refers to the image on which this measurement was done.

A.2.1.10 Pelvis and Uterus Section (TID 5015)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT (125011, DCM, “Pelvis and Uterus”)	
2	>	CONTAINS	CONTAINER	EV (T-83000, SRT, “Uterus”)	DTID 5016 (LWH Volume Group) is included. Uterus volume, length and width measurements are inserted. Group Name is ‘Uterus’
3	>>	CONTAINS	NUM	(33192-6, LN, “Uterus Volume”)	This row is inserted as part of TID 300 (Measurement) invocation. HD15 3.0.x automatically calculates the volume based on L, W and H measurements.
4	>>	CONTAINS	NUM	(11842-2, LN, “Uterus Length”)	This row is inserted as part of TID 300 (Measurement) invocation. -- Similar to rows 4, 5 and 6, the concepts for Uterus Height and Uterus Width are added too. These concepts are: (11859-6, LN, “Uterus Height”) and (11865-3,LN, “ Uterus Width”)
5	>>>	HAS CONCEPT MOD	CODE	EV (121401, DCM, “Derivation”)	This will have a value ‘Mean’ IFF the average measurement instance is used in calculations.
6	>>>	HAS PROPERTIES	CODE	EV (121404, DCM, “Selection Status”)	This will have a value (121412, DCM, “Mean Value Chosen”) if the Derivation is ‘Mean’. In all other cases, this will have a value as (121410, DCM “User chosen value”).
7	>>>	INFERRED FROM	IMAGE	Referenced Content Item Identifier	Refers to the image on which this measurement was done.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
8	>	CONTAINS	NUM	(11961-0, LN, “Cervix Length”)	This measurement is from CID 12011, “Ultrasound Pelvic and Uterus”. This is inserted as part of invocation of TID 300 (Measurement). Similar to other measurements, the concept modifier for ‘Derivation’, Selection Status and ‘Referenced Content Item’ would be present for this measurement. Note:- Only Cervix Length and Endometrium Thickness from CID 12011 will be present in rows 7 and 8. All bladder related measurements from CID 12011 will be present under the group ‘Bladder’ as shown in the rows from 9.
9	>	CONTAINS	NUM	(12145-9, LN, “Endometrium Thickness”)	This measurement is from CID 12011, “Ultrasound Pelvic and Uterus”.
10	>	CONTAINS	CONTAINER	EV (T-74000, SRT, “Bladder”)	DTID 5016 (LWH Volume Group) is included. Bladder volume, length and width measurements are inserted. Group Name is ‘Bladder’
11	>>	CONTAINS	NUM	(C12011-04, 99PMSBLUS, “Bladder Volume”)	This row is inserted as part of TID 300 (Measurement) invocation. HD15 3.0.x automatically calculates the volume based on L, W and H measurements.
12	>>	CONTAINS	NUM	(C12011-01, 99PMSBLUS, “Bladder Length”)	This row is inserted as part of TID 300 (Measurement) invocation. -- Similar to rows 11, 12 and 13, the concepts for Bladder Width and Bladder Height are added too. These concepts are: (C12011-02, 99PMSBLUS, “Bladder Width”) and (C12011-03, 99PMSBLUS, “Bladder Height”)
13	>>>	HAS CONCEPT MOD	CODE	EV (121401, DCM, “Derivation”)	This will have a value ‘Mean’ IFF the average measurement instance is used in calculations.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
14	>>>	HAS PROPERTIES	CODE	EV (121404, DCM, “Selection Status”)	This will have a value (121412, DCM, “Mean Value Chosen”) if the Derivation is ‘Mean’. In all other cases, this will have a value as (121410, DCM “User chosen value”).
15	>>>	INFERRED FROM	IMAGE	Referenced Content Item Identifier	Refers to the image on which this measurement was done.
16	>	CONTAINS	CONTAINER	EV (T-74000, SRT, “Bladder”)	DTID 5016 (LWH Volume Group) is included. Post Void Bladder volume, length and width measurements are inserted. Group Name is ‘Bladder’
17	>>	CONTAINS	NUM	(C12011-08, 99PMSBLUS, “Post Void Bladder Volume”)	This row is inserted as part of TID 300 (Measurement) invocation. HD15 3.0.x automatically calculates the volume based on L, W and H measurements.
18	>>	CONTAINS	NUM	(C12011-05, 99PMSBLUS, “Post Void Bladder Length”)	This row is inserted as part of TID 300 (Measurement) invocation. -- Similar to rows 16, 17 and 18, the concepts for Post Void Bladder Width and Post Void Bladder Height are added too. These concepts are: (C12011-06, 99PMSBLUS, “Post Void Bladder Width”) and (C12011-07, 99PMSBLUS, “Post Void Bladder Height”)
19	>>>	HAS CONCEPT MOD	CODE	EV (121401, DCM, “Derivation”)	This will have a value ‘Mean’ IFF the average measurement instance is used in calculations.
20	>>>	HAS PROPERTIES	CODE	EV (121404, DCM, “Selection Status”)	This will have a value (121412, DCM, “Mean Value Chosen”) if the Derivation is ‘Mean’. In all other cases, this will have a value as (121410, DCM “User chosen value”).
21	>>>	INFERRED FROM	IMAGE	Referenced Content Item Identifier	Refers to the image on which this measurement was done.

A.2.1.10.1 CID 12011 Ultrasound Pelvis And Uterus

HD15 3.0.x uses a private extension to CID 12011 to define new concepts for Bladder related measurements. Following table shows the details.

CSD	CV	CM
LN	11961-0	Cervix Length
LN	12145-9	Endometrium Thickness
99PMSBLUS	C12011-01	Bladder Length
99PMSBLUS	C12011-02	Bladder Width
99PMSBLUS	C12011-03	Bladder Height
99PMSBLUS	C12011-04	Bladder Volume
99PMSBLUS	C12011-05	Post Void Bladder Length
99PMSBLUS	C12011-06	Post Void Bladder Width
99PMSBLUS	C12011-07	Post Void Bladder Height
99PMSBLUS	C12011-08	Post Void Bladder Volume

A.2.1.11 Ovaries Section (TID 5012)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT (121070, DCM, “Findings”)	
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, “Finding Site”)	DT (T-87000, SRT, ”Ovary”)
3	>	CONTAINS	CONTAINER	EV (T-87000, SRT, ”Ovary”)	DTID 5016 (LWH Volume Group) is included. Left ovary volume, length and width measurements are inserted. Group name is ‘Ovary’.
4	>>	CONTAINS	NUM	EV (12164-0, LN, ”Left Ovary Volume”)	This row is inserted as part of TID 300 (Measurement) invocation. HD15 3.0.x automatically calculates the volume based on L, W and H measurements.
5	>>	CONTAINS	NUM	EV (11840-6, LN, ”Left Ovary Length”)	This row is inserted as part of TID 300 (Measurement) invocation. -- Similar to rows 5, 6 and 7, the concepts for Ovary Height and Ovary Width are added too. These concepts are: EV (11857-0, LN, ”Left Ovary Height”) and EV (11829-9,LN, ”Left Ovary Width”)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
6	>>>	HAS CONCEPT MOD	CODE	EV (121401, DCM, “Derivation”)	This will have a value “Mean” IFF the average measurement instance is used in calculations.
7	>>>	HAS PROPERTIES	CODE	EV (121404, DCM, “Selection Status”)	This will have a value (121412, DCM, “Mean Value Chosen”) if the Derivation is ‘Mean’. In all other cases, this will have a value as (121410, DCM “User chosen value”).
8	>>>	INFERRED FROM	IMAGE	Referenced Content Item Identifier	Refers to the image on which this measurement was done.
					Similarly DTID 5016 (LWH Volume Group) is included for Right ovary volume, length and width measurements. The related concepts codes are – $GroupName = EV (T-87000, SRT, ”Ovary”) $Width = EV (11830-7, LN, ”Right Ovary Width”) $Length = EV (11841-4, LN, ”Right Ovary Length”) $Height = EV (11858-8, LN, ”Right Ovary Height”) $Volume= EV (12165-7, LN, ”Right Ovary Volume”)

A.2.1.12 Follicles Section (TID 5013)

SR Document may contain two instances of the Follicles section. First instance is included for left ovarian follicles and the second instance is included for right ovarian follicle. Laterality concept modifier will be used accordingly. Measurements for up to 16 follicles may be included in this section.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT (121070, DCM, “Findings”)	
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, “Finding Site”)	DT (T-87600, SRT, “Ovarian Follicle”)
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, “Laterality”)	EV (G-A101, SRT, “Left”) OR EV (G-A100, SRT, “Right”)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
4	>	CONTAINS	NUM	EV (11879-4, LN, “Number of follicles in left ovary”) OR EV (11880-2, LN, “Number of follicles in right ovary”)	Number of follicles in the ovary.
5	>	CONTAINS	CONTAINER	EV (125007, DCM, “Measurement Group”)	Template TID 5014 (Follicle Measurement Group) is included.
6	>>	HAS OBS CONTEXT	TEXT	EV (12510, DCM, “Identifier”)	HD15 3.0.x uses numbers “1”, “2”, “3”…up to “16” to identify the follicle. -- Row 6, 7 and 8 are added per follicle measurement.
7	>>	CONTAINS	NUM	EV (G-D705, SRT, “Volume”)	This is inserted as part of TID 300 invocation. HD15 3.0.x automatically calculates the volume based on the follicle diameter.
8	>>	CONTAINS	NUM	(11793-7, LN, “Follicle diameter”)	This is inserted as part of TID 300 invocation.

A.2.1.13 OB-GYN Fetus Vascular Ultrasound Measurement Group (TID 5025)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	EV (T-F6800, SRT, “Embryonic Vascular Structure”)	
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1, LN, "Fetus ID”)	Will be present if more than one fetus.
3	>	CONTAINS	NUM	Measurement of selected fetal vascular anatomic location.	Measurement types from CID 12119 (Vascular Ultrasound Property) and CID 12121 (Vascular Indices and Ratios) for the anatomical locations specified in CID 12141 (Fetal Vasculature Anatomic Locations) are used.

A.2.1.13.1 Fetal Vascular Measurements

HD15 3.0.x uses a private extension to CID 12141 to define a new fetal vascular anatomical location for ‘Ductus Venosus’. Also, the anatomical locations ‘Umbilical Artery’ and ‘Uterine Artery’ defined in CID 12140 (‘Pelvic Vasculature Anatomic Location’) have been included in CID 12141 as HD15 3.0.x considers this as Fetal measurement rather than Pelvic measurement.

The following table shows the extension to Fetal Vasculature Anatomical Locations (CID 12141) used by HD15 3.0.x.

CSD	CV	CM
99PMSBLUS	C12141-01	Ductus Venosus
SRT	T-F1810	Umbilical Artery
SRT	T-46820	Uterine Artery*

* Uterine Artery for Fetal Vascular includes $LATERALITY=(G-A101, SRT, “Left”); (G-A100, SRT, “Right”)

The following table shows the fetal vascular measurements (and calculations) used in HD15 3.0.x as part of TID 5025.

Fetal Vascular Measurements

Measurement	Measurement Type from CID 12119 and it’s includes.	Vascular Anatomic Location from CID 12141
Diastolic Velocity (Ductus Venosus)	(LN, 11653-3, End Diastolic Velocity)	(99PMSBLUS, C12141-01, Ductus Venosus)
Systolic Velocity (Ductus Venosus)	(LN, 11726-7, Peak Systolic Velocity)	(99PMSBLUS, C12141-01, Ductus Venosus)
Minimum Diastolic Velocity (Ductus Venosus)	(LN, 11665-7, Minimum Diastolic Velocity)	(99PMSBLUS, C12141-01, Ductus Venosus)
Time Averaged Peak Velocity (Ductus Venosus)	(LN, 11692-1, Time Averaged Peak Velocity)	(99PMSBLUS, C12141-01, Ductus Venosus)
Time Averaged Mean Velocity[1] (Ductus Venosus)	(LN, 20352-1, Time Averaged Mean Velocity)	(99PMSBLUS, C12141-01, Ductus Venosus)
Acceleration Index (Ductus Venosus)	(LN, 20167-3, Acceleration Index)	(99PMSBLUS, C12141-01, Ductus Venosus)
Acceleration Time (Ductus Venosus)	(LN, 20168-1, Acceleration Time)	(99PMSBLUS, C12141-01, Ductus Venosus)
Velocity Time Integral (Ductus Venosus)	(LN, 20354-7, Velocity Time Integral)	(99PMSBLUS, C12141-01, Ductus Venosus)
Pulsatility Index (Ductus Venosus)	(LN, 12008-9, Pulsatility Index)	(99PMSBLUS, C12141-01, Ductus Venosus)
Resistivity Index (Ductus Venosus)	(LN, 12023-8, Resistivity Index)	(99PMSBLUS, C12141-01, Ductus Venosus)
Systolic to Diastolic Ratio (Ductus Venosus)	(LN, 12144-2, Systolic to Diastolic Velocity Ratio)	(99PMSBLUS, C12141-01, Ductus Venosus)
Diastolic to Systolic Velocity Ratio (Ductus Venosus)	(99PMSBLUS, C12121-01, Diastolic to Systolic Velocity Ratio)	(99PMSBLUS, C12141-01, Ductus Venosus)
Diastolic Velocity (Umbilical Artery)	(LN, 11653-3, End Diastolic Velocity)	(SRT, T-F1810, Umbilical Artery)
Systolic Velocity (Umbilical Artery)	(LN, 11726-7, Peak Systolic Velocity)	(SRT, T-F1810, Umbilical Artery)

Measurement	Measurement Type from CID 12119 and it's includes.	Vascular Anatomic Location from CID 12141
Minimum Diastolic Velocity (Umbilical Artery)	(LN, 11665-7, Minimum Diastolic Velocity)	(SRT, T-F1810, Umbilical Artery)
Time Averaged Peak Velocity (Umbilical Artery)	(LN, 11692-1, Time Averaged Peak Velocity)	(SRT, T-F1810, Umbilical Artery)
Time Averaged Mean Velocity[1] (Umbilical Artery)	(LN, 20352-1, Time Averaged Mean Velocity)	(SRT, T-F1810, Umbilical Artery)
Acceleration Index (Umbilical Artery)	(LN, 20167-3, Acceleration Index)	(SRT, T-F1810, Umbilical Artery)
Acceleration Time (Umbilical Artery)	(LN, 20168-1, Acceleration Time)	(SRT, T-F1810, Umbilical Artery)
Velocity Time Integral (Umbilical Artery)	(LN, 20354-7, Velocity Time Integral)	(SRT, T-F1810, Umbilical Artery)
Pulsatility Index (Umbilical Artery)	(LN, 12008-9, Pulsatility Index)	(SRT, T-F1810, Umbilical Artery)
Resistivity Index (Umbilical Artery)	(LN, 12023-8, Resistivity Index)	(SRT, T-F1810, Umbilical Artery)
Systolic to Diastolic Ratio (Umbilical Artery)	(LN, 12144-2, Systolic to Diastolic Velocity Ratio)	(SRT, T-F1810, Umbilical Artery)
Diastolic to Systolic Velocity Ratio (Umbilical Artery)	(99PMSBLUS, C12121-01, Diastolic to Systolic Velocity Ratio)	(SRT, T-F1810, Umbilical Artery)
Diastolic Velocity (Middle Cerebral Artery)	(LN, 11653-3, End Diastolic Velocity)	(SRT, T-45600, Middle Cerebral Artery)
Systolic Velocity (Middle Cerebral Artery)	(LN, 11726-7, Peak Systolic Velocity)	(SRT, T-45600, Middle Cerebral Artery)
Minimum Diastolic Velocity (Middle Cerebral Artery)	(LN, 11665-7, Minimum Diastolic Velocity)	(SRT, T-45600, Middle Cerebral Artery)
Time Averaged Peak Velocity (Middle Cerebral Artery)	(LN, 11692-1, Time Averaged Peak Velocity)	(SRT, T-45600, Middle Cerebral Artery)
Time Averaged Mean Velocity[1] (Middle Cerebral Artery)	(LN, 20352-1, Time Averaged Mean Velocity)	(SRT, T-45600, Middle Cerebral Artery)
Acceleration Index (Middle Cerebral Artery)	(LN, 20167-3, Acceleration Index)	(SRT, T-45600, Middle Cerebral Artery)
Acceleration Time (Middle Cerebral Artery)	(LN, 20168-1, Acceleration Time)	(SRT, T-45600, Middle Cerebral Artery)
Velocity Time Integral (Middle Cerebral Artery)	(LN, 20354-7, Velocity Time Integral)	(SRT, T-45600, Middle Cerebral Artery)
Pulsatility Index (Middle Cerebral Artery)	(LN, 12008-9, Pulsatility Index)	(SRT, T-45600, Middle Cerebral Artery)
Resistivity Index (Middle Cerebral Artery)	(LN, 12023-8, Resistivity Index)	(SRT, T-45600, Middle Cerebral Artery)

Measurement	Measurement Type from CID 12119 and it's includes.	Vascular Anatomic Location from CID 12141
Systolic to Diastolic Ratio (Middle Cerebral Artery)	(LN, 12144-2, Systolic to Diastolic Velocity Ratio)	(SRT, T-45600, Middle Cerebral Artery)
Diastolic to Systolic Velocity Ratio (Middle Cerebral Artery)	(99PMSBLUS, C12121-01, Diastolic to Systolic Velocity Ratio)	(SRT, T-45600, Middle Cerebral Artery)
Diastolic Velocity (Left Uterine Artery)	(LN, 11653-3, End Diastolic Velocity)	(SRT, T-46820, Uterine Artery) $Laterality= Left
Systolic Velocity (Left Uterine Artery)	(LN, 11726-7, Peak Systolic Velocity)	(SRT, T-46820, Uterine Artery) $Laterality= Left
Minimum Diastolic Velocity (Left Uterine Artery)	(LN, 11665-7, Minimum Diastolic Velocity)	(SRT, T-46820, Uterine Artery) $Laterality= Left
Time Averaged Peak Velocity (Left Uterine Artery)	(LN, 11692-1, Time Averaged Peak Velocity)	(SRT, T-46820, Uterine Artery) $Laterality= Left
Pulsatility Index (Left Uterine Artery)	(LN, 12008-9, Pulsatility Index)	(SRT, T-46820, Uterine Artery) $Laterality= Left
Resistivity Index (Left Uterine Artery)	(LN, 12023-8, Resistivity Index)	(SRT, T-46820, Uterine Artery) $Laterality= Left
Systolic to Diastolic Ratio (Left Uterine Artery)	(LN, 12144-2, Systolic to Diastolic Velocity Ratio)	(SRT, T-46820, Uterine Artery) $Laterality= Left
Diastolic Velocity (Right Uterine Artery)	(LN, 11653-3, End Diastolic Velocity)	(SRT, T-46820, Uterine Artery) $Laterality= Right
Systolic Velocity (Right Uterine Artery)	(LN, 11726-7, Peak Systolic Velocity)	(SRT, T-46820, Uterine Artery) $Laterality= Right
Minimum Diastolic Velocity (Right Uterine Artery)	(LN, 11665-7, Minimum Diastolic Velocity)	(SRT, T-46820, Uterine Artery) $Laterality= Right
Time Averaged Peak Velocity (Right Uterine Artery)	(LN, 11692-1, Time Averaged Peak Velocity)	(SRT, T-46820, Uterine Artery) $Laterality= Right
Pulsatility Index (Right Uterine Artery)	(LN, 12008-9, Pulsatility Index)	(SRT, T-46820, Uterine Artery) $Laterality= Right
Resistivity Index (Right Uterine Artery)	(LN, 12023-8, Resistivity Index)	(SRT, T-46820, Uterine Artery) $Laterality= Right
Systolic to Diastolic Ratio (Right Uterine Artery)	(LN, 12144-2, Systolic to Diastolic Velocity Ratio)	(SRT, T-46820, Uterine Artery) $Laterality= Right

A.2.1.14 OB-GYN Pelvic Vascular Ultrasound Measurement Group (TID 5026)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	EV (T-D6007, SRT, "Pelvic Vascular Structure")	
2	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT "Laterality")	Laterality is used only if the measurement needs to be qualified with the laterality of the anatomy.
3	>	CONTAINS	NUM	Measurement of selected pelvic vascular anatomic location.	Measurement types from CID 12119 (Vascular Ultrasound Property) and CID 12121 (Vascular Indices and Ratios) for the anatomical locations specified in CID 12140 (Pelvic Vasculature Anatomic Locations) are used.

A.2.1.14.1 Pelvic Vascular Measurements

The following table shows the pelvic vascular measurements (and calculations) used in HD15 3.0.x as part of TID 5026.

Measurement	Measurement Type from CID 12119 and it's includes.	Vascular Anatomic Location from CID 12140
Diastolic Velocity (Left Ovarian Artery)	(LN, 11653-3, End Diastolic Velocity)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Systolic Velocity (Left Ovarian Artery)	(LN, 11726-7, Peak Systolic Velocity)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Minimum Diastolic Velocity (Left Ovarian Artery)	(LN, 11665-7, Minimum Diastolic Velocity)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Time Averaged Peak Velocity (Left Ovarian Artery)	(LN, 11692-1, Time Averaged Peak Velocity)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Time Averaged Mean Velocity[1] (Left Ovarian Artery)	(LN, 20352-1, Time Averaged Mean Velocity)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Acceleration Index (Left Ovarian Artery)	(LN, 20167-3, Acceleration Index)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Acceleration Time (Left Ovarian Artery)	(LN, 20168-1, Acceleration Time)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Velocity Time Integral (Left Ovarian Artery)	(LN, 20354-7, Velocity Time Integral)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Pulsatility Index (Left Ovarian Artery)	(LN, 12008-9, Pulsatility Index)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Resistivity Index (Left Ovarian Artery)	(LN, 12023-8, Resistivity Index)	(SRT, T-46980, Ovarian Artery) $Laterality = Left

Measurement	Measurement Type from CID 12119 and it's includes.	Vascular Anatomic Location from CID 12140
Systolic to Diastolic Ratio (Left Ovarian Artery)	(LN, 12144-2, Systolic to Diastolic Velocity Ratio)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Diastolic to Systolic Ratio (Left Ovarian Artery)	(99PMSBLUS, C12121-01, Diastolic to Systolic Velocity Ratio)	(SRT, T-46980, Ovarian Artery) $Laterality = Left
Diastolic Velocity (Right Ovarian Artery)	(LN, 11653-3, End Diastolic Velocity)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Systolic Velocity (Right Ovarian Artery)	(LN, 11726-7, Peak Systolic Velocity)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Minimum Diastolic Velocity (Right Ovarian Artery)	(LN, 11665-7, Minimum Diastolic Velocity)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Time Averaged Peak Velocity (Right Ovarian Artery)	(LN, 11692-1, Time Averaged Peak Velocity)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Time Averaged Mean Velocity[1] (Right Ovarian Artery)	(LN, 20352-1, Time Averaged Mean Velocity)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Acceleration Index (Right Ovarian Artery)	(LN, 20167-3, Acceleration Index)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Acceleration Time (Right Ovarian Artery)	(LN, 20168-1, Acceleration Time)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Velocity Time Integral (Right Ovarian Artery)	(LN, 20354-7, Velocity Time Integral)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Pulsatility Index (Right Ovarian Artery)	(LN, 12008-9, Pulsatility Index)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Resistivity Index (Right Ovarian Artery)	(LN, 12023-8, Resistivity Index)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Systolic to Diastolic Ratio (Right Ovarian Artery)	(LN, 12144-2, Systolic to Diastolic Velocity Ratio)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Diastolic to Systolic Ratio (Right Ovarian Artery)	(99PMSBLUS, C12121-01, Diastolic to Systolic Velocity Ratio)	(SRT, T-46980, Ovarian Artery) $Laterality = Right
Diastolic Velocity (Uterine Artery)	(LN, 11653-3, End Diastolic Velocity)	(SRT, T-46820, Uterine Artery)
Systolic Velocity (Uterine Artery)	(LN, 11726-7, Peak Systolic Velocity)	(SRT, T-46820, Uterine Artery)
Minimum Diastolic Velocity (Uterine Artery)	(LN, 11665-7, Minimum Diastolic Velocity)	(SRT, T-46820, Uterine Artery)
Time Averaged Peak Velocity (Uterine Artery)	(LN, 11692-1, Time Averaged Peak Velocity)	(SRT, T-46820, Uterine Artery)
Time Averaged Mean Velocity[1] (Uterine Artery)	(LN, 20352-1, Time Averaged Mean Velocity)	(SRT, T-46820, Uterine Artery)
Acceleration Index (Uterine Artery)	(LN, 20167-3, Acceleration Index)	(SRT, T-46820, Uterine Artery)

Measurement	Measurement Type from CID 12119 and it's includes.	Vascular Anatomic Location from CID 12140
Acceleration Time (Uterine Artery)	(LN, 20168-1, Acceleration Time)	(SRT, T-46820, Uterine Artery)
Velocity Time Integral (Uterine Artery)	(LN, 20354-7, Velocity Time Integral)	(SRT, T-46820, Uterine Artery)
Pulsatility Index (Uterine Artery)	(LN, 12008-9, Pulsatility Index)	(SRT, T-46820, Uterine Artery)
Resistivity Index (Uterine Artery)	(LN, 12023-8, Resistivity Index)	(SRT, T-46820, Uterine Artery)
Systolic to Diastolic Ratio (Uterine Artery)	(LN, 12144-2, Systolic to Diastolic Velocity Ratio)	(SRT, T-46820, Uterine Artery)
Diastolic to Systolic Ratio (Uterine Artery)	(99PMSBLUS, C12121-01, Diastolic to Systolic Velocity Ratio)	(SRT, T-46820, Uterine Artery)

A.2.1.15 Gestation Age Equations & Tables (CID 12013)

The following are the Gestation Age Equations and Tables supported by HD15 3.0.x:

CSD	CV	Code Meaning
LN	11885-1	Gestational Age by LMP
LN	11892-7	AC, Hadlock 1984
99PMSBLUS	C12013-30	AC, Hansmann 1986
LN	33076-1	AC, Shinozuka 1996
99PMSBLUS	C12013-01	AC, ASUM 2001
99PMSBLUS	C12013-02	BPD, ASUM 2001
LN	33086-0	BPD-oi, Chitty 1997
LN	33087-8	BPD-oo, Chitty 1997
LN	11902-4	BPD, Hadlock 1984
LN	33538-0	BPD, Hansmann 1986
LN	11905-7	BPD, Jeanty 1984
99PMSBLUS	C12013-31	BPD, Osaka 1988
LN	33084-5	BPD, Shinozuka 1996
99PMSBLUS	C12013-26	BPD, Tokyo 1989
LN	33088-6	Clavical length,Yarkoni 1985
99PMSBLUS	C12013-05	CRL, ASUM 2001
LN	33540-6	CRL, Hansmann 1986
LN	11910-7	CRL, Hadlock 1992
LN	11917-2	CRL, Jeanty 1984
99PMSBLUS	C12013-32	CRL, Osaka 1988

CSD	CV	Code Meaning
LN	33094-4	CRL, Rempen 1991
LN	11914-9	CRL, Robinson 1975
LN	33095-1	CRL, Shinozuka 1996
99PMSBLUS	C12013-27	CRL, Tokyo 1989
99PMSBLUS	C12013-06	FL, ASUM 2001
LN	33098-5	FL, Chitty 1997
LN	11920-6	FL, Hadlock 1984
LN	33541-4	FL, Hansmann 1986
LN	11923-0	FL, Jeanty 1984
99PMSBLUS	C12013-24	FL, Merz 1991
99PMSBLUS	C12013-33	FL, Osaka 1988
LN	33102-5	FL, Shinozuka 1996
99PMSBLUS	C12013-28	FL, Tokyo 1989
LN	33106-6	GS, Hansmann 1982
LN	11928-9	GS, Hellman 1969
LN	11929-7	GS, Rempen 1991
99PMSBLUS	C12013-29	GS, Tokyo 1989
LN	33107-4	GS, Nyberg 1992
99PMSBLUS	C12013-07	HC, ASUM 2001
LN	33110-8	HC measured, Chitty 1997
LN	33111-6	HC derived, Chitty 1997
LN	11932-1	HC, Hadlock 1984
LN	33543-0	HC, Hansmann 1986
99PMSBLUS	C12013-25	HC Merz, 1991
99PMSBLUS	C12013-09	Humerus, ASUM 2001
99PMSBLUS	C12013-34	Humerus Length, Osaka 1988
LN	11936-2	Humerus, Jeanty 1984
99PMSBLUS	C12013-11	OFD, ASUM 2001
LN	33120-7	OFD, Hansmann 1986
99PMSBLUS	C12013-12	OOD, Jeanty 1984
LN	33127-2	Spine Length, Tokyo, 1989
99PMSBLUS	C12013-41	TAD, Hansmann 1986
LN	11941-2	Tibia, Jeanty 1984
99PMSBLUS	C12013-15	TCD, Chitty 1997

CSD	CV	Code Meaning
LN	33134-8	TCD, Hill 1990
99PMSBLUS	C12013-35	Fetal Trunk Cross Sectional Area, Osaka 1988
LN	11944-6	Ulna, Jeanty 1984
99PMSBLUS	C12013-16	AC Merz 1991
99PMSBLUS	C12013-17	BPD Merz 1991
99PMSBLUS	C12013-18	Transverse Trunk Diameter Hansmann 1986
99PMSBLUS	C12013-19	CRL Robinson Fleming 1975
LN	33078-7	AxT, Shinozuka 1996
99PMSBLUS	C12013-22	CRL JSUM 2001
99PMSBLUS	C12013-23	TC Nimrod 1986

A.2.1.15.1 Gestational Age Equations and Tables Not Exported in DICOM SR

The following labels, equations or authors are not exported in Structured Reports for OB.

Label
GA (EFW) Shinozuka

A.2.1.16 OB Fetal Body Weight Equations & Tables

CSD	CV	Code Meaning
LN	11756-4	EFW by AC, Campbell 1975
LN	11738-2	EFW by AC, BPD, Hadlock 1984
LN	11735-8	EFW by AC, BPD, FL, Hadlock 1985
LN	11732-5	EFW by AC, BPD, FL, HC, Hadlock 1985
LN	11751-5	EFW by AC, FL, Hadlock 1985
LN	11746-5	EFW by AC, FL, HC, Hadlock 1985
LN	11739-0	EFW by AC and BPD, Shepard 1982
LN	33140-5	EFW by BPD, FTA, FL, Osaka 1990
99PMSBLUS	C12014-02	EFW by BPD, APAD, TAD, FL, Tokyo 1986
LN	33143-9	EFW3 by Shinozuka 1996
99PMSBLUS	C12014-01	EFW by AC, BPD and FL Shinozuka 2000

A.3 VASCULAR ULTRASOUND STRUCTURED REPORT TEMPLATE

HD15 3.0.x implements the Vascular Ultrasound Structured Report Template (TID 5100) from the DICOM standard, part 16. This appendix describes the scope and manner that HD15 3.0.x measurements appear in DICOM SR.

Measurements and calculations performed for vascular studies will lead to creation of "Vascular Ultrsasound Procedure Report" structured report documents. Measurements can be performed by pressing the 'Calc' key on HD15 3.0.x control panel and selecting the Vascular analysis package. Additional measurements may be made in the Abdominal and TCD analysis packages. Measurements and calculations available in the menu can be configured through the setup application. It is also possible to configure the measurement unit (Metric or U.S).

All concepts with value type (VT) NUM will always have a 'MeasurementUnitCodeSequence' that specifies the unit of the measurement. The CSD for all units will be UCUM (Unified Code for Units) and CV and CM will be based on application configuration and will confirm to UCUM standards.

A.3.1 Template specific conformance for TID 5100

The template for the root of the content tree for TID 5100 and its use in the HD15 3.0.x context is described in the following table.

Note: Only the rows that apply to use by HD15 3.0.x are included.

A.3.2 TID 5100 Vascular Ultrasound Report

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

No	NL	Rel with Parent	VT	Concept Name	Comments
1			CONTAINER	EV (125100, DCM, "Vascular Ultrasound Procedure Report")	This is the root 'CONTAINER'
2	>	CONTAINS	INCLUDE	DTID (5101) Vascular Patient Characteristics	See Section A.3.2 for the description of this.
3	>	CONTAINS	INCLUDE	DTID (5102) Vascular Procedure Summary Section	See Section A.3.3 for the description of this.
4	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-40501, SRT, "Blood Vessel of Head") $SectionLaterality = EV (G-A101, SRT, "Left") $Anatomy = DCID (12105) Intracranial Cerebral Vessels
5	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-40501, SRT, "Blood Vessel of Head") $SectionLaterality = EV (G-A100, SRT, "Right") $Anatomy = DCID (12105) Intracranial Cerebral Vessels
6	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-40501, SRT, "Blood Vessel of Head") $SectionLaterality = EV (G-A103, SRT, "Unilateral") $Anatomy = DCID (12106) Intracranial Cerebral Vessels (unilateral)
7	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-45005, SRT, "Artery of neck") $SectionLaterality = EV (G-A101, SRT, "Left")

No	NL	Rel with Parent	VT	Concept Name	Comments
					$Anatomy = DCID (12104) Extracranial Arteries $AnatomyRatio = DCID (12123) Carotid Ratios
8	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-45005, SRT, ”Artery of neck”) $SectionLaterality = EV (G-A100, SRT, ”Right”) $Anatomy = DCID (12104) Extracranial Arteries $AnatomyRatio = DCID (12123) Carotid Ratios
9	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-47040, SRT, ”Artery of Lower Extremity”) $SectionLaterality = EV (G-A101, SRT, ”Left”) $Anatomy = DCID (12109) Lower Extremity Arteries
10	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-47040, SRT, ”Artery of Lower Extremity”) $SectionLaterality = EV (G-A100, SRT, ”Right”) $Anatomy = DCID (12109) Lower Extremity Arteries
11	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-49403, SRT, ”Vein of Lower Extremity”) $SectionLaterality = EV (G-A101, SRT, ”Left”) $Anatomy = DCID (12110) Lower Extremity Veins
12	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-49403, SRT, ”Vein of Lower Extremity”) $SectionLaterality = EV (G-A100, SRT, ”Right”) $Anatomy = DCID (12110) Lower Extremity Veins
13	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-47020, SRT, ”Artery Of Upper Extremity”) $SectionLaterality = EV (G-A101, SRT, ”Left”) $Anatomy = DCID (12107) Upper Extremity Arteries
14	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-47020, SRT, ”Artery Of Upper Extremity”) $SectionLaterality = EV (G-A100, SRT, ”Right”) $Anatomy = DCID (12107) Upper Extremity Arteries
15	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-49103, SRT, ”Vein Of Upper Extremity”) $SectionLaterality = EV (G-A101, SRT, ”Left”) $Anatomy = DCID (12108) Upper Extremity

No	NL	Rel with Parent	VT	Concept Name	Comments
					Veins
16	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-49103, SRT, ”Vein Of Upper Extremity”) $SectionLaterality = EV (G-A100, SRT, ”Right”) $Anatomy = DCID (12108) Upper Extremity Veins
17	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-71019, SRT, ”Vascular Structure Of Kidney”) $SectionLaterality = EV (G-A101, SRT, ”Left”) $Anatomy = DCID (12115) Renal Vessels $AnatomyRatio = DCID (12124) Renal Ratios
18	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-71019, SRT, ”Vascular Structure Of Kidney”) $SectionLaterality = EV (G-A100, SRT, ”Right”) $Anatomy = DCID (12115) Renal Vessels $AnatomyRatio = DCID (12124) Renal Ratios
19	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-46002, SRT, ”Artery of Abdomen”) $SectionLaterality = EV (G-A101, SRT, ”Left”) $Anatomy = DCID (12111) Abdominal Arteries (lateral)
20	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-46002, SRT, ”Artery of Abdomen”) $SectionLaterality = EV (G-A100, SRT, ”Right”) $Anatomy = DCID (12111) Abdominal Arteries (lateral)
21	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-46002, SRT, ”Artery of Abdomen”) $SectionLaterality = EV (G-A103, SRT, ”Unilateral”) $Anatomy = DCID (12112) Abdominal Arteries (unilateral)
22	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-487A0, SRT, ”Vein of Abdomen”) $SectionLaterality = EV (G-A101, SRT, ”Left”) $Anatomy = DCID (12113) Abdominal Veins (lateral)
23	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T-487A0, SRT, ”Vein of Abdomen”) $SectionLaterality = EV (G-A100, SRT, ”Right”) $Anatomy = DCID (12113) Abdominal Veins (lateral)
24	>	CONTAINS	INCLUDE	DTID (5103) Vascular	$SectionScope = DT (T-487A0, SRT, ” Vein

No	NL	Rel with Parent	VT	Concept Name	Comments
				Ultrasound Section	of Abdomen") $SectionLaterality = EV (G-A103, SRT, "Unilateral") $Anatomy = DCID (12114) Abdominal Veins (unilateral)

A.3.3 Vascular Patient Characteristics (TID 5101)

Use of the template TID 5101 in the context of HD15 3.0.x is described in the following table.

No	NL	Rel with Parent	VT	Concept Name	Comments
1			CONTAINER	EV (121118, DCM, "Patient Characteristics")	
2	>	CONTAINS	NUM	EV (121033, DCM, "Subject Age")	Units = DCID (7456) Units of Measure for Age
3	>	CONTAINS	CODE	EV (121032, DCM, "Subject Sex")	DCID (7455) Sex
4	>	CONTAINS	NUM	(8277-6, LN, "Body Surface Area")	Derived from Patient Height and Weight
5	>	CONTAINS	NUM	(8302-2, LN, "Patient Height")	From Patient Data Entry
6	>	CONTAINS	NUM	(29463-7, LN,"Patient Weight")	From Patient Data Entry
7	>	CONTAINS	TEXT	(121092, DCM, "Subject Name")	From Patient Data Entry
8	>	CONTAINS	TEXT	(121030, DCM, "Subject ID")	From Patient Data Entry
9	>	CONTAINS	TEXT	(121031, DCM, "Subject Birth Date")	From Patient Data Entry
10	>	CONTAINS	TEXT	(T9910-04, 99PMSBLUS, "Reason for Study")	From Patient Data Entry
11	>	CONTAINS	TEXT	(T9910-112, 99PMSBLUS, "Alternate ID Number")	From Patient Data Entry
12	>	CONTAINS	TEXT	(121022, DCM, "Accession Number")	From Patient Data Entry
13	>	CONTAINS	TEXT	(T9910-08, 99PMSBLUS, "Referring Physician")	From Patient Data Entry
14	>	CONTAINS	TEXT	(121093, DCM, "Sonographer")	From Patient Data Entry
15	>	CONTAINS	TEXT	(T9910-07, 99PMSBLUS, "Study Description")	From Patient Data Entry
16	>	CONTAINS	TEXT	(T9910-10, 99PMSBLUS, "Patient History")	From Patient Data Entry
17	>	CONTAINS	TEXT	(T9910-09, 99PMSBLUS, "Exam Date")	From Patient Data Entry

No	NL	Rel with Parent	VT	Concept Name	Comments
18	>	CONTAINS	TEXT	(121106, DCM, “Comment”)	From Patient Data Entry

A.3.4 Vascular Procedure Summary (TID 5102)

Use of the template TID 5002 in the context of HD15 3.0.x is described in the following table.

No	NL	Rel with Parent	VT	Concept Name	Comments
1			CONTAINER	DT (121111, DCM, “Summary”)	
2	>		TEXT	DCID (12101) Vascular Summary	

The following list represents the Electronic DICOM Conformance Statement (eDCS) format for the Structured Report output for the Vascular Ultrasound Procedure Report as supported on HD15 3.0.x.

This list is made up of ‘signatures’ that describe the group of codes used for each exported measurement and calculation result.

A ‘signature’ will contain the Label as displayed on the system user interface in the Calcs application and report pages, followed by the modifiers required by the DICOM SR Template and Structured Reporting SOP Class in order to include a given measurement or calculation value.

Some signatures will contain as few as two or as many as six modifiers.

In the table below, the following terms are used:
CSD Coding Scheme Designator
CV Code Value
CM Code Meaning
Mod Type Concept Modifier Type
Laterality Describes laterality of vessel

“Mod Type” Field
Anatomy The finding site as specified by the template
Concept The code sequence as defined by the CSD
Section The section as specified by the template
Segment The name of the vessel segment
Units Units of this measurement

A.3.5 eDCS Table

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
ACA EDV	anatomy	SRT	T-45540	Anterior Cerebral Artery	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
ACA PI	anatomy	SRT	T-45540	Anterior Cerebral Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
ACA PSV	anatomy	SRT	T-45540	Anterior Cerebral Artery	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
ACA TAPV	anatomy	SRT	T-45540	Anterior Cerebral Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
ACA TCD Mean	anatomy	SRT	T-45540	Anterior Cerebral Artery	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
ACA TCD PI	anatomy	SRT	T-45540	Anterior Cerebral Artery	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
ACoA EDV	anatomy	SRT	T-45530	Anterior Communicating Artery	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
ACoA PI	anatomy	SRT	T-45530	Anterior Communicating Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
ACoA PSV	anatomy	SRT	T-45530	Anterior Communicating Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
ACoA TAPV	anatomy	SRT	T-45530	Anterior Communicating Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
ACoA TCD Mean	anatomy	SRT	T-45530	Anterior Communicating Artery	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
ACoA TCD PI	anatomy	SRT	T-45530	Anterior Communicating Artery	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
AI	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
		SRT	T-45100	Common Carotid Artery	bilateral
			T-45170	Carotid Bulb	bilateral
			T-45200	External Carotid Artery	bilateral
			T-45300	Internal Carotid Artery	bilateral
			T-45700	Vertebral Artery	bilateral
			T-46010	Innominate Artery	bilateral
			T-46100	Subclavian Artery	bilateral
			T-46710	Common Iliac Artery	bilateral
			T-46740	Internal Iliac Artery	bilateral
			T-46910	External Iliac Artery	bilateral
			T-47100	Axillary Artery	bilateral
			T-47160	Brachial Artery	bilateral
			T-47200	Ulnar Artery	bilateral
			T-47300	Radial Artery	bilateral
			T-47400	Common Femoral Artery	bilateral
			T-47403	Superficial Femoral Artery	bilateral
			T-47440	Profunda Femoris Artery	bilateral
			T-47500	Popliteal Artery	bilateral
			T-47600	Posterior Tibial Artery	bilateral
			T-47630	Peroneal Artery	bilateral
			T-47700	Anterior Tibial Artery	bilateral
			T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
			T-47020	Artery Of Upper Extremity	bilateral
			T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
			G-A119	Distal	bilateral
			G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Antecube PI	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Antecube RI	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Antecube S/D	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Ao % Area Reduction	anatomy	SRT	T-42000	Aorta	unilateral
	concept	SRT	G-0371	Percent Area Reduction	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	%	Percent	unilateral
Ao % Diam Reduction	anatomy	SRT	T-42000	Aorta	unilateral
	concept	SRT	G-0372	Percent Diameter Reduction	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	%	Percent	unilateral
Ao Area Resid	anatomy	SRT	T-42000	Aorta	unilateral
	concept	99PMSBLUS	C7471-01	Area 1 of Area Percent Reduction	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm2	Square Centimeter	unilateral
Ao Area True	anatomy	SRT	T-42000	Aorta	unilateral
	concept	99PMSBLUS	C7471-02	Area 2 of Area Percent Reduction	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm2	Square Centimeter	unilateral
Ao Diam Resid	anatomy	SRT	T-42000	Aorta	unilateral
	concept	99PMSBLUS	C7470-05	Diameter 1 of Diameter Reduction	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
Ao Diam True	anatomy	SRT	T-42000	Aorta	unilateral
	concept	99PMSBLUS	C7470-06	Diameter 2 of Diameter Reduction	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
Ao Dist Diam	anatomy	SRT	T-42000	Aorta	unilateral
	concept	SRT	G-0364	Vessel lumen diameter	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm	Centimeter	unilateral
Ao Mid Diam	anatomy	SRT	T-42000	Aorta	unilateral
	concept	SRT	G-0364	Vessel lumen diameter	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm	Centimeter	unilateral
Ao Prox Diam	anatomy	SRT	T-42000	Aorta	unilateral
	concept	SRT	G-0364	Vessel lumen diameter	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm	Centimeter	unilateral
Aorta PSV	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
AT	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
		SRT	T-45100	Common Carotid Artery	bilateral
			T-45170	Carotid Bulb	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
			T-45200	External Carotid Artery	bilateral
			T-45300	Internal Carotid Artery	bilateral
			T-45700	Vertebral Artery	bilateral
			T-46010	Innominate Artery	bilateral
			T-46100	Subclavian Artery	bilateral
			T-46710	Common Iliac Artery	bilateral
			T-46740	Internal Iliac Artery	bilateral
			T-46910	External Iliac Artery	bilateral
			T-47100	Axillary Artery	bilateral
			T-47160	Brachial Artery	bilateral
			T-47200	Ulnar Artery	bilateral
			T-47300	Radial Artery	bilateral
			T-47400	Common Femoral Artery	bilateral
			T-47403	Superficial Femoral Artery	bilateral
			T-47440	Profunda Femoris Artery	bilateral
			T-47500	Popliteal Artery	bilateral
			T-47600	Posterior Tibial Artery	bilateral
			T-47630	Peroneal Artery	bilateral
			T-47700	Anterior Tibial Artery	bilateral
			T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
			T-47020	Artery Of Upper Extremity	bilateral
			T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
			G-A119	Distal	bilateral
			G-A188	Mid-longitudinal	bilateral
	units	UCUM	sec	Seconds	bilateral
Ax A PI	anatomy	SRT	T-47100	Axillary Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Ax A RI	anatomy	SRT	T-47100	Axillary Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Ax A S/D	anatomy	SRT	T-47100	Axillary Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Bifur ACA EDV	anatomy	SRT	G-0369	Anterior-Posterior Cerebral Artery Bifurcation	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Bifur ACA PI	anatomy	SRT	G-0369	Anterior-Posterior Cerebral Artery Bifurcation	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
Bifur ACA PSV	anatomy	SRT	G-0369	Anterior-Posterior Cerebral Artery Bifurcation	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Bifur ACA TAPV	anatomy	SRT	G-0369	Anterior-Posterior Cerebral Artery Bifurcation	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Bifur ACA TCD Mean	anatomy	SRT	G-0369	Anterior-Posterior Cerebral Artery Bifurcation	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
Bifur ACA TCD PI	anatomy	SRT	G-0369	Anterior-Posterior Cerebral Artery Bifurcation	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
Bifur MCA EDV	anatomy	SRT	G-0368	Anterior-Middle Cerebral Artery Bifurcation	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Bifur MCA PI	anatomy	SRT	G-0368	Anterior-Middle Cerebral Artery Bifurcation	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
Bifur MCA PSV	anatomy	SRT	G-0368	Anterior-Middle Cerebral Artery Bifurcation	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Bifur MCA TAPV	anatomy	SRT	G-0368	Anterior-Middle Cerebral Artery Bifurcation	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Bifur MCA TCD Mean	anatomy	SRT	G-0368	Anterior-Middle Cerebral Artery Bifurcation	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Bifur MCA TCD PI	anatomy	SRT	G-0368	Anterior-Middle Cerebral Artery Bifurcation	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
Bladder Height	anatomy	SNM3	T-74000	Bladder	unilateral
	concept	99PMSBLUS	C12011-03	Bladder Height	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm	Centimeter	unilateral
Bladder Length	anatomy	SNM3	T-74000	Bladder	unilateral
	concept	99PMSBLUS	C12011-01	Bladder Length	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm	Centimeter	unilateral
Bladder Vol	anatomy	SNM3	T-74000	Bladder	unilateral
	concept	99PMSBLUS	C12011-04	Bladder Volume	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm3	Cubic Centimeter	unilateral
Bladder Width	anatomy	SNM3	T-74000	Bladder	unilateral
	concept	99PMSBLUS	C12011-02	Bladder Width	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm	Centimeter	unilateral
Brachioceph A PI	anatomy	SRT	T-46010	Innominate Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Brachioceph A RI	anatomy	SRT	T-46010	Innominate Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Brachioceph A S/D	anatomy	SRT	T-46010	Innominate Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Bulb IMT(Q)	anatomy	SRT	T-45170	Carotid Bulb	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm	Centimeter	bilateral
Bulb PI	anatomy	SRT	T-45170	Carotid Bulb	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	1	ratio	bilateral
Bulb RI	anatomy	SRT	T-45170	Carotid Bulb	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	1	ratio	bilateral
Bulb S/D	anatomy	SRT	T-45170	Carotid Bulb	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	1	ratio	bilateral
Carotid Siphon EDV	anatomy	SRT	T-45308	Carotid Siphon	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Carotid Siphon PI	anatomy	SRT	T-45308	Carotid Siphon	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
Carotid Siphon PSV	anatomy	SRT	T-45308	Carotid Siphon	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Carotid Siphon TAPV	anatomy	SRT	T-45308	Carotid Siphon	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Carotid Siphon TCD Mean	anatomy	SRT	T-45308	Carotid Siphon	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Carotid Siphon TCD PI	anatomy	SRT	T-45308	Carotid Siphon	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
CBD Diam	anatomy	SNM3	T-60610	Bileduct	unilateral
	concept	DCM	121206	Distance	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	mm	Millimeter	unilateral
CCA % Area Reduction	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	SRT	G-0371	Percent Area Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	%	Percent	bilateral
CCA % Diam Reduction	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	SRT	G-0372	Percent Diameter Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	%	Percent	bilateral
CCA Area Resid	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C7471-01	Area 1 of Area Percent Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm2	Square Centimeter	bilateral
CCA Area True	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C7471-02	Area 2 of Area Percent Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm2	Square Centimeter	bilateral
CCA Diam Resid	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C7470-05	Diameter 1 of Diameter Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm	Centimeter	bilateral
CCA Diam True	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C7470-06	Diameter 2 of Diameter Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm	Centimeter	bilateral
CCA IMT(Q)	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm	Centimeter	bilateral
CCA PSV	anatomy	99PMSBLUS	C12104-02	ICA/CCA Ratio Denominator	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Celiac A AI	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral
Celiac A AT	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	sec	Seconds	unilateral
Celiac A EDV	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Celiac A MDV	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Celiac A PI	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Celiac A PSV	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Celiac A RI	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Celiac A S/D	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Celiac A TAMV	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Celiac A TAPV	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Celiac A VTI	anatomy	SRT	T-46400	Celiac Axis	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
CFA % Area Reduction	anatomy	SRT	T-47400	Common Femoral Artery	bilateral
	concept	SRT	G-0371	Percent Area Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	%	Percent	bilateral
CFA % Diam Reduction	anatomy	SRT	T-47400	Common Femoral Artery	bilateral
	concept	SRT	G-0372	Percent Diameter Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	%	Percent	bilateral
CFA Area Resid	anatomy	SRT	T-47400	Common Femoral Artery	bilateral
	concept	99PMSBLUS	C7471-01	Area 1 of Area Percent Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	cm2	Square Centimeter	bilateral
CFA Area True	anatomy	SRT	T-47400	Common Femoral Artery	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	99PMSBLUS	C7471-02	Area 2 of Area Percent Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	cm2	Square Centimeter	bilateral
CFA Diam Resid	anatomy	SRT	T-47400	Common Femoral Artery	bilateral
	concept	99PMSBLUS	C7470-05	Diameter 1 of Diameter Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	cm	Centimeter	bilateral
CFA Diam True	anatomy	SRT	T-47400	Common Femoral Artery	bilateral
	concept	99PMSBLUS	C7470-06	Diameter 2 of Diameter Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	cm	Centimeter	bilateral
CFA PI	anatomy	SRT	T-47400	Common Femoral Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
CFA RI	anatomy	SRT	T-47400	Common Femoral Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
CFA S/D	anatomy	SRT	T-47400	Common Femoral Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Com Hepatic A AI	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral
Com Hepatic A AT	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	sec	Seconds	unilateral
Com Hepatic A EDV	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Com Hepatic A MDV	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Com Hepatic A PI	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Com Hepatic A PSV	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Com Hepatic A RI	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Com Hepatic A S/D	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Com Hepatic A TAMV	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Com Hepatic A TAPV	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Com Hepatic A VTI	anatomy	SRT	T-46421	Common Hepatic Artery	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
Com Iliac A PI	anatomy	SRT	T-46710	Common Iliac Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Com Iliac A RI	anatomy	SRT	T-46710	Common Iliac Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Com Iliac A S/D	anatomy	SRT	T-46710	Common Iliac Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Dist Ao AI	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral
Dist Ao AT	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	sec	Seconds	unilateral
Dist Ao EDV	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist Ao MDV	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist Ao PI	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	1	ratio	unilateral
Dist Ao PSV	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist Ao RI	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	1	ratio	unilateral
Dist Ao S/D	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	1	ratio	unilateral
Dist Ao TAMV	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist Ao TAPV	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist Ao VTI	anatomy	SRT	T-42000	Aorta	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm	Centimeter	unilateral
Dist ATA PI	anatomy	SRT	T-47700	Anterior Tibial Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist ATA RI	anatomy	SRT	T-47700	Anterior Tibial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist ATA S/D	anatomy	SRT	T-47700	Anterior Tibial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Basilar A EDV	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist Basilar A PI	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	1	ratio	unilateral
Dist Basilar A PSV	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist Basilar A TAPV	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist Basilar A TCD Mean	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist Basilar A TCD PI	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	1	ratio	unilateral
Dist Brach A PI	anatomy	SRT	T-47160	Brachial Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Brach A RI	anatomy	SRT	T-47160	Brachial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Brach A S/D	anatomy	SRT	T-47160	Brachial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Bulb IMT	anatomy	SRT	T-45170	Carotid Bulb	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Dist Bulb IMT(Q)	anatomy	SRT	T-45170	Carotid Bulb	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Dist CCA IMT	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Dist CCA IMT(Q)	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Dist CCA PI	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist CCA RI	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist CCA S/D	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist ICA EDV	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist ICA IMT	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Dist ICA IMT(Q)	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Dist ICA PI	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist ICA PSV	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist ICA RI	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist ICA S/D	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist ICA TAPV	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist ICA TCD Mean	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist ICA TCD PI	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist M1 EDV	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist M1 PI	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist M1 PSV	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist M1 TAPV	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist M1 TCD Mean	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist M1 TCD PI	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Pero A PI	anatomy	SRT	T-47630	Peroneal Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Pero A RI	anatomy	SRT	T-47630	Peroneal Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Pero A S/D	anatomy	SRT	T-47630	Peroneal Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Pop A PI	anatomy	SRT	T-47500	Popliteal Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Pop A RI	anatomy	SRT	T-47500	Popliteal Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Pop A S/D	anatomy	SRT	T-47500	Popliteal Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist PTA PI	anatomy	SRT	T-47600	Posterior Tibial Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist PTA RI	anatomy	SRT	T-47600	Posterior Tibial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist PTA S/D	anatomy	SRT	T-47600	Posterior Tibial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Rad A PI	anatomy	SRT	T-47300	Radial Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Rad A RI	anatomy	SRT	T-47300	Radial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Rad A S/D	anatomy	SRT	T-47300	Radial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Ren A AI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Dist Ren A AT	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	sec	Seconds	bilateral
Dist Ren A EDV	anatomy	SRT	T-46600	Renal Artery	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist Ren A MDV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist Ren A PI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Ren A PSV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist Ren A RI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Ren A S/D	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Ren A TAMV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist Ren A TAPV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Dist Ren A VTI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Dist SFA PI	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist SFA RI	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist SFA S/D	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist SMA AI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
Dist SMA AT	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	sec	Seconds	unilateral
Dist SMA EDV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist SMA MDV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist SMA PI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	1	ratio	unilateral
Dist SMA PSV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist SMA RI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	1	ratio	unilateral
Dist SMA S/D	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	1	ratio	unilateral
Dist SMA TAMV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist SMA TAPV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Dist SMA VTI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A119	Distal	unilateral
	units	UCUM	cm	Centimeter	unilateral
Dist Ulnar A PI	anatomy	SRT	T-47200	Ulnar Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Ulnar A RI	anatomy	SRT	T-47200	Ulnar Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral
	units	UCUM	1	ratio	bilateral
Dist Ulnar A S/D	anatomy	SRT	T-47200	Ulnar Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A119	Distal	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	units	UCUM	1	ratio	bilateral
Dor Pedis PI	anatomy	SRT	T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Dor Pedis RI	anatomy	SRT	T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Dor Pedis S/D	anatomy	SRT	T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
EDV	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
		SRT	T-45100	Common Carotid Artery	bilateral
			T-45170	Carotid Bulb	bilateral
			T-45200	External Carotid Artery	bilateral
			T-45300	Internal Carotid Artery	bilateral
			T-45700	Vertebral Artery	bilateral
			T-46010	Innominate Artery	bilateral
			T-46100	Subclavian Artery	bilateral
			T-46710	Common Iliac Artery	bilateral
			T-46740	Internal Iliac Artery	bilateral
			T-46910	External Iliac Artery	bilateral
			T-47100	Axillary Artery	bilateral
			T-47160	Brachial Artery	bilateral
			T-47200	Ulnar Artery	bilateral
			T-47300	Radial Artery	bilateral
			T-47400	Common Femoral Artery	bilateral
			T-47403	Superficial Femoral Artery	bilateral
			T-47440	Profunda Femoris Artery	bilateral
			T-47500	Popliteal Artery	bilateral
			T-47600	Posterior Tibial Artery	bilateral
			T-47630	Peroneal Artery	bilateral
			T-47700	Anterior Tibial Artery	bilateral
			T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
			T-47020	Artery Of Upper Extremity	bilateral
			T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
			G-A119	Distal	bilateral
			G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ext Iliac A PI	anatomy	SRT	T-46910	External Iliac Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Ext Iliac A RI	anatomy	SRT	T-46910	External Iliac Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Ext Iliac A S/D	anatomy	SRT	T-46910	External Iliac Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
GB Wall Diam	anatomy	SNM3	T-63000	Gallbladder	unilateral
	concept	DCM	121206	Distance	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	mm	Millimeter	unilateral
GDA AI	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
GDA AT	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	sec	Seconds	unilateral
GDA EDV	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
GDA MDV	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
GDA PI	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
GDA PSV	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
GDA RI	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
GDA S/D	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
GDA TAMV	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
GDA TAPV	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
GDA VTI	anatomy	SRT	T-46440	Gastroduodenal Artery	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
Hilar A AI	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Hilar A AT	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	sec	Seconds	bilateral
Hilar A EDV	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Hilar A MDV	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Hilar A PI	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Hilar A PSV	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
Hilar A RI	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Hilar A S/D	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Hilar A TAMV	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Hilar A TAPV	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Hilar A VTI	anatomy	SRT	G-035C	Hilar Artery	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm	Centimeter	bilateral
ICA	anatomy	99PMSBLUS	C12105-02	MCA/Dist ICA Ratio Denominator	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
ICA % Area Reduction	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	SRT	G-0371	Percent Area Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	%	Percent	bilateral
ICA % Diam Reduction	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	SRT	G-0372	Percent Diameter Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	%	Percent	bilateral
ICA Area Resid	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C7471-01	Area 1 of Area Percent Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm2	Square Centimeter	bilateral
ICA Area True	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C7471-02	Area 2 of Area Percent Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm2	Square Centimeter	bilateral
ICA Diam Resid	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C7470-05	Diameter 1 of Diameter Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm	Centimeter	bilateral
ICA Diam True	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C7470-06	Diameter 2 of Diameter Reduction	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm	Centimeter	bilateral
ICA IMT(Q)	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm	Centimeter	bilateral
ICA PSV	anatomy	99PMSBLUS	C12104-01	ICA/CCA Ratio Numerator	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
ICA/CCA	concept	LN	33868-1	ICA/CCA velocity ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	1	ratio	bilateral
IMA AI	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
IMA AT	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	sec	Seconds	unilateral
IMA EDV	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
IMA MDV	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
IMA PI	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
IMA PSV	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
IMA RI	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
IMA S/D	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
IMA TAMV	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
IMA TAPV	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
IMA VTI	anatomy	SRT	T-46520	Inferior Mesenteric Artery	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
Inf Arc AI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Inf Arc AT	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	sec	Seconds	bilateral
Inf Arc EDV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Inf Arc MDV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Inf Arc PI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	units	UCUM	1	ratio	bilateral
Inf Arc PSV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Inf Arc RI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Inf Arc S/D	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Inf Arc TAMV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Inf Arc TAPV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Inf Arc VTI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm	Centimeter	bilateral
Inf Ren Ao AI	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral
Inf Ren Ao AT	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	sec	Seconds	unilateral
Inf Ren Ao EDV	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Inf Ren Ao MDV	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Inf Ren Ao PI	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Inf Ren Ao PSV	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Inf Ren Ao RI	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Inf Ren Ao S/D	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Inf Ren Ao TAMV	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Inf Ren Ao TAPV	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Inf Ren Ao VTI	anatomy	SRT	T-42520	Infra-renal Aorta	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
Inf Seg AI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Inf Seg AT	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	sec	Seconds	bilateral
Inf Seg EDV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Inf Seg MDV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Inf Seg PI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Inf Seg PSV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Inf Seg RI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Inf Seg S/D	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Inf Seg TAMV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Inf Seg TAPV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Inf Seg VTI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A115	Inferior	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm	Centimeter	bilateral
Int Iliac A PI	anatomy	SRT	T-46740	Internal Iliac Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Int Iliac A RI	anatomy	SRT	T-46740	Internal Iliac Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
Int Iliac A S/D	anatomy	SRT	T-46740	Internal Iliac Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	1	ratio	bilateral
IVC Diameter	anatomy	SRT	T-48710	Inferior Vena Cava	unilateral
	concept	LN	18006-7	Inferior Vena Cava Diameter	unilateral
	section	SRT	T-487A0	Vein of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
Kidney Height	anatomy	SNM3	T-71000	Kidney	bilateral
	concept	99PMSBLUS	C7470-01	Height	bilateral
	section	99PMSBLUS	T5100-01	Anatomic Structures	bilateral
	units	UCUM	cm	Centimeter	bilateral
Kidney Length	anatomy	SNM3	T-71000	Kidney	bilateral
	concept	SRT	G-A22A	Length	bilateral
	section	99PMSBLUS	T5100-01	Anatomic Structures	bilateral
	units	UCUM	cm	Centimeter	bilateral
Kidney Vol	anatomy	SNM3	T-71000	Kidney	bilateral
	concept	DCM	121221	Volume of ellipsoid	bilateral
	section	99PMSBLUS	T5100-01	Anatomic Structures	bilateral
	units	UCUM	cm3	Cubic Centimeter	bilateral
Kidney Width	anatomy	SNM3	T-71000	Kidney	bilateral
	concept	SNM3	G-A220	Width	bilateral
	section	99PMSBLUS	T5100-01	Anatomic Structures	bilateral
	units	UCUM	cm	Centimeter	bilateral
L Hepatic A AI	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral
L Hepatic A AT	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	sec	Seconds	unilateral
L Hepatic A EDV	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
L Hepatic A MDV	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
L Hepatic A PI	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
L Hepatic A PSV	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
L Hepatic A RI	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
L Hepatic A S/D	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
L Hepatic A TAMV	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
L Hepatic A TAPV	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
L Hepatic A VTI	anatomy	SRT	T-46427	Left Branch of Hepatic Artery	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
Liver Length	anatomy	SNM3	T-62000	Liver	unilateral
	concept	SRT	G-A22A	Length	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm	Centimeter	unilateral
M2 EDV	anatomy	SRT	R-10251	Middle Cerebral Artery M2 Segment	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
M2 PI	anatomy	SRT	R-10251	Middle Cerebral Artery M2 Segment	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
M2 PSV	anatomy	SRT	R-10251	Middle Cerebral Artery M2 Segment	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
M2 TAPV	anatomy	SRT	R-10251	Middle Cerebral Artery M2 Segment	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
M2 TCD Mean	anatomy	SRT	R-10251	Middle Cerebral Artery M2 Segment	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
M2 TCD PI	anatomy	SRT	R-10251	Middle Cerebral Artery M2 Segment	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
MCA	anatomy	99PMSBLUS	C12105-01	MCA/Dist ICA Ratio Numerator	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
MCA/ICA	anatomy	99PMSBLUS	C12105-05	MCA/Dist ICA Ratio	bilateral
	concept	99PMSBLUS	C12105-03	MCA/Dist ICA Ratio	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
MDV	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
		SRT	T-45100	Common Carotid Artery	bilateral
			T-45170	Carotid Bulb	bilateral
			T-45200	External Carotid Artery	bilateral
			T-45300	Internal Carotid Artery	bilateral
			T-45700	Vertebral Artery	bilateral
			T-46010	Innominate Artery	bilateral
			T-46100	Subclavian Artery	bilateral
			T-46710	Common Iliac Artery	bilateral
			T-46740	Internal Iliac Artery	bilateral
			T-46910	External Iliac Artery	bilateral
			T-47100	Axillary Artery	bilateral
			T-47160	Brachial Artery	bilateral
			T-47200	Ulnar Artery	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
			T-47300	Radial Artery	bilateral
			T-47400	Common Femoral Artery	bilateral
			T-47403	Superficial Femoral Artery	bilateral
			T-47440	Profunda Femoris Artery	bilateral
			T-47500	Popliteal Artery	bilateral
			T-47600	Posterior Tibial Artery	bilateral
			T-47630	Peroneal Artery	bilateral
			T-47700	Anterior Tibial Artery	bilateral
			T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
			T-47020	Artery Of Upper Extremity	bilateral
			T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
			G-A119	Distal	bilateral
			G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Arc AI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Mid Arc AT	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	sec	Seconds	bilateral
Mid Arc EDV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Arc MDV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Arc PI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Mid Arc PSV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Arc RI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Mid Arc S/D	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Mid Arc TAMV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Arc TAPV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Arc VTI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm	Centimeter	bilateral
Mid ATA PI	anatomy	SRT	T-47700	Anterior Tibial Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid ATA RI	anatomy	SRT	T-47700	Anterior Tibial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid ATA S/D	anatomy	SRT	T-47700	Anterior Tibial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Basilar A EDV	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Mid Basilar A PI	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	1	ratio	unilateral
Mid Basilar A PSV	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Mid Basilar A TAPV	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Mid Basilar A TCD Mean	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Mid Basilar A TCD PI	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	1	ratio	unilateral
Mid Bulb IMT	anatomy	SRT	T-45170	Carotid Bulb	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Mid Bulb IMT(Q)	anatomy	SRT	T-45170	Carotid Bulb	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm	Centimeter	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
Mid CCA IMT	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Mid CCA IMT(Q)	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Mid CCA PI	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid CCA RI	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid CCA S/D	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid ECA PI	anatomy	SRT	T-45200	External Carotid Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid ECA RI	anatomy	SRT	T-45200	External Carotid Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid ECA S/D	anatomy	SRT	T-45200	External Carotid Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid ICA IMT	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Mid ICA IMT(Q)	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Mid ICA PI	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid ICA RI	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid ICA S/D	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid M1 EDV	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid M1 PI	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid M1 PSV	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid M1 TAPV	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid M1 TCD Mean	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid M1 TCD PI	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Pero A PI	anatomy	SRT	T-47630	Peroneal Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Pero A RI	anatomy	SRT	T-47630	Peroneal Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Pero A S/D	anatomy	SRT	T-47630	Peroneal Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid PTA PI	anatomy	SRT	T-47600	Posterior Tibial Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid PTA RI	anatomy	SRT	T-47600	Posterior Tibial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid PTA S/D	anatomy	SRT	T-47600	Posterior Tibial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Rad A PI	anatomy	SRT	T-47300	Radial Artery	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Rad A RI	anatomy	SRT	T-47300	Radial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Rad A S/D	anatomy	SRT	T-47300	Radial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Ren A AI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Mid Ren A AT	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	sec	Seconds	bilateral
Mid Ren A EDV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Ren A MDV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Ren A PI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Ren A PSV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Ren A RI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Ren A S/D	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Ren A TAMV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Ren A TAPV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
Mid Ren A VTI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Mid SCL A PI	anatomy	SRT	T-46100	Subclavian Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid SCL A RI	anatomy	SRT	T-46100	Subclavian Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid SCL A S/D	anatomy	SRT	T-46100	Subclavian Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Seg AI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Mid Seg AT	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	sec	Seconds	bilateral
Mid Seg EDV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Seg MDV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Seg PI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Mid Seg PSV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Seg RI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Mid Seg S/D	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Mid Seg TAMV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Seg TAPV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Mid Seg VTI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A109	Medial	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm	Centimeter	bilateral
Mid SFA PI	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid SFA RI	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid SFA S/D	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid SMA AI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral
Mid SMA AT	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	sec	Seconds	unilateral
Mid SMA EDV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Mid SMA MDV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Mid SMA PI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	1	ratio	unilateral
Mid SMA PSV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Mid SMA RI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	1	ratio	unilateral
Mid SMA S/D	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	1	ratio	unilateral
Mid SMA TAMV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Mid SMA TAPV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Mid SMA VTI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A188	Mid-longitudinal	unilateral
	units	UCUM	cm	Centimeter	unilateral
Mid Ulnar A PI	anatomy	SRT	T-47200	Ulnar Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Ulnar A RI	anatomy	SRT	T-47200	Ulnar Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Mid Ulnar A S/D	anatomy	SRT	T-47200	Ulnar Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A188	Mid-longitudinal	bilateral
	units	UCUM	1	ratio	bilateral
Ophthalmic A EDV	anatomy	SRT	T-45400	Ophthalmic Artery	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ophthalmic A PI	anatomy	SRT	T-45400	Ophthalmic Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
Ophthalmic A PSV	anatomy	SRT	T-45400	Ophthalmic Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ophthalmic A TAPV	anatomy	SRT	T-45400	Ophthalmic Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ophthalmic A TCD Mean	anatomy	SRT	T-45400	Ophthalmic Artery	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ophthalmic A TCD PI	anatomy	SRT	T-45400	Ophthalmic Artery	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
PCA P1 EDV	anatomy	SRT	R-10253	Posterior Cerebral Artery P1 Segment	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCA P1 PI	anatomy	SRT	R-10253	Posterior Cerebral Artery P1 Segment	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
PCA P1 PSV	anatomy	SRT	R-10253	Posterior Cerebral Artery P1 Segment	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCA P1 TAPV	anatomy	SRT	R-10253	Posterior Cerebral Artery P1 Segment	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCA P1 TCD Mean	anatomy	SRT	R-10253	Posterior Cerebral Artery P1 Segment	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCA P1 TCD PI	anatomy	SRT	R-10253	Posterior Cerebral Artery P1 Segment	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
PCA P2 EDV	anatomy	SRT	R-10255	Posterior Cerebral Artery P2 Segment	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCA P2 PI	anatomy	SRT	R-10255	Posterior Cerebral Artery P2 Segment	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
PCA P2 PSV	anatomy	SRT	R-10255	Posterior Cerebral Artery P2 Segment	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCA P2 TAPV	anatomy	SRT	R-10255	Posterior Cerebral Artery P2 Segment	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCA P2 TCD Mean	anatomy	SRT	R-10255	Posterior Cerebral Artery P2 Segment	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCA P2 TCD PI	anatomy	SRT	R-10255	Posterior Cerebral Artery P2 Segment	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
PCoA EDV	anatomy	SRT	T-45320	Posterior Communicating Artery	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCoA PI	anatomy	SRT	T-45320	Posterior Communicating Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
PCoA PSV	anatomy	SRT	T-45320	Posterior Communicating Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCoA TAPV	anatomy	SRT	T-45320	Posterior Communicating Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCoA TCD Mean	anatomy	SRT	T-45320	Posterior Communicating Artery	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PCoA TCD PI	anatomy	SRT	T-45320	Posterior Communicating Artery	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
Prox ATA PI	anatomy	SRT	T-47700	Anterior Tibial Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox ATA RI	anatomy	SRT	T-47700	Anterior Tibial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox ATA S/D	anatomy	SRT	T-47700	Anterior Tibial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Basilar A EDV	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Prox Basilar A PI	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	1	ratio	unilateral
Prox Basilar A PSV	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Prox Basilar A TAPV	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Prox Basilar A TCD Mean	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Prox Basilar A TCD PI	anatomy	SRT	T-45800	Basilar Artery	unilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	unilateral
	section	SRT	T-40501	Blood Vessel of Head	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	1	ratio	unilateral
Prox Brach A PI	anatomy	SRT	T-47160	Brachial Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Brach A RI	anatomy	SRT	T-47160	Brachial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Brach A S/D	anatomy	SRT	T-47160	Brachial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Bulb IMT	anatomy	SRT	T-45170	Carotid Bulb	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	units	UCUM	cm	Centimeter	bilateral
Prox Bulb IMT(Q)	anatomy	SRT	T-45170	Carotid Bulb	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Prox CCA IMT	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Prox CCA IMT(Q)	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Prox CCA PI	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox CCA RI	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox CCA S/D	anatomy	SRT	T-45100	Common Carotid Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox ECA PI	anatomy	SRT	T-45200	External Carotid Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox ECA RI	anatomy	SRT	T-45200	External Carotid Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox ECA S/D	anatomy	SRT	T-45200	External Carotid Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox ICA IMT	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Prox ICA IMT(Q)	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	99PMSBLUS	C12122-08	Mean Intima Media Thickness	bilateral
	MeasType	99PMSBLUS	C3627-01	QLAB IMT measurement	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Prox ICA PI	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
Prox ICA RI	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox ICA S/D	anatomy	SRT	T-45300	Internal Carotid Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox M1 EDV	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Prox M1 PI	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox M1 PSV	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Prox M1 TAPV	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Prox M1 TCD Mean	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Prox M1 TCD PI	anatomy	SRT	R-1024F	Middle Cerebral Artery M1 Segment	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Pero A PI	anatomy	SRT	T-47630	Peroneal Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Pero A RI	anatomy	SRT	T-47630	Peroneal Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Pero A S/D	anatomy	SRT	T-47630	Peroneal Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox PFA PI	anatomy	SRT	T-47440	Profunda Femoris Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox PFA RI	anatomy	SRT	T-47440	Profunda Femoris Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	units	UCUM	1	ratio	bilateral
Prox PFA S/D	anatomy	SRT	T-47440	Profunda Femoris Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Pop A PI	anatomy	SRT	T-47500	Popliteal Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Pop A RI	anatomy	SRT	T-47500	Popliteal Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Pop A S/D	anatomy	SRT	T-47500	Popliteal Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox PTA PI	anatomy	SRT	T-47600	Posterior Tibial Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox PTA RI	anatomy	SRT	T-47600	Posterior Tibial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox PTA S/D	anatomy	SRT	T-47600	Posterior Tibial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Rad A PI	anatomy	SRT	T-47300	Radial Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Rad A RI	anatomy	SRT	T-47300	Radial Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Rad A S/D	anatomy	SRT	T-47300	Radial Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Ren A AI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Prox Ren A AT	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	sec	Seconds	bilateral
Prox Ren A EDV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Prox Ren A MDV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Prox Ren A PI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Ren A PSV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Prox Ren A RI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Ren A S/D	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Ren A TAMV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Prox Ren A TAPV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Prox Ren A VTI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	cm	Centimeter	bilateral
Prox SCL A PI	anatomy	SRT	T-46100	Subclavian Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox SCL A RI	anatomy	SRT	T-46100	Subclavian Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox SCL A S/D	anatomy	SRT	T-46100	Subclavian Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox SFA PI	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox SFA RI	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox SFA S/D	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox SMA AI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral
Prox SMA AT	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	sec	Seconds	unilateral
Prox SMA EDV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Prox SMA MDV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Prox SMA PI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	1	ratio	unilateral
Prox SMA PSV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Prox SMA RI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	1	ratio	unilateral
Prox SMA S/D	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	1	ratio	unilateral
Prox SMA TAMV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Prox SMA TAPV	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Prox SMA VTI	anatomy	SRT	T-46510	Superior Mesenteric Artery	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	segment	SRT	G-A118	Proximal	unilateral
	units	UCUM	cm	Centimeter	unilateral
Prox Ulnar A PI	anatomy	SRT	T-47200	Ulnar Artery	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Ulnar A RI	anatomy	SRT	T-47200	Ulnar Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
Prox Ulnar A S/D	anatomy	SRT	T-47200	Ulnar Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-47020	Artery Of Upper Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
	units	UCUM	1	ratio	bilateral
PSV	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
		SRT	T-45100	Common Carotid Artery	bilateral
			T-45170	Carotid Bulb	bilateral
			T-45200	External Carotid Artery	bilateral
			T-45300	Internal Carotid Artery	bilateral
			T-45700	Vertebral Artery	bilateral
			T-46010	Innominate Artery	bilateral
			T-46100	Subclavian Artery	bilateral
			T-46710	Common Iliac Artery	bilateral
			T-46740	Internal Iliac Artery	bilateral
			T-46910	External Iliac Artery	bilateral
			T-47100	Axillary Artery	bilateral
			T-47160	Brachial Artery	bilateral
			T-47200	Ulnar Artery	bilateral
			T-47300	Radial Artery	bilateral
			T-47400	Common Femoral Artery	bilateral
			T-47403	Superficial Femoral Artery	bilateral
			T-47440	Profunda Femoris Artery	bilateral
			T-47500	Popliteal Artery	bilateral
			T-47600	Posterior Tibial Artery	bilateral
			T-47630	Peroneal Artery	bilateral
			T-47700	Anterior Tibial Artery	bilateral
			T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
			T-47020	Artery Of Upper Extremity	bilateral
			T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
			G-A119	Distal	bilateral
			G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
PV Bladder Height	anatomy	99PMSBLUS	C4-01	Post Void Bladder	unilateral
	concept	99PMSBLUS	C12011-07	Post Void Bladder Height	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm	Centimeter	unilateral
PV Bladder Length	anatomy	99PMSBLUS	C4-01	Post Void Bladder	unilateral
	concept	99PMSBLUS	C12011-05	Post Void Bladder Length	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm	Centimeter	unilateral
PV Bladder Vol	anatomy	99PMSBLUS	C4-01	Post Void Bladder	unilateral
	concept	99PMSBLUS	C12011-08	Post Void Bladder Volume	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm3	Cubic Centimeter	unilateral
PV Bladder Width	anatomy	99PMSBLUS	C4-01	Post Void Bladder	unilateral
	concept	99PMSBLUS	C12011-06	Post Void Bladder Width	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm	Centimeter	unilateral
R Hepatic A AI	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral
R Hepatic A AT	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	sec	Seconds	unilateral
R Hepatic A EDV	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
R Hepatic A MDV	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
R Hepatic A PI	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
R Hepatic A PSV	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
R Hepatic A RI	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
R Hepatic A S/D	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
R Hepatic A TAMV	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
R Hepatic A TAPV	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
R Hepatic A VTI	anatomy	SRT	T-46423	Right Branch of Hepatic Artery	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
RAR	concept	LN	33869-9	Renal Artery/Aorta velocity ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Ren A Org AI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Ren A Org AT	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	sec	Seconds	bilateral
Ren A Org EDV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ren A Org MDV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
Ren A Org PI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	1	ratio	bilateral
Ren A Org PSV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ren A Org RI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	1	ratio	bilateral
Ren A Org S/D	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	1	ratio	bilateral
Ren A Org TAMV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ren A Org TAPV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ren A Org VTI	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	segment	SRT	G-036A	Origin of vessel	bilateral
	units	UCUM	cm	Centimeter	bilateral
Ren V AI	anatomy	SRT	T-48740	Renal Vein	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Ren V AT	anatomy	SRT	T-48740	Renal Vein	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	sec	Seconds	bilateral
Ren V EDV	anatomy	SRT	T-48740	Renal Vein	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ren V MDV	anatomy	SRT	T-48740	Renal Vein	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ren V PI	anatomy	SRT	T-48740	Renal Vein	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Ren V PSV	anatomy	SRT	T-48740	Renal Vein	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ren V RI	anatomy	SRT	T-48740	Renal Vein	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Ren V S/D	anatomy	SRT	T-48740	Renal Vein	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Ren V TAMV	anatomy	SRT	T-48740	Renal Vein	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ren V TAPV	anatomy	SRT	T-48740	Renal Vein	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Ren V VTI	anatomy	SRT	T-48740	Renal Vein	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm	Centimeter	bilateral
Renal A PSV	anatomy	SRT	T-46600	Renal Artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
SFA % Area Reduction	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	SRT	G-0371	Percent Area Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	%	Percent	bilateral
SFA % Diam Reduction	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	SRT	G-0372	Percent Diameter Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	%	Percent	bilateral
SFA Area Resid	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	99PMSBLUS	C7471-01	Area 1 of Area Percent Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	cm2	Square Centimeter	bilateral
SFA Area True	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	99PMSBLUS	C7471-02	Area 2 of Area Percent Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	cm2	Square Centimeter	bilateral
SFA Diam Resid	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	99PMSBLUS	C7470-05	Diameter 1 of Diameter Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	cm	Centimeter	bilateral
SFA Diam True	anatomy	SRT	T-47403	Superficial Femoral Artery	bilateral
	concept	99PMSBLUS	C7470-06	Diameter 2 of Diameter Reduction	bilateral
	section	SRT	T-47040	Artery of Lower Extremity	bilateral
	units	UCUM	cm	Centimeter	bilateral
Spleen Height	anatomy	SNM3	T-C3000	Spleen	unilateral
	concept	99PMSBLUS	C7470-01	Height	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm	Centimeter	unilateral
Spleen Length	anatomy	SNM3	T-C3000	Spleen	unilateral
	concept	SRT	G-A22A	Length	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm	Centimeter	unilateral
Spleen Vol	anatomy	SNM3	T-C3000	Spleen	unilateral
	concept	DCM	121221	Volume of ellipsoid	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm3	Cubic Centimeter	unilateral
Spleen Width	anatomy	SNM3	T-C3000	Spleen	unilateral
	concept	SNM3	G-A220	Width	unilateral
	section	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)	unilateral
	units	UCUM	cm	Centimeter	unilateral
Splenic A AI	anatomy	SRT	T-46460	Splenic Artery	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral
Splenic A AT	anatomy	SRT	T-46460	Splenic Artery	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	sec	Seconds	unilateral
Splenic A EDV	anatomy	SRT	T-46460	Splenic Artery	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Splenic A MDV	anatomy	SRT	T-46460	Splenic Artery	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Splenic A PI	anatomy	SRT	T-46460	Splenic Artery	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Splenic A PSV	anatomy	SRT	T-46460	Splenic Artery	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Splenic A RI	anatomy	SRT	T-46460	Splenic Artery	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Splenic A S/D	anatomy	SRT	T-46460	Splenic Artery	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Splenic A TAMV	anatomy	SRT	T-46460	Splenic Artery	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Splenic A TAPV	anatomy	SRT	T-46460	Splenic Artery	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Splenic A VTI	anatomy	SRT	T-46460	Splenic Artery	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
Sup Arc AI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Sup Arc AT	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	sec	Seconds	bilateral
Sup Arc EDV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Sup Arc MDV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Sup Arc PI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
Sup Arc PSV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Sup Arc RI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Sup Arc S/D	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Sup Arc TAMV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Sup Arc TAPV	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Sup Arc VTI	anatomy	SRT	T-4668A	Arcuate Artery of the Kidney	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm	Centimeter	bilateral
Sup Ren Ao AI	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	20167-3	Acceleration Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	unilateral
Sup Ren Ao AT	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	20168-1	Acceleration Time	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	sec	Seconds	unilateral
Sup Ren Ao EDV	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	11653-3	End Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Sup Ren Ao MDV	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Sup Ren Ao PI	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	12008-9	Pulsatility Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Sup Ren Ao PSV	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	11726-7	Peak Systolic Velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Sup Ren Ao RI	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	12023-8	Resistivity Index	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Sup Ren Ao S/D	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	1	ratio	unilateral
Sup Ren Ao TAMV	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	20352-1	Time averaged mean velocity	unilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Sup Ren Ao TAPV	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	11692-1	Time averaged peak velocity	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm/s	Centimeter Per Second	unilateral
Sup Ren Ao VTI	anatomy	SRT	T-42510	Supra-renal Aorta	unilateral
	concept	LN	20354-7	Velocity Time Integral	unilateral
	section	SRT	T-46002	Artery of Abdomen	unilateral
	units	UCUM	cm	Centimeter	unilateral
Sup Seg AI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	20167-3	Acceleration Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s2	Centimeter Per Second Square	bilateral
Sup Seg AT	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	20168-1	Acceleration Time	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	sec	Seconds	bilateral
Sup Seg EDV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Sup Seg MDV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	11665-7	Minimum Diastolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Sup Seg PI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Sup Seg PSV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Sup Seg RI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Sup Seg S/D	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	1	ratio	bilateral
Sup Seg TAMV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Sup Seg TAPV	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Sup Seg VTI	anatomy	SRT	T-46659	Segmental Artery	bilateral
	branch	SRT	G-A116	Superior	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-71019	Vascular Structure Of Kidney	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	units	UCUM	cm	Centimeter	bilateral
TAMV	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
		SRT	T-45100	Common Carotid Artery	bilateral
			T-45170	Carotid Bulb	bilateral
			T-45200	External Carotid Artery	bilateral
			T-45300	Internal Carotid Artery	bilateral
			T-45700	Vertebral Artery	bilateral
			T-46010	Innominate Artery	bilateral
			T-46100	Subclavian Artery	bilateral
			T-46710	Common Iliac Artery	bilateral
			T-46740	Internal Iliac Artery	bilateral
			T-46910	External Iliac Artery	bilateral
			T-47100	Axillary Artery	bilateral
			T-47160	Brachial Artery	bilateral
			T-47200	Ulnar Artery	bilateral
			T-47300	Radial Artery	bilateral
			T-47400	Common Femoral Artery	bilateral
			T-47403	Superficial Femoral Artery	bilateral
			T-47440	Profunda Femoris Artery	bilateral
			T-47500	Popliteal Artery	bilateral
			T-47600	Posterior Tibial Artery	bilateral
			T-47630	Peroneal Artery	bilateral
			T-47700	Anterior Tibial Artery	bilateral
			T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	20352-1	Time averaged mean velocity	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
			T-47020	Artery Of Upper Extremity	bilateral
			T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
			G-A119	Distal	bilateral
			G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
TAPV	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
		SRT	T-45100	Common Carotid Artery	bilateral
			T-45170	Carotid Bulb	bilateral
			T-45200	External Carotid Artery	bilateral
			T-45300	Internal Carotid Artery	bilateral
			T-45700	Vertebral Artery	bilateral
			T-46010	Innominate Artery	bilateral
			T-46100	Subclavian Artery	bilateral
			T-46710	Common Iliac Artery	bilateral
			T-46740	Internal Iliac Artery	bilateral
			T-46910	External Iliac Artery	bilateral
			T-47100	Axillary Artery	bilateral
			T-47160	Brachial Artery	bilateral
			T-47200	Ulnar Artery	bilateral
			T-47300	Radial Artery	bilateral
			T-47400	Common Femoral Artery	bilateral
			T-47403	Superficial Femoral Artery	bilateral
			T-47440	Profunda Femoris Artery	bilateral
			T-47500	Popliteal Artery	bilateral
			T-47600	Posterior Tibial Artery	bilateral
			T-47630	Peroneal Artery	bilateral
			T-47700	Anterior Tibial Artery	bilateral
			T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
			T-47020	Artery Of Upper Extremity	bilateral
			T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
			G-A119	Distal	bilateral
			G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Term ICA EDV	anatomy	SRT	R-102BD	Terminal internal carotid artery	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Term ICA PI	anatomy	SRT	R-102BD	Terminal internal carotid artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
Term ICA PSV	anatomy	SRT	R-102BD	Terminal internal carotid artery	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Term ICA TAPV	anatomy	SRT	R-102BD	Terminal internal carotid artery	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Term ICA TCD Mean	anatomy	SRT	R-102BD	Terminal internal carotid artery	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Term ICA TCD PI	anatomy	SRT	R-102BD	Terminal internal carotid artery	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
Vertebral A EDV	anatomy	99PMSBLUS	C12105-04	Vertebral Artery in TCD	bilateral
	concept	LN	11653-3	End Diastolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Vertebral A PI	anatomy	99PMSBLUS	C12105-04	Vertebral Artery in TCD	bilateral
		SRT	T-45700	Vertebral Artery	bilateral
	concept	LN	12008-9	Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
			T-45005	Artery of neck	bilateral
	units	UCUM	1	ratio	bilateral
Vertebral A PSV	anatomy	99PMSBLUS	C12105-04	Vertebral Artery in TCD	bilateral
	concept	LN	11726-7	Peak Systolic Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Vertebral A RI	anatomy	SRT	T-45700	Vertebral Artery	bilateral
	concept	LN	12023-8	Resistivity Index	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	1	ratio	bilateral
Vertebral A S/D	anatomy	SRT	T-45700	Vertebral Artery	bilateral
	concept	LN	12144-2	Systolic to Diastolic Velocity Ratio	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
	units	UCUM	1	ratio	bilateral
Vertebral A TAPV	anatomy	99PMSBLUS	C12105-04	Vertebral Artery in TCD	bilateral
	concept	LN	11692-1	Time averaged peak velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Vertebral A TCD Mean	anatomy	99PMSBLUS	C12105-04	Vertebral Artery in TCD	bilateral
	concept	99PMSBLUS	C12221-03	TCD Mean Velocity	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	cm/s	Centimeter Per Second	bilateral
Vertebral A TCD PI	anatomy	99PMSBLUS	C12105-04	Vertebral Artery in TCD	bilateral
	concept	99PMSBLUS	C12221-04	TCD Pulsatility Index	bilateral
	section	SRT	T-40501	Blood Vessel of Head	bilateral
	units	UCUM	1	ratio	bilateral
VTI	anatomy	99PMSBLUS	sup71_001	Antecube	bilateral
		SRT	T-45100	Common Carotid Artery	bilateral
			T-45170	Carotid Bulb	bilateral
			T-45200	External Carotid Artery	bilateral
			T-45300	Internal Carotid Artery	bilateral
			T-45700	Vertebral Artery	bilateral
			T-46010	Innominate Artery	bilateral

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM	Laterality
			T-46100	Subclavian Artery	bilateral
			T-46710	Common Iliac Artery	bilateral
			T-46740	Internal Iliac Artery	bilateral
			T-46910	External Iliac Artery	bilateral
			T-47100	Axillary Artery	bilateral
			T-47160	Brachial Artery	bilateral
			T-47200	Ulnar Artery	bilateral
			T-47300	Radial Artery	bilateral
			T-47400	Common Femoral Artery	bilateral
			T-47403	Superficial Femoral Artery	bilateral
			T-47440	Profunda Femoris Artery	bilateral
			T-47500	Popliteal Artery	bilateral
			T-47600	Posterior Tibial Artery	bilateral
			T-47630	Peroneal Artery	bilateral
			T-47700	Anterior Tibial Artery	bilateral
			T-47741	Dorsalis Pedis Artery	bilateral
	concept	LN	20354-7	Velocity Time Integral	bilateral
	section	SRT	T-45005	Artery of neck	bilateral
			T-47020	Artery Of Upper Extremity	bilateral
			T-47040	Artery of Lower Extremity	bilateral
	segment	SRT	G-A118	Proximal	bilateral
			G-A119	Distal	bilateral
			G-A188	Mid-longitudinal	bilateral
	units	UCUM	cm	Centimeter	bilateral

A.4 ADULT ECHOCARDIOGRAPHY STRUCTURED REPORT TEMPLATE

HD15 3.0.x implements the Adult Echocardiography Template (TID 5200) from the DICOM standard, part 16. This appendix describes the scope and manner that HD15 3.0.x measurements appear in DICOM SR.

Measurements and calculations performed for cardiac studies will lead to creation of "Adult Echocardiography Procedure Report" structured report documents. Measurements can be performed by pressing the 'Calc' key on HD15 3.0.x control panel and selecting the Cardiac (Adult Echo) analysis package. Measurements and calculations available in the menu can be configured through the setup application. It is also possible to configure the measurement unit (Metric or U.S).

All concepts with value type (VT) NUM will always have a 'MeasurementUnitCodeSequence' that specifies the unit of the measurement. The CSD for all units will be UCUM (Unified Code for Units) and CV and CM will be based on application configuration and will confirm to UCUM standards.

A.4.1 Template specific conformance for TID 5200

The template for the root of the content tree for TID 5200 and its use in the HD15 3.0.x context is described in the following table.

Note: Only the rows that apply to use by HD15 3.0.x are included.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	EV (125200, DCM, "Adult Echocardiography Procedure Report")	This is the root 'CONTAINER'
2	>	CONTAINS	INCLUDE	DTID (5201) Echocardiography Patient Characteristics	Refer to A.4.2 for HD15 3.0.x usage of this.
3	>	CONTAINS	INCLUDE	DTID (T5200-03) Echo Procedure Summary Section	Refer to A.4.3 for HD15 3.0.x usage of this.
4	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12200 will be used with $SectionSubject = EV (T-32600, SRT, "Left Ventricle").
5	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12204 will be used with $SectionSubject = EV (T-32500, SRT, "Right Ventricle").
6	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12205 will be used with $SectionSubject = EV (T-32300, SRT, "Left Atrium").
7	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12206 will be used with $SectionSubject = EV (T-32200, SRT, "Right Atrium").
8	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12211 will be used with $SectionSubject = EV (T-35400, SRT, "Aortic Valve").
9	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12207 will be used with $SectionSubject = EV (T-35300, SRT, "Mitral Valve").

No	NL	REL WITH PARENT	VT	Concept Name	Comments
10	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12209 will be used with $SectionSubject = EV (T-35200, SRT, “Pulmonic Valve”).
11	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12208 will be used with $SectionSubject = EV (T-35100, SRT, “Tricuspid Valve”).
12	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12212 will be used with $SectionSubject = EV (T-42000, SRT, “Aorta”.
13	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12210 will be used with $SectionSubject = EV (T-44000, SRT, “Pulmonary artery”).
14	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12215 will be used with $SectionSubject = EV (T-48600, SRT, “Vena Cava”).
15	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12214 will be used with $SectionSubject = EV (T-48581, SRT, “Pulmonary Venous Structure”).
16	>	CONTAINS	INCLUDE	DTID (5202) Echo Section	Concepts in CID 12217 will be used with $SectionSubject = EV (P5-30031, SRT, “Cardiac Shunt Study”).
17	>	CONTAINS	INCLUDE	DTID (T5200-01) Hepatic Veins Section	Concepts in CID 12216 will be used with $SectionSubject = EV (T5200-01, 99PMSBLUS, “Hepatic Veins”). Refer to A.4.7 for more details.

A.4.2 Echocardiography Patient Characteristics (TID 5201)

Use of the template TID 5201 in the context of HD15 3.0.x is described in the following table.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	EV (121118, DCM, “Patient Characteristics”)	
2	>	CONTAINS	NUM	EV (121033, DCM, “Subject Age”)	Units = DCID (7456
3	>	CONTAINS	CODE	EV (121032, DCM, “Subject Sex”)	Value is taken from PDE (Patient Data Entry) screen or from the MWL and the corresponding Concepts are taken from the DCID 7455.
4	>	CONTAINS	NUM	EV (F-008EC, SRT, “Systolic Blood Pressure”)	Value is taken from PDE (Patient Data Entry) screen.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
5	>	CONTAINS	NUM	EV (F-008ED, SRT, “Diastolic Blood Pressure”)	Value is taken from PDE (Patient Data Entry) screen.
6	>	CONTAINS	NUM	EV (8277-6, LN, “Body Surface Area”)	Value automatically calculated by the HD15 3.0.x system based on the Height and Weight values entered on PDE (Patient Data Entry) screen.

A.4.3 Echo Procedure Summary Section (TID 5200-03)

This is a privately defined template to put all the observations, findings and comments entered for the cardiac study in the reporting screen. The following table describes the use of this template in the context of HD15 3.0.x.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DT (121111, DCM, “Summary”)	
2	>	CONTAINS	TEXT	EV (121106, DCM, “Comment”)	This field contains all observations, findings and the comments entered in the reporting screen on the HD15 3.0.x. The format of the finding entry is “<FindingGroupName>space<FindingText>”, where FindingGroupName is the Anatomy name and FindingText is the text description of the finding.

A.4.4 Echo Section (TID 5202)

This template is invoked multiple times by passing different section subjects as ‘Finding Site’ value. Use of the template TID 5202 in the context of HD15 3.0.x is described in the following table.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	EV(121070, DCM, ”Findings”)	
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, “Finding Site”)	Value passed in the parameter $SectionSubject is given here.
3	>	CONTAINS	CONTAINER	DT (125007, DCM, “Measurement Group”)	
4	>>	HAS CONCEPT MOD	CODE	EV(G-0373, SRT, ”Image Mode”)	The value is taken from BCID 12224.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
5	>	CONTAINS	INCLUDE	DTID (5203) Echo Measurement	This template is invoked multiple times for all the measurements done on the $SectionSubject. Refer to section A.4.5 for details of HD15 3.0.x usage of this.

A.4.5 Echo Measurement (TID 5203)

Use of the template TID 5203 in the context of HD15 3.0.x is described in the following table.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			INCLUDE	DTID (300) Measurement	
2	>>	HAS CONCEPT MOD	CODE	EV (G-C036, SRT, “Measurement Method")	This row is used only if the measurement or calculation this template is invoked with mandates it. Otherwise this row is not used. The values are taken from the BCID 12227.
3	>>	INFERRED FROM	SCOORD	Spatial Coordinate Macro	This gives information on measurements coordinates on the referenced image. Coordinate information is given in the form of Graphic Data and Graphic Type.
4	>>>	SELECTED FROM	IMAGE	Image Reference Macro	It refers to the single frame image on which this measurement is done. SOP Class UID and SOP Instance UID of the corresponding image will be present.
5	>>	INFERRED FROM	NUM	Referenced Content Item Identifier	This row is used only if the measurement or calculation this template is invoked with is of type MOD Volume measurements. In this case, reference to those twenty Left Ventricle MOD Diam entries, based on which this volume measurement is calculated is given here.
6	>>	HAS CONCEPT MOD	CODE	EV (121401, DCM, “Derivation”)	If a user has performed more than one measurement then he / she can either use average (default) of these instances or he can specifically select one of the measured instance for using in calculations. If the selection is Average, then that average measurement instance will have a derivation modifier as (R-00317, SRT, “Mean”).
7	>>	HAS PROPERTIES	CODE	EV (121404, DCM, “Selection Status”)	This will have a value ‘Mean Value Chosen’ if the Derivation is ‘Mean’. In all other cases, this will have a value, ‘User Chosen Value’.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
8	>	HAS CONCEPT MOD	CODE	EV (G-C048, SRT, “Flow Direction”)	This row is used only if the measurement or calculation this template is invoked with mandates it. Otherwise this row is not used. The values are taken from the BCID 12221.
9	>	HAS CONCEPT MOD	CODE	EV (R-4089A, SRT, “Cardiac Cycle Point”)	IFF $Measurement = (99PMSBLUS, C12201-01, “Left Ventricle MOD Diam”). The values are taken from DCID 12233.
10	>	HAS CONCEPT MOD	CODE	EV (G-0373, SRT, “Image Mode”)	This row is used only if the measurement or calculation this template is invoked with mandates it. Otherwise this row is not used. The values are taken from the BCID 12224.
11	>	HAS CONCEPT MOD	CODE	EV (111031, DCM, “Image View”)	This row is used only if the measurement or calculation this template is invoked with mandates it. Otherwise this row is not used. The values are taken from the BCID 12226.
12	>	HAS CONCEPT MOD	TEXT	EV (99PMSBLUS, T5203-01, “Simpson's Disk Number”) = value	IFF $Measurement = (99PMSBLUS, C12201-01, “Left Ventricle MOD Diam”). The ‘value’ will be in the range, 1-20.

A.4.6 Hepatic Veins (T5200-01)

This template is used for measurements of the Hepatic Veins. Use of the template T5200-01 in the context of HD15 3.0.x is described in the following table.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	EV (121070, DCM, ”Findings”)	
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, “Finding Site”)	Value passed in the parameter $SectionSubject is given here.
3	>	CONTAINS	CONTAINER	DT (125007, DCM, “Measurement Group”)	
4	>>	HAS PROPERTIES	CODE	EV (121404, DCM, “Selection Status”)	This will have a value ‘Mean Value Chosen’ if the Derivation is ‘Mean’. In all other cases, this will have a value, ‘User Chosen Value’.
5	>>	CONTAINS	CODE	EV (29471-0, LN, “Hepatic Vein Systolic Peak Velocity”)	This value is taken from CID 12216.
6	>>	CONTAINS	CODE	EV (29474-4, LN, “Hepatic Vein Atrial Contraction Reversal Peak Velocity”)	This value is taken from CID 12216.
7	>>	CONTAINS	CODE	EV (C12216-01, 99PMSBLUS, “Hepatic Vein A-Wave Duration”)	This value is an extension to CID 122216.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
8	>>	CONTAINS	CODE	EV (29472-8, LN, “Hepatic Vein Diastolic Peak Velocity”)	This value is taken from CID 12216.
9	>>	CONTAINS	CODE	EV (29473-6, LN “Hepatic Vein Systolic to Diastolic Ratio”)	This value is taken from CID 12216.

A.4.7 eDCS – Adult Echocardiography Template Support

The following list represents the Electronic DICOM Conformance Statement (eDCS) format for the Structured Report output for the Adult Echocardiography Procedure Report as supported on HD15 3.0.x.

This list is made up of 'signatures' that describe the group of codes used for each exported measurement and calculation result.

A 'signature' will contain the Label as displayed on the system user interface in the Calcs application and report pages, followed by the modifiers required by the DICOM SR Template and Structured Reporting SOP Class in order to include a given measurement or calculation value.

Some signatures will contain as few as two or as many as six modifiers.

In the table below, the following terms are used:

CSD	Coding Scheme Designator
CV	Code Value
CM	Code Meaning
Mod Type	Concept Modifier Type

"Mod Type" Field

App	Application or SR Template this measurement or calculation applies to
Site	The finding site as specified by the template
Concept	The code sequence as defined by the CSD
Mode	The imaging mode used for this value
Direction	Regurgitant or Antegrade flow
Method	Measurement or Calculation method used
Target	Location
View	Cardiac Imaging View

Following this list is a list of measurements that will not be exported.

A.4.7.1 eDCS Table

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
A Wave Amp	concept	LN	59100-8	A Wave Amp
	mode	SRT	G-0394	M mode
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	cm	Centimeter
AI Acc Time	concept	LN	20168-1	Acceleration Time
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	sec	Seconds
AI Acc Time Slope	concept	LN	20167-3	Acceleration Slope
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm/s2	Centimeter Per Second Square
AI Alias Vel	concept	LN	59130-5	Alias Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm/s	Centimeter Per Second
AI Dec Slope	concept	LN	20216-8	Deceleration Slope
	direction	SRT	G-0367	Regurgitant Flow

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm/s2	Centimeter Per Second Square
AI Dec Slope Time	concept	LN	20217-6	Deceleration Time
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	sec	Seconds
AI End Dias Vel	concept	LN	11653-3	End Diastolic Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm/s	Centimeter Per Second
AI ERO	concept	SRT	G-038E	Cardiovascular Orifice Area
	direction	SRT	G-0367	Regurgitant Flow
	method	DCM	125216	Proximal Isovelocity Surface Area
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm2	Square Centimeter
AI Flow Rate	concept	LN	34141-2	Peak Instantaneous Flow Rate
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	ml/sec	ml/sec
AI Fraction	concept	SRT	G-0390	Regurgitant Fraction
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	%	Percent
AI Max PG	concept	LN	20247-3	Peak Gradient
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
AI Mean PG	concept	LN	20256-4	Mean Gradient
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
AI P1/2t	concept	LN	20280-4	Pressure Half-Time
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	msec	Millisecond
AI Radius	concept	LN	59102-4	Flow Radius
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm	Centimeter
AI Vmax	concept	LN	20351-3	Peak Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm/s	Centimeter Per Second
AI Vmean	concept	LN	20352-1	Time Averaged Mean Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	units	UCUM	cm/s	Centimeter Per Second
AI Volume	concept	LN	33878-0	Volume Flow
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	ml	Milliliter
AI VTI	concept	LN	20354-7	Velocity Time Integral
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm	Centimeter
Ao Arch Diam	concept	LN	18011-7	Aortic Arch Diameter
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-42000	Aorta
	units	UCUM	cm	Centimeter
Ao Isthmus Diam	concept	LN	18014-1	Aortic Isthmus Diameter
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-42000	Aorta
	units	UCUM	cm	Centimeter
AoR Diam (2D)	concept	LN	18015-8	Aortic Root Diameter
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-42000	Aorta
	units	UCUM	cm	Centimeter
AoR Diam (MM)	concept	LN	18015-8	Aortic Root Diameter
	mode	SRT	G-0394	M mode
	site	SNM3	T-42000	Aorta
	units	UCUM	cm	Centimeter
Asc Ao Diam	concept	LN	18012-5	Ascending Aortic Diameter
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-42000	Aorta
	units	UCUM	cm	Centimeter
AV Acc Time	concept	LN	20168-1	Acceleration Time
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	sec	Seconds
AV Acc Time Slope	concept	LN	20167-3	Acceleration Slope
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm/s2	Centimeter Per Second Square
AV Area	concept	SRT	G-038E	Cardiovascular Orifice Area
	method	DCM	125220	Planimetry
	mode	SRT	G-03A2	2D mode
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm2	Square Centimeter
AV Cusp Sep	concept	LN	17996-0	Aortic Valve Cusp Separation
	mode	SRT	G-0394	M mode
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm	Centimeter

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
AV Dec Time	concept	LN	20217-6	Deceleration Time
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	sec	Seconds
AV Max PG	concept	LN	20247-3	Peak Gradient
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
AV Mean PG	concept	LN	20256-4	Mean Gradient
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
AV R-R	concept	LN	8867-4	Heart rate
	site	SRT	T-35400	Aortic Valve
	units	UCUM	{H.B}/min	Beats Per Minute
AV Vmax	concept	LN	20351-3	Peak Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm/s	Centimeter Per Second
AV Vmean	concept	LN	20352-1	Time Averaged Mean Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm/s	Centimeter Per Second
AV VTI	concept	LN	20354-7	Velocity Time Integral
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm	Centimeter
AVA (Vmax)	concept	SRT	G-038E	Cardiovascular Orifice Area
	method	DCM	125214	Continuity Equation by Peak Velocity
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm2	Square Centimeter
AVA (VTI)	concept	SRT	G-038E	Cardiovascular Orifice Area
	method	DCM	125215	Continuity Equation by Velocity Time Integral
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm2	Square Centimeter
B-C Slope	concept	99PMSBLUS	C12209-03	B-C Slope
	mode	SRT	G-0394	M mode
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	cm/s	Centimeter Per Second
CI (2D-Cubed)	concept	SRT	F-32110	Cardiac Index
	method	DCM	125206	Cube Method
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min/m2	l/min/m2
CI (2D-Teich)	concept	SRT	F-32110	Cardiac Index
	method	DCM	125209	Teichholz

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min/m2	l/min/m2
CI (A/L)	concept	SRT	F-32110	Cardiac Index
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min/m2	l/min/m2
CI (MM-Cubed)	concept	SRT	F-32110	Cardiac Index
	method	DCM	125206	Cube Method
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min/m2	l/min/m2
CI (MM-Teich)	concept	SRT	F-32110	Cardiac Index
	method	DCM	125209	Teichholz
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min/m2	l/min/m2
CI(MOD-bp)	concept	SRT	F-32110	Cardiac Index
	method	DCM	125207	Method of Disks, Biplane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min/m2	l/min/m2
CI(MOD-sp2)	concept	SRT	F-32110	Cardiac Index
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min/m2	l/min/m2
	view	SRT	G-A19B	Apical two chamber
CI(MOD-sp4)	concept	SRT	F-32110	Cardiac Index
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min/m2	l/min/m2
	view	SRT	G-A19C	Apical four chamber
CO (2D-Cubed)	concept	SRT	F-32100	Cardiac Output
	method	DCM	125206	Cube Method
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min	Litre Per Minute
CO (2D-Teich)	concept	SRT	F-32100	Cardiac Output
	method	DCM	125209	Teichholz
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min	Litre Per Minute
CO (A/L)	concept	SRT	F-32100	Cardiac Output

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min	Litre Per Minute
CO (LVOT)	concept	SRT	F-32100	Cardiac Output
	site	SNM3	T-32600	Left Ventricle
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	l/min	Litre Per Minute
CO (MM-Cubed)	concept	SRT	F-32100	Cardiac Output
	method	DCM	125206	Cube Method
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min	Litre Per Minute
CO (MM-Teich)	concept	SRT	F-32100	Cardiac Output
	method	DCM	125209	Teichholz
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min	Litre Per Minute
CO (MV)	concept	SRT	F-32100	Cardiac Output
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	l/min	Litre Per Minute
CO (RVOT)	concept	SRT	F-32100	Cardiac Output
	site	SRT	T-32500	Right Ventricle
	target	SNM3	T-32550	Right Ventricle Outflow Tract
	units	UCUM	l/min	Litre Per Minute
CO (TV)	concept	SRT	F-32100	Cardiac Output
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	l/min	Litre Per Minute
CO(MOD-bp)	concept	SRT	F-32100	Cardiac Output
	method	DCM	125207	Method of Disks, Biplane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min	Litre Per Minute
CO(MOD-sp2)	concept	SRT	F-32100	Cardiac Output
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min	Litre Per Minute
	view	SRT	G-A19B	Apical two chamber
CO(MOD-sp4)	concept	SRT	F-32100	Cardiac Output
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	l/min	Litre Per Minute
	view	SRT	G-A19C	Apical four chamber
Desc Ao Diam	concept	LN	18013-3	Descending Aortic Diameter

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-42000	Aorta
	units	UCUM	cm	Centimeter
E/Lat E`	concept	SRT	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	1	no units
E/Med E`	concept	SRT	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	1	no units
E`/A` Lateral	concept	99PMSBLUS	C12203-09	Ratio of LV E to A Tissue Velocity
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	1	no units
E`/A` Medial	concept	LN	59129-7	Ratio of LV E to A Tissue Velocity
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	1	no units
EDV (2D-Cubed)	concept	LN	18026-5	Left Ventricular End Diastolic Volume
	method	DCM	125206	Cube Method
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
EDV (2D-Teich)	concept	LN	18026-5	Left Ventricular End Diastolic Volume
	method	DCM	125209	Teichholz
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
EDV (A/L)	concept	LN	18026-5	Left Ventricular End Diastolic Volume
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
EDV (MM-Cubed)	concept	LN	18026-5	Left Ventricular End Diastolic Volume
	method	DCM	125206	Cube Method
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
EDV (MM-Teich)	concept	LN	18026-5	Left Ventricular End Diastolic Volume
	method	DCM	125209	Teichholz
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
EDV(MOD-bp)	concept	LN	18026-5	Left Ventricular End Diastolic Volume
	method	DCM	125207	Method of Disks, Biplane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
EDV(MOD-sp2)	concept	LN	18026-5	Left Ventricular End Diastolic Volume
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm3	Cubic Centimeter
	view	SRT	G-A19B	Apical two chamber
EDV(MOD-sp4)	concept	LN	18026-5	Left Ventricular End Diastolic Volume
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm3	Cubic Centimeter
	view	SRT	G-A19C	Apical four chamber
EF (2D-Cubed)	concept	LN	18043-0	Left Ventricular Ejection Fraction
	method	DCM	125206	Cube Method
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
EF (2D-Teich)	concept	LN	18043-0	Left Ventricular Ejection Fraction
	method	DCM	125209	Teichholz
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
EF (A/L)	concept	LN	18043-0	Left Ventricular Ejection Fraction
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
EF (Dumesnil)	concept	99PMSBLUS	C3467-04	Left Ventricular Ejection Fraction by Dumesnil 1995
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
EF (MM-Cubed)	concept	LN	18043-0	Left Ventricular Ejection Fraction
	method	DCM	125206	Cube Method
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
EF (MM-Teich)	concept	LN	18043-0	Left Ventricular Ejection Fraction
	method	DCM	125209	Teichholz
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
EF(MOD-bp)	concept	LN	18043-0	Left Ventricular Ejection Fraction

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	method	DCM	125207	Method of Disks, Biplane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
EF(MOD-sp2)	concept	LN	18043-0	Left Ventricular Ejection Fraction
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
	view	SRT	G-A19B	Apical two chamber
EF(MOD-sp4)	concept	LN	18043-0	Left Ventricular Ejection Fraction
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
	view	SRT	G-A19C	Apical four chamber
ESV (2D-Cubed)	concept	LN	18148-7	Left Ventricular End Systolic Volume
	method	DCM	125206	Cube Method
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
ESV (2D-Teich)	concept	LN	18148-7	Left Ventricular End Systolic Volume
	method	DCM	125209	Teichholz
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
ESV (A/L)	concept	LN	18148-7	Left Ventricular End Systolic Volume
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
ESV (MM-Cubed)	concept	LN	18148-7	Left Ventricular End Systolic Volume
	method	DCM	125206	Cube Method
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
ESV (MM-Teich)	concept	LN	18148-7	Left Ventricular End Systolic Volume
	method	DCM	125209	Teichholz
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
ESV(MOD-bp)	concept	LN	18148-7	Left Ventricular End Systolic Volume
	method	DCM	125207	Method of Disks, Biplane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
ESV(MOD-sp2)	concept	LN	18148-7	Left Ventricular End Systolic Volume
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm3	Cubic Centimeter
	view	SRT	G-A19B	Apical two chamber
ESV(MOD-sp4)	concept	LN	18148-7	Left Ventricular End Systolic Volume
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm3	Cubic Centimeter
	view	SRT	G-A19C	Apical four chamber
FS (2D-Cubed)	concept	LN	18051-3	Left Ventricular Fractional Shortening
	method	DCM	125206	Cube Method
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
FS (2D-Teich)	concept	LN	18051-3	Left Ventricular Fractional Shortening
	method	DCM	125209	Teichholz
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
FS (MM-Cubed)	concept	LN	18051-3	Left Ventricular Fractional Shortening
	method	DCM	125206	Cube Method
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
FS (MM-Teich)	concept	LN	18051-3	Left Ventricular Fractional Shortening
	method	DCM	125209	Teichholz
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
Hep. A Revs Dur Time	concept	99PMSBLUS	C12216-01	Hepatic Vein A-Wave Duration
	site	99PMSBLUS	T5200-01	Hepatic Veins
	units	UCUM	sec	Seconds
Hep. A Revs Vel	concept	LN	29474-4	Hepatic Vein Atrial Contraction Reversal Peak Velocity
	site	99PMSBLUS	T5200-01	Hepatic Veins
	units	UCUM	cm/s	Centimeter Per Second
Hepatic Dias Vel	concept	LN	29472-8	Hepatic Vein Diastolic Peak Velocity
	site	99PMSBLUS	T5200-01	Hepatic Veins
	units	UCUM	cm/s	Centimeter Per Second
Hepatic S/D	concept	LN	29473-6	Hepatic Vein Systolic to Diastolic Ratio
	site	99PMSBLUS	T5200-01	Hepatic Veins
	units	UCUM	1	no units
Hepatic Sys Vel	concept	LN	29471-0	Hepatic Vein Systolic Peak Velocity
	site	99PMSBLUS	T5200-01	Hepatic Veins

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	units	UCUM	cm/s	Centimeter Per Second
HR LV	concept	LN	8867-4	Heart rate
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	{H.B.}/min	Beats Per Minute
HR LV	concept	LN	8867-4	Heart rate
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	{H.B.}/min	Beats Per Minute
IVC Diameter	concept	LN	18006-7	Inferior Vena Cava Diameter
	mode	SRT	G-03A2	2D mode
	site	SRT	T-48600	Vena Cava
	units	UCUM	cm	Centimeter
IVCT Time	concept	SRT	G-037E	Left Ventricular Isovolumic Contraction Time
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	sec	Seconds
IVRT Time	concept	LN	18071-1	Left Ventricular Isovolumic Relaxation Time
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	sec	Seconds
IVS % (2D)	concept	LN	18054-7	Interventricular Septum % Thickening
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
IVS % (MM)	concept	LN	18054-7	Interventricular Septum % Thickening
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
IVS/LVPW (2D)	concept	LN	18155-2	Interventricular Septum to Posterior Wall Thickness Ratio
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	1	no units
IVS/LVPW (MM)	concept	LN	18155-2	Interventricular Septum to Posterior Wall Thickness Ratio
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	1	no units
IVSd (2D)	concept	LN	18154-5	Interventricular Septum Diastolic Thickness
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
IVSd (MM)	concept	LN	18154-5	Interventricular Septum Diastolic Thickness
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
IVSs (2D)	concept	LN	18158-6	Interventricular Septum Systolic Thickness
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	units	UCUM	cm	Centimeter
IVSs (MM)	concept	LN	18158-6	Interventricular Septum Systolic Thickness
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LA Dimen (2D)	concept	LN	29469-4	Left Atrium Antero-posterior Systolic Dimension
	mode	SRT	G-03A2	2D mode
	site	SRT	T-32300	Left Atrium
	units	UCUM	cm	Centimeter
LA Dimen (MM)	concept	LN	29469-4	Left Atrium Antero-posterior Systolic Dimension
	mode	SRT	G-0394	M mode
	site	SRT	T-32300	Left Atrium
	units	UCUM	cm	Centimeter
LA/Ao (2D)	concept	LN	17985-3	Left Atrium to Aortic Root Ratio
	mode	SRT	G-03A2	2D mode
	site	SRT	T-32300	Left Atrium
	units	UCUM	1	no units
LA/Ao (MM)	concept	LN	17985-3	Left Atrium to Aortic Root Ratio
	mode	SRT	G-0394	M mode
	site	SRT	T-32300	Left Atrium
	units	UCUM	1	no units
Lat A` Area VTI	concept	LN	59125-5	LV VTI A wave US
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	cm	Centimeter
Lat A` Vel	concept	SRT	G-037C	LV Peak Diastolic Tissue Velocity During Atrial Systole
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	cm/s	Centimeter Per Second
Lat Acc Time	concept	LN	20168-1	Acceleration Time
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	sec	Seconds
Lat Dec Time	concept	LN	20217-6	Deceleration Time
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	sec	Seconds
Lat E` Area VTI	concept	LN	59124-8	LV VTI E wave US
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	cm	Centimeter

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
Lat E` Vel	concept	SRT	G-037A	Left Ventricular Peak Early Diastolic Tissue Velocity
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	cm/s	Centimeter Per Second
Lat IVCT Time	concept	SRT	G-037E	Left Ventricular Isovolumic Contraction Time
	mode	99PMSBLUS	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	sec	Seconds
Lat IVRT Time	concept	LN	18071-1	Left Ventricular Isovolumic Relaxation Time
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	sec	Seconds
Lat S Vel	concept	SRT	G-037D	Left Ventricular Peak Systolic Tissue Velocity
	mode	99PMSBLUS	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	cm/s	Centimeter Per Second
Late Dias Slope	concept	99PMSBLUS	C12209-01	Late Diastolic Slope
	mode	SRT	G-0394	M mode
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	cm/s	Centimeter Per Second
LPA Diam	concept	LN	18019-0	Left Pulmonary Artery Diameter
	mode	SRT	G-03A2	2D mode
	site	SRT	T-44000	Pulmonary artery
	units	UCUM	cm	Centimeter
LV Dp/dt	concept	LN	18035-6	Mitral Regurgitation dP/dt derived from Mitral Reg velocity
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	mm[Hg]/s	mmHg/s
LV EDA	concept	SRT	G-0375	Left Ventricular Diastolic Area
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm2	Square Centimeter
LV ESA	concept	SRT	G-0374	Left Ventricular Systolic Area
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm2	Square Centimeter
LV ET Time	concept	LN	20222-6	Eject Time
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	sec	Seconds
LV FAC	concept	SRT	G-0376	Left Ventricular Fractional Area Change
	mode	SRT	G-03A2	2D mode
	site	SRT	T-32600	Left Ventricle

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	units	UCUM	%	Percent
LV Mass (A/L)	concept	LN	18087-7	Left Ventricle Mass
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	g	Gram
LV Mass (Cubed)	concept	LN	18087-7	Left Ventricle Mass
	method	DCM	125206	Cube Method
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	g	Gram
LV Mass Index (A/L)	concept	99PMSBLUS	C12203-01	Left Ventricle Mass Index
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	g/m2	g/m2
LV Mass Index(Cubed)	concept	99PMSBLUS	C12203-01	Left Ventricle Mass Index
	method	DCM	125206	Cube Method
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	g/m2	g/m2
LV PEP Time	concept	LN	59085-1	Pre-Eject Time
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	sec	Seconds
LV PEP/ET	concept	99PMSBLUS	C12203-04	PEP/ET
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	1	no units
LV R-R	concept	LN	8867-4	Heart rate
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	{H.B.}/min	Beats Per Minute
LVAd (A/L)	concept	SRT	G-0375	Left Ventricular Diastolic Area
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm2	Square Centimeter
LVAd ap2	concept	SRT	G-0375	Left Ventricular Diastolic Area
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm2	Square Centimeter
	view	SRT	G-A19B	Apical two chamber
LVAd ap4	concept	SRT	G-0375	Left Ventricular Diastolic Area
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm2	Square Centimeter
	view	SRT	G-A19C	Apical four chamber

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
LVAd Sax Endo Area	concept	SRT	G-0375	Left Ventricular Diastolic Area
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm2	Square Centimeter
	view	SRT	G-039B	Parasternal short axis at the Papillary Muscle level
LVAd Sax Epi Area	concept	SRT	G-0379	Left Ventricle Epicardial Diastolic Area, psax pap view
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm2	Square Centimeter
	view	SRT	G-039B	Parasternal short axis at the Papillary Muscle level
LVAs (A/L)	concept	SRT	G-0374	Left Ventricular Systolic Area
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm2	Square Centimeter
LVAs ap2	concept	SRT	G-0374	Left Ventricular Systolic Area
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm2	Square Centimeter
	view	SRT	G-A19B	Apical two chamber
LVAs ap4	concept	SRT	G-0374	Left Ventricular Systolic Area
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm2	Square Centimeter
	view	SRT	G-A19C	Apical four chamber
LVIDd (2D)	concept	LN	29436-3	Left Ventricle Internal End Diastolic Dimension
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LVIDd (MM)	concept	LN	29436-3	Left Ventricle Internal End Diastolic Dimension
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LVIDs (2D)	concept	LN	29438-9	Left Ventricle Internal Systolic Dimension
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LVIDs (MM)	concept	LN	29438-9	Left Ventricle Internal Systolic Dimension
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LVLd (A/L)	concept	LN	18077-8	Left Ventricle diastolic major axis
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LVLd Apical	concept	LN	18077-8	Left Ventricle diastolic major axis
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LVLs (A/L)	concept	LN	18076-0	Left Ventricle systolic major axis
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LVOT Acc Time	concept	LN	20168-1	Acceleration Time
	site	SNM3	T-32600	Left Ventricle
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	sec	Seconds
LVOT Acc Time Slope	concept	LN	20167-3	Acceleration Slope
	site	SNM3	T-32600	Left Ventricle
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	cm/s2	Centimeter Per Second Square
LVOT Area	concept	SRT	G-038E	Cardiovascular Orifice Area
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	cm2	Square Centimeter
LVOT Diam	concept	SRT	G-038F	Cardiovascular Orifice Diameter
	site	SNM3	T-32600	Left Ventricle
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	cm	Centimeter
LVOT Max PG	concept	LN	20247-3	Peak Gradient
	site	SNM3	T-32600	Left Ventricle
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	mm[Hg]	Millimeters Of Mercury
LVOT Mean PG	concept	LN	20256-4	Mean Gradient
	site	SNM3	T-32600	Left Ventricle
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	mm[Hg]	Millimeters Of Mercury
LVOT Vmax	concept	LN	20351-3	Peak Velocity
	site	SNM3	T-32600	Left Ventricle
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	cm/s	Centimeter Per Second
LVOT Vmean	concept	LN	20352-1	Time Averaged Mean Velocity
	site	SNM3	T-32600	Left Ventricle
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	cm/s	Centimeter Per Second
LVOT VTI	concept	LN	20354-7	Velocity Time Integral
	site	SNM3	T-32600	Left Ventricle

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	cm	Centimeter
LVPW % (2D)	concept	LN	18053-9	Left Ventricle Posterior Wall % Thickening
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
LVPW % (MM)	concept	LN	18053-9	Left Ventricle Posterior Wall % Thickening
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	%	Percent
LVPWd (2D)	concept	LN	18152-9	Left Ventricle Posterior Wall Diastolic Thickness
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LVPWd (MM)	concept	LN	18152-9	Left Ventricle Posterior Wall Diastolic Thickness
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LVPWs (2D)	concept	LN	18156-0	Left Ventricle Posterior Wall Systolic Thickness
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
LVPWs (MM)	concept	LN	18156-0	Left Ventricle Posterior Wall Systolic Thickness
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	cm	Centimeter
Med A` Area VTI	concept	LN	59125-5	LV VTI A wave US
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	cm	Centimeter
Med A` Vel	concept	SRT	G-037C	LV Peak Diastolic Tissue Velocity During Atrial Systole
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	cm/s	Centimeter Per Second
Med Acc Time	concept	LN	20168-1	Acceleration Time
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	sec	Seconds
Med Dec Time	concept	LN	20217-6	Deceleration Time
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	sec	Seconds

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
Med E` Area VTI	concept	LN	59124-8	Area under LV E Tissue Velocity
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	cm	Centimeter
Med E` Vel	concept	SRT	G-037A	Left Ventricular Peak Early Diastolic Tissue Velocity
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	cm/s	Centimeter Per Second
Med IVCT Time	concept	SRT	G-037E	Left Ventricular Isovolumic Contraction Time
	mode	99PMSBLUS	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	sec	Seconds
Med IVRT Time	concept	LN	18071-1	Left Ventricular Isovolumic Relaxation Time
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	sec	Seconds
Med S Vel	concept	SRT	G-037D	Left Ventricular Peak Systolic Tissue Velocity
	mode	99PMSBLUS	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	cm/s	Centimeter Per Second
MPA Diam	concept	LN	18020-8	Main Pulmonary Artery Diameter
	mode	SRT	G-03A2	2D mode
	site	SRT	T-44000	Pulmonary artery
	units	UCUM	cm	Centimeter
MR Alias Vel	concept	LN	59130-5	Alias Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MR ERO	concept	SRT	G-038E	Cardiovascular Orifice Area
	direction	SRT	G-0367	Regurgitant Flow
	method	DCM	125216	Proximal Isovelocity Surface Area
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm2	Square Centimeter
MR Flow Rate	concept	LN	34141-2	Peak Instantaneous Flow Rate
	direction	SRT	G-0367	Regurgitant Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	ml/sec	ml/sec
MR Fraction	concept	SRT	G-0390	Regurgitant Fraction
	direction	SRT	G-0367	Regurgitant Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	%	Percent

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
MR Max PG	concept	LN	20247-3	Peak Gradient
	direction	SRT	G-0367	Regurgitant Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
MR Mean PG	concept	LN	20256-4	Mean Gradient
	direction	SRT	G-0367	Regurgitant Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
MR Radius	concept	LN	59102-4	Flow Radius
	direction	SRT	G-0367	Regurgitant Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm	Centimeter
MR Vmax	concept	LN	20351-3	Peak Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MR Vmean	concept	LN	20352-1	Time Averaged Mean Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MR Volume	concept	LN	33878-0	Volume Flow
	direction	SRT	G-0367	Regurgitant Flow
	method	DCM	125216	Proximal Isovelocity Surface Area
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	ml	Milliliter
MR VTI	concept	LN	20354-7	Velocity Time Integral
	direction	SRT	G-0367	Regurgitant Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm	Centimeter
MV A Dur Time	concept	SRT	G-0385	Mitral Valve A-Wave Duration
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	sec	Seconds
MV A-C Interval Time	concept	99PMSBLUS	C12207-04	Mitral Valve A-C Interval
	mode	SRT	G-0394	M mode
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	sec	Seconds
MV Acc Time	concept	LN	20168-1	Acceleration Time
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	sec	Seconds
MV Acc Time Slope	concept	LN	20167-3	Acceleration Slope
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s2	Centimeter Per Second Square
MV Alias Vel	concept	LN	59130-5	Alias Velocity
	direction	SRT	R-42047	Antegrade Flow

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MV Area (Planim)	concept	SRT	G-038E	Cardiovascular Orifice Area
	method	DCM	125220	Planimetry
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm2	Square Centimeter
MV D-E Exc Dist	concept	99PMSBLUS	C12207-01	Mitral Valve D-E Excursion
	mode	SRT	G-0394	M mode
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm	Centimeter
MV D-E Slope	concept	99PMSBLUS	C12207-02	Mitral Valve D-E Slope
	mode	SRT	G-0394	M mode
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MV Dec Slope	concept	LN	20216-8	Deceleration Slope
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s2	Centimeter Per Second Square
MV Dec Time	concept	LN	20217-6	Deceleration Time
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	sec	Seconds
MV Diam	concept	SRT	G-038F	Cardiovascular Orifice Diameter
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm	Centimeter
MV E/A	concept	LN	18038-0	Mitral Valve E to A Ratio
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	1	no units
MV E-E Sep	concept	99PMSBLUS	C12207-03	Mitral Valve E-E Separation
	mode	SRT	G-0394	M mode
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm	Centimeter
MV E-F Slope	concept	LN	18040-6	Mitral Valve E-F Slope by M-Mode
	mode	SRT	G-0394	M mode
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MV EPSS	concept	LN	18036-4	Mitral Valve EPSS, E wave
	mode	SRT	G-0394	M mode
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm	Centimeter
MV Max PG	concept	LN	20247-3	Peak Gradient
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
MV Mean PG	concept	LN	20256-4	Mean Gradient
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
MV P1/2t	concept	LN	20280-4	Pressure Half-Time
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	msec	Millisecond
MV P1/2t Vmax	concept	99PMSBLUS	C12222-03	Pressure Half-Time Peak velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MV Peak A Vel	concept	LN	17978-8	Mitral Valve A-Wave Peak Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MV Peak E Vel	concept	LN	18037-2	Mitral Valve E-Wave Peak Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MV Radius	concept	LN	59102-4	Flow Radius
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm	Centimeter
MV R-R	concept	LN	8867-4	Heart rate
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	{H.B.}/min	Beats Per Minute
MV Vmax	concept	LN	20351-3	Peak Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MV Vmean	concept	LN	20352-1	Time Averaged Mean Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm/s	Centimeter Per Second
MV VTI	concept	LN	20354-7	Velocity Time Integral
	direction	SRT	R-42047	Antegrade Flow
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm	Centimeter
MVA (P1/2t)	concept	SRT	G-038E	Cardiovascular Orifice Area
	method	DCM	125210	Area by Pressure Half-Time
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm2	Square Centimeter
MVA (PISA)	concept	SRT	G-038E	Cardiovascular Orifice Area
	method	DCM	125216	Proximal Isovelocity Surface Area
	site	SNM3	T-35300	Mitral Valve

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	units	UCUM	cm2	Square Centimeter
MVA (VTI)	concept	SRT	G-038E	Cardiovascular Orifice Area
	method	DCM	125215	Continuity Equation by Velocity Time Integral
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm2	Square Centimeter
PI End Dias PG	concept	LN	20247-3	Peak Gradient
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
PI End Dias Vel	concept	LN	11653-3	End Diastolic Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	cm/s	Centimeter Per Second
PISA (AI)	concept	99PMSBLUS	C12211-01	Aortic Valve Flow Area
	direction	SRT	G-0367	Regurgitant Flow
	method	DCM	125216	Proximal Isovelocity Surface Area
	site	SRT	T-35400	Aortic Valve
	units	UCUM	cm2	Square Centimeter
PISA (MR)	concept	99PMSBLUS	C12207-06	Mitral Valve Flow Area
	direction	SRT	G-0367	Regurgitant Flow
	method	DCM	125216	Proximal Isovelocity Surface Area
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	cm2	Square Centimeter
PISA (TR)	concept	99PMSBLUS	C12208-05	Tricuspid Valve Flow Area
	direction	SRT	G-0367	Regurgitant Flow
	method	DCM	125216	Proximal Isovelocity Surface Area
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm2	Square Centimeter
Pulm A Revs Dur Time	concept	SRT	G-038B	Pulmonary Vein A-Wave Duration
	site	SRT	T-48581	Pulmonary Venous Structure
	units	UCUM	sec	Seconds
Pulm A Revs Vel	concept	LN	29453-8	Pulmonary Vein Atrial Contraction Reversal Peak Velocity
	site	SRT	T-48581	Pulmonary Venous Structure
	units	UCUM	cm/s	Centimeter Per Second
Pulm Dias Vel	concept	LN	29451-2	Pulmonary Vein Diastolic Peak Velocity
	site	SRT	T-48581	Pulmonary Venous Structure
	units	UCUM	cm/s	Centimeter Per Second
Pulm S/D	concept	LN	29452-0	Pulmonary Vein Systolic to Diastolic Ratio
	site	SRT	T-48581	Pulmonary Venous Structure
	units	UCUM	1	no units
Pulm Sys Vel	concept	LN	29450-4	Pulmonary Vein Systolic Peak Velocity
	site	SRT	T-48581	Pulmonary Venous Structure
	units	UCUM	cm/s	Centimeter Per Second
PV Acc Time	concept	LN	20168-1	Acceleration Time
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35200	Pulmonic Valve

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	units	UCUM	sec	Seconds
PV Acc Time Slope	concept	LN	20167-3	Acceleration Slope
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	cm/s2	Centimeter Per Second Square
PV Max PG	concept	LN	20247-3	Peak Gradient
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
PV Mean PG	concept	LN	20256-4	Mean Gradient
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
PV R-R	concept	LN	8867-4	Heart rate
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	{H.B.}/min	Beats Per Minute
PV Vmax	concept	LN	20351-3	Peak Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	cm/s	Centimeter Per Second
PV Vmean	concept	LN	20352-1	Time Averaged Mean Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	cm/s	Centimeter Per Second
PV VTI	concept	LN	20354-7	Velocity Time Integral
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	cm	Centimeter
PVA (Vmax)	concept	SRT	G-038E	Cardiovascular Orifice Area
	method	DCM	125214	Continuity Equation by Peak Velocity
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	cm2	Square Centimeter
PVA (VTI)	concept	SRT	G-038E	Cardiovascular Orifice Area
	method	DCM	125215	Continuity Equation by Velocity Time Integral
	site	SRT	T-35200	Pulmonic Valve
	units	UCUM	cm2	Square Centimeter
Qp/Qs	concept	LN	29462-9	Pulmonary-to-Systemic Shunt Flow Ratio
	site	SRT	P5-30031	Cardiac Shunt Study
	units	UCUM	1	no units
R to AV Closure	concept	99PMSBLUS	C12211-07	R Wave to Aortic Valve Closure Time
	site	SRT	T-35400	Aortic Valve
	units	UCUM	msec	Millisecond
R to AV Open	concept	99PMSBLUS	C12211-06	R Wave to Aortic Valve Opening Time
	site	SRT	T-35400	Aortic Valve
	units	UCUM	msec	Millisecond
R to MV Closure	concept	99PMSBLUS	C12207-42	R Wave to Mitral Valve Closure Time

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	msec	Millisecond
R to MV Open	concept	99PMSBLUS	C12207-41	R Wave to Mitral Valve Opening Time
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	msec	Millisecond
RA Pressure	concept	LN	18070-3	Right Atrium Systolic Pressure
	site	SRT	T-32200	Right Atrium
	units	UCUM	mm[Hg]	Millimeters Of Mercury
RPA Diam	concept	LN	18021-6	Right Pulmonary Artery Diameter
	mode	SRT	G-03A2	2D mode
	site	SRT	T-44000	Pulmonary artery
	units	UCUM	cm	Centimeter
RV EDA	concept	99PMSBLUS	C12204-01	Right Ventricular Diastolic Area
	mode	SRT	G-03A2	2D mode
	site	SRT	T-32500	Right Ventricle
	units	UCUM	cm2	Square Centimeter
RV ET Time	concept	LN	20222-6	Eject Time
	mode	SRT	G-0394	M mode
	site	SRT	T-32500	Right Ventricle
	units	UCUM	sec	Seconds
RV/LV	concept	99PMSBLUS	C12204-04	Right and Left Ventricular End Diastolic Diameter Ratio
	mode	SRT	G-03A2	2D mode
	site	SRT	T-32500	Right Ventricle
	units	UCUM	1	no units
RV ESA	concept	99PMSBLUS	C12204-02	Right Ventricular Systolic Area
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32500	Right Ventricle
	units	UCUM	cm2	Square Centimeter
RV FAC	concept	99PMSBLUS	C12204-03	Right Ventricular Fractional Area Change
	mode	SRT	G-03A2	2D mode
	site	SRT	T-32500	Right Ventricle
	units	UCUM	%	Percent
RV PEP Time	concept	99PMSBLUS	C12203-03	Pre-Eject Time
	mode	SRT	G-0394	M mode
	site	SRT	T-32500	Right Ventricle
	units	UCUM	sec	Seconds
RV PEP/ET	concept	99PMSBLUS	C12203-04	PEP/ET
	site	SRT	T-32500	Right Ventricle
	units	UCUM	1	no units
RVAWd (2D)	concept	LN	18153-7	Right Ventricular Anterior Wall Diastolic Thickness
	mode	SRT	G-03A2	2D mode
	site	SRT	T-32500	Right Ventricle
	units	UCUM	cm	Centimeter
RVAWd (MM)	concept	LN	18153-7	Right Ventricular Anterior Wall Diastolic Thickness
	mode	SRT	G-0394	M mode
	site	SRT	T-32500	Right Ventricle

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	units	UCUM	cm	Centimeter
RVIDd (2D)	concept	LN	20304-2	Right Ventricular Internal Diastolic Dimension
	mode	SRT	G-03A2	2D mode
	site	SRT	T-32500	Right Ventricle
	units	UCUM	cm	Centimeter
RVIDd (MM)	concept	LN	20304-2	Right Ventricular Internal Diastolic Dimension
	mode	SRT	G-0394	M mode
	site	SRT	T-32500	Right Ventricle
	units	UCUM	cm	Centimeter
RVOT Area	concept	SRT	G-038E	Cardiovascular Orifice Area
	mode	SRT	G-03A2	2D mode
	site	SRT	T-32500	Right Ventricle
	target	SNM3	T-32550	Right Ventricle Outflow Tract
	units	UCUM	cm2	Square Centimeter
RVOT Diam	concept	SRT	G-038F	Cardiovascular Orifice Diameter
	mode	SRT	G-03A2	2D mode
	site	SRT	T-32500	Right Ventricle
	target	SNM3	T-32550	Right Ventricle Outflow Tract
	units	UCUM	cm	Centimeter
RVOT Max PG	concept	LN	20247-3	Peak Gradient
	site	SRT	T-32500	Right Ventricle
	target	SNM3	T-32550	Right Ventricle Outflow Tract
	units	UCUM	mm[Hg]	Millimeters Of Mercury
RVOT Mean PG	concept	LN	20256-4	Mean Gradient
	site	SRT	T-32500	Right Ventricle
	target	SNM3	T-32550	Right Ventricle Outflow Tract
	units	UCUM	mm[Hg]	Millimeters Of Mercury
RVOT Vmax	concept	LN	20351-3	Peak Velocity
	site	SRT	T-32500	Right Ventricle
	target	SNM3	T-32550	Right Ventricle Outflow Tract
	units	UCUM	cm/s	Centimeter Per Second
RVOT Vmean	concept	LN	20352-1	Time Averaged Mean Velocity
	site	SRT	T-32500	Right Ventricle
	target	SNM3	T-32550	Right Ventricle Outflow Tract
	units	UCUM	cm/s	Centimeter Per Second
RVOT VTI	concept	LN	20354-7	Velocity Time Integral
	site	SRT	T-32500	Right Ventricle
	target	SNM3	T-32550	Right Ventricle Outflow Tract
	units	UCUM	cm	Centimeter
RVSP	concept	SRT	G-0380	Right Ventricular Peak Systolic Pressure
	site	SRT	T-32500	Right Ventricle
	units	UCUM	mm[Hg]	Millimeters Of Mercury
SI (2D-Cubed)	concept	SRT	F-00078	Stroke Index
	method	DCM	125206	Cube Method
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	units	UCUM	ml/m2	ml/m2
SI (2D-Teich)	concept	SRT	F-00078	Stroke Index
	method	DCM	125209	Teichholz
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml/m2	ml/m2
SI (A/L)	concept	SRT	F-00078	Stroke Index
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml/m2	ml/m2
SI (MM-Cubed)	concept	SRT	F-00078	Stroke Index
	method	DCM	125206	Cube Method
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml/m2	ml/m2
SI (MM-Teich)	concept	SRT	F-00078	Stroke Index
	method	DCM	125209	Teichholz
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml/m2	ml/m2
SI(MOD-bp)	concept	SRT	F-00078	Stroke Index
	method	DCM	125207	Method of Disks, Biplane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml/m2	ml/m2
SI(MOD-sp2)	concept	SRT	F-00078	Stroke Index
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml/m2	ml/m2
	view	SRT	G-A19B	Apical two chamber
SI(MOD-sp4)	concept	SRT	F-00078	Stroke Index
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml/m2	ml/m2
	view	SRT	G-A19C	Apical four chamber
SV (2D-Cubed)	concept	SRT	F-32120	Stroke Volume
	method	DCM	125206	Cube Method
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
SV (2D-Teich)	concept	SRT	F-32120	Stroke Volume
	method	DCM	125209	Teichholz
	mode	SRT	G-03A2	2D mode

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
SV (A/L)	concept	SRT	F-32120	Stroke Volume
	method	DCM	125226	Single Plane Ellipse
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
SV (LVOT)	concept	SRT	F-32120	Stroke Volume
	site	SNM3	T-32600	Left Ventricle
	target	SNM3	T-32650	Left Ventricle Outflow Tract
	units	UCUM	ml	Milliliter
SV (MM-Cubed)	concept	SRT	F-32120	Stroke Volume
	method	DCM	125206	Cube Method
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
SV (MM-Teich)	concept	SRT	F-32120	Stroke Volume
	method	DCM	125209	Teichholz
	mode	SRT	G-0394	M mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
SV (MV)	concept	SRT	F-32120	Stroke Volume
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	ml	Milliliter
SV (RVOT)	concept	SRT	F-32120	Stroke Volume
	site	SRT	T-32500	Right Ventricle
	target	SNM3	T-32550	Right Ventricle Outflow Tract
	units	UCUM	ml	Milliliter
SV (TV)	concept	SRT	F-32120	Stroke Volume
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	ml	Milliliter
SV(MOD-bp)	concept	SRT	F-32120	Stroke Volume
	method	DCM	125207	Method of Disks, Biplane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
SV(MOD-sp2)	concept	SRT	F-32120	Stroke Volume
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle
	units	UCUM	ml	Milliliter
	view	SRT	G-A19B	Apical two chamber
SV(MOD-sp4)	concept	SRT	F-32120	Stroke Volume
	method	DCM	125208	Method of Disks, Single Plane
	mode	SRT	G-03A2	2D mode
	site	SNM3	T-32600	Left Ventricle

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	units	UCUM	ml	Milliliter
	view	SRT	G-A19C	Apical four chamber
Tei Index	concept	99PMSBLUS	C12207-05	Tei Index
	site	SNM3	T-35300	Mitral Valve
	units	UCUM	1	no units
Time to Lat E`	concept	LN	59096-8	Time to Left Ventricle E Tissue Velocity
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	sec	Seconds
Time to Lat S	concept	LN	59095-0	Time to Left Ventricle S Tissue Velocity
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0392	Lateral Mitral Annulus
	units	UCUM	sec	Seconds
Time to Med E`	concept	LN	59096-8	Time to Left Ventricle E Tissue Velocity
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	sec	Seconds
Time to Med S	concept	LN	59095-0	Time to Left Ventricle S Tissue Velocity
	mode	SRT	P5-B0128	Tissue Doppler Imaging
	site	SNM3	T-32600	Left Ventricle
	target	SRT	G-0391	Medial Mitral Annulus
	units	UCUM	sec	Seconds
TR Alias Vel	concept	LN	59130-5	Alias Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s	Centimeter Per Second
TR ERO	concept	SRT	G-038E	Cardiovascular Orifice Area
	direction	SRT	G-0367	Regurgitant Flow
	method	DCM	125216	Proximal Isovelocity Surface Area
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm2	Square Centimeter
TR Flow Rate	concept	LN	34141-2	Peak Instantaneous Flow Rate
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	ml/sec	ml/sec
TR Fraction	concept	SRT	G-0390	Regurgitant Fraction
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	%	Percent
TR Max PG	concept	LN	20247-3	Peak Gradient
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
TR Mean PG	concept	LN	20256-4	Mean Gradient
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
TR Radius	concept	LN	59102-4	Flow Radius
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm	Centimeter
TR Vmax	concept	LN	20351-3	Peak Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s	Centimeter Per Second
TR Vmean	concept	LN	20352-1	Time Averaged Mean Velocity
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s	Centimeter Per Second
TR Volume	concept	LN	33878-0	Volume Flow
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	ml	Milliliter
TR VTI	concept	LN	20354-7	Velocity Time Integral
	direction	SRT	G-0367	Regurgitant Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm	Centimeter
TV A-C Interval Time	concept	99PMSBLUS	C12208-04	Tricuspid Valve A-C Interval
	mode	SRT	G-0394	M mode
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	sec	Seconds
TV Acc Time	concept	LN	20168-1	Acceleration Time
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	sec	Seconds
TV Acc Time Slope	concept	LN	20167-3	Acceleration Slope
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s2	Centimeter Per Second Square
TV Alias Vel	concept	LN	59130-5	Alias Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s	Centimeter Per Second
TV Area	concept	SRT	G-038E	Cardiovascular Orifice Area
	mode	SRT	G-03A2	2D mode
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm2	Square Centimeter
TV D-E Exc Dist	concept	99PMSBLUS	C12208-01	Tricuspid Valve D-E Excursion
	mode	SRT	G-0394	M mode

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm	Centimeter
TV D-E Slope	concept	99PMSBLUS	C12208-02	Tricuspid Valve D-E Slope
	mode	SRT	G-0394	M mode
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s	Centimeter Per Second
TV Diam	concept	SRT	G-038F	Cardiovascular Orifice Diameter
	mode	SRT	G-03A2	2D mode
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm	Centimeter
TV E/A	concept	LN	18039-8	Tricuspid Valve E to A Ratio
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	1	no units
TV E-F Slope	concept	99PMSBLUS	C12208-03	Tricuspid Valve E-F Slope
	mode	SRT	G-0394	M mode
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s	Centimeter Per Second
TV Max PG	concept	LN	20247-3	Peak Gradient
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
TV Mean PG	concept	LN	20256-4	Mean Gradient
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	mm[Hg]	Millimeters Of Mercury
TV Peak A Vel	concept	LN	18030-7	Tricuspid Valve A Wave Peak Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s	Centimeter Per Second
TV Peak E Vel	concept	LN	18031-5	Tricuspid Valve E Wave Peak Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s	Centimeter Per Second
TV Radius	concept	LN	59102-4	Flow Radius
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm	Centimeter
TV R-R	concept	LN	8867-4	Heart rate
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	{H.B.}/min	Beats Per Minute
TV Vmax	concept	LN	20351-3	Peak Velocity
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s	Centimeter Per Second
TV Vmean	concept	LN	20352-1	Time Averaged Mean Velocity
	direction	SRT	R-42047	Antegrade Flow

HD15 3.0.x Report Label	MOD Type	CSD	CV	CM
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm/s	Centimeter Per Second
TV VTI	concept	LN	20354-7	Velocity Time Integral
	direction	SRT	R-42047	Antegrade Flow
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm	Centimeter
TVA (PISA)	concept	SRT	G-038E	Cardiovascular Orifice Area
	method	DCM	125216	Proximal Isovelocity Surface Area
	site	SRT	T-35100	Tricuspid Valve
	units	UCUM	cm2	Square Centimeter

A.4.8 Cardiac (Adult Echo) Meas/Calcs NOT exported in Dicom

The following labels are not exported in DICOM Structured Reports for Cardiac (Adult Echo).

HD15 3.0.x Label
AI AT Max PG
AI AT Vmax
AI DS Max PG
AI DS P1/2t
AI DS Vmax
AI End Dias PG
AI P1/2t Max PG
AI P1/2t Slope
AI P1/2t Time
AI P1/2t Vmax
Ao Arch Area
Ao Isthmus Area
AoR Area
Asc Ao Area
AV Area Circ
AV AT Max PG
AV AT Vmax
AV DT Max PG
AV DT P1/2t
AV DT Slope
AV DT Vmax
B-C Slope Dist
B-C Time
Desc Ao Area
Hep. A Revs Dur Max PG
Hep. A Revs Dur P1/2t
Hep. A Revs Dur Slope
Hep. A Revs Dur Vmax
Hep. A Revs PG
Hepatic Dias PG

HD15 3.0.x Label
Hepatic Sys PG
IVCT P1/2t
IVCT Slope
IVCT Slope Max PG
IVCT Slope Vmax
IVRT P1/2t
IVRT Slope
IVRT Slope Max PG
IVRT Slope Vmax
LA Area
Lat A` Area Vmax
Lat A` Area Vmean
Lat AT Slope
Lat AT Vmax
Lat DT P1/2t
Lat DT Slope
Lat DT Vmax
Lat E` Area Vmax
Lat E` Area Vmean
Lat IVCT P1/2t
Lat IVCT Slope
Lat IVCT Vmax
Lat IVRT P1/2t
Lat IVRT Slope
Lat IVRT Vmax
Late Dias Slope Dist
Late Dias Time
LPA Area
LV ET Dist
LV ET Slope

HD15 3.0.x Label
LV PEP Dist
LV PEP Slope
LVAd Sax Endo Circ
LVAd Sax Epi Circ
LVLd Apical Area
LVOT Area
LVOT AT Max PG
LVOT AT Vmax
Med A` Area Vmax
Med A` Area Vmean
Med AT Slope
Med AT Vmax
Med DT P1/2t
Med DT Slope
Med DT Vmax
Med E` Area Vmax
Med E` Area Vmean
Med IVCT P1/2t
Med IVCT Slope
Med IVCT Vmax
Med IVRT P1/2t
Med IVRT Slope
Med IVRT Vmax
MPA Area
MV A Dur MaxPG
MV A Dur P1/2t
MV A Dur Slope
MV A Dur Vmax
MV A-C Int Dist
MV A-C Int Slope

HD15 3.0.x Label
MV Area
MV Area
MV Area (Planim) Circ
MV AT MaxPG
MV AT Vmax
MV D-E Dist
MV D-E Exc Time
MV D-E Time
MV DS MaxPG
MV DS P1/2t
MV DS Time
MV DS Vmax
MV DT MaxPG
MV DT P1/2t
MV DT Slope
MV DT Vmax
MV E-F Dist

HD15 3.0.x Label
MV E-F Time
MV P1/2t MaxPG
MV P1/2t Slope
MV P1/2t Time
MV Peak A PG
MV Peak E PG
Pulm A Revs Dur Max PG
Pulm A Revs Dur P1/2t
Pulm A Revs Dur Slope
Pulm A Revs Dur Vmax
Pulm A Revs PG
Pulm Dias PG
Pulm Sys PG
PV AT Max PG
PV AT Vmax
RPA Area
RV ET Dist

HD15 3.0.x Label
RV ET Slope
RV PEP Dist
RV PEP Slope
RVOT Area
TV A-C Int Dist
TV A-C Int Slope
TV Area
TV AT Max PG
TV AT Vmax
TV D-E Dist
TV D-E Exc Time
TV D-E Time
TV E-F Dist
TV E-F Time
TV Peak A PG
TV Peak E PG

A.4.9 Units Codes

HD15 3.0.x makes use of the following codes for Units associated with the exported measurements.

CSD	CV	CM
UCUM	%	Percent
UCUM	{H.B}/min	Beats Per Minute
UCUM[1.4]	cm	Centimeter
UCUM[1.4]	cm/s	Centimeter Per Second
UCUM[1.4]	cm/s2	Centimeter Per Second Square
UCUM[1.4]	cm2	Square Centimeter
UCUM	cm3	Cubic Centimeter
UCUM[1.4}	g	Gram
UCUM[1.4}	g/m2	g/m2
UCUM[1.4]	l/min	Litre Per Minute
UCUM	l/min/m2	l/min/m2
UCUM[1.4]	ml	Milliliter
UCUM	ml/m2	ml/m2
UCUM[1.4]	mm[Hg]	Millimeters Of Mercury
UCUM	mm[Hg]/s	mmHg/s
UCUM[1.4]	msec	Millisecond
UCUM	sec	Seconds

A.5 PEDIATRIC ECHOCARDIOGRAPHY STRUCTURED REPORT TEMPLATE

HD15 3.0.x implements the Pediatric Echocardiography Template (TID 5220) from the DICOM standard, part 16. This appendix describes the scope and manner that HD15 3.0.x measurements appear in DICOM SR.

Measurements and calculations performed for Cardiac→Ped Echo studies will lead to creation of “Pediatric Cardiac Ultrasound Report” structured report documents. Measurements can be performed by pressing the ‘Calc’ key on HD15 3.0.x control panel and selecting the Cardiac (Ped Echo) analysis package. Measurements and calculations available in the menu can be configured through the setup application. It is also possible to configure the measurement unit (Metric or U.S).

All concepts with value type (VT) NUM will always have a ‘MeasurementUnitCodeSequence’ that specifies the unit of the measurement. The CSD for all units will be UCUM (Unified Code for Units) and CV and CM will be based on application configuration and will confirm to UCUM standards.

A.5.1 Template specific conformance for TID 5220

This template forms the top of a content tree that allows an ultrasound application to describe the results of a Cardiac Ultrasound imaging procedure.

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	DCID (12245) Cardiac Ultrasound Report Titles	
2	>	HAS CONCEPT MOD	INCLUDE	DTID (1204) Language of Content Item and Descendants	
3	>	HAS OBS CONTEXT	INCLUDE	DTID (1001) Observation Context	
4	>	CONTAINS	CONTAINER	EV (121109, DCM, “Indications for Procedure”)	
5	>>	CONTAINS	CODE	EV (121071, DCM, “Finding”)	
6	>>	CONTAINS	TEXT	EV (121071, DCM, “Finding”)	
7	>	CONTAINS	INCLUDE	DTID (3802) Cardiovascular Patient History	
8	>	CONTAINS	INCLUDE	DTID (3602) Cardiovascular Patient Characteristics	
9	>	CONTAINS	INCLUDE	DTID (5225) Cardiac Ultrasound Fetal Characteristics	
10	>	CONTAINS	INCLUDE	DTID (5226) Cardiac Ultrasound Summary Section	
11	>	CONTAINS	INCLUDE	DTID (5227) Cardiac Ultrasound Fetal Summary Section	
12	>	CONTAINS	CONTAINER	(111028, DCM, “Image Library”)	
13	>>	CONTAINS	IMAGE	No purpose of reference	
14	>	CONTAINS	INCLUDE	DTID (5221) Cardiac Ultrasound Pediatric Measurement Section	
15	>	CONTAINS	INCLUDE	TID (5228) Cardiac Ultrasound Fetal Measurement Section	

A.5.1.1 Cardiovascular Patient Characteristics (TID 3606)

Contents of the following table may be present in the report if entered in Patient Data Entry

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	EV (121118, DCM, “Patient Characteristics”)	
2	>	CONTAINS	NUM	(121033, DCM, "Subject Age")	From Patient Data Entry
3	>	CONTAINS	CODE	(121032, DCM, "Subject Sex")	From Patient Data Entry

4	>	CONTAINS	NUM	(8302-2, LN, "Patient Height")	From Patient Data Entry
5	>	CONTAINS	NUM	(29463-7, LN, "Patient Weight")	From Patient Data Entry
6	>	CONTAINS	NUM	(8277-6,LN,"Body Surface Area")	From Patient Data Entry
7	>>	Inferred From	CODE	(8278-4,LN,"Body Surface Area Formula")	
8	>	CONTAINS	NUM	(F-008EC, SRT, "Systolic Blood Pressure")	From Patient Data Entry
9	>	CONTAINS	NUM	(F-008ED, SRT, "Diastolic Blood Pressure")	From Patient Data Entry
10	>	CONTAINS	TEXT	(121029, DCM, "Subject Name")	From Patient Data Entry
11	>	CONTAINS	TEXT	(121030, DCM, "Subject ID")	From Patient Data Entry
12	>	CONTAINS	TEXT	(121031, DCM, "Subject Birth Date")	From Patient Data Entry
13	>	CONTAINS	TEXT	(T9910-04, 99PMSBLUS, "Reason for Study")	From Patient Data Entry
14	>	CONTAINS	TEXT	(T9910-112, 99PMSBLUS, "Alternate ID Number")	From Patient Data Entry
15	>	CONTAINS	TEXT	(121022, DCM, "Accession Number")	From Patient Data Entry
16	>	CONTAINS	TEXT	(T9910-08, 99PMSBLUS, "Referring Physician")	From Patient Data Entry
17	>	CONTAINS	TEXT	(121093, DCM, "Sonographer")	From Patient Data Entry
18	>	CONTAINS	TEXT	(T9910-07, 99PMSBLUS, "Study Description")	From Patient Data Entry
19	>	CONTAINS	TEXT	(T9910-10, 99PMSBLUS, "Patient History")	From Patient Data Entry
20	>	CONTAINS	TEXT	(T9910-09, 99PMSBLUS, "Exam date")	From Patient Data Entry
21	>	CONTAINS	TEXT	(T9910-182, 99PMSBLUS, "Surgeries Type")	From Patient Data Entry
22	>	CONTAINS	TEXT	(D3-30000, SRT, "Arrhythmia")	From Patient Data Entry
23	>	CONTAINS	TEXT	(T9910-176, 99PMSBLUS, "Arrhythmia Type")	From Patient Data Entry
24	>	CONTAINS	TEXT	(R-00302, SRT, "Murmur")	From Patient Data Entry
25	>	CONTAINS	TEXT	(T9910-178, 99PMSBLUS, "Murmur Type")	From Patient Data Entry
26	>	CONTAINS	TEXT	(F-37000, SRT, "Chest Pain")	From Patient Data Entry
27	>	CONTAINS	TEXT	(D3-10008, SRT, "Cardiomegaly")	From Patient Data Entry
28	>	CONTAINS	TEXT	(M-04100, SRT, "Cyanosis")	From Patient Data Entry

29	>	CONTAINS	TEXT	(D4-31B16, SRT, "Dextrocardia")	From Patient Data Entry
30	>	CONTAINS	TEXT	(F-201B3, SRT, "Dyspnea")	From Patient Data Entry
31	>	CONTAINS	TEXT	(F-0A44A, SRT, "Fever")	From Patient Data Entry
32	>	CONTAINS	TEXT	(F-24210, SRT, "Hemoptysis")	From Patient Data Entry
33	>	CONTAINS	TEXT	(D3-02000, SRT, "Hypertension")	From Patient Data Entry
34	>	CONTAINS	TEXT	(G-0586, SRT, "Insulin dependent mother (IDM)")	From Patient Data Entry
35	>	CONTAINS	TEXT	(D4-31B24, SRT, "Mesocardia")	From Patient Data Entry
36	>	CONTAINS	TEXT	(A-11100, SRT, "Cardiac Pacemaker")	From Patient Data Entry
37	>	CONTAINS	TEXT	(D3-00006, SRT, "Syncope")	From Patient Data Entry
38	>	CONTAINS	TEXT	(D4-31220, SRT, "Atrial Septal Defect")	From Patient Data Entry
39	>	CONTAINS	TEXT	(D4-31159, SRT, "Ventricular Septal Defect (VSD)")	From Patient Data Entry
40	>	CONTAINS	TEXT	(D4-32012, SRT, "Patent Ductus Arteriosus")	From Patient Data Entry
41	>	CONTAINS	TEXT	(D4-32014, SRT, "Coarctation of aorta")	From Patient Data Entry
42	>	CONTAINS	TEXT	(D4-31110, SRT, "Tetralogy of Fallot")	From Patient Data Entry
43	>	CONTAINS	TEXT	(D3-29021, SRT, "Aortic Stenosis")	From Patient Data Entry
44	>	CONTAINS	TEXT	(D3-29051, SRT, "Pulmonic valve stenosis")	From Patient Data Entry
45	>	CONTAINS	TEXT	(D4-33622, SRT, "Partial anomalous pulmonary venous connection")	From Patient Data Entry
46	>	CONTAINS	TEXT	(D4-31303, SRT, "Common atrioventricular canal")	From Patient Data Entry
47	>	CONTAINS	TEXT	(D4-31310, SRT, "Atrial septal defect with endocardial cushion defect, partial")	From Patient Data Entry
48	>	CONTAINS	TEXT	(D4-31010, SRT, "Complete transposition of great vessels")	From Patient Data Entry
49	>	CONTAINS	TEXT	(D3-83001, SRT, "Interrupted Aortic Arch")	From Patient Data Entry
50	>	CONTAINS	TEXT	(T9910-180, 99PMSBLUS, "Cardiomyopathy Type")	From Patient Data Entry
51	>	CONTAINS	TEXT	(T9910-181, 99PMSBLUS, "Infections Type")	From Patient Data Entry
52	>	CONTAINS	TEXT	(D3-29011, SRT, "Mitral stenosis")	From Patient Data Entry

53	>	CONTAINS	TEXT	(D3-29012, SRT, "Mitral regurgitation")	From Patient Data Entry
54	>	CONTAINS	TEXT	(D3-29022, SRT, "Aortic regurgitation")	From Patient Data Entry
55	>	CONTAINS	TEXT	(T9910-187, 99PMSBLUS, "AV Stenosis (acquired) (AS)")	From Patient Data Entry
56	>	CONTAINS	TEXT	(D3-29013, SRT, "Mitral valve prolapse")	From Patient Data Entry
57	>	CONTAINS	TEXT	(F-0331B, SRT, "HIV Positive")	From Patient Data Entry
58	>	CONTAINS	TEXT	(D3-81660, SRT, "Acute febrile mucocutaneous lymph node syndrome")	From Patient Data Entry
59	>	CONTAINS	TEXT	(D3-17100, SRT, "Rheumatic Fever")	From Patient Data Entry

A.5.1.2 Cardiac Ultrasound Pediatric Echo Measurement Section (TID 5221)

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12282) Cardiac Ultrasound Venous Return Systemic Finding Sites $MeasType = DCID (12264) Cardiac Ultrasound Venous Return Systemic Measurements
2			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12283) Cardiac Ultrasound Venous Return Pulmonary Finding Sites $MeasType = DCID (12263) Cardiac Ultrasound Venous Return Pulmonary Measurements
3			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12284) Cardiac Ultrasound Atria and Atrial Septum Finding Sites $MeasType = DCID (12265) Cardiac Ultrasound Atria and Atrial Septum Measurements
4			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12285) Cardiac Ultrasound Atrioventricular Valves Finding Sites $MeasType = DCID (12268) Cardiac Ultrasound Atrioventricular Valves Measurements
5			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12286) Cardiac Ultrasound Interventricular Septum Finding Sites $MeasType = DCID (12269) Cardiac Ultrasound Interventricular Septum Measurements
6			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12287) Cardiac Ultrasound Ventricles Finding Sites $MeasType = DCID (12259) Cardiac Ultrasound Ventricles Measurements

7			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12288) Cardiac Ultrasound Outflow Tracts Finding Sites $MeasType = DCID (12271) Cardiac Ultrasound Outflow Tracts Measurements
8			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12289) Cardiac Ultrasound Semilunar Valves, Annulus and Sinuses Finding Sites $MeasType = DCID (12272) Cardiac Ultrasound Semilunar Valves, Annulus and Sinuses Measurements
9			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12290) Cardiac Ultrasound Pulmonary Arteries Finding Sites $MeasType = DCID (12260) Cardiac Ultrasound Pulmonary Artery
10			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12291) Cardiac Ultrasound Aorta Finding Sites $MeasType = DCID (12274) Cardiac Ultrasound Aorta Measurements
11			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12292) Cardiac Ultrasound Coronary Arteries Finding Sites $MeasType = DCID (12275) Cardiac Ultrasound Coronary Arteries Measurements
12			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12293) Cardiac Ultrasound Aorto Pulmonary Connections Finding Sites $MeasType = DCID (12276) Cardiac Ultrasound Aorto Pulmonary Connections Measurements
13			INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	$SectionSubject=DCID (12294) Cardiac Ultrasound Pericardium and Pleura Finding Sites $MeasType = DCID (12277) Cardiac Ultrasound Pericardium and Pleura Measurements

A.5.1.3 Pediatric, Fetal and Congenital Cardiac Ultrasound Section (TID 5222)

This is a generic section heading Template for any of the anatomical headings. Measurements within a section heading appear as groups (by image mode or acquisition protocol).

No	NL	REL WITH PARENT	VT	Concept Name	Comments
1			CONTAINER	EV (121070, DCM, “Findings”)	
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, “Finding Site”)	$SectionSubject
3	>>	HAS CONCEPT MOD	CODE	EV (P1-32006, SRT, “Heart valve replacement - prosthesis”)	
4	>	CONTAINS	CONTAINER	DT (125007, DCM, “Measurement Group”)	
5	>>	HAS CONCEPT MOD	CODE	EV (G-0373, SRT, “Image Mode”)	BCID (12224) Ultrasound Image Modes

6	>>	HAS CONCEPT MOD	TEXT	DT (125203, DCM, “Acquisition Protocol”)	
7	>>	CONTAINS	INCLUDE	DTID (5223) Pediatric, Fetal and Congenital Cardiac Ultrasound Measurement	$Measurement = $MeasType $Method=CID (12227) Echocardiography Measurement Method

A.5.1.4 Pediatric, Fetal and Congenital Cardiac Ultrasound Measurement (TID 5223)

This Template provides for the post-coordination of a measurement with a variety of concept modifiers and acquisition context observations. When invoked from TID 5222, the measurement concept is implicitly post-coordinated with the concept modifiers of the Measurement Group (TID 5222 Rows 5 and 6), and with the Finding Site of the report section (TID 5222 Row 2). The finding site may be further specified within this Template by the Target Site and Target Site Modifiers (CID 12280 and CID 12281).

The implicit finding site inherited from TID 5222 can be made explicit by using the same finding site concept in the Target Site (the measurement concept modifier), rather than a term from CID 12280. This explicit post-coordination allows the use of one of the modifiers of CID 12281 to that finding site, as the Target Site Modifier requires an explicit Target Site in the measurement structure (TID 300 Rows 5 and 7). In fact, any child concept of the finding site in the SNOMED hierarchy may be used as the measurement Target Site.

The finding or target site may be identified by a concept from the SNOMED “clinical finding” or “morphological anomaly” hierarchies (e.g., D4-31220 “Atrial Septal Defect”, or M-36700 “Effusion”), rather than the “anatomical structure” hierarchy. In this case, the meaning is inferred as “the anatomic location of the clinical finding or morphological anomaly, within the constraints of other implicit or explicit post-coordinated finding site concepts.”

No	NL	Rel with Parent	VT	Concept Name	Comments
1			INCLUDE	DTID (300) Measurement	$Measurement = $Measurement $Method = $Method $TargetSite = BCID (12280) Cardiac Ultrasound Target Sites $TargetSiteMod = BCID (12281) Cardiac Ultrasound Target Site Modifiers $Derivation=DCID (3838) Diameter Derivation
2	>	HAS CONCEPT MOD	CODE	EV (121425, DCM, “Index”)	DCID (3455) Index Methods
3	>	HAS CONCEPT MOD	CODE	EV (G-C048, SRT, “Flow Direction”)	BCID (12221) Flow Direction
4	>	HAS CONCEPT MOD	CODE	EV (R-40899, SRT, “Respiratory Cycle Point”)	DCID (12234) Respiration State
5	>	HAS CONCEPT MOD	CODE	EV (R-4089A, SRT, “Cardiac Cycle Point”)	DCID (12233) Cardiac Phase
6	>	HAS ACQ CONTEXT	CODE	EV (G-0373, SRT, “Image Mode”)	DCID (12224) Ultrasound Image Modes
7	>	HAS ACQ CONTEXT	CODE	EV (111031, DCM, “Image View”)	BCID (12226) Echocardiography Image View

A.5.1.5 Cardiac Ultrasound Fetal Characteristics (TID 5225)

Contains a list of Fetus Specific characteristics

No	NL	Rel with Parent	VT	Concept Name	Comments
1			CONTAINER	EV (125015, DCM, “Fetus Characteristics”)	
2	>	HAS OBS CONTEXT	INCLUDE	DTID (1008) Subject Context, Fetus	
3	>	CONTAINS	NUM	EV (18185-9, LN, “Gestational Age”)	
4	>	CONTAINS	DATE	EV (11778-8, LN, “EDD”)	
5	>	CONTAINS	NUM	EV (8867-4, LN, “Heart Rate”)	

A.5.1.6 Cardiac Ultrasound Summary Section (TID 5226)

Comments and observations of the procedure of immediate clinical interest

No	NL	Rel with Parent	VT	Concept Name	Comments
1			CONTAINER	EV (121111, DCM, “Summary”)	
2	>	CONTAINS	CODE	EV (121071, DCM, ”Finding”)	
3	>	CONTAINS	TEXT	EV (121071, DCM, ”Finding”)	
4	>	CONTAINS	CODE	EV (P0-009C3, SRT “Surgical Procedure”)	

A.5.1.7 Cardiac Ultrasound FetalSummary Section (TID 5227)

Comments and observations of the procedure of immediate clinical interest

No	NL	Rel with Parent	VT	Concept Name	Comments
1			CONTAINER	DT (125008, DCM, “Fetus Summary”)	
2	>	HAS OBS CONTEXT	INCLUDE	DTID (1008) Subject Context, Fetus	
3	>	CONTAINS	CODE	EV (121071, DCM, “Finding”)	
4	>	CONTAINS	TEXT	EV (121071, DCM, “Finding”)	
5	>	CONTAINS	CODE	EV (P0-009C3, SRT “Surgical Procedure”)	

A.5.1.8 Cardiac Ultrasound Fetal Measurement Section (TID 5228)

No	NL	Rel with Parent	VT	Concept Name	Comments
1			CONTAINER	EV (125016, DCM, “Fetal Measurements”)	
2	>	HAS OBS CONTEXT	INCLUDE	DTID (1008) Subject Context, Fetus	
3	>	CONTAINS	INCLUDE	DTID (300) Measurement	

4	>	CONTAINS	INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	
5	>	CONTAINS	INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	
6	>	CONTAINS	INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	
7	>	CONTAINS	INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	
8	>	CONTAINS	INCLUDE	DTID (5222) Pediatric, Fetal and Congenital Cardiac Ultrasound Section	

A.5.2 eDCS – Pediatric Echocardiography Template Support

The following list represents the Electronic DICOM Conformance Statement (eDCS) format for the Structured Report output for the Pediatric Echocardiography Procedure Report as supported on HD15 3.0.x.

This list is made up of 'signatures' that describe the group of codes used for each exported measurement and calculation result.

A 'signature' will contain the Label as displayed on the system user interface in the Calcs application and report pages, followed by the modifiers required by the DICOM SR Template and Structured Reporting SOP Class in order to include a given measurement or calculation value.

Some signatures will contain as few as two or as many as six modifiers.

In the table below, the following terms are used:
CSD Coding Scheme Designator
CV Code Value
CM Code Meaning

HD15 3.0.x Report Label	CSD	CV	CM
AI Accel Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Accel Slope	LN	20167-3	Acceleration Slope
AI Accel Slope	SRT	T-35400	Aortic Valve
AI Accel Slope	SRT	G-0367	Regurgitant Flow
AI Accel Slope	UCUM	cm/s2	Centimeter Per Second Square
AI Accel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Accel Time	LN	20168-1	Acceleration Time
AI Accel Time	SRT	T-35400	Aortic Valve
AI Accel Time	SRT	G-0367	Regurgitant Flow
AI Accel Time	UCUM	sec	Seconds
AI Alias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Alias Vel	LN	59130-5	Alias velocity
AI Alias Vel	SRT	T-35400	Aortic Valve
AI Alias Vel	SRT	G-0367	Regurgitant Flow
AI Alias Vel	UCUM	cm/s	Centimeter Per Second

HD15 3.0.x Report Label	CSD	CV	CM
AI Decel Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Decel Slope	LN	20216-8	Deceleration Slope
AI Decel Slope	SRT	T-35400	Aortic Valve
AI Decel Slope	SRT	G-0367	Regurgitant Flow
AI Decel Slope	UCUM	cm/s2	Centimeter Per Second Square
AI Decel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Decel Time	LN	20217-6	Deceleration Time
AI Decel Time	SRT	T-35400	Aortic Valve
AI Decel Time	SRT	G-0367	Regurgitant Flow
AI Decel Time	UCUM	sec	Seconds
AI End Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
AI End Dias Vel	LN	11653-3	End Diastolic Velocity
AI End Dias Vel	SRT	T-35400	Aortic Valve
AI End Dias Vel	SRT	G-0367	Regurgitant Flow
AI End Dias Vel	SRT	F-32011	End Diastole
AI End Dias Vel	UCUM	cm/s	Centimeter Per Second
AI P1/2t	DCM	125195	Pediatric Cardiac Ultrasound Report
AI P1/2t	LN	20280-4	Pressure Half-Time
AI P1/2t	SRT	T-35400	Aortic Valve
AI P1/2t	SRT	G-0367	Regurgitant Flow
AI P1/2t	UCUM	msec	Millisecond
AI Radius	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Radius	LN	59102-4	Flow Radius
AI Radius	SRT	T-35400	Aortic Valve
AI Radius	SRT	G-0367	Regurgitant Flow
AI Radius	UCUM	cm	Centimeter
AI Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Max PG	LN	20247-3	Peak Gradient
AI Max PG	SRT	T-35400	Aortic Valve
AI Max PG	SRT	G-0367	Regurgitant Flow
AI Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
AI Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Vmax	LN	20351-3	Peak Velocity
AI Vmax	SRT	T-35400	Aortic Valve
AI Vmax	SRT	G-0367	Regurgitant Flow
AI Vmax	UCUM	cm/s	Centimeter Per Second
AI Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Mean PG	LN	20256-4	Mean Gradient
AI Mean PG	SRT	T-35400	Aortic Valve
AI Mean PG	SRT	G-0367	Regurgitant Flow

HD15 3.0.x Report Label	CSD	CV	CM
AI Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
AI Vmean	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Vmean	LN	11692-1	Time Averaged Peak Velocity
AI Vmean	SRT	T-35400	Aortic Valve
AI Vmean	SRT	G-0367	Regurgitant Flow
AI Vmean	UCUM	cm/s	Centimeter Per Second
AI VTI	DCM	125195	Pediatric Cardiac Ultrasound Report
AI VTI	LN	20354-7	Velocity Time Integral
AI VTI	SRT	T-35400	Aortic Valve
AI VTI	SRT	G-0367	Regurgitant Flow
AI VTI	UCUM	cm	Centimeter
Ao Sinus Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
Ao Sinus Diam	SRT	M-02550	Diameter
Ao Sinus Diam	SRT	T-42200	Structure Sinus of Valsalva
Ao Sinus Diam	SRT	G-03A2	2D mode
Ao Sinus Diam	UCUM	cm	Centimeter
Ao Arch Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
Ao Arch Diam	SRT	M-02550	Diameter
Ao Arch Diam	SRT	T-42300	Aortic arch
Ao Arch Diam	SRT	G-03A2	2D mode
Ao Arch Diam	UCUM	cm	Centimeter
Ao Arch Dist Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
Ao Arch Dist Diam	SRT	M-02550	Diameter
Ao Arch Dist Diam	SRT	T-42300	Aortic arch
Ao Arch Dist Diam	SRT	G-03A2	2D mode
Ao Arch Dist Diam	SRT	G-A119	Distal
Ao Arch Dist Diam	UCUM	cm	Centimeter
Ao Isthmus Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
Ao Isthmus Diam	SRT	M-02550	Diameter
Ao Isthmus Diam	SRT	T-42310	Aortic isthmus
Ao Isthmus Diam	SRT	G-03A2	2D mode
Ao Isthmus Diam	UCUM	cm	Centimeter
AoR Diam (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
AoR Diam (2D)	SRT	M-02550	Diameter
AoR Diam (2D)	SRT	T-42110	Root of Aorta
AoR Diam (2D)	SRT	G-03A2	2D mode
AoR Diam (2D)	UCUM	cm	Centimeter
AoR Diam (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
AoR Diam (MM)	SRT	M-02550	Diameter
AoR Diam (MM)	SRT	T-42110	Root of Aorta

HD15 3.0.x Report Label	CSD	CV	CM
AoR Diam (MM)	SRT	G-0394	M mode
AoR Diam (MM)	UCUM	cm	Centimeter
Lat A` Area	DCM	125195	Pediatric Cardiac Ultrasound Report
Lat A` Area	LN	59125-5	LV VTI A wave US
Lat A` Area	SRT	T-32600	Left Ventricle
Lat A` Area	SRT	P5-B0128	Tissue Doppler Imaging
Lat A` Area	SRT	G-0392	Lateral Mitral Annulus
Lat A` Area	UCUM	cm	Centimeter
Lat E` Area	DCM	125195	Pediatric Cardiac Ultrasound Report
Lat E` Area	LN	59124-8	LV VTI E wave US
Lat E` Area	SRT	T-32600	Left Ventricle
Lat E` Area	SRT	P5-B0128	Tissue Doppler Imaging
Lat E` Area	SRT	G-0392	Lateral Mitral Annulus
Lat E` Area	UCUM	cm	Centimeter
Med A` Area	DCM	125195	Pediatric Cardiac Ultrasound Report
Med A` Area	LN	59125-5	LV VTI A wave US
Med A` Area	SRT	T-32600	Left Ventricle
Med A` Area	SRT	P5-B0128	Tissue Doppler Imaging
Med A` Area	SRT	G-0391	Medial Mitral Annulus
Med A` Area	UCUM	cm	Centimeter
Med E` Area	DCM	125195	Pediatric Cardiac Ultrasound Report
Med E` Area	LN	59124-8	LV VTI E wave US
Med E` Area	SRT	T-32600	Left Ventricle
Med E` Area	SRT	P5-B0128	Tissue Doppler Imaging
Med E` Area	SRT	G-0391	Medial Mitral Annulus
Med E` Area	UCUM	cm	Centimeter
AS Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
AS Max PG	LN	59106-5	Stenosis Peak Gradient
AS Max PG	SRT	T-35400	Aortic Valve
AS Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
AS Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
AS Vmax	LN	59107-3	Stenosis Peak Velocity
AS Vmax	SRT	T-35400	Aortic Valve
AS Vmax	UCUM	cm/s	Centimeter Per Second
Asc Ao Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
Asc Ao Max PG	LN	20247-3	Peak Gradient
Asc Ao Max PG	SRT	T-42100	Ascending aorta
Asc Ao Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
Asc Ao Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
Asc Ao Vmax	LN	20351-3	Peak Velocity

HD15 3.0.x Report Label	CSD	CV	CM
Asc Ao Vmax	SRT	T-42100	Ascending aorta
Asc Ao Vmax	UCUM	cm/s	Centimeter Per Second
Asc Ao Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
Asc Ao Mean PG	LN	20256-4	Mean Gradient
Asc Ao Mean PG	SRT	T-42100	Ascending aorta
Asc Ao Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
Asc Ao Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
Asc Ao Diam	SRT	M-02550	Diameter
Asc Ao Diam	SRT	T-42100	Ascending aorta
Asc Ao Diam	SRT	G-03A2	2D mode
Asc Ao Diam	UCUM	cm	Centimeter
ASD Major	DCM	125195	Pediatric Cardiac Ultrasound Report
ASD Major	SRT	G-A193	Major Axis
ASD Major	SRT	D4-31220	Atrial Septal Defect
ASD Major	SRT	G-03A2	2D mode
ASD Major	UCUM	cm	Centimeter
ASD Minor	DCM	125195	Pediatric Cardiac Ultrasound Report
ASD Minor	SRT	G-A194	Minor Axis
ASD Minor	SRT	D4-31220	Atrial Septal Defect
ASD Minor	SRT	G-03A2	2D mode
ASD Minor	UCUM	cm	Centimeter
ASD Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
ASD Max PG	LN	20247-3	Peak Gradient
ASD Max PG	SRT	D4-31220	Atrial Septal Defect
ASD Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
ASD Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
ASD Vmax	LN	20351-3	Peak Velocity
ASD Vmax	SRT	D4-31220	Atrial Septal Defect
ASD Vmax	UCUM	cm/s	Centimeter Per Second
ASD Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
ASD Mean PG	LN	20256-4	Mean Gradient
ASD Mean PG	SRT	D4-31220	Atrial Septal Defect
ASD Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
ASD Vmean	DCM	125195	Pediatric Cardiac Ultrasound Report
ASD Vmean	LN	11692-1	Time Averaged Peak Velocity
ASD Vmean	SRT	D4-31220	Atrial Septal Defect
ASD Vmean	UCUM	cm/s	Centimeter Per Second
ASD VTI	DCM	125195	Pediatric Cardiac Ultrasound Report
ASD VTI	LN	20354-7	Velocity Time Integral
ASD VTI	SRT	D4-31220	Atrial Septal Defect

HD15 3.0.x Report Label	CSD	CV	CM
ASD VTI	UCUM	cm	Centimeter
AV Accel Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Accel Slope	LN	20167-3	Acceleration Slope
AV Accel Slope	SRT	T-35400	Aortic Valve
AV Accel Slope	SRT	R-42047	Antegrade Flow
AV Accel Slope	UCUM	cm/s2	Centimeter Per Second Square
AV Accel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Accel Time	LN	20168-1	Acceleration Time
AV Accel Time	SRT	T-35400	Aortic Valve
AV Accel Time	SRT	R-42047	Antegrade Flow
AV Accel Time	UCUM	sec	Seconds
AV Annul Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Annul Diam	SRT	M-02550	Diameter
AV Annul Diam	SRT	T-35400	Aortic Valve
AV Annul Diam	SRT	G-03A2	2D mode
AV Annul Diam	SRT	T-3500E	Cardiac valve annulus
AV Annul Diam	UCUM	cm	Centimeter
AV Area	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Area	SRT	G-A166	Area
AV Area	SRT	T-35400	Aortic Valve
AV Area	SRT	G-03A2	2D mode
AV Area	UCUM	cm2	Square Centimeter
AV Cusp Sep	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Cusp Sep	LN	17996-0	Aortic Valve Cusp Separation
AV Cusp Sep	SRT	T-35400	Aortic Valve
AV Cusp Sep	SRT	G-0394	M mode
AV Cusp Sep	UCUM	cm	Centimeter
AV Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Max PG	LN	20247-3	Peak Gradient
AV Max PG	SRT	T-35400	Aortic Valve
AV Max PG	SRT	R-42047	Antegrade Flow
AV Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
AV Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Vmax	LN	20351-3	Peak Velocity
AV Vmax	SRT	T-35400	Aortic Valve
AV Vmax	SRT	R-42047	Antegrade Flow
AV Vmax	UCUM	cm/s	Centimeter Per Second
AV Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Mean PG	LN	20256-4	Mean Gradient
AV Mean PG	SRT	T-35400	Aortic Valve

HD15 3.0.x Report Label	CSD	CV	CM
AV Mean PG	SRT	R-42047	Antegrade Flow
AV Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
AV Vmean	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Vmean	LN	11692-1	Time Averaged Peak Velocity
AV Vmean	SRT	T-35400	Aortic Valve
AV Vmean	SRT	R-42047	Antegrade Flow
AV Vmean	UCUM	cm/s	Centimeter Per Second
AV VTI	DCM	125195	Pediatric Cardiac Ultrasound Report
AV VTI	LN	20354-7	Velocity Time Integral
AV VTI	SRT	T-35400	Aortic Valve
AV VTI	SRT	R-42047	Antegrade Flow
AV VTI	UCUM	cm	Centimeter
A Wave Amp	DCM	125195	Pediatric Cardiac Ultrasound Report
A Wave Amp	LN	59100-8	A-Wave Amplitude
A Wave Amp	SRT	T-35200	Pulmonic Valve
A Wave Amp	SRT	G-0394	M mode
A Wave Amp	UCUM	cm	Centimeter
B-C Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
B-C Slope	LN	59126-3	B-C Slope
B-C Slope	SRT	T-35200	Pulmonic Valve
B-C Slope	SRT	G-0394	M mode
B-C Slope	UCUM	cm/s	Centimeter Per Second
Coarctation Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
Coarctation Diam	SRT	M-02550	Diameter
Coarctation Diam	SRT	D4-32014	Coarctation of aorta
Coarctation Diam	SRT	G-03A2	2D mode
Coarctation Diam	UCUM	cm	Centimeter
Desc Ao Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
Desc Ao Diam	SRT	M-02550	Diameter
Desc Ao Diam	SRT	T-42070	Thoracic aorta
Desc Ao Diam	SRT	G-03A2	2D mode
Desc Ao Diam	UCUM	cm	Centimeter
Desc Ao Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
Desc Ao Max PG	LN	20247-3	Peak Gradient
Desc Ao Max PG	SRT	T-42070	Thoracic aorta
Desc Ao Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
Desc Ao Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
Desc Ao Vmax	LN	20351-3	Peak Velocity
Desc Ao Vmax	SRT	T-42070	Thoracic aorta
Desc Ao Vmax	UCUM	cm/s	Centimeter Per Second

HD15 3.0.x Report Label	CSD	CV	CM
Desc Ao Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
Desc Ao Mean PG	LN	20256-4	Mean Gradient
Desc Ao Mean PG	SRT	T-42070	Thoracic aorta
Desc Ao Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
Hepatic A Dur	DCM	125195	Pediatric Cardiac Ultrasound Report
Hepatic A Dur	LN	59105-7	A-Wave Duration
Hepatic A Dur	SRT	T-48720	Hepatic Vein
Hepatic A Dur	UCUM	sec	Seconds
Hepatic A Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
Hepatic A Vel	LN	59079-4	Peak Reversal Velocity during Atrial Contraction
Hepatic A Vel	SRT	T-48720	Hepatic Vein
Hepatic A Vel	UCUM	cm/s	Centimeter Per Second
Hepatic Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
Hepatic Dias Vel	LN	20351-3	Peak Velocity
Hepatic Dias Vel	SRT	T-48720	Hepatic Vein
Hepatic Dias Vel	SRT	F-32011	End Diastole
Hepatic Dias Vel	UCUM	cm/s	Centimeter Per Second
Hepatic Sys Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
Hepatic Sys Vel	LN	20351-3	Peak Velocity
Hepatic Sys Vel	SRT	T-48720	Hepatic Vein
Hepatic Sys Vel	SRT	R-FAB5B	End Systole
Hepatic Sys Vel	UCUM	cm/s	Centimeter Per Second
AV-HR (DOP)	DCM	125195	Pediatric Cardiac Ultrasound Report
AV-HR (DOP)	LN	8867-4	Heart Rate
AV-HR (DOP)	SRT	T-35400	Aortic Valve
AV-HR (DOP)	UCUM	{H.B.}/min	Beats Per Minute
AV-HR (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
AV-HR (MM)	LN	8867-4	Heart Rate
AV-HR (MM)	SRT	T-35400	Aortic Valve
AV-HR (MM)	SRT	G-0394	M mode
AV-HR (MM)	UCUM	{H.B.}/min	Beats Per Minute
HR LV (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
HR LV (2D)	LN	8867-4	Heart Rate
HR LV (2D)	SRT	T-32600	Left Ventricle
HR LV (2D)	SRT	G-03A2	2D mode
HR LV (2D)	UCUM	{H.B.}/min	Beats Per Minute
HR LV (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
HR LV (MM)	LN	8867-4	Heart Rate
HR LV (MM)	SRT	T-32600	Left Ventricle
HR LV (MM)	SRT	G-0394	M mode

HD15 3.0.x Report Label	CSD	CV	CM
HR LV (MM)	UCUM	{H.B.}/min	Beats Per Minute
MV-HR (DOP)	DCM	125195	Pediatric Cardiac Ultrasound Report
MV-HR (DOP)	LN	8867-4	Heart Rate
MV-HR (DOP)	SRT	T-35300	Mitral Valve
MV-HR (DOP)	UCUM	{H.B.}/min	Beats Per Minute
PV-HR (DOP)	DCM	125195	Pediatric Cardiac Ultrasound Report
PV-HR (DOP)	LN	8867-4	Heart Rate
PV-HR (DOP)	SRT	T-35200	Pulmonic Valve
PV-HR (DOP)	UCUM	{H.B.}/min	Beats Per Minute
PV-HR (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
PV-HR (MM)	LN	8867-4	Heart Rate
PV-HR (MM)	SRT	T-35200	Pulmonic Valve
PV-HR (MM)	SRT	G-0394	M mode
PV-HR (MM)	UCUM	{H.B.}/min	Beats Per Minute
TV-HR (DOP)	DCM	125195	Pediatric Cardiac Ultrasound Report
TV-HR (DOP)	LN	8867-4	Heart Rate
TV-HR (DOP)	SRT	T-35100	Tricuspid Valve
TV-HR (DOP)	UCUM	{H.B.}/min	Beats Per Minute
IVC A Dur	DCM	125195	Pediatric Cardiac Ultrasound Report
IVC A Dur	LN	59105-7	A-Wave Duration
IVC A Dur	SRT	T-48710	Inferior vena cava
IVC A Dur	UCUM	sec	Seconds
IVC A Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
IVC A Vel	LN	59079-4	Peak Reversal Velocity during Atrial Contraction
IVC A Vel	SRT	T-48710	Inferior vena cava
IVC A Vel	UCUM	cm/s	Centimeter Per Second
IVC Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
IVC Diam	SRT	M-02550	Diameter
IVC Diam	SRT	T-48710	Inferior vena cava
IVC Diam	SRT	G-03A2	2D mode
IVC Diam	UCUM	cm	Centimeter
IVC Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
IVC Dias Vel	LN	20351-3	Peak Velocity
IVC Dias Vel	SRT	T-48710	Inferior vena cava
IVC Dias Vel	SRT	F-32011	End Diastole
IVC Dias Vel	UCUM	cm/s	Centimeter Per Second
IVC Sys Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
IVC Sys Vel	LN	20351-3	Peak Velocity
IVC Sys Vel	SRT	T-48710	Inferior vena cava
IVC Sys Vel	SRT	R-FAB5B	End Systole

HD15 3.0.x Report Label	CSD	CV	CM
IVC Sys Vel	UCUM	cm/s	Centimeter Per Second
IVCT	DCM	125195	Pediatric Cardiac Ultrasound Report
IVCT	LN	59084-4	Isovolumic Contraction Time
IVCT	SRT	T-32600	Left Ventricle
IVCT	UCUM	sec	Seconds
IVRT	DCM	125195	Pediatric Cardiac Ultrasound Report
IVRT	LN	59083-6	Isovolumic Relaxation Time
IVRT	SRT	T-32600	Left Ventricle
IVRT	UCUM	sec	Seconds
IVSd (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
IVSd (2D)	LN	59089-3	ROI Thickness by US
IVSd (2D)	SRT	T-32410	Interventricular septum
IVSd (2D)	SRT	G-03A2	2D mode
IVSd (2D)	SRT	F-32011	End Diastole
IVSd (2D)	UCUM	cm	Centimeter
IVSd (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
IVSd (MM)	LN	59089-3	ROI Thickness by US
IVSd (MM)	SRT	T-32410	Interventricular septum
IVSd (MM)	SRT	G-0394	M mode
IVSd (MM)	SRT	F-32011	End Diastole
IVSd (MM)	UCUM	cm	Centimeter
IVSs (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
IVSs (2D)	LN	59089-3	ROI Thickness by US
IVSs (2D)	SRT	T-32410	Interventricular septum
IVSs (2D)	SRT	G-03A2	2D mode
IVSs (2D)	SRT	R-FAB5B	End Systole
IVSs (2D)	UCUM	cm	Centimeter
IVSs (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
IVSs (MM)	LN	59089-3	ROI Thickness by US
IVSs (MM)	SRT	T-32410	Interventricular septum
IVSs (MM)	SRT	G-0394	M mode
IVSs (MM)	SRT	R-FAB5B	End Systole
IVSs (MM)	UCUM	cm	Centimeter
Left Main	DCM	125195	Pediatric Cardiac Ultrasound Report
Left Main	SRT	M-02550	Diameter
Left Main	SRT	T-43107	Left Main Coronary Artery
Left Main	SRT	G-03A2	2D mode
Left Main	UCUM	cm	Centimeter
LA Dimen (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
LA Dimen (2D)	LN	29469-4	Left Atrium Antero-posterior Systolic Dimension

HD15 3.0.x Report Label	CSD	CV	CM
LA Dimen (2D)	SRT	T-32300	Left Atrium
LA Dimen (2D)	SRT	G-03A2	2D mode
LA Dimen (2D)	SRT	R-FAB5B	End Systole
LA Dimen (2D)	UCUM	cm	Centimeter
LA Dimen (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
LA Dimen (MM)	LN	29469-4	Left Atrium Antero-posterior Systolic Dimension
LA Dimen (MM)	SRT	T-32300	Left Atrium
LA Dimen (MM)	SRT	G-0394	M mode
LA Dimen (MM)	SRT	R-FAB5B	End Systole
LA Dimen (MM)	UCUM	cm	Centimeter
LAD Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
LAD Diam	SRT	M-02550	Diameter
LAD Diam	SRT	T-43110	Anterior Descending Branch of Left Coronary Artery
LAD Diam	SRT	G-03A2	2D mode
LAD Diam	UCUM	cm	Centimeter
LAED Major-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
LAED Major-A4C	SRT	G-A193	Major Axis
LAED Major-A4C	SRT	T-32300	Left Atrium
LAED Major-A4C	SRT	G-03A2	2D mode
LAED Major-A4C	SRT	G-A19C	Apical four chamber
LAED Major-A4C	SRT	F-32011	End Diastole
LAED Major-A4C	UCUM	cm	Centimeter
LAED Minor-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
LAED Minor-A4C	SRT	G-A194	Minor Axis
LAED Minor-A4C	SRT	T-32300	Left Atrium
LAED Minor-A4C	SRT	G-03A2	2D mode
LAED Minor-A4C	SRT	G-A19C	Apical four chamber
LAED Minor-A4C	SRT	F-32011	End Diastole
LAED Minor-A4C	UCUM	cm	Centimeter
LAES Major-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
LAES Major-A4C	SRT	G-A193	Major Axis
LAES Major-A4C	SRT	T-32300	Left Atrium
LAES Major-A4C	SRT	G-03A2	2D mode
LAES Major-A4C	SRT	G-A19C	Apical four chamber
LAES Major-A4C	SRT	R-FAB5B	End Systole
LAES Major-A4C	UCUM	cm	Centimeter
LAES Minor-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
LAES Minor-A4C	SRT	G-A194	Minor Axis
LAES Minor-A4C	SRT	T-32300	Left Atrium

HD15 3.0.x Report Label	CSD	CV	CM
LAES Minor-A4C	SRT	G-03A2	2D mode
LAES Minor-A4C	SRT	G-A19C	Apical four chamber
LAES Minor-A4C	SRT	R-FAB5B	End Systole
LAES Minor-A4C	UCUM	cm	Centimeter
Lat A` Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
Lat A` Vel	LN	59133-9	Peak Tissue Velocity
Lat A` Vel	SRT	T-32600	Left Ventricle
Lat A` Vel	SRT	P5-B0128	Tissue Doppler Imaging
Lat A` Vel	SRT	G-0392	Lateral Mitral Annulus
Lat A` Vel	SRT	F-32030	Atrial Systole
Lat A` Vel	UCUM	cm/s	Centimeter Per Second
Lat E` Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
Lat E` Vel	LN	59133-9	Peak Tissue Velocity
Lat E` Vel	SRT	T-32600	Left Ventricle
Lat E` Vel	SRT	P5-B0128	Tissue Doppler Imaging
Lat E` Vel	SRT	G-0392	Lateral Mitral Annulus
Lat E` Vel	SRT	R-40B1B	Early Diastole
Lat E` Vel	UCUM	cm/s	Centimeter Per Second
Lat S Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
Lat S Vel	LN	59133-9	Peak Tissue Velocity
Lat S Vel	SRT	T-32600	Left Ventricle
Lat S Vel	SRT	P5-B0128	Tissue Doppler Imaging
Lat S Vel	SRT	G-0392	Lateral Mitral Annulus
Lat S Vel	SRT	R-FAB5B	End Systole
Lat S Vel	UCUM	cm/s	Centimeter Per Second
Late Dias Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
Late Dias Slope	LN	20216-8	Deceleration Slope
Late Dias Slope	SRT	T-35200	Pulmonic Valve
Late Dias Slope	SRT	G-0394	M mode
Late Dias Slope	SRT	F-32011	End Diastole
Late Dias Slope	UCUM	cm/s	Centimeter Per Second
Cx Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
Cx Diam	SRT	M-02550	Diameter
Cx Diam	SRT	T-43120	Circumflex Coronary Artery
Cx Diam	SRT	G-03A2	2D mode
Cx Diam	UCUM	cm	Centimeter
LL PulmV A Dur	DCM	125195	Pediatric Cardiac Ultrasound Report
LL PulmV A Dur	LN	59105-7	A-Wave Duration
LL PulmV A Dur	SRT	T-48581	Pulmonary Vein
LL PulmV A Dur	SRT	T-48540	Left Inferior Pulmonary Vein

HD15 3.0.x Report Label	CSD	CV	CM
LL PulmV A Dur	UCUM	sec	Seconds
LL PulmV A Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
LL PulmV A Vel	LN	59079-4	Peak Reversal Velocity during Atrial Contraction
LL PulmV A Vel	SRT	T-48581	Pulmonary Vein
LL PulmV A Vel	SRT	T-48540	Left Inferior Pulmonary Vein
LL PulmV A Vel	UCUM	cm/s	Centimeter Per Second
LL PulmV Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
LL PulmV Dias Vel	LN	20351-3	Peak Velocity
LL PulmV Dias Vel	SRT	T-48581	Pulmonary Vein
LL PulmV Dias Vel	SRT	T-48540	Left Inferior Pulmonary Vein
LL PulmV Dias Vel	SRT	F-32011	End Diastole
LL PulmV Dias Vel	UCUM	cm/s	Centimeter Per Second
LL PulmV Sys Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
LL PulmV Sys Vel	LN	20351-3	Peak Velocity
LL PulmV Sys Vel	SRT	T-48581	Pulmonary Vein
LL PulmV Sys Vel	SRT	T-48540	Left Inferior Pulmonary Vein
LL PulmV Sys Vel	SRT	R-FAB5B	End Systole
LL PulmV Sys Vel	UCUM	cm/s	Centimeter Per Second
LL PulmV Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
LL PulmV Diam	SRT	M-02550	Diameter
LL PulmV Diam	SRT	T-48581	Pulmonary Vein
LL PulmV Diam	SRT	G-03A2	2D mode
LL PulmV Diam	SRT	T-48540	Left Inferior Pulmonary Vein
LL PulmV Diam	UCUM	cm	Centimeter
LPA Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
LPA Diam	SRT	M-02550	Diameter
LPA Diam	SRT	T-44000	Pulmonary artery
LPA Diam	SRT	G-03A2	2D mode
LPA Diam	SRT	T-44400	Left pulmonary artery
LPA Diam	UCUM	cm	Centimeter
LPA Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
LPA Mean PG	LN	20256-4	Mean Gradient
LPA Mean PG	SRT	T-44000	Pulmonary artery
LPA Mean PG	SRT	T-44400	Left pulmonary artery
LPA Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
LPA Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
LPA Max PG	LN	20247-3	Peak Gradient
LPA Max PG	SRT	T-44000	Pulmonary artery
LPA Max PG	SRT	T-44400	Left pulmonary artery
LPA Max PG	UCUM	mm[Hg]	Millimeters Of Mercury

HD15 3.0.x Report Label	CSD	CV	CM
LPA Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
LPA Vmax	LN	20351-3	Peak Velocity
LPA Vmax	SRT	T-44000	Pulmonary artery
LPA Vmax	SRT	T-44400	Left pulmonary artery
LPA Vmax	UCUM	cm/s	Centimeter Per Second
LU PulmV A Dur	DCM	125195	Pediatric Cardiac Ultrasound Report
LU PulmV A Dur	LN	59105-7	A-Wave Duration
LU PulmV A Dur	SRT	T-48581	Pulmonary Vein
LU PulmV A Dur	SRT	T-48530	Left Superior Pulmonary Vein
LU PulmV A Dur	UCUM	sec	Seconds
LU PulmV A Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
LU PulmV A Vel	LN	59079-4	Peak Reversal Velocity during Atrial Contraction
LU PulmV A Vel	SRT	T-48581	Pulmonary Vein
LU PulmV A Vel	SRT	T-48530	Left Superior Pulmonary Vein
LU PulmV A Vel	UCUM	cm/s	Centimeter Per Second
LU PulmV Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
LU PulmV Dias Vel	LN	20351-3	Peak Velocity
LU PulmV Dias Vel	SRT	T-48581	Pulmonary Vein
LU PulmV Dias Vel	SRT	T-48530	Left Superior Pulmonary Vein
LU PulmV Dias Vel	SRT	F-32011	End Diastole
LU PulmV Dias Vel	UCUM	cm/s	Centimeter Per Second
LU PulmV Sys Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
LU PulmV Sys Vel	LN	20351-3	Peak Velocity
LU PulmV Sys Vel	SRT	T-48581	Pulmonary Vein
LU PulmV Sys Vel	SRT	T-48530	Left Superior Pulmonary Vein
LU PulmV Sys Vel	SRT	R-FAB5B	End Systole
LU PulmV Sys Vel	UCUM	cm/s	Centimeter Per Second
LU PulmV Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
LU PulmV Diam	SRT	M-02550	Diameter
LU PulmV Diam	SRT	T-48581	Pulmonary Vein
LU PulmV Diam	SRT	G-03A2	2D mode
LU PulmV Diam	SRT	T-48530	Left Superior Pulmonary Vein
LU PulmV Diam	UCUM	cm	Centimeter
LVAd Sax Endo Area	DCM	125195	Pediatric Cardiac Ultrasound Report
LVAd Sax Endo Area	LN	59094-3	Endocardial Area
LVAd Sax Endo Area	SRT	T-32600	Left Ventricle
LVAd Sax Endo Area	SRT	G-03A2	2D mode
LVAd Sax Endo Area	SRT	G-039B	Parasternal short axis at the Papillary Muscle level
LVAd Sax Endo Area	SRT	F-32011	End Diastole
LVAd Sax Endo Area	UCUM	cm2	Square Centimeter

HD15 3.0.x Report Label	CSD	CV	CM
LVAd Sax Endo Circ	DCM	125195	Pediatric Cardiac Ultrasound Report
LVAd Sax Endo Circ	99PMSBLUS	59094-3-1	Endocardial Circumference
LVAd Sax Endo Circ	SRT	T-32600	Left Ventricle
LVAd Sax Endo Circ	SRT	G-03A2	2D mode
LVAd Sax Endo Circ	SRT	G-039B	Parasternal short axis at the Papillary Muscle level
LVAd Sax Endo Circ	SRT	F-32011	End Diastole
LVAd Sax Endo Circ	UCUM	cm	Centimeter
LVAd Sax Epi Area	DCM	125195	Pediatric Cardiac Ultrasound Report
LVAd Sax Epi Area	LN	59093-5	Epicardial Area
LVAd Sax Epi Area	SRT	T-32600	Left Ventricle
LVAd Sax Epi Area	SRT	G-03A2	2D mode
LVAd Sax Epi Area	SRT	G-039B	Parasternal short axis at the Papillary Muscle level
LVAd Sax Epi Area	SRT	F-32011	End Diastole
LVAd Sax Epi Area	UCUM	cm2	Square Centimeter
LVAd Sax Epi Circ	DCM	125195	Pediatric Cardiac Ultrasound Report
LVAd Sax Epi Circ	99PMSBLUS	59093-5-1	Epicardial Circumference
LVAd Sax Epi Circ	SRT	T-32600	Left Ventricle
LVAd Sax Epi Circ	SRT	G-03A2	2D mode
LVAd Sax Epi Circ	SRT	G-039B	Parasternal short axis at the Papillary Muscle level
LVAd Sax Epi Circ	SRT	F-32011	End Diastole
LVAd Sax Epi Circ	UCUM	cm	Centimeter
LV ET (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
LV ET (MM)	LN	20222-6	Ejection Time
LV ET (MM)	SRT	T-32600	Left Ventricle
LV ET (MM)	SRT	G-0394	M mode
LV ET (MM)	UCUM	sec	Seconds
LV ET (DOP)	DCM	125195	Pediatric Cardiac Ultrasound Report
LV ET (DOP)	LN	20222-6	Ejection Time
LV ET (DOP)	SRT	T-32600	Left Ventricle
LV ET (DOP)	UCUM	sec	Seconds
LVLd Apical	DCM	125195	Pediatric Cardiac Ultrasound Report
LVLd Apical	SRT	G-A193	Major Axis
LVLd Apical	SRT	T-32600	Left Ventricle
LVLd Apical	SRT	G-03A2	2D mode
LVLd Apical	SRT	F-32011	End Diastole
LVLd Apical	UCUM	cm	Centimeter
LV PEP	DCM	125195	Pediatric Cardiac Ultrasound Report
LV PEP	LN	59085-1	Pre-Ejection Period
LV PEP	SRT	T-32600	Left Ventricle
LV PEP	SRT	G-0394	M mode

HD15 3.0.x Report Label	CSD	CV	CM
LV PEP	UCUM	sec	Seconds
LV Dp/dt	LN	18035-6	Mitral Regurgitation dP/dt derived from Mitral Reg velocity
LV Dp/dt	SNM3	T-35300	Mitral Valve
LV Dp/dt	UCUM	mm[Hg]/s	mmHg/s
LVAd (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVAd (A/L)	SRT	G-A166	Area
LVAd (A/L)	SRT	T-32600	Left Ventricle
LVAd (A/L)	SRT	G-03A2	2D mode
LVAd (A/L)	DCM	125226	Single Plane Ellipse
LVAd (A/L)	SRT	F-32011	End Diastole
LVAd (A/L)	UCUM	cm2	Square Centimeter
LVAs (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVAs (A/L)	SRT	G-A166	Area
LVAs (A/L)	SRT	T-32600	Left Ventricle
LVAs (A/L)	SRT	G-03A2	2D mode
LVAs (A/L)	DCM	125226	Single Plane Ellipse
LVAs (A/L)	SRT	R-FAB5B	End Systole
LVAs (A/L)	UCUM	cm2	Square Centimeter
LVED Major-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
LVED Major-A4C	SRT	G-A193	Major Axis
LVED Major-A4C	SRT	T-32600	Left Ventricle
LVED Major-A4C	SRT	G-03A2	2D mode
LVED Major-A4C	SRT	G-A19C	Apical four chamber
LVED Major-A4C	SRT	F-32011	End Diastole
LVED Major-A4C	UCUM	cm	Centimeter
LVED Minor-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
LVED Minor-A4C	SRT	G-A194	Minor Axis
LVED Minor-A4C	SRT	T-32600	Left Ventricle
LVED Minor-A4C	SRT	G-03A2	2D mode
LVED Minor-A4C	SRT	G-A19C	Apical four chamber
LVED Minor-A4C	SRT	F-32011	End Diastole
LVED Minor-A4C	UCUM	cm	Centimeter
LVED SAX CH	DCM	125195	Pediatric Cardiac Ultrasound Report
LVED SAX CH	DCM	121206	Distance
LVED SAX CH	SRT	T-32600	Left Ventricle
LVED SAX CH	SRT	G-03A2	2D mode
LVED SAX CH	SRT	G-0399	Parasternal short axis at the level of the mitral chords
LVED SAX CH	SRT	F-32011	End Diastole
LVED SAX CH	UCUM	cm	Centimeter
LVED SAX PM	DCM	125195	Pediatric Cardiac Ultrasound Report

HD15 3.0.x Report Label	CSD	CV	CM
LVED SAX PM	DCM	121206	Distance
LVED SAX PM	SRT	T-32600	Left Ventricle
LVED SAX PM	SRT	G-03A2	2D mode
LVED SAX PM	SRT	G-039B	Parasternal short axis at the Papillary Muscle level
LVED SAX PM	SRT	F-32011	End Diastole
LVED SAX PM	UCUM	cm	Centimeter
LVES Major-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
LVES Major-A4C	SRT	G-A193	Major Axis
LVES Major-A4C	SRT	T-32600	Left Ventricle
LVES Major-A4C	SRT	G-03A2	2D mode
LVES Major-A4C	SRT	G-A19C	Apical four chamber
LVES Major-A4C	SRT	R-FAB5B	End Systole
LVES Major-A4C	UCUM	cm	Centimeter
LVES Minor-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
LVES Minor-A4C	SRT	G-A194	Minor Axis
LVES Minor-A4C	SRT	T-32600	Left Ventricle
LVES Minor-A4C	SRT	G-03A2	2D mode
LVES Minor-A4C	SRT	G-A19C	Apical four chamber
LVES Minor-A4C	SRT	R-FAB5B	End Systole
LVES Minor-A4C	UCUM	cm	Centimeter
LVES SAX CH	DCM	125195	Pediatric Cardiac Ultrasound Report
LVES SAX CH	DCM	121206	Distance
LVES SAX CH	SRT	T-32600	Left Ventricle
LVES SAX CH	SRT	G-03A2	2D mode
LVES SAX CH	SRT	G-0399	Parasternal short axis at the level of the mitral chords
LVES SAX CH	SRT	R-FAB5B	End Systole
LVES SAX CH	UCUM	cm	Centimeter
LVES SAX PM	DCM	125195	Pediatric Cardiac Ultrasound Report
LVES SAX PM	DCM	121206	Distance
LVES SAX PM	SRT	T-32600	Left Ventricle
LVES SAX PM	SRT	G-03A2	2D mode
LVES SAX PM	SRT	G-039B	Parasternal short axis at the Papillary Muscle level
LVES SAX PM	SRT	R-FAB5B	End Systole
LVES SAX PM	UCUM	cm	Centimeter
LVIDd (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVIDd (2D)	LN	59090-1	ROI Internal Dimension by US
LVIDd (2D)	SRT	T-32600	Left Ventricle
LVIDd (2D)	SRT	G-03A2	2D mode
LVIDd (2D)	SRT	F-32011	End Diastole
LVIDd (2D)	UCUM	cm	Centimeter

HD15 3.0.x Report Label	CSD	CV	CM
LVIDd (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVIDd (MM)	LN	59090-1	ROI Internal Dimension by US
LVIDd (MM)	SRT	T-32600	Left Ventricle
LVIDd (MM)	SRT	G-0394	M mode
LVIDd (MM)	SRT	F-32011	End Diastole
LVIDd (MM)	UCUM	cm	Centimeter
LVIDs (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVIDs (2D)	LN	59090-1	ROI Internal Dimension by US
LVIDs (2D)	SRT	T-32600	Left Ventricle
LVIDs (2D)	SRT	G-03A2	2D mode
LVIDs (2D)	SRT	R-FAB5B	End Systole
LVIDs (2D)	UCUM	cm	Centimeter
LVIDs (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVIDs (MM)	LN	59090-1	ROI Internal Dimension by US
LVIDs (MM)	SRT	T-32600	Left Ventricle
LVIDs (MM)	SRT	G-0394	M mode
LVIDs (MM)	SRT	R-FAB5B	End Systole
LVIDs (MM)	UCUM	cm	Centimeter
LVLd (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVLd (A/L)	SRT	G-A193	Major Axis
LVLd (A/L)	SRT	T-32600	Left Ventricle
LVLd (A/L)	SRT	G-03A2	2D mode
LVLd (A/L)	DCM	125226	Single Plane Ellipse
LVLd (A/L)	SRT	F-32011	End Diastole
LVLd (A/L)	UCUM	cm	Centimeter
LVLs (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVLs (A/L)	SRT	G-A193	Major Axis
LVLs (A/L)	SRT	T-32600	Left Ventricle
LVLs (A/L)	SRT	G-03A2	2D mode
LVLs (A/L)	DCM	125226	Single Plane Ellipse
LVLs (A/L)	SRT	R-FAB5B	End Systole
LVLs (A/L)	UCUM	cm	Centimeter
LVOT Accel Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
LVOT Accel Slope	LN	20167-3	Acceleration Slope
LVOT Accel Slope	SRT	T-32600	Left Ventricle
LVOT Accel Slope	SRT	T-32650	Left Ventricle Outflow Tract
LVOT Accel Slope	UCUM	cm/s2	Centimeter Per Second Square
LVOT Accel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
LVOT Accel Time	LN	20168-1	Acceleration Time
LVOT Accel Time	SRT	T-32600	Left Ventricle

HD15 3.0.x Report Label	CSD	CV	CM
LVOT Accel Time	SRT	T-32650	Left Ventricle Outflow Tract
LVOT Accel Time	UCUM	sec	Seconds
LVOT Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
LVOT Diam	SRT	G-038F	Cardiovascular Orifice Diameter
LVOT Diam	SRT	T-32600	Left Ventricle
LVOT Diam	SRT	T-32650	Left Ventricle Outflow Tract
LVOT Diam	UCUM	cm	Centimeter
LVOT Area	DCM	125195	Pediatric Cardiac Ultrasound Report
LVOT Area	SRT	G-038E	Cardiovascular Orifice Area
LVOT Area	SRT	T-32600	Left Ventricle
LVOT Area	SRT	T-32650	Left Ventricle Outflow Tract
LVOT Area	UCUM	cm2	Square Centimeter
LVOT Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
LVOT Max PG	LN	20247-3	Peak Gradient
LVOT Max PG	SRT	T-32600	Left Ventricle
LVOT Max PG	SRT	T-32650	Left Ventricle Outflow Tract
LVOT Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
LVOT Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
LVOT Vmax	LN	20351-3	Peak Velocity
LVOT Vmax	SRT	T-32600	Left Ventricle
LVOT Vmax	SRT	T-32650	Left Ventricle Outflow Tract
LVOT Vmax	UCUM	cm/s	Centimeter Per Second
LVOT Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
LVOT Mean PG	LN	20256-4	Mean Gradient
LVOT Mean PG	SRT	T-32600	Left Ventricle
LVOT Mean PG	SRT	T-32650	Left Ventricle Outflow Tract
LVOT Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
LVOT Vmean	DCM	125195	Pediatric Cardiac Ultrasound Report
LVOT Vmean	LN	11692-1	Time Averaged Peak Velocity
LVOT Vmean	SRT	T-32600	Left Ventricle
LVOT Vmean	SRT	T-32650	Left Ventricle Outflow Tract
LVOT Vmean	UCUM	cm/s	Centimeter Per Second
LVOT VTI	DCM	125195	Pediatric Cardiac Ultrasound Report
LVOT VTI	LN	20354-7	Velocity Time Integral
LVOT VTI	SRT	T-32600	Left Ventricle
LVOT VTI	SRT	T-32650	Left Ventricle Outflow Tract
LVOT VTI	UCUM	cm	Centimeter
LVPWd (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVPWd (2D)	LN	59089-3	ROI Thickness by US
LVPWd (2D)	SRT	T-32600	Left Ventricle

HD15 3.0.x Report Label	CSD	CV	CM
LVPWd (2D)	SRT	G-03A2	2D mode
LVPWd (2D)	SRT	R-42175	Posterior Wall
LVPWd (2D)	SRT	F-32011	End Diastole
LVPWd (2D)	UCUM	cm	Centimeter
LVPWd (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVPWd (MM)	LN	59089-3	ROI Thickness by US
LVPWd (MM)	SRT	T-32600	Left Ventricle
LVPWd (MM)	SRT	G-0394	M mode
LVPWd (MM)	SRT	R-42175	Posterior Wall
LVPWd (MM)	SRT	F-32011	End Diastole
LVPWd (MM)	UCUM	cm	Centimeter
LVPWs (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVPWs (2D)	LN	59089-3	ROI Thickness by US
LVPWs (2D)	SRT	T-32600	Left Ventricle
LVPWs (2D)	SRT	G-03A2	2D mode
LVPWs (2D)	SRT	R-42175	Posterior Wall
LVPWs (2D)	SRT	R-FAB5B	End Systole
LVPWs (2D)	UCUM	cm	Centimeter
LVPWs (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVPWs (MM)	LN	59089-3	ROI Thickness by US
LVPWs (MM)	SRT	T-32600	Left Ventricle
LVPWs (MM)	SRT	G-0394	M mode
LVPWs (MM)	SRT	R-42175	Posterior Wall
LVPWs (MM)	SRT	R-FAB5B	End Systole
LVPWs (MM)	UCUM	cm	Centimeter
Med A` Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
Med A` Vel	LN	59133-9	Peak Tissue Velocity
Med A` Vel	SRT	T-32600	Left Ventricle
Med A` Vel	SRT	P5-B0128	Tissue Doppler Imaging
Med A` Vel	SRT	G-0391	Medial Mitral Annulus
Med A` Vel	SRT	F-32030	Atrial Systole
Med A` Vel	UCUM	cm/s	Centimeter Per Second
Med E` Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
Med E` Vel	LN	59133-9	Peak Tissue Velocity
Med E` Vel	SRT	T-32600	Left Ventricle
Med E` Vel	SRT	P5-B0128	Tissue Doppler Imaging
Med E` Vel	SRT	G-0391	Medial Mitral Annulus
Med E` Vel	SRT	R-40B1B	Early Diastole
Med E` Vel	UCUM	cm/s	Centimeter Per Second
Med S Vel	DCM	125195	Pediatric Cardiac Ultrasound Report

HD15 3.0.x Report Label	CSD	CV	CM
Med S Vel	LN	59133-9	Peak Tissue Velocity
Med S Vel	SRT	T-32600	Left Ventricle
Med S Vel	SRT	P5-B0128	Tissue Doppler Imaging
Med S Vel	SRT	G-0391	Medial Mitral Annulus
Med S Vel	SRT	R-FAB5B	End Systole
Med S Vel	UCUM	cm/s	Centimeter Per Second
LV R-R (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
LV R-R (MM)	LN	8867-4	Heart Rate
LV R-R (MM)	SRT	T-32600	Left Ventricle
LV R-R (MM)	SRT	G-0394	M mode
LV R-R (MM)	UCUM	sec	Seconds
MPA Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
MPA Diam	SRT	M-02550	Diameter
MPA Diam	SRT	T-44000	Pulmonary artery
MPA Diam	SRT	G-03A2	2D mode
MPA Diam	UCUM	cm	Centimeter
MPA Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
MPA Mean PG	LN	20256-4	Mean Gradient
MPA Mean PG	SRT	T-44100	Pulmonary Trunk
MPA Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
MPA Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
MPA Max PG	LN	20247-3	Peak Gradient
MPA Max PG	SRT	T-44100	Pulmonary Trunk
MPA Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
MPA Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
MPA Vmax	LN	20351-3	Peak Velocity
MPA Vmax	SRT	T-44100	Pulmonary Trunk
MPA Vmax	UCUM	cm/s	Centimeter Per Second
MR Alias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
MR Alias Vel	LN	59130-5	Alias velocity
MR Alias Vel	SRT	T-35300	Mitral Valve
MR Alias Vel	SRT	G-0367	Regurgitant Flow
MR Alias Vel	UCUM	cm/s	Centimeter Per Second
MR Radius	DCM	125195	Pediatric Cardiac Ultrasound Report
MR Radius	LN	59102-4	Flow Radius
MR Radius	SRT	T-35300	Mitral Valve
MR Radius	SRT	G-03A2	2D mode
MR Radius	SRT	G-0367	Regurgitant Flow
MR Radius	UCUM	cm	Centimeter
MR Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report

HD15 3.0.x Report Label	CSD	CV	CM
MR Max PG	LN	20247-3	Peak Gradient
MR Max PG	SRT	T-35300	Mitral Valve
MR Max PG	SRT	G-0367	Regurgitant Flow
MR Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
MR Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
MR Vmax	LN	20351-3	Peak Velocity
MR Vmax	SRT	T-35300	Mitral Valve
MR Vmax	SRT	G-0367	Regurgitant Flow
MR Vmax	UCUM	cm/s	Centimeter Per Second
MR Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
MR Mean PG	LN	20256-4	Mean Gradient
MR Mean PG	SRT	T-35300	Mitral Valve
MR Mean PG	SRT	G-0367	Regurgitant Flow
MR Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
MR Vmean	DCM	125195	Pediatric Cardiac Ultrasound Report
MR Vmean	LN	11692-1	Time Averaged Peak Velocity
MR Vmean	SRT	T-35300	Mitral Valve
MR Vmean	SRT	G-0367	Regurgitant Flow
MR Vmean	UCUM	cm/s	Centimeter Per Second
MR VTI	DCM	125195	Pediatric Cardiac Ultrasound Report
MR VTI	LN	20354-7	Velocity Time Integral
MR VTI	SRT	T-35300	Mitral Valve
MR VTI	SRT	G-0367	Regurgitant Flow
MR VTI	UCUM	cm	Centimeter
MV A Dur	DCM	125195	Pediatric Cardiac Ultrasound Report
MV A Dur	LN	59105-7	A-Wave Duration
MV A Dur	SRT	T-35300	Mitral Valve
MV A Dur	UCUM	sec	Seconds
MV A-C Interval	DCM	125195	Pediatric Cardiac Ultrasound Report
MV A-C Interval	LN	59103-2	A-C Interval
MV A-C Interval	SRT	T-35300	Mitral Valve
MV A-C Interval	SRT	G-0394	M mode
MV A-C Interval	UCUM	sec	Seconds
MV Alias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Alias Vel	LN	59130-5	Alias velocity
MV Alias Vel	SRT	T-35300	Mitral Valve
MV Alias Vel	SRT	R-42047	Antegrade Flow
MV Alias Vel	UCUM	cm/s	Centimeter Per Second
MV Annul Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Annul Diam	SRT	M-02550	Diameter

HD15 3.0.x Report Label	CSD	CV	CM
MV Annul Diam	SRT	T-35300	Mitral Valve
MV Annul Diam	SRT	G-03A2	2D mode
MV Annul Diam	SRT	T-3500E	Cardiac valve annulus
MV Annul Diam	UCUM	cm	Centimeter
MV Area (Planim)	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Area (Planim)	SRT	G-038E	Cardiovascular Orifice Area
MV Area (Planim)	SRT	T-35300	Mitral Valve
MV Area (Planim)	SRT	G-03A2	2D mode
MV Area (Planim)	DCM	125220	Planimetry
MV Area (Planim)	UCUM	cm2	Square Centimeter
MV Acc Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Acc Slope	LN	20167-3	Acceleration Slope
MV Acc Slope	SRT	T-35300	Mitral Valve
MV Acc Slope	SRT	R-42047	Antegrade Flow
MV Acc Slope	UCUM	cm/s2	Centimeter Per Second Square
MV Acc Time	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Acc Time	LN	20168-1	Acceleration Time
MV Acc Time	SRT	T-35300	Mitral Valve
MV Acc Time	SRT	R-42047	Antegrade Flow
MV Acc Time	UCUM	sec	Seconds
MV Closure to Opening	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Closure to Opening	LN	59082-8	Closure to Opening Time
MV Closure to Opening	SRT	T-35300	Mitral Valve
MV Closure to Opening	UCUM	sec	Seconds
MV D-E Exc Dist	DCM	125195	Pediatric Cardiac Ultrasound Report
MV D-E Exc Dist	LN	59091-9	D-E Excursion
MV D-E Exc Dist	SRT	T-35300	Mitral Valve
MV D-E Exc Dist	SRT	G-0394	M mode
MV D-E Exc Dist	UCUM	cm	Centimeter
MV D-E Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
MV D-E Slope	LN	59127-1	D-E Slope
MV D-E Slope	SRT	T-35300	Mitral Valve
MV D-E Slope	SRT	G-0394	M mode
MV D-E Slope	UCUM	cm/s	Centimeter Per Second
MV DFP	DCM	125195	Pediatric Cardiac Ultrasound Report
MV DFP	SRT	R-0032C	Mitral Diastolic Filling Period (DFPm)
MV DFP	SRT	T-35300	Mitral Valve
MV DFP	UCUM	sec	Seconds
MV Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Diam	SRT	G-038F	Cardiovascular Orifice Diameter

HD15 3.0.x Report Label	CSD	CV	CM
MV Diam	SRT	T-35300	Mitral Valve
MV Diam	SRT	G-03A2	2D mode
MV Diam	UCUM	cm	Centimeter
MV Decel Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Decel Slope	LN	20216-8	Deceleration Slope
MV Decel Slope	SRT	T-35300	Mitral Valve
MV Decel Slope	SRT	R-42047	Antegrade Flow
MV Decel Slope	UCUM	cm/s2	Centimeter Per Second Square
MV Decel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Decel Time	LN	20217-6	Deceleration Time
MV Decel Time	SRT	T-35300	Mitral Valve
MV Decel Time	SRT	R-42047	Antegrade Flow
MV Decel Time	UCUM	sec	Seconds
MV E-E Sep	DCM	125195	Pediatric Cardiac Ultrasound Report
MV E-E Sep	LN	59098-4	Mitral Valve E-septal Separation
MV E-E Sep	SRT	T-35300	Mitral Valve
MV E-E Sep	SRT	G-0394	M mode
MV E-E Sep	UCUM	cm	Centimeter
MV E-F Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
MV E-F Slope	LN	59128-9	E-F Slope
MV E-F Slope	SRT	T-35300	Mitral Valve
MV E-F Slope	SRT	G-0394	M mode
MV E-F Slope	UCUM	cm/s	Centimeter Per Second
MV EPSS	DCM	125195	Pediatric Cardiac Ultrasound Report
MV EPSS	LN	18036-4	Mitral Valve EPSS, E wave
MV EPSS	SRT	T-35300	Mitral Valve
MV EPSS	SRT	G-0394	M mode
MV EPSS	UCUM	cm	Centimeter
MV Major	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Major	SRT	G-A193	Major Axis
MV Major	SRT	T-35300	Mitral Valve
MV Major	SRT	G-03A2	2D mode
MV Major	UCUM	cm	Centimeter
MV Minor	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Minor	SRT	G-A194	Minor Axis
MV Minor	SRT	T-35300	Mitral Valve
MV Minor	SRT	G-03A2	2D mode
MV Minor	UCUM	cm	Centimeter
MV Peak A Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Peak A Vel	LN	59081-0	A-Wave Peak Velocity

HD15 3.0.x Report Label	CSD	CV	CM
MV Peak A Vel	SRT	T-35300	Mitral Valve
MV Peak A Vel	SRT	R-42047	Antegrade Flow
MV Peak A Vel	UCUM	cm/s	Centimeter Per Second
MV Peak E Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Peak E Vel	LN	59080-2	E-Wave Peak Velocity
MV Peak E Vel	SRT	T-35300	Mitral Valve
MV Peak E Vel	SRT	R-42047	Antegrade Flow
MV Peak E Vel	UCUM	cm/s	Centimeter Per Second
MV P1/2t	DCM	125195	Pediatric Cardiac Ultrasound Report
MV P1/2t	LN	20280-4	Pressure Half-Time
MV P1/2t	SRT	T-35300	Mitral Valve
MV P1/2t	UCUM	msec	Millisecond
MV Radius	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Radius	LN	59102-4	Flow Radius
MV Radius	SRT	T-35300	Mitral Valve
MV Radius	SRT	R-42047	Antegrade Flow
MV Radius	UCUM	cm	Centimeter
MV Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Max PG	LN	20247-3	Peak Gradient
MV Max PG	SRT	T-35300	Mitral Valve
MV Max PG	SRT	R-42047	Antegrade Flow
MV Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
MV Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Vmax	LN	20351-3	Peak Velocity
MV Vmax	SRT	T-35300	Mitral Valve
MV Vmax	SRT	R-42047	Antegrade Flow
MV Vmax	UCUM	cm/s	Centimeter Per Second
MV Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Mean PG	LN	20256-4	Mean Gradient
MV Mean PG	SRT	T-35300	Mitral Valve
MV Mean PG	SRT	R-42047	Antegrade Flow
MV Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
MV Vmean	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Vmean	LN	11692-1	Time Averaged Peak Velocity
MV Vmean	SRT	T-35300	Mitral Valve
MV Vmean	SRT	R-42047	Antegrade Flow
MV Vmean	UCUM	cm/s	Centimeter Per Second
MV VTI	DCM	125195	Pediatric Cardiac Ultrasound Report
MV VTI	LN	20354-7	Velocity Time Integral
MV VTI	SRT	T-35300	Mitral Valve

HD15 3.0.x Report Label	CSD	CV	CM
MV VTI	SRT	R-42047	Antegrade Flow
MV VTI	UCUM	cm	Centimeter
PA Acc Time	DCM	125195	Pediatric Cardiac Ultrasound Report
PA Acc Time	LN	20168-1	Acceleration Time
PA Acc Time	SRT	T-44100	Pulmonary Trunk
PA Acc Time	UCUM	sec	Seconds
PDA Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
PDA Diam	SRT	M-02550	Diameter
PDA Diam	SRT	D4-32012	Patent Ductus Arteriosus
PDA Diam	SRT	G-03A2	2D mode
PDA Diam	UCUM	cm	Centimeter
PDA Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
PDA Dias Vel	LN	20351-3	Peak Velocity
PDA Dias Vel	SRT	D4-32012	Patent Ductus Arteriosus
PDA Dias Vel	SRT	F-32011	End Diastole
PDA Dias Vel	UCUM	cm/s	Centimeter Per Second
PDA Sys Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
PDA Sys Vel	LN	20351-3	Peak Velocity
PDA Sys Vel	SRT	D4-32012	Patent Ductus Arteriosus
PDA Sys Vel	SRT	R-FAB5B	End Systole
PDA Sys Vel	UCUM	cm/s	Centimeter Per Second
PDC Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
PDC Diam	SRT	M-02550	Diameter
PDC Diam	SRT	T-D0878	Posterior Descending Coronary Artery
PDC Diam	SRT	G-03A2	2D mode
PDC Diam	UCUM	cm	Centimeter
PI Decel Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
PI Decel Slope	LN	20216-8	Deceleration Slope
PI Decel Slope	SRT	T-35200	Pulmonic Valve
PI Decel Slope	SRT	G-0367	Regurgitant Flow
PI Decel Slope	UCUM	cm/s2	Centimeter Per Second Square
PI Decel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
PI Decel Time	LN	20217-6	Deceleration Time
PI Decel Time	SRT	T-35200	Pulmonic Valve
PI Decel Time	SRT	G-0367	Regurgitant Flow
PI Decel Time	UCUM	sec	Seconds
PI End Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
PI End Dias Vel	LN	11653-3	End Diastolic Velocity
PI End Dias Vel	SRT	T-35200	Pulmonic Valve
PI End Dias Vel	SRT	G-0367	Regurgitant Flow

HD15 3.0.x Report Label	CSD	CV	CM
PI End Dias Vel	UCUM	cm/s	Centimeter Per Second
PI P1/2t	DCM	125195	Pediatric Cardiac Ultrasound Report
PI P1/2t	LN	20280-4	Pressure Half-Time
PI P1/2t	SRT	T-35200	Pulmonic Valve
PI P1/2t	SRT	G-0367	Regurgitant Flow
PI P1/2t	UCUM	msec	Millisecond
PI P1/2t Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
PI P1/2t Vmax	99PMSBLUS	C12222-03	Pressure Half-Time Peak velocity
PI P1/2t Vmax	SRT	T-35200	Pulmonic Valve
PI P1/2t Vmax	SRT	G-0367	Regurgitant Flow
PI P1/2t Vmax	UCUM	cm/s	Centimeter Per Second
PulmV A Dur	DCM	125195	Pediatric Cardiac Ultrasound Report
PulmV A Dur	LN	59105-7	A-Wave Duration
PulmV A Dur	SRT	T-48581	Pulmonary Vein
PulmV A Dur	UCUM	sec	Seconds
PulmV A Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
PulmV A Vel	LN	59079-4	Peak Reversal Velocity during Atrial Contraction
PulmV A Vel	SRT	T-48581	Pulmonary Vein
PulmV A Vel	UCUM	cm/s	Centimeter Per Second
PulmV Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
PulmV Dias Vel	LN	20351-3	Peak Velocity
PulmV Dias Vel	SRT	T-48581	Pulmonary Vein
PulmV Dias Vel	SRT	F-32011	End Diastole
PulmV Dias Vel	UCUM	cm/s	Centimeter Per Second
PulmV Sys Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
PulmV Sys Vel	LN	20351-3	Peak Velocity
PulmV Sys Vel	SRT	T-48581	Pulmonary Vein
PulmV Sys Vel	SRT	R-FAB5B	End Systole
PulmV Sys Vel	UCUM	cm/s	Centimeter Per Second
PV Annul Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
PV Annul Diam	SRT	M-02550	Diameter
PV Annul Diam	SRT	T-35200	Pulmonic Valve
PV Annul Diam	SRT	G-03A2	2D mode
PV Annul Diam	SRT	T-3500E	Cardiac valve annulus
PV Annul Diam	UCUM	cm	Centimeter
PV Acc Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
PV Acc Slope	LN	20167-3	Acceleration Slope
PV Acc Slope	SRT	T-35200	Pulmonic Valve
PV Acc Slope	SRT	R-42047	Antegrade Flow
PV Acc Slope	UCUM	cm/s2	Centimeter Per Second Square

HD15 3.0.x Report Label	CSD	CV	CM
PV Acc Time	DCM	125195	Pediatric Cardiac Ultrasound Report
PV Acc Time	LN	20168-1	Acceleration Time
PV Acc Time	SRT	T-35200	Pulmonic Valve
PV Acc Time	SRT	R-42047	Antegrade Flow
PV Acc Time	UCUM	sec	Seconds
PV Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
PV Max PG	LN	20247-3	Peak Gradient
PV Max PG	SRT	T-35200	Pulmonic Valve
PV Max PG	SRT	R-42047	Antegrade Flow
PV Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
PV Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
PV Vmax	LN	20351-3	Peak Velocity
PV Vmax	SRT	T-35200	Pulmonic Valve
PV Vmax	SRT	R-42047	Antegrade Flow
PV Vmax	UCUM	cm/s	Centimeter Per Second
PV Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
PV Mean PG	LN	20256-4	Mean Gradient
PV Mean PG	SRT	T-35200	Pulmonic Valve
PV Mean PG	SRT	R-42047	Antegrade Flow
PV Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
PV Vmean	DCM	125195	Pediatric Cardiac Ultrasound Report
PV Vmean	LN	11692-1	Time Averaged Peak Velocity
PV Vmean	SRT	T-35200	Pulmonic Valve
PV Vmean	SRT	R-42047	Antegrade Flow
PV Vmean	UCUM	cm/s	Centimeter Per Second
PV VTI	DCM	125195	Pediatric Cardiac Ultrasound Report
PV VTI	LN	20354-7	Velocity Time Integral
PV VTI	SRT	T-35200	Pulmonic Valve
PV VTI	SRT	R-42047	Antegrade Flow
PV VTI	UCUM	cm	Centimeter
AV R-R (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
AV R-R (MM)	LN	8867-4	Heart Rate
AV R-R (MM)	SRT	T-35400	Aortic Valve
AV R-R (MM)	SRT	G-0394	M mode
AV R-R (MM)	UCUM	sec	Seconds
AV R-R (DOP)	DCM	125195	Pediatric Cardiac Ultrasound Report
AV R-R (DOP)	LN	8867-4	Heart Rate
AV R-R (DOP)	SRT	T-35400	Aortic Valve
AV R-R (DOP)	UCUM	sec	Seconds
LV R-R (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report

HD15 3.0.x Report Label	CSD	CV	CM
LV R-R (2D)	LN	8867-4	Heart Rate
LV R-R (2D)	SRT	T-32600	Left Ventricle
LV R-R (2D)	UCUM	sec	Seconds
MV R-R (DOP)	DCM	125195	Pediatric Cardiac Ultrasound Report
MV R-R (DOP)	LN	8867-4	Heart Rate
MV R-R (DOP)	SRT	T-35300	Mitral Valve
MV R-R (DOP)	UCUM	sec	Seconds
PV R-R (DOP)	DCM	125195	Pediatric Cardiac Ultrasound Report
PV R-R (DOP)	LN	8867-4	Heart Rate
PV R-R (DOP)	SRT	T-35200	Pulmonic Valve
PV R-R (DOP)	UCUM	sec	Seconds
TV R-R (DOP)	DCM	125195	Pediatric Cardiac Ultrasound Report
TV R-R (DOP)	LN	8867-4	Heart Rate
TV R-R (DOP)	SRT	T-35100	Tricuspid Valve
TV R-R (DOP)	UCUM	sec	Seconds
PV R-R (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
PV R-R (MM)	LN	8867-4	Heart Rate
PV R-R (MM)	SRT	T-35200	Pulmonic Valve
PV R-R (MM)	SRT	G-0394	M mode
PV R-R (MM)	UCUM	sec	Seconds
RA Dimen (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
RA Dimen (2D)	LN	59090-1	ROI Internal Dimension by US
RA Dimen (2D)	SRT	T-32200	Right Atrium
RA Dimen (2D)	SRT	G-03A2	2D mode
RA Dimen (2D)	UCUM	cm	Centimeter
RA Dimen (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
RA Dimen (MM)	LN	59090-1	ROI Internal Dimension by US
RA Dimen (MM)	SRT	T-32200	Right Atrium
RA Dimen (MM)	SRT	G-0394	M mode
RA Dimen (MM)	UCUM	cm	Centimeter
RA Pressure	DCM	125195	Pediatric Cardiac Ultrasound Report
RA Pressure	LN	18070-3	Right Atrium Systolic Pressure
RA Pressure	SRT	T-32200	Right Atrium
RA Pressure	SRT	R-FAB5B	End Systole
RA Pressure	UCUM	mm[Hg]	Millimeters Of Mercury
RAED Major-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
RAED Major-A4C	SRT	G-A193	Major Axis
RAED Major-A4C	SRT	T-32200	Right Atrium
RAED Major-A4C	SRT	G-03A2	2D mode
RAED Major-A4C	SRT	G-A19C	Apical four chamber

HD15 3.0.x Report Label	CSD	CV	CM
RAED Major-A4C	SRT	F-32011	End Diastole
RAED Major-A4C	UCUM	cm	Centimeter
RAED Minor-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
RAED Minor-A4C	SRT	G-A194	Minor Axis
RAED Minor-A4C	SRT	T-32200	Right Atrium
RAED Minor-A4C	SRT	G-03A2	2D mode
RAED Minor-A4C	SRT	G-A19C	Apical four chamber
RAED Minor-A4C	SRT	F-32011	End Diastole
RAED Minor-A4C	UCUM	cm	Centimeter
RAES Major-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
RAES Major-A4C	SRT	G-A193	Major Axis
RAES Major-A4C	SRT	T-32200	Right Atrium
RAES Major-A4C	SRT	G-03A2	2D mode
RAES Major-A4C	SRT	G-A19C	Apical four chamber
RAES Major-A4C	SRT	R-FAB5B	End Systole
RAES Major-A4C	UCUM	cm	Centimeter
RAES Minor-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
RAES Minor-A4C	SRT	G-A194	Minor Axis
RAES Minor-A4C	SRT	T-32200	Right Atrium
RAES Minor-A4C	SRT	G-03A2	2D mode
RAES Minor-A4C	SRT	G-A19C	Apical four chamber
RAES Minor-A4C	SRT	R-FAB5B	End Systole
RAES Minor-A4C	UCUM	cm	Centimeter
RCA Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
RCA Diam	SRT	M-02550	Diameter
RCA Diam	SRT	T-43203	Right Coronary Artery
RCA Diam	SRT	G-03A2	2D mode
RCA Diam	UCUM	cm	Centimeter
RL PulmV A Dur	DCM	125195	Pediatric Cardiac Ultrasound Report
RL PulmV A Dur	LN	59105-7	A-Wave Duration
RL PulmV A Dur	SRT	T-48581	Pulmonary Vein
RL PulmV A Dur	SRT	T-48520	Right Inferior Pulmonary Vein
RL PulmV A Dur	UCUM	sec	Seconds
RL PulmV A Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
RL PulmV A Vel	LN	59079-4	Peak Reversal Velocity during Atrial Contraction
RL PulmV A Vel	SRT	T-48581	Pulmonary Vein
RL PulmV A Vel	SRT	T-48520	Right Inferior Pulmonary Vein
RL PulmV A Vel	UCUM	cm/s	Centimeter Per Second
RL PulmV Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
RL PulmV Dias Vel	LN	20351-3	Peak Velocity

HD15 3.0.x Report Label	CSD	CV	CM
RL PulmV Dias Vel	SRT	T-48581	Pulmonary Vein
RL PulmV Dias Vel	SRT	T-48520	Right Inferior Pulmonary Vein
RL PulmV Dias Vel	SRT	F-32011	End Diastole
RL PulmV Dias Vel	UCUM	cm/s	Centimeter Per Second
RL PulmV Sys Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
RL PulmV Sys Vel	LN	20351-3	Peak Velocity
RL PulmV Sys Vel	SRT	T-48581	Pulmonary Vein
RL PulmV Sys Vel	SRT	T-48520	Right Inferior Pulmonary Vein
RL PulmV Sys Vel	SRT	R-FAB5B	End Systole
RL PulmV Sys Vel	UCUM	cm/s	Centimeter Per Second
RL PulmV Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
RL PulmV Diam	SRT	M-02550	Diameter
RL PulmV Diam	SRT	T-48581	Pulmonary Vein
RL PulmV Diam	SRT	G-03A2	2D mode
RL PulmV Diam	SRT	T-48520	Right Inferior Pulmonary Vein
RL PulmV Diam	UCUM	cm	Centimeter
RPA Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
RPA Diam	SRT	M-02550	Diameter
RPA Diam	SRT	T-44000	Pulmonary artery
RPA Diam	SRT	G-03A2	2D mode
RPA Diam	SRT	T-44200	Right pulmonary artery
RPA Diam	UCUM	cm	Centimeter
RPA Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
RPA Mean PG	LN	20256-4	Mean Gradient
RPA Mean PG	SRT	T-44000	Pulmonary artery
RPA Mean PG	SRT	T-44200	Right pulmonary artery
RPA Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
RPA Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
RPA Max PG	LN	20247-3	Peak Gradient
RPA Max PG	SRT	T-44000	Pulmonary artery
RPA Max PG	SRT	T-44200	Right pulmonary artery
RPA Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
RPA Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
RPA Vmax	LN	20351-3	Peak Velocity
RPA Vmax	SRT	T-44000	Pulmonary artery
RPA Vmax	SRT	T-44200	Right pulmonary artery
RPA Vmax	UCUM	cm/s	Centimeter Per Second
R to AV Closure	DCM	125195	Pediatric Cardiac Ultrasound Report
R to AV Closure	99PMSBLUS	C12211-07	R Wave to Aortic Valve Closure Time
R to AV Closure	SRT	T-35400	Aortic Valve

HD15 3.0.x Report Label	CSD	CV	CM
R to AV Closure	UCUM	msec	Millisecond
R to AV Open	DCM	125195	Pediatric Cardiac Ultrasound Report
R to AV Open	99PMSBLUS	C12211-06	R Wave to Aortic Valve Opening Time
R to AV Open	SRT	T-35400	Aortic Valve
R to AV Open	UCUM	msec	Millisecond
R to MV Closure	DCM	125195	Pediatric Cardiac Ultrasound Report
R to MV Closure	99PMSBLUS	C12207-42	R Wave to Mitral Valve Closure Time
R to MV Closure	SRT	T-35300	Mitral Valve
R to MV Closure	UCUM	msec	Millisecond
R to MV Open	DCM	125195	Pediatric Cardiac Ultrasound Report
R to MV Open	99PMSBLUS	C12207-41	R Wave to Mitral Valve Opening Time
R to MV Open	SRT	T-35300	Mitral Valve
R to MV Open	UCUM	msec	Millisecond
RU PulmV A Dur	DCM	125195	Pediatric Cardiac Ultrasound Report
RU PulmV A Dur	LN	59105-7	A-Wave Duration
RU PulmV A Dur	SRT	T-48581	Pulmonary Vein
RU PulmV A Dur	SRT	T-48510	Right Superior Pulmonary Vein
RU PulmV A Dur	UCUM	sec	Seconds
RU PulmV A Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
RU PulmV A Vel	LN	59079-4	Peak Reversal Velocity during Atrial Contraction
RU PulmV A Vel	SRT	T-48581	Pulmonary Vein
RU PulmV A Vel	SRT	T-48510	Right Superior Pulmonary Vein
RU PulmV A Vel	UCUM	cm/s	Centimeter Per Second
RU PulmV Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
RU PulmV Dias Vel	LN	20351-3	Peak Velocity
RU PulmV Dias Vel	SRT	T-48581	Pulmonary Vein
RU PulmV Dias Vel	SRT	T-48510	Right Superior Pulmonary Vein
RU PulmV Dias Vel	SRT	F-32011	End Diastole
RU PulmV Dias Vel	UCUM	cm/s	Centimeter Per Second
RU PulmV Sys Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
RU PulmV Sys Vel	LN	20351-3	Peak Velocity
RU PulmV Sys Vel	SRT	T-48581	Pulmonary Vein
RU PulmV Sys Vel	SRT	T-48510	Right Superior Pulmonary Vein
RU PulmV Sys Vel	SRT	R-FAB5B	End Systole
RU PulmV Sys Vel	UCUM	cm/s	Centimeter Per Second
RU PulmV Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
RU PulmV Diam	SRT	M-02550	Diameter
RU PulmV Diam	SRT	T-48581	Pulmonary Vein
RU PulmV Diam	SRT	G-03A2	2D mode
RU PulmV Diam	SRT	T-48510	Right Superior Pulmonary Vein

HD15 3.0.x Report Label	CSD	CV	CM
RU PulmV Diam	UCUM	cm	Centimeter
RV ET (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
RV ET (MM)	LN	20222-6	Ejection Time
RV ET (MM)	SRT	T-32500	Right Ventricle
RV ET (MM)	SRT	G-0394	M mode
RV ET (MM)	UCUM	sec	Seconds
RV ET (DOP)	DCM	125195	Pediatric Cardiac Ultrasound Report
RV ET (DOP)	LN	20222-6	Ejection Time
RV ET (DOP)	SRT	T-32500	Right Ventricle
RV ET (DOP)	UCUM	sec	Seconds
RV PEP	DCM	125195	Pediatric Cardiac Ultrasound Report
RV PEP	LN	59085-1	Pre-Ejection Period
RV PEP	SRT	T-32500	Right Ventricle
RV PEP	SRT	G-0394	M mode
RV PEP	UCUM	sec	Seconds
RVAWd (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
RVAWd (2D)	LN	59089-3	ROI Thickness by US
RVAWd (2D)	SRT	T-32500	Right Ventricle
RVAWd (2D)	SRT	G-03A2	2D mode
RVAWd (2D)	SRT	R-4210B	Anterior Wall
RVAWd (2D)	SRT	F-32011	End Diastole
RVAWd (2D)	UCUM	cm	Centimeter
RVAWd (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
RVAWd (MM)	LN	59089-3	ROI Thickness by US
RVAWd (MM)	SRT	T-32500	Right Ventricle
RVAWd (MM)	SRT	G-0394	M mode
RVAWd (MM)	SRT	R-4210B	Anterior Wall
RVAWd (MM)	SRT	F-32011	End Diastole
RVAWd (MM)	UCUM	cm	Centimeter
RVED Major-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
RVED Major-A4C	SRT	G-A193	Major Axis
RVED Major-A4C	SRT	T-32500	Right Ventricle
RVED Major-A4C	SRT	G-03A2	2D mode
RVED Major-A4C	SRT	G-A19C	Apical four chamber
RVED Major-A4C	SRT	F-32011	End Diastole
RVED Major-A4C	UCUM	cm	Centimeter
RVED Minor-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
RVED Minor-A4C	SRT	G-A194	Minor Axis
RVED Minor-A4C	SRT	T-32500	Right Ventricle
RVED Minor-A4C	SRT	G-03A2	2D mode

HD15 3.0.x Report Label	CSD	CV	CM
RVED Minor-A4C	SRT	G-A19C	Apical four chamber
RVED Minor-A4C	SRT	F-32011	End Diastole
RVED Minor-A4C	UCUM	cm	Centimeter
RVES Major-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
RVES Major-A4C	SRT	G-A193	Major Axis
RVES Major-A4C	SRT	T-32500	Right Ventricle
RVES Major-A4C	SRT	G-03A2	2D mode
RVES Major-A4C	SRT	G-A19C	Apical four chamber
RVES Major-A4C	SRT	R-FAB5B	End Systole
RVES Major-A4C	UCUM	cm	Centimeter
RVES Minor-A4C	DCM	125195	Pediatric Cardiac Ultrasound Report
RVES Minor-A4C	SRT	G-A194	Minor Axis
RVES Minor-A4C	SRT	T-32500	Right Ventricle
RVES Minor-A4C	SRT	G-03A2	2D mode
RVES Minor-A4C	SRT	G-A19C	Apical four chamber
RVES Minor-A4C	SRT	R-FAB5B	End Systole
RVES Minor-A4C	UCUM	cm	Centimeter
RVIDd (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
RVIDd (2D)	LN	59090-1	ROI Internal Dimension by US
RVIDd (2D)	SRT	T-32500	Right Ventricle
RVIDd (2D)	SRT	G-03A2	2D mode
RVIDd (2D)	SRT	F-32011	End Diastole
RVIDd (2D)	UCUM	cm	Centimeter
RVIDd (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
RVIDd (MM)	LN	59090-1	ROI Internal Dimension by US
RVIDd (MM)	SRT	T-32500	Right Ventricle
RVIDd (MM)	SRT	G-0394	M mode
RVIDd (MM)	SRT	F-32011	End Diastole
RVIDd (MM)	UCUM	cm	Centimeter
RVOT Acc Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
RVOT Acc Slope	LN	20167-3	Acceleration Slope
RVOT Acc Slope	SRT	T-32500	Right Ventricle
RVOT Acc Slope	SRT	T-32550	Right Ventricle Outflow Tract
RVOT Acc Slope	UCUM	cm/s2	Centimeter Per Second Square
RVOT Acc Time	DCM	125195	Pediatric Cardiac Ultrasound Report
RVOT Acc Time	LN	20168-1	Acceleration Time
RVOT Acc Time	SRT	T-32500	Right Ventricle
RVOT Acc Time	SRT	T-32550	Right Ventricle Outflow Tract
RVOT Acc Time	UCUM	sec	Seconds
RVOT Diam	DCM	125195	Pediatric Cardiac Ultrasound Report

HD15 3.0.x Report Label	CSD	CV	CM
RVOT Diam	SRT	G-038F	Cardiovascular Orifice Diameter
RVOT Diam	SRT	T-32500	Right Ventricle
RVOT Diam	SRT	G-03A2	2D mode
RVOT Diam	SRT	T-32550	Right Ventricle Outflow Tract
RVOT Diam	UCUM	cm	Centimeter
RVOT Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
RVOT Max PG	LN	20247-3	Peak Gradient
RVOT Max PG	SRT	T-32500	Right Ventricle
RVOT Max PG	SRT	T-32550	Right Ventricle Outflow Tract
RVOT Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
RVOT Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
RVOT Vmax	LN	20351-3	Peak Velocity
RVOT Vmax	SRT	T-32500	Right Ventricle
RVOT Vmax	SRT	T-32550	Right Ventricle Outflow Tract
RVOT Vmax	UCUM	cm/s	Centimeter Per Second
RVOT Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
RVOT Mean PG	LN	20256-4	Mean Gradient
RVOT Mean PG	SRT	T-32500	Right Ventricle
RVOT Mean PG	SRT	T-32550	Right Ventricle Outflow Tract
RVOT Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
RVOT Vmean	DCM	125195	Pediatric Cardiac Ultrasound Report
RVOT Vmean	LN	11692-1	Time Averaged Peak Velocity
RVOT Vmean	SRT	T-32500	Right Ventricle
RVOT Vmean	SRT	T-32550	Right Ventricle Outflow Tract
RVOT Vmean	UCUM	cm/s	Centimeter Per Second
RVOT VTI	DCM	125195	Pediatric Cardiac Ultrasound Report
RVOT VTI	LN	20354-7	Velocity Time Integral
RVOT VTI	SRT	T-32500	Right Ventricle
RVOT VTI	SRT	T-32550	Right Ventricle Outflow Tract
RVOT VTI	UCUM	cm	Centimeter
Ao ST Jx Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
Ao ST Jx Diam	SRT	M-02550	Diameter
Ao ST Jx Diam	SRT	T-42102	Aortic sinotubular junction
Ao ST Jx Diam	SRT	G-03A2	2D mode
Ao ST Jx Diam	UCUM	cm	Centimeter
SVC A Dur	DCM	125195	Pediatric Cardiac Ultrasound Report
SVC A Dur	LN	59105-7	A-Wave Duration
SVC A Dur	SRT	M-2460D	Right Superior vena cava
SVC A Dur	UCUM	sec	Seconds
SVC A Vel	DCM	125195	Pediatric Cardiac Ultrasound Report

HD15 3.0.x Report Label	CSD	CV	CM
SVC A Vel	LN	59079-4	Peak Reversal Velocity during Atrial Contraction
SVC A Vel	SRT	M-2460D	Right Superior vena cava
SVC A Vel	UCUM	cm/s	Centimeter Per Second
SVC Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
SVC Diam	SRT	M-02550	Diameter
SVC Diam	SRT	M-2460D	Right Superior vena cava
SVC Diam	SRT	G-03A2	2D mode
SVC Diam	UCUM	cm	Centimeter
SVC Dias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
SVC Dias Vel	LN	20351-3	Peak Velocity
SVC Dias Vel	SRT	M-2460D	Right Superior vena cava
SVC Dias Vel	SRT	F-32011	End Diastole
SVC Dias Vel	UCUM	cm/s	Centimeter Per Second
SVC Sys Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
SVC Sys Vel	LN	20351-3	Peak Velocity
SVC Sys Vel	SRT	M-2460D	Right Superior vena cava
SVC Sys Vel	SRT	R-FAB5B	End Systole
SVC Sys Vel	UCUM	cm/s	Centimeter Per Second
Lat IVCT	DCM	125195	Pediatric Cardiac Ultrasound Report
Lat IVCT	LN	59084-4	Isovolumic Contraction Time
Lat IVCT	SRT	T-32600	Left Ventricle
Lat IVCT	SRT	P5-B0128	Tissue Doppler Imaging
Lat IVCT	SRT	G-0392	Lateral Mitral Annulus
Lat IVCT	UCUM	sec	Seconds
Lat IVRT	DCM	125195	Pediatric Cardiac Ultrasound Report
Lat IVRT	LN	59083-6	Isovolumic Relaxation Time
Lat IVRT	SRT	T-32600	Left Ventricle
Lat IVRT	SRT	P5-B0128	Tissue Doppler Imaging
Lat IVRT	SRT	G-0392	Lateral Mitral Annulus
Lat IVRT	UCUM	sec	Seconds
Med IVCT	DCM	125195	Pediatric Cardiac Ultrasound Report
Med IVCT	LN	59084-4	Isovolumic Contraction Time
Med IVCT	SRT	T-32600	Left Ventricle
Med IVCT	SRT	P5-B0128	Tissue Doppler Imaging
Med IVCT	SRT	G-0391	Medial Mitral Annulus
Med IVCT	UCUM	sec	Seconds
Med IVRT	DCM	125195	Pediatric Cardiac Ultrasound Report
Med IVRT	LN	59083-6	Isovolumic Relaxation Time
Med IVRT	SRT	T-32600	Left Ventricle
Med IVRT	SRT	P5-B0128	Tissue Doppler Imaging

HD15 3.0.x Report Label	CSD	CV	CM
Med IVRT	SRT	G-0391	Medial Mitral Annulus
Med IVRT	UCUM	sec	Seconds
Lat Accel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
Lat Accel Time	LN	20168-1	Acceleration Time
Lat Accel Time	SRT	T-32600	Left Ventricle
Lat Accel Time	SRT	P5-B0128	Tissue Doppler Imaging
Lat Accel Time	SRT	G-0392	Lateral Mitral Annulus
Lat Accel Time	UCUM	sec	Seconds
Lat Decel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
Lat Decel Time	LN	20217-6	Deceleration Time
Lat Decel Time	SRT	T-32600	Left Ventricle
Lat Decel Time	SRT	P5-B0128	Tissue Doppler Imaging
Lat Decel Time	SRT	G-0392	Lateral Mitral Annulus
Lat Decel Time	UCUM	sec	Seconds
Med Accel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
Med Accel Time	LN	20168-1	Acceleration Time
Med Accel Time	SRT	T-32600	Left Ventricle
Med Accel Time	SRT	P5-B0128	Tissue Doppler Imaging
Med Accel Time	SRT	G-0391	Medial Mitral Annulus
Med Accel Time	UCUM	sec	Seconds
Med Decel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
Med Decel Time	LN	20217-6	Deceleration Time
Med Decel Time	SRT	T-32600	Left Ventricle
Med Decel Time	SRT	P5-B0128	Tissue Doppler Imaging
Med Decel Time	SRT	G-0391	Medial Mitral Annulus
Med Decel Time	UCUM	sec	Seconds
Time to Lat E`	DCM	125195	Pediatric Cardiac Ultrasound Report
Time to Lat E`	LN	59096-8	Time to Left Ventricle E Tissue Velocity
Time to Lat E`	SRT	T-32600	Left Ventricle
Time to Lat E`	SRT	P5-B0128	Tissue Doppler Imaging
Time to Lat E`	SRT	G-0392	Lateral Mitral Annulus
Time to Lat E`	UCUM	sec	Seconds
Time to Lat S	DCM	125195	Pediatric Cardiac Ultrasound Report
Time to Lat S	LN	59095-0	Time to Left Ventricle S Tissue Velocity
Time to Lat S	SRT	T-32600	Left Ventricle
Time to Lat S	SRT	P5-B0128	Tissue Doppler Imaging
Time to Lat S	SRT	G-0392	Lateral Mitral Annulus
Time to Lat S	UCUM	sec	Seconds
Time to Med E`	DCM	125195	Pediatric Cardiac Ultrasound Report
Time to Med E`	LN	59096-8	Time to Left Ventricle E Tissue Velocity

HD15 3.0.x Report Label	CSD	CV	CM
Time to Med E`	SRT	T-32600	Left Ventricle
Time to Med E`	SRT	P5-B0128	Tissue Doppler Imaging
Time to Med E`	SRT	G-0391	Medial Mitral Annulus
Time to Med E`	UCUM	sec	Seconds
Time to Med S	DCM	125195	Pediatric Cardiac Ultrasound Report
Time to Med S	LN	59095-0	Time to Left Ventricle S Tissue Velocity
Time to Med S	SRT	T-32600	Left Ventricle
Time to Med S	SRT	P5-B0128	Tissue Doppler Imaging
Time to Med S	SRT	G-0391	Medial Mitral Annulus
Time to Med S	UCUM	sec	Seconds
TR Alias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
TR Alias Vel	LN	59130-5	Alias velocity
TR Alias Vel	SRT	T-35100	Tricuspid Valve
TR Alias Vel	SRT	G-0367	Regurgitant Flow
TR Alias Vel	UCUM	cm/s	Centimeter Per Second
TR Radius	DCM	125195	Pediatric Cardiac Ultrasound Report
TR Radius	LN	59102-4	Flow Radius
TR Radius	SRT	T-35100	Tricuspid Valve
TR Radius	SRT	G-03A2	2D mode
TR Radius	SRT	G-0367	Regurgitant Flow
TR Radius	UCUM	cm	Centimeter
TR Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
TR Max PG	LN	20247-3	Peak Gradient
TR Max PG	SRT	T-35100	Tricuspid Valve
TR Max PG	SRT	G-0367	Regurgitant Flow
TR Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
TR Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
TR Vmax	LN	20351-3	Peak Velocity
TR Vmax	SRT	T-35100	Tricuspid Valve
TR Vmax	SRT	G-0367	Regurgitant Flow
TR Vmax	UCUM	cm/s	Centimeter Per Second
TR Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
TR Mean PG	LN	20256-4	Mean Gradient
TR Mean PG	SRT	T-35100	Tricuspid Valve
TR Mean PG	SRT	G-0367	Regurgitant Flow
TR Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
TR Vmean	DCM	125195	Pediatric Cardiac Ultrasound Report
TR Vmean	LN	11692-1	Time Averaged Peak Velocity
TR Vmean	SRT	T-35100	Tricuspid Valve
TR Vmean	SRT	G-0367	Regurgitant Flow

HD15 3.0.x Report Label	CSD	CV	CM
TR Vmean	UCUM	cm/s	Centimeter Per Second
TR VTI	DCM	125195	Pediatric Cardiac Ultrasound Report
TR VTI	LN	20354-7	Velocity Time Integral
TR VTI	SRT	T-35100	Tricuspid Valve
TR VTI	SRT	G-0367	Regurgitant Flow
TR VTI	UCUM	cm	Centimeter
TV A Dur	DCM	125195	Pediatric Cardiac Ultrasound Report
TV A Dur	LN	59105-7	A-Wave Duration
TV A Dur	SRT	T-35100	Tricuspid Valve
TV A Dur	UCUM	sec	Seconds
TV A-C Interval	DCM	125195	Pediatric Cardiac Ultrasound Report
TV A-C Interval	LN	59103-2	A-C Interval
TV A-C Interval	SRT	T-35100	Tricuspid Valve
TV A-C Interval	SRT	G-0394	M mode
TV A-C Interval	UCUM	sec	Seconds
TV Alias Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Alias Vel	LN	59130-5	Alias velocity
TV Alias Vel	SRT	T-35100	Tricuspid Valve
TV Alias Vel	UCUM	cm/s	Centimeter Per Second
TV Annul Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Annul Diam	SRT	M-02550	Diameter
TV Annul Diam	SRT	T-35100	Tricuspid Valve
TV Annul Diam	SRT	G-03A2	2D mode
TV Annul Diam	SRT	T-3500E	Cardiac valve annulus
TV Annul Diam	UCUM	cm	Centimeter
TV Acc Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Acc Slope	LN	20167-3	Acceleration Slope
TV Acc Slope	SRT	T-35100	Tricuspid Valve
TV Acc Slope	SRT	R-42047	Antegrade Flow
TV Acc Slope	UCUM	cm/s2	Centimeter Per Second Square
TV Acc Time	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Acc Time	LN	20168-1	Acceleration Time
TV Acc Time	SRT	T-35100	Tricuspid Valve
TV Acc Time	SRT	R-42047	Antegrade Flow
TV Acc Time	UCUM	sec	Seconds
TV Closure to Opening	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Closure to Opening	LN	59082-8	Closure to Opening Time
TV Closure to Opening	SRT	T-35100	Tricuspid Valve
TV Closure to Opening	UCUM	sec	Seconds
TV D-E Exc Dist	DCM	125195	Pediatric Cardiac Ultrasound Report

HD15 3.0.x Report Label	CSD	CV	CM
TV D-E Exc Dist	LN	59091-9	D-E Excursion
TV D-E Exc Dist	SRT	T-35100	Tricuspid Valve
TV D-E Exc Dist	SRT	G-0394	M mode
TV D-E Exc Dist	UCUM	cm	Centimeter
TV D-E Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
TV D-E Slope	LN	59127-1	D-E Slope
TV D-E Slope	SRT	T-35100	Tricuspid Valve
TV D-E Slope	SRT	G-0394	M mode
TV D-E Slope	UCUM	cm/s	Centimeter Per Second
TV DFP	DCM	125195	Pediatric Cardiac Ultrasound Report
TV DFP	SRT	R-003A9	Tricuspid Diastolic Filling Period (DFPt)
TV DFP	SRT	T-35100	Tricuspid Valve
TV DFP	UCUM	sec	Seconds
TV Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Diam	SRT	G-038F	Cardiovascular Orifice Diameter
TV Diam	SRT	T-35100	Tricuspid Valve
TV Diam	SRT	G-03A2	2D mode
TV Diam	UCUM	cm	Centimeter
TV Decel Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Decel Slope	LN	20216-8	Deceleration Slope
TV Decel Slope	SRT	T-35100	Tricuspid Valve
TV Decel Slope	SRT	R-42047	Antegrade Flow
TV Decel Slope	UCUM	cm/s2	Centimeter Per Second Square
TV Decel Time	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Decel Time	LN	20217-6	Deceleration Time
TV Decel Time	SRT	T-35100	Tricuspid Valve
TV Decel Time	SRT	R-42047	Antegrade Flow
TV Decel Time	UCUM	sec	Seconds
TV E-F Slope	DCM	125195	Pediatric Cardiac Ultrasound Report
TV E-F Slope	LN	59128-9	E-F Slope
TV E-F Slope	SRT	T-35100	Tricuspid Valve
TV E-F Slope	SRT	G-0394	M mode
TV E-F Slope	UCUM	cm/s	Centimeter Per Second
TV Peak A Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Peak A Vel	LN	59081-0	A-Wave Peak Velocity
TV Peak A Vel	SRT	T-35100	Tricuspid Valve
TV Peak A Vel	SRT	R-42047	Antegrade Flow
TV Peak A Vel	UCUM	cm/s	Centimeter Per Second
TV Peak E Vel	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Peak E Vel	LN	59080-2	E-Wave Peak Velocity

HD15 3.0.x Report Label	CSD	CV	CM
TV Peak E Vel	SRT	T-35100	Tricuspid Valve
TV Peak E Vel	SRT	R-42047	Antegrade Flow
TV Peak E Vel	UCUM	cm/s	Centimeter Per Second
TV P1/2t	DCM	125195	Pediatric Cardiac Ultrasound Report
TV P1/2t	LN	20280-4	Pressure Half-Time
TV P1/2t	SRT	T-35100	Tricuspid Valve
TV P1/2t	UCUM	msec	Millisecond
TV P1/2t Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
TV P1/2t Vmax	99PMSBLUS	C12222-03	Pressure Half-Time Peak velocity
TV P1/2t Vmax	SRT	T-35100	Tricuspid Valve
TV P1/2t Vmax	UCUM	cm/s	Centimeter Per Second
TV Radius	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Radius	LN	59102-4	Flow Radius
TV Radius	SRT	T-35100	Tricuspid Valve
TV Radius	SRT	G-03A2	2D mode
TV Radius	SRT	R-42047	Antegrade Flow
TV Radius	UCUM	cm	Centimeter
TV Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Max PG	LN	20247-3	Peak Gradient
TV Max PG	SRT	T-35100	Tricuspid Valve
TV Max PG	SRT	R-42047	Antegrade Flow
TV Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
TV Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Vmax	LN	20351-3	Peak Velocity
TV Vmax	SRT	T-35100	Tricuspid Valve
TV Vmax	SRT	R-42047	Antegrade Flow
TV Vmax	UCUM	cm/s	Centimeter Per Second
TV Mean PG	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Mean PG	LN	20256-4	Mean Gradient
TV Mean PG	SRT	T-35100	Tricuspid Valve
TV Mean PG	SRT	R-42047	Antegrade Flow
TV Mean PG	UCUM	mm[Hg]	Millimeters Of Mercury
TV Vmean	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Vmean	LN	11692-1	Time Averaged Peak Velocity
TV Vmean	SRT	T-35100	Tricuspid Valve
TV Vmean	SRT	R-42047	Antegrade Flow
TV Vmean	UCUM	cm/s	Centimeter Per Second
TV VTI	DCM	125195	Pediatric Cardiac Ultrasound Report
TV VTI	LN	20354-7	Velocity Time Integral
TV VTI	SRT	T-35100	Tricuspid Valve

HD15 3.0.x Report Label	CSD	CV	CM
TV VTI	SRT	R-42047	Antegrade Flow
TV VTI	UCUM	cm	Centimeter
VSD Major	DCM	125195	Pediatric Cardiac Ultrasound Report
VSD Major	SRT	G-A193	Major Axis
VSD Major	SRT	D4-31150	Ventricular Septal Defect
VSD Major	SRT	G-03A2	2D mode
VSD Major	UCUM	cm	Centimeter
VSD Minor	DCM	125195	Pediatric Cardiac Ultrasound Report
VSD Minor	SRT	G-A194	Minor Axis
VSD Minor	SRT	D4-31150	Ventricular Septal Defect
VSD Minor	SRT	G-03A2	2D mode
VSD Minor	UCUM	cm	Centimeter
VSD Max PG	DCM	125195	Pediatric Cardiac Ultrasound Report
VSD Max PG	LN	20247-3	Peak Gradient
VSD Max PG	SRT	D4-31150	Ventricular Septal Defect
VSD Max PG	UCUM	mm[Hg]	Millimeters Of Mercury
VSD Vmax	DCM	125195	Pediatric Cardiac Ultrasound Report
VSD Vmax	LN	20351-3	Peak Velocity
VSD Vmax	SRT	D4-31150	Ventricular Septal Defect
VSD Vmax	UCUM	cm/s	Centimeter Per Second
AI ERO	DCM	125195	Pediatric Cardiac Ultrasound Report
AI ERO	SRT	G-038E	Cardiovascular Orifice Area
AI ERO	SRT	T-35400	Aortic Valve
AI ERO	DCM	125216	Proximal Isovelocity Surface Area
AI ERO	SRT	G-0367	Regurgitant Flow
AI ERO	UCUM	cm2	Square Centimeter
AI Flow Rate	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Flow Rate	LN	34141-2	Peak Instantaneous Flow Rate
AI Flow Rate	SRT	T-35400	Aortic Valve
AI Flow Rate	SRT	G-0367	Regurgitant Flow
AI Flow Rate	UCUM	ml/sec	ml/sec
AI Fraction	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Fraction	SRT	G-0390	Regurgitant Fraction
AI Fraction	SRT	T-35400	Aortic Valve
AI Fraction	SRT	G-0367	Regurgitant Flow
AI Fraction	UCUM	%	Percent
AI Volume	DCM	125195	Pediatric Cardiac Ultrasound Report
AI Volume	LN	33878-0	Volume Flow
AI Volume	SRT	T-35400	Aortic Valve
AI Volume	DCM	125216	Proximal Isovelocity Surface Area

HD15 3.0.x Report Label	CSD	CV	CM
AI Volume	SRT	G-0367	Regurgitant Flow
AI Volume	UCUM	ml	Milliliter
AoR Area	DCM	125195	Pediatric Cardiac Ultrasound Report
AoR Area	SRT	G-038E	Cardiovascular Orifice Area
AoR Area	SRT	T-42110	Root of Aorta
AoR Area	SRT	G-03A2	2D mode
AoR Area	UCUM	cm2	Square Centimeter
Asc Ao Max PG (full)	DCM	125195	Pediatric Cardiac Ultrasound Report
Asc Ao Max PG (full)	LN	20247-3	Peak Gradient
Asc Ao Max PG (full)	SRT	T-42100	Ascending aorta
Asc Ao Max PG (full)	DCM	125217	Full Bernoulli
Asc Ao Max PG (full)	UCUM	mm[Hg]	Millimeters Of Mercury
Asc Ao Mean PG (full)	DCM	125195	Pediatric Cardiac Ultrasound Report
Asc Ao Mean PG (full)	LN	20256-4	Mean Gradient
Asc Ao Mean PG (full)	SRT	T-42100	Ascending aorta
Asc Ao Mean PG (full)	DCM	125217	Full Bernoulli
Asc Ao Mean PG (full)	UCUM	mm[Hg]	Millimeters Of Mercury
ASD Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
ASD Diam	SRT	M-02550	Diameter
ASD Diam	SRT	D4-31220	Atrial Septal Defect
ASD Diam	SRT	G-03A2	2D mode
ASD Diam	UCUM	cm	Centimeter
AV Max PG (full)	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Max PG (full)	LN	20247-3	Peak Gradient
AV Max PG (full)	SRT	T-35400	Aortic Valve
AV Max PG (full)	DCM	125217	Full Bernoulli
AV Max PG (full)	UCUM	mm[Hg]	Millimeters Of Mercury
AV Mean PG (full)	DCM	125195	Pediatric Cardiac Ultrasound Report
AV Mean PG (full)	LN	20256-4	Mean Gradient
AV Mean PG (full)	SRT	T-35400	Aortic Valve
AV Mean PG (full)	DCM	125217	Full Bernoulli
AV Mean PG (full)	UCUM	mm[Hg]	Millimeters Of Mercury
AVA (Vmax)	DCM	125195	Pediatric Cardiac Ultrasound Report
AVA (Vmax)	SRT	G-038E	Cardiovascular Orifice Area
AVA (Vmax)	SRT	T-35400	Aortic Valve
AVA (Vmax)	DCM	125214	Continuity Equation by Peak Velocity
AVA (Vmax)	UCUM	cm2	Square Centimeter
AVA (VTI)	DCM	125195	Pediatric Cardiac Ultrasound Report
AVA (VTI)	SRT	G-038E	Cardiovascular Orifice Area
AVA (VTI)	SRT	T-35400	Aortic Valve

HD15 3.0.x Report Label	CSD	CV	CM
AVA (VTI)	DCM	125215	Continuity Equation by Velocity Time Integral
AVA (VTI)	UCUM	cm2	Square Centimeter
CI (A2C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
CI (A2C-A/L)	SRT	F-32110	Cardiac Index
CI (A2C-A/L)	SRT	T-32600	Left Ventricle
CI (A2C-A/L)	SRT	G-03A2	2D mode
CI (A2C-A/L)	SRT	G-A19B	Apical two chamber
CI (A2C-A/L)	DCM	125226	Single Plane Ellipse
CI (A2C-A/L)	UCUM	l/min/m2	l/min/m2
CI (A4C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
CI (A4C-A/L)	SRT	F-32110	Cardiac Index
CI (A4C-A/L)	SRT	T-32600	Left Ventricle
CI (A4C-A/L)	SRT	G-03A2	2D mode
CI (A4C-A/L)	SRT	G-A19C	Apical four chamber
CI (A4C-A/L)	DCM	125226	Single Plane Ellipse
CI (A4C-A/L)	UCUM	l/min/m2	l/min/m2
CI (2D-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
CI (2D-Cubed)	SRT	F-32110	Cardiac Index
CI (2D-Cubed)	SRT	T-32600	Left Ventricle
CI (2D-Cubed)	SRT	G-03A2	2D mode
CI (2D-Cubed)	DCM	125206	Cube Method
CI (2D-Cubed)	UCUM	l/min/m2	l/min/m2
CI (MM-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
CI (MM-Cubed)	SRT	F-32110	Cardiac Index
CI (MM-Cubed)	SRT	T-32600	Left Ventricle
CI (MM-Cubed)	SRT	G-0394	M mode
CI (MM-Cubed)	DCM	125206	Cube Method
CI (MM-Cubed)	UCUM	l/min/m2	l/min/m2
CI (A2C)	DCM	125195	Pediatric Cardiac Ultrasound Report
CI (A2C)	SRT	F-32110	Cardiac Index
CI (A2C)	SRT	T-32600	Left Ventricle
CI (A2C)	SRT	G-03A2	2D mode
CI (A2C)	SRT	G-A19B	Apical two chamber
CI (A2C)	DCM	125208	Method of Disks, Single Plane
CI (A2C)	UCUM	l/min/m2	l/min/m2
CI (A4C)	DCM	125195	Pediatric Cardiac Ultrasound Report
CI (A4C)	SRT	F-32110	Cardiac Index
CI (A4C)	SRT	T-32600	Left Ventricle
CI (A4C)	SRT	G-03A2	2D mode
CI (A4C)	SRT	G-A19C	Apical four chamber

HD15 3.0.x Report Label	CSD	CV	CM
CI (A4C)	DCM	125208	Method of Disks, Single Plane
CI (A4C)	UCUM	l/min/m2	l/min/m2
CI (BP)	DCM	125195	Pediatric Cardiac Ultrasound Report
CI (BP)	SRT	F-32110	Cardiac Index
CI (BP)	SRT	T-32600	Left Ventricle
CI (BP)	SRT	G-03A2	2D mode
CI (BP)	DCM	125207	Method of Disks, Biplane
CI (BP)	UCUM	l/min/m2	l/min/m2
CI (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
CI (A/L)	SRT	F-32110	Cardiac Index
CI (A/L)	SRT	T-32600	Left Ventricle
CI (A/L)	SRT	G-03A2	2D mode
CI (A/L)	DCM	125226	Single Plane Ellipse
CI (A/L)	UCUM	l/min/m2	l/min/m2
CI (2D-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
CI (2D-Teich)	SRT	F-32110	Cardiac Index
CI (2D-Teich)	SRT	T-32600	Left Ventricle
CI (2D-Teich)	SRT	G-03A2	2D mode
CI (2D-Teich)	DCM	125209	Teichholz
CI (2D-Teich)	UCUM	l/min/m2	l/min/m2
CI (MM-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
CI (MM-Teich)	SRT	F-32110	Cardiac Index
CI (MM-Teich)	SRT	T-32600	Left Ventricle
CI (MM-Teich)	SRT	G-0394	M mode
CI (MM-Teich)	DCM	125209	Teichholz
CI (MM-Teich)	UCUM	l/min/m2	l/min/m2
CO (A2C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (A2C-A/L)	SRT	F-32100	Cardiac Output
CO (A2C-A/L)	SRT	T-32600	Left Ventricle
CO (A2C-A/L)	SRT	G-03A2	2D mode
CO (A2C-A/L)	SRT	G-A19B	Apical two chamber
CO (A2C-A/L)	DCM	125226	Single Plane Ellipse
CO (A2C-A/L)	UCUM	l/min	Litre Per Minute
CO (A4C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (A4C-A/L)	SRT	F-32100	Cardiac Output
CO (A4C-A/L)	SRT	T-32600	Left Ventricle
CO (A4C-A/L)	SRT	G-03A2	2D mode
CO (A4C-A/L)	SRT	G-A19C	Apical four chamber
CO (A4C-A/L)	DCM	125226	Single Plane Ellipse
CO (A4C-A/L)	UCUM	l/min	Litre Per Minute

HD15 3.0.x Report Label	CSD	CV	CM
CO (2D-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (2D-Cubed)	SRT	F-32100	Cardiac Output
CO (2D-Cubed)	SRT	T-32600	Left Ventricle
CO (2D-Cubed)	SRT	G-03A2	2D mode
CO (2D-Cubed)	DCM	125206	Cube Method
CO (2D-Cubed)	UCUM	l/min	Litre Per Minute
CO (MM-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (MM-Cubed)	SRT	F-32100	Cardiac Output
CO (MM-Cubed)	SRT	T-32600	Left Ventricle
CO (MM-Cubed)	SRT	G-0394	M mode
CO (MM-Cubed)	DCM	125206	Cube Method
CO (MM-Cubed)	UCUM	l/min	Litre Per Minute
CO (LVOT)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (LVOT)	SRT	F-32100	Cardiac Output
CO (LVOT)	SRT	T-32600	Left Ventricle
CO (LVOT)	SRT	T-32650	Left Ventricle Outflow Tract
CO (LVOT)	UCUM	l/min	Litre Per Minute
CO (A2C)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (A2C)	SRT	F-32100	Cardiac Output
CO (A2C)	SRT	T-32600	Left Ventricle
CO (A2C)	SRT	G-03A2	2D mode
CO (A2C)	SRT	G-A19B	Apical two chamber
CO (A2C)	DCM	125208	Method of Disks, Single Plane
CO (A2C)	UCUM	l/min	Litre Per Minute
CO (A4C)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (A4C)	SRT	F-32100	Cardiac Output
CO (A4C)	SRT	T-32600	Left Ventricle
CO (A4C)	SRT	G-03A2	2D mode
CO (A4C)	SRT	G-A19C	Apical four chamber
CO (A4C)	DCM	125208	Method of Disks, Single Plane
CO (A4C)	UCUM	l/min	Litre Per Minute
CO (BP)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (BP)	SRT	F-32100	Cardiac Output
CO (BP)	SRT	T-32600	Left Ventricle
CO (BP)	SRT	G-03A2	2D mode
CO (BP)	DCM	125207	Method of Disks, Biplane
CO (BP)	UCUM	l/min	Litre Per Minute
CO (MV)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (MV)	SRT	F-32100	Cardiac Output
CO (MV)	SRT	T-35300	Mitral Valve

HD15 3.0.x Report Label	CSD	CV	CM
CO (MV)	UCUM	l/min	Litre Per Minute
CO (PV)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (PV)	SRT	F-32100	Cardiac Output
CO (PV)	SRT	T-35200	Pulmonic Valve
CO (PV)	UCUM	l/min	Litre Per Minute
CO (RVOT)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (RVOT)	SRT	F-32100	Cardiac Output
CO (RVOT)	SRT	T-32500	Right Ventricle
CO (RVOT)	SRT	T-32550	Right Ventricle Outflow Tract
CO (RVOT)	UCUM	l/min	Litre Per Minute
CO (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (A/L)	SRT	F-32100	Cardiac Output
CO (A/L)	SRT	T-32600	Left Ventricle
CO (A/L)	SRT	G-03A2	2D mode
CO (A/L)	DCM	125226	Single Plane Ellipse
CO (A/L)	UCUM	l/min	Litre Per Minute
CO (2D-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (2D-Teich)	SRT	F-32100	Cardiac Output
CO (2D-Teich)	SRT	T-32600	Left Ventricle
CO (2D-Teich)	SRT	G-03A2	2D mode
CO (2D-Teich)	DCM	125209	Teichholz
CO (2D-Teich)	UCUM	l/min	Litre Per Minute
CO (MM-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (MM-Teich)	SRT	F-32100	Cardiac Output
CO (MM-Teich)	SRT	T-32600	Left Ventricle
CO (MM-Teich)	SRT	G-0394	M mode
CO (MM-Teich)	DCM	125209	Teichholz
CO (MM-Teich)	UCUM	l/min	Litre Per Minute
CO (TV)	DCM	125195	Pediatric Cardiac Ultrasound Report
CO (TV)	SRT	F-32100	Cardiac Output
CO (TV)	SRT	T-35100	Tricuspid Valve
CO (TV)	UCUM	l/min	Litre Per Minute
Dsc Ao Max PG (full)	DCM	125195	Pediatric Cardiac Ultrasound Report
Dsc Ao Max PG (full)	LN	20247-3	Peak Gradient
Dsc Ao Max PG (full)	SRT	T-42070	Thoracic aorta
Dsc Ao Max PG (full)	DCM	125217	Full Bernoulli
Dsc Ao Max PG (full)	UCUM	mm[Hg]	Millimeters Of Mercury
Dsc Ao Mean PG (full)	DCM	125195	Pediatric Cardiac Ultrasound Report
Dsc Ao Mean PG (full)	LN	20256-4	Mean Gradient
Dsc Ao Mean PG (full)	SRT	T-42070	Thoracic aorta

HD15 3.0.x Report Label	CSD	CV	CM
Dsc Ao Mean PG (full)	DCM	125217	Full Bernoulli
Dsc Ao Mean PG (full)	UCUM	mm[Hg]	Millimeters Of Mercury
E/E` Lateral	DCM	125195	Pediatric Cardiac Ultrasound Report
E/E` Lateral	SRT	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave
E/E` Lateral	SRT	T-32600	Left Ventricle
E/E` Lateral	SRT	P5-B0128	Tissue Doppler Imaging
E/E` Lateral	SRT	G-0392	Lateral Mitral Annulus
E/E` Lateral	UCUM	1	no units
E/E` Medial	DCM	125195	Pediatric Cardiac Ultrasound Report
E/E` Medial	SRT	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave
E/E` Medial	SRT	T-32600	Left Ventricle
E/E` Medial	SRT	P5-B0128	Tissue Doppler Imaging
E/E` Medial	SRT	G-0391	Medial Mitral Annulus
E/E` Medial	UCUM	1	no units
EDV (A2C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
EDV (A2C-A/L)	SRT	G-D705	Volume
EDV (A2C-A/L)	SRT	T-32600	Left Ventricle
EDV (A2C-A/L)	SRT	G-03A2	2D mode
EDV (A2C-A/L)	SRT	G-A19B	Apical two chamber
EDV (A2C-A/L)	DCM	125226	Single Plane Ellipse
EDV (A2C-A/L)	SRT	F-32011	End Diastole
EDV (A2C-A/L)	UCUM	ml	Milliliter
EDV (A4C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
EDV (A4C-A/L)	SRT	G-D705	Volume
EDV (A4C-A/L)	SRT	T-32600	Left Ventricle
EDV (A4C-A/L)	SRT	G-03A2	2D mode
EDV (A4C-A/L)	SRT	G-A19C	Apical four chamber
EDV (A4C-A/L)	DCM	125226	Single Plane Ellipse
EDV (A4C-A/L)	SRT	F-32011	End Diastole
EDV (A4C-A/L)	UCUM	ml	Milliliter
EDV (2D-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
EDV (2D-Cubed)	SRT	G-D705	Volume
EDV (2D-Cubed)	SRT	T-32600	Left Ventricle
EDV (2D-Cubed)	SRT	G-03A2	2D mode
EDV (2D-Cubed)	DCM	125206	Cube Method
EDV (2D-Cubed)	SRT	F-32011	End Diastole
EDV (2D-Cubed)	UCUM	ml	Milliliter
EDV (MM-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
EDV (MM-Cubed)	SRT	G-D705	Volume

HD15 3.0.x Report Label	CSD	CV	CM
EDV (MM-Cubed)	SRT	T-32600	Left Ventricle
EDV (MM-Cubed)	SRT	G-0394	M mode
EDV (MM-Cubed)	DCM	125206	Cube Method
EDV (MM-Cubed)	SRT	F-32011	End Diastole
EDV (MM-Cubed)	UCUM	ml	Milliliter
EDV (BP)	DCM	125195	Pediatric Cardiac Ultrasound Report
EDV (BP)	SRT	G-D705	Volume
EDV (BP)	SRT	T-32600	Left Ventricle
EDV (BP)	SRT	G-03A2	2D mode
EDV (BP)	DCM	125207	Method of Disks, Biplane
EDV (BP)	SRT	F-32011	End Diastole
EDV (BP)	UCUM	ml	Milliliter
EDV (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
EDV (A/L)	LN	18026-5	Left Ventricular End Diastolic Volume
EDV (A/L)	SRT	T-32600	Left Ventricle
EDV (A/L)	SRT	G-03A2	2D mode
EDV (A/L)	DCM	125226	Single Plane Ellipse
EDV (A/L)	UCUM	ml	Milliliter
EDV (2D-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
EDV (2D-Teich)	SRT	G-D705	Volume
EDV (2D-Teich)	SRT	T-32600	Left Ventricle
EDV (2D-Teich)	SRT	G-03A2	2D mode
EDV (2D-Teich)	DCM	125209	Teichholz
EDV (2D-Teich)	SRT	F-32011	End Diastole
EDV (2D-Teich)	UCUM	ml	Milliliter
EDV (MM-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
EDV (MM-Teich)	SRT	G-D705	Volume
EDV (MM-Teich)	SRT	T-32600	Left Ventricle
EDV (MM-Teich)	SRT	G-0394	M mode
EDV (MM-Teich)	DCM	125209	Teichholz
EDV (MM-Teich)	SRT	F-32011	End Diastole
EDV (MM-Teich)	UCUM	ml	Milliliter
EF (A2C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
EF (A2C-A/L)	SRT	F-32070	Cardiac ejection fraction
EF (A2C-A/L)	SRT	T-32600	Left Ventricle
EF (A2C-A/L)	SRT	G-03A2	2D mode
EF (A2C-A/L)	SRT	G-A19B	Apical two chamber
EF (A2C-A/L)	DCM	125226	Single Plane Ellipse
EF (A2C-A/L)	UCUM	%	Percent
EF (A4C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report

HD15 3.0.x Report Label	CSD	CV	CM
EF (A4C-A/L)	SRT	F-32070	Cardiac ejection fraction
EF (A4C-A/L)	SRT	T-32600	Left Ventricle
EF (A4C-A/L)	SRT	G-03A2	2D mode
EF (A4C-A/L)	SRT	G-A19C	Apical four chamber
EF (A4C-A/L)	DCM	125226	Single Plane Ellipse
EF (A4C-A/L)	UCUM	%	Percent
EF (2D-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
EF (2D-Cubed)	SRT	F-32070	Cardiac ejection fraction
EF (2D-Cubed)	SRT	T-32600	Left Ventricle
EF (2D-Cubed)	SRT	G-03A2	2D mode
EF (2D-Cubed)	DCM	125206	Cube Method
EF (2D-Cubed)	UCUM	%	Percent
EF (MM-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
EF (MM-Cubed)	SRT	F-32070	Cardiac ejection fraction
EF (MM-Cubed)	SRT	T-32600	Left Ventricle
EF (MM-Cubed)	SRT	G-0394	M mode
EF (MM-Cubed)	DCM	125206	Cube Method
EF (MM-Cubed)	UCUM	%	Percent
EF (A2C)	DCM	125195	Pediatric Cardiac Ultrasound Report
EF (A2C)	SRT	F-32070	Cardiac ejection fraction
EF (A2C)	SRT	T-32600	Left Ventricle
EF (A2C)	SRT	G-03A2	2D mode
EF (A2C)	SRT	G-A19B	Apical two chamber
EF (A2C)	DCM	125208	Method of Disks, Single Plane
EF (A2C)	UCUM	%	Percent
EF (A4C)	DCM	125195	Pediatric Cardiac Ultrasound Report
EF (A4C)	SRT	F-32070	Cardiac ejection fraction
EF (A4C)	SRT	T-32600	Left Ventricle
EF (A4C)	SRT	G-03A2	2D mode
EF (A4C)	SRT	G-A19C	Apical four chamber
EF (A4C)	DCM	125208	Method of Disks, Single Plane
EF (A4C)	UCUM	%	Percent
EF (BP)	DCM	125195	Pediatric Cardiac Ultrasound Report
EF (BP)	SRT	F-32070	Cardiac ejection fraction
EF (BP)	SRT	T-32600	Left Ventricle
EF (BP)	SRT	G-03A2	2D mode
EF (BP)	DCM	125207	Method of Disks, Biplane
EF (BP)	UCUM	%	Percent
EF (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
EF (A/L)	SRT	F-32070	Cardiac ejection fraction

HD15 3.0.x Report Label	CSD	CV	CM
EF (A/L)	SRT	T-32600	Left Ventricle
EF (A/L)	SRT	G-03A2	2D mode
EF (A/L)	DCM	125226	Single Plane Ellipse
EF (A/L)	UCUM	%	Percent
EF (2D-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
EF (2D-Teich)	SRT	F-32070	Cardiac ejection fraction
EF (2D-Teich)	SRT	T-32600	Left Ventricle
EF (2D-Teich)	SRT	G-03A2	2D mode
EF (2D-Teich)	DCM	125209	Teichholz
EF (2D-Teich)	UCUM	%	Percent
EF (MM-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
EF (MM-Teich)	SRT	F-32070	Cardiac ejection fraction
EF (MM-Teich)	SRT	T-32600	Left Ventricle
EF (MM-Teich)	SRT	G-0394	M mode
EF (MM-Teich)	DCM	125209	Teichholz
EF (MM-Teich)	UCUM	%	Percent
ESV (A2C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
ESV (A2C-A/L)	SRT	G-D705	Volume
ESV (A2C-A/L)	SRT	T-32600	Left Ventricle
ESV (A2C-A/L)	SRT	G-03A2	2D mode
ESV (A2C-A/L)	SRT	G-A19B	Apical two chamber
ESV (A2C-A/L)	DCM	125226	Single Plane Ellipse
ESV (A2C-A/L)	SRT	R-FAB5B	End Systole
ESV (A2C-A/L)	UCUM	ml	Milliliter
ESV (A4C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
ESV (A4C-A/L)	SRT	G-D705	Volume
ESV (A4C-A/L)	SRT	T-32600	Left Ventricle
ESV (A4C-A/L)	SRT	G-03A2	2D mode
ESV (A4C-A/L)	SRT	G-A19C	Apical four chamber
ESV (A4C-A/L)	DCM	125226	Single Plane Ellipse
ESV (A4C-A/L)	SRT	R-FAB5B	End Systole
ESV (A4C-A/L)	UCUM	ml	Milliliter
ESV (2D-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
ESV (2D-Cubed)	SRT	G-D705	Volume
ESV (2D-Cubed)	SRT	T-32600	Left Ventricle
ESV (2D-Cubed)	SRT	G-03A2	2D mode
ESV (2D-Cubed)	DCM	125206	Cube Method
ESV (2D-Cubed)	SRT	R-FAB5B	End Systole
ESV (2D-Cubed)	UCUM	ml	Milliliter
ESV (MM-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report

HD15 3.0.x Report Label	CSD	CV	CM
ESV (MM-Cubed)	SRT	G-D705	Volume
ESV (MM-Cubed)	SRT	T-32600	Left Ventricle
ESV (MM-Cubed)	SRT	G-0394	M mode
ESV (MM-Cubed)	DCM	125206	Cube Method
ESV (MM-Cubed)	SRT	R-FAB5B	End Systole
ESV (MM-Cubed)	UCUM	ml	Milliliter
ESV (BP)	DCM	125195	Pediatric Cardiac Ultrasound Report
ESV (BP)	SRT	G-D705	Volume
ESV (BP)	SRT	T-32600	Left Ventricle
ESV (BP)	SRT	G-03A2	2D mode
ESV (BP)	DCM	125207	Method of Disks, Biplane
ESV (BP)	SRT	R-FAB5B	End Systole
ESV (BP)	UCUM	ml	Milliliter
ESV (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
ESV (A/L)	LN	18148-7	Left Ventricular End Systolic Volume
ESV (A/L)	SRT	T-32600	Left Ventricle
ESV (A/L)	SRT	G-03A2	2D mode
ESV (A/L)	DCM	125226	Single Plane Ellipse
ESV (A/L)	UCUM	ml	Milliliter
ESV (2D-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
ESV (2D-Teich)	SRT	G-D705	Volume
ESV (2D-Teich)	SRT	T-32600	Left Ventricle
ESV (2D-Teich)	SRT	G-03A2	2D mode
ESV (2D-Teich)	DCM	125209	Teichholz
ESV (2D-Teich)	SRT	R-FAB5B	End Systole
ESV (2D-Teich)	UCUM	ml	Milliliter
ESV (MM-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
ESV (MM-Teich)	SRT	G-D705	Volume
ESV (MM-Teich)	SRT	T-32600	Left Ventricle
ESV (MM-Teich)	SRT	G-0394	M mode
ESV (MM-Teich)	DCM	125209	Teichholz
ESV (MM-Teich)	SRT	R-FAB5B	End Systole
ESV (MM-Teich)	UCUM	ml	Milliliter
Hepatic S/D	DCM	125195	Pediatric Cardiac Ultrasound Report
Hepatic S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio
Hepatic S/D	SRT	T-48720	Hepatic Vein
Hepatic S/D	UCUM	1	no units
IVC S/D	DCM	125195	Pediatric Cardiac Ultrasound Report
IVC S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio
IVC S/D	SRT	T-48710	Inferior vena cava

HD15 3.0.x Report Label	CSD	CV	CM
IVC S/D	UCUM	1	no units
IVS % (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
IVS % (2D)	LN	59092-7	% Thickening
IVS % (2D)	SRT	T-32410	Interventricular septum
IVS % (2D)	SRT	G-03A2	2D mode
IVS % (2D)	UCUM	%	Percent
IVS/LVPW (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
IVS/LVPW (2D)	LN	18155-2	Interventricular Septum to Posterior Wall Thickness Ratio
IVS/LVPW (2D)	SRT	T-32600	Left Ventricle
IVS/LVPW (2D)	SRT	G-03A2	2D mode
IVS/LVPW (2D)	UCUM	1	no units
IVS/LVPW (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
IVS/LVPW (MM)	LN	18155-2	Interventricular Septum to Posterior Wall Thickness Ratio
IVS/LVPW (MM)	SRT	T-32600	Left Ventricle
IVS/LVPW (MM)	SRT	G-0394	M mode
IVS/LVPW (MM)	UCUM	1	no units
IVS % (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
IVS % (MM)	LN	59092-7	% Thickening
IVS % (MM)	SRT	T-32410	Interventricular septum
IVS % (MM)	SRT	G-0394	M mode
IVS % (MM)	UCUM	%	Percent
LA/Ao (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
LA/Ao (2D)	LN	17985-3	Left Atrium to Aortic Root Ratio
LA/Ao (2D)	SRT	T-32300	Left Atrium
LA/Ao (2D)	SRT	G-03A2	2D mode
LA/Ao (2D)	UCUM	1	no units
LA/Ao (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
LA/Ao (MM)	LN	17985-3	Left Atrium to Aortic Root Ratio
LA/Ao (MM)	SRT	T-32300	Left Atrium
LA/Ao (MM)	SRT	G-0394	M mode
LA/Ao (MM)	UCUM	1	no units
LA ESV/BSA (A2C)	DCM	125195	Pediatric Cardiac Ultrasound Report
LA ESV/BSA (A2C)	99PMSBLUS	C12205-03	Left Atrium Systolic Volume Index
LA ESV/BSA (A2C)	SRT	T-32300	Left Atrium
LA ESV/BSA (A2C)	SRT	G-03A2	2D mode
LA ESV/BSA (A2C)	SRT	G-A19B	Apical two chamber
LA ESV/BSA (A2C)	DCM	125208	Method of Disks, Single Plane
LA ESV/BSA (A2C)	LN	8277-6	Body Surface Area
LA ESV/BSA (A2C)	UCUM	ml/m2	ml/m2
LA ESV/BSA (A4C)	DCM	125195	Pediatric Cardiac Ultrasound Report

HD15 3.0.x Report Label	CSD	CV	CM
LA ESV/BSA (A4C)	99PMSBLUS	C12205-03	Left Atrium Systolic Volume Index
LA ESV/BSA (A4C)	SRT	T-32300	Left Atrium
LA ESV/BSA (A4C)	SRT	G-03A2	2D mode
LA ESV/BSA (A4C)	SRT	G-A19C	Apical four chamber
LA ESV/BSA (A4C)	DCM	125208	Method of Disks, Single Plane
LA ESV/BSA (A4C)	LN	8277-6	Body Surface Area
LA ESV/BSA (A4C)	UCUM	ml/m2	ml/m2
LA ESV (BP)	DCM	125195	Pediatric Cardiac Ultrasound Report
LA ESV (BP)	SRT	G-0383	Left Atrium Systolic Volume
LA ESV (BP)	SRT	T-32300	Left Atrium
LA ESV (BP)	SRT	G-03A2	2D mode
LA ESV (BP)	DCM	125207	Method of Disks, Biplane
LA ESV (BP)	UCUM	ml	Milliliter
LA ESV/BSA (BP)	DCM	125195	Pediatric Cardiac Ultrasound Report
LA ESV/BSA (BP)	99PMSBLUS	C12205-03	Left Atrium Systolic Volume Index
LA ESV/BSA (BP)	SRT	T-32300	Left Atrium
LA ESV/BSA (BP)	SRT	G-03A2	2D mode
LA ESV/BSA (BP)	DCM	125207	Method of Disks, Biplane
LA ESV/BSA (BP)	LN	8277-6	Body Surface Area
LA ESV/BSA (BP)	UCUM	ml/m2	ml/m2
E`/A` Lateral	DCM	125195	Pediatric Cardiac Ultrasound Report
E`/A` Lateral	LN	59129-7	Left Ventricle E to A Tissue Velocity Ratio
E`/A` Lateral	SRT	T-32600	Left Ventricle
E`/A` Lateral	SRT	P5-B0128	Tissue Doppler Imaging
E`/A` Lateral	SRT	G-0392	Lateral Mitral Annulus
E`/A` Lateral	UCUM	1	no units
LL PulmV S/D	DCM	125195	Pediatric Cardiac Ultrasound Report
LL PulmV S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio
LL PulmV S/D	SRT	T-48581	Pulmonary Vein
LL PulmV S/D	SRT	T-48540	Left Inferior Pulmonary Vein
LL PulmV S/D	UCUM	1	no units
LU PulmV S/D	DCM	125195	Pediatric Cardiac Ultrasound Report
LU PulmV S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio
LU PulmV S/D	SRT	T-48581	Pulmonary Vein
LU PulmV S/D	SRT	T-48530	Left Superior Pulmonary Vein
LU PulmV S/D	UCUM	1	no units
LVETc	DCM	125195	Pediatric Cardiac Ultrasound Report
LVETc	LN	59086-9	Heart Rate-Corrected Ejection Time
LVETc	SRT	T-32600	Left Ventricle
LVETc	SRT	G-0394	M mode

HD15 3.0.x Report Label	CSD	CV	CM
LVETc	UCUM	sec	Seconds
LV Mass (Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
LV Mass (Cubed)	LN	18087-7	Left Ventricle Mass
LV Mass (Cubed)	SRT	T-32600	Left Ventricle
LV Mass (Cubed)	SRT	G-0394	M mode
LV Mass (Cubed)	DCM	125206	Cube Method
LV Mass (Cubed)	UCUM	g	Gram
LV Mass Index(Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
LV Mass Index(Cubed)	99PMSBLUS	C12203-01	Left Ventricle Mass Index
LV Mass Index(Cubed)	SRT	T-32600	Left Ventricle
LV Mass Index(Cubed)	SRT	G-0394	M mode
LV Mass Index(Cubed)	DCM	125206	Cube Method
LV Mass Index(Cubed)	LN	8277-6	Body Surface Area
LV Mass Index(Cubed)	UCUM	g/m2	g/m2
LV MPI	DCM	125195	Pediatric Cardiac Ultrasound Report
LV MPI	LN	59099-2	Myocardial Performance Index (Tei)
LV MPI	SRT	T-32600	Left Ventricle
LV MPI	UCUM	1	no units
LV PEP/ET	DCM	125195	Pediatric Cardiac Ultrasound Report
LV PEP/ET	LN	59088-5	Pre-Ejection Period/Ejection Time Ratio
LV PEP/ET	SRT	T-32600	Left Ventricle
LV PEP/ET	SRT	G-0394	M mode
LV PEP/ET	UCUM	1	no units
LVDP (AI)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVDP (AI)	99PMSBLUS	C12212-02	Left Ventricle Diastolic Pressure with Aortic Insufficiency
LVDP (AI)	SRT	T-35400	Aortic Valve
LVDP (AI)	SRT	F-32011	End Diastole
LVDP (AI)	UCUM	mm[Hg]	Millimeters Of Mercury
LV FS (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
LV FS (2D)	LN	59132-1	Fractional Shortening
LV FS (2D)	SRT	T-32600	Left Ventricle
LV FS (2D)	SRT	G-03A2	2D mode
LV FS (2D)	UCUM	%	Percent
LV FS (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
LV FS (MM)	LN	59132-1	Fractional Shortening
LV FS (MM)	SRT	T-32600	Left Ventricle
LV FS (MM)	SRT	G-0394	M mode
LV FS (MM)	UCUM	%	Percent
LV Mass (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
LV Mass (A/L)	DCM	125270	Left Ventricle Mass by Area Length

HD15 3.0.x Report Label	CSD	CV	CM
LV Mass (A/L)	SRT	T-32600	Left Ventricle
LV Mass (A/L)	SRT	G-03A2	2D mode
LV Mass (A/L)	UCUM	g	Gram
LV Mass Index (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
LV Mass Index (A/L)	99PMSBLUS	C12203-01	Left Ventricle Mass Index
LV Mass Index (A/L)	SRT	T-32600	Left Ventricle
LV Mass Index (A/L)	SRT	G-03A2	2D mode
LV Mass Index (A/L)	LN	8277-6	Body Surface Area
LV Mass Index (A/L)	UCUM	g/m2	g/m2
LVOT Area	DCM	125195	Pediatric Cardiac Ultrasound Report
LVOT Area	SRT	G-038E	Cardiovascular Orifice Area
LVOT Area	SRT	T-32600	Left Ventricle
LVOT Area	SRT	G-03A2	2D mode
LVOT Area	SRT	T-32650	Left Ventricle Outflow Tract
LVOT Area	UCUM	cm2	Square Centimeter
LV PEPc	DCM	125195	Pediatric Cardiac Ultrasound Report
LV PEPc	LN	59087-7	Heart Rate-Corrected Pre-Ejection Period
LV PEPc	SRT	T-32600	Left Ventricle
LV PEPc	SRT	G-0394	M mode
LV PEPc	UCUM	msec	Millisecond
LVPW % (2D)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVPW % (2D)	LN	59092-7	% Thickening
LVPW % (2D)	SRT	T-32600	Left Ventricle
LVPW % (2D)	SRT	G-03A2	2D mode
LVPW % (2D)	99PMSBLUS	C12243-01	Left Ventricle Posterior Wall
LVPW % (2D)	UCUM	%	Percent
LVPW % (MM)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVPW % (MM)	LN	59092-7	% Thickening
LVPW % (MM)	SRT	T-32600	Left Ventricle
LVPW % (MM)	SRT	G-0394	M mode
LVPW % (MM)	99PMSBLUS	C12243-01	Left Ventricle Posterior Wall
LVPW % (MM)	UCUM	%	Percent
LVSP (AS)	DCM	125195	Pediatric Cardiac Ultrasound Report
LVSP (AS)	99PMSBLUS	C12212-01	Left Ventricle Systolic Pressure with Aortic Stenosis
LVSP (AS)	SRT	T-35400	Aortic Valve
LVSP (AS)	SRT	R-FAB5B	End Systole
LVSP (AS)	UCUM	mm[Hg]	Millimeters Of Mercury
Mean VCF	DCM	125195	Pediatric Cardiac Ultrasound Report
Mean VCF	LN	59117-2	Mean Velocity of Circumferential Fiber Shortening (Mean VcFv)
Mean VCF	SRT	T-32600	Left Ventricle

HD15 3.0.x Report Label	CSD	CV	CM
Mean VCF	SRT	G-0394	M mode
Mean VCF	99PMSBLUS	circ/s	circ/s
Mean VCFc	DCM	125195	Pediatric Cardiac Ultrasound Report
Mean VCFc	LN	59118-0	HR-Corrected Mean Velocity of Circumferential Fiber Shortening
Mean VCFc	SRT	T-32600	Left Ventricle
Mean VCFc	SRT	G-0394	M mode
Mean VCFc	99PMSBLUS	circ/s	circ/s
E`/A` Medial	DCM	125195	Pediatric Cardiac Ultrasound Report
E`/A` Medial	LN	59129-7	Left Ventricle E to A Tissue Velocity Ratio
E`/A` Medial	SRT	T-32600	Left Ventricle
E`/A` Medial	SRT	P5-B0128	Tissue Doppler Imaging
E`/A` Medial	SRT	G-0391	Medial Mitral Annulus
E`/A` Medial	UCUM	1	no units
MPA Area	DCM	125195	Pediatric Cardiac Ultrasound Report
MPA Area	SRT	G-038E	Cardiovascular Orifice Area
MPA Area	SRT	T-44100	Pulmonary Trunk
MPA Area	SRT	G-03A2	2D mode
MPA Area	UCUM	cm2	Square Centimeter
MR ERO	DCM	125195	Pediatric Cardiac Ultrasound Report
MR ERO	SRT	G-038E	Cardiovascular Orifice Area
MR ERO	SRT	T-35300	Mitral Valve
MR ERO	DCM	125216	Proximal Isovelocity Surface Area
MR ERO	SRT	G-0367	Regurgitant Flow
MR ERO	UCUM	cm2	Square Centimeter
MR Flow Rate	DCM	125195	Pediatric Cardiac Ultrasound Report
MR Flow Rate	LN	34141-2	Peak Instantaneous Flow Rate
MR Flow Rate	SRT	T-35300	Mitral Valve
MR Flow Rate	SRT	G-0367	Regurgitant Flow
MR Flow Rate	UCUM	ml/sec	ml/sec
MR Fraction	DCM	125195	Pediatric Cardiac Ultrasound Report
MR Fraction	SRT	G-0390	Regurgitant Fraction
MR Fraction	SRT	T-35300	Mitral Valve
MR Fraction	SRT	G-0367	Regurgitant Flow
MR Fraction	UCUM	%	Percent
MR Volume	DCM	125195	Pediatric Cardiac Ultrasound Report
MR Volume	LN	33878-0	Volume Flow
MR Volume	SRT	T-35300	Mitral Valve
MR Volume	DCM	125216	Proximal Isovelocity Surface Area
MR Volume	SRT	G-0367	Regurgitant Flow

HD15 3.0.x Report Label	CSD	CV	CM
MR Volume	UCUM	ml	Milliliter
MV Annul Area	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Annul Area	SRT	G-038E	Cardiovascular Orifice Area
MV Annul Area	SRT	T-35300	Mitral Valve
MV Annul Area	SRT	G-03A2	2D mode
MV Annul Area	SRT	T-3500E	Cardiac valve annulus
MV Annul Area	UCUM	cm2	Square Centimeter
MV Area	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Area	SRT	G-A166	Area
MV Area	SRT	T-35300	Mitral Valve
MV Area	SRT	G-03A2	2D mode
MV Area	UCUM	cm2	Square Centimeter
MV Area (Ellipse)	DCM	125195	Pediatric Cardiac Ultrasound Report
MV Area (Ellipse)	SRT	G-038E	Cardiovascular Orifice Area
MV Area (Ellipse)	SRT	T-35300	Mitral Valve
MV Area (Ellipse)	SRT	G-03A2	2D mode
MV Area (Ellipse)	DCM	125211	Biplane Ellipse
MV Area (Ellipse)	UCUM	cm2	Square Centimeter
MV E/A	DCM	125195	Pediatric Cardiac Ultrasound Report
MV E/A	LN	59104-0	Peak E wave/Peak A wave by US
MV E/A	SRT	T-35300	Mitral Valve
MV E/A	SRT	P5-B0128	Tissue Doppler Imaging
MV E/A	UCUM	1	no units
MVA (P½t)	DCM	125195	Pediatric Cardiac Ultrasound Report
MVA (P½t)	SRT	G-038E	Cardiovascular Orifice Area
MVA (P½t)	SRT	T-35300	Mitral Valve
MVA (P½t)	DCM	125210	Area by Pressure Half-Time
MVA (P½t)	UCUM	cm2	Square Centimeter
MVA (PISA)	DCM	125195	Pediatric Cardiac Ultrasound Report
MVA (PISA)	SRT	G-038E	Cardiovascular Orifice Area
MVA (PISA)	SRT	T-35300	Mitral Valve
MVA (PISA)	DCM	125216	Proximal Isovelocity Surface Area
MVA (PISA)	UCUM	cm2	Square Centimeter
MVA (VTI)	DCM	125195	Pediatric Cardiac Ultrasound Report
MVA (VTI)	SRT	G-038E	Cardiovascular Orifice Area
MVA (VTI)	SRT	T-35300	Mitral Valve
MVA (VTI)	DCM	125215	Continuity Equation by Velocity Time Integral
MVA (VTI)	UCUM	cm2	Square Centimeter
PAP (AT)	DCM	125195	Pediatric Cardiac Ultrasound Report
PAP (AT)	LN	59101-6	Pulmonary Artery Pressure using Accel Time

HD15 3.0.x Report Label	CSD	CV	CM
PAP (AT)	SRT	T-35200	Pulmonic Valve
PAP (AT)	UCUM	mm[Hg]	Millimeters Of Mercury
PISA (AI)	DCM	125195	Pediatric Cardiac Ultrasound Report
PISA (AI)	LN	20226-7	Flow Area
PISA (AI)	SRT	T-35400	Aortic Valve
PISA (AI)	DCM	125216	Proximal Isovelocity Surface Area
PISA (AI)	SRT	G-0367	Regurgitant Flow
PISA (AI)	UCUM	cm2	Square Centimeter
PISA (MR)	DCM	125195	Pediatric Cardiac Ultrasound Report
PISA (MR)	LN	20226-7	Flow Area
PISA (MR)	SRT	T-35300	Mitral Valve
PISA (MR)	DCM	125216	Proximal Isovelocity Surface Area
PISA (MR)	SRT	G-0367	Regurgitant Flow
PISA (MR)	UCUM	cm2	Square Centimeter
PISA (TR)	DCM	125195	Pediatric Cardiac Ultrasound Report
PISA (TR)	LN	20226-7	Flow Area
PISA (TR)	SRT	T-35100	Tricuspid Valve
PISA (TR)	DCM	125216	Proximal Isovelocity Surface Area
PISA (TR)	SRT	G-0367	Regurgitant Flow
PISA (TR)	UCUM	cm2	Square Centimeter
Pulm V S/D	DCM	125195	Pediatric Cardiac Ultrasound Report
Pulm V S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio
Pulm V S/D	SRT	T-48581	Pulmonary Vein
Pulm V S/D	UCUM	1	no units
PVA (Vmax)	DCM	125195	Pediatric Cardiac Ultrasound Report
PVA (Vmax)	SRT	G-038E	Cardiovascular Orifice Area
PVA (Vmax)	SRT	T-35200	Pulmonic Valve
PVA (Vmax)	DCM	125214	Continuity Equation by Peak Velocity
PVA (Vmax)	UCUM	cm2	Square Centimeter
PVA (VTI)	DCM	125195	Pediatric Cardiac Ultrasound Report
PVA (VTI)	SRT	G-038E	Cardiovascular Orifice Area
PVA (VTI)	SRT	T-35200	Pulmonic Valve
PVA (VTI)	DCM	125215	Continuity Equation by Velocity Time Integral
PVA (VTI)	UCUM	cm2	Square Centimeter
Qp/Qs	DCM	125195	Pediatric Cardiac Ultrasound Report
Qp/Qs	LN	29462-9	Pulmonary-to-Systemic Shunt Flow Ratio
Qp/Qs	SRT	P5-30031	Cardiac Shunt Study
Qp/Qs	UCUM	1	no units
RL PulmV S/D	DCM	125195	Pediatric Cardiac Ultrasound Report
RL PulmV S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio

HD15 3.0.x Report Label	CSD	CV	CM
RL PulmV S/D	SRT	T-48581	Pulmonary Vein
RL PulmV S/D	SRT	T-48520	Right Inferior Pulmonary Vein
RL PulmV S/D	UCUM	1	no units
RU PulmV S/D	DCM	125195	Pediatric Cardiac Ultrasound Report
RU PulmV S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio
RU PulmV S/D	SRT	T-48581	Pulmonary Vein
RU PulmV S/D	SRT	T-48510	Right Superior Pulmonary Vein
RU PulmV S/D	UCUM	1	no units
RV MPI	DCM	125195	Pediatric Cardiac Ultrasound Report
RV MPI	LN	59099-2	Myocardial Performance Index (Tei)
RV MPI	SRT	T-32500	Right Ventricle
RV MPI	UCUM	1	no units
RV PEP/ET	DCM	125195	Pediatric Cardiac Ultrasound Report
RV PEP/ET	LN	59088-5	Pre-Ejection Period/Ejection Time Ratio
RV PEP/ET	SRT	T-32500	Right Ventricle
RV PEP/ET	SRT	G-0394	M mode
RV PEP/ET	UCUM	1	no units
RVOT Area	DCM	125195	Pediatric Cardiac Ultrasound Report
RVOT Area	SRT	G-038E	Cardiovascular Orifice Area
RVOT Area	SRT	T-32500	Right Ventricle
RVOT Area	SRT	G-03A2	2D mode
RVOT Area	SRT	T-32550	Right Ventricle Outflow Tract
RVOT Area	UCUM	cm2	Square Centimeter
RV PEPc	DCM	125195	Pediatric Cardiac Ultrasound Report
RV PEPc	LN	59087-7	Heart Rate-Corrected Pre-Ejection Period
RV PEPc	SRT	T-32500	Right Ventricle
RV PEPc	SRT	G-0394	M mode
RV PEPc	UCUM	msec	Millisecond
RVSP	DCM	125195	Pediatric Cardiac Ultrasound Report
RVSP	SRT	G-0380	Right Ventricular Peak Systolic Pressure
RVSP	SRT	T-32500	Right Ventricle
RVSP	SRT	R-FAB5B	End Systole
RVSP	UCUM	mm[Hg]	Millimeters Of Mercury
RVSP (VSD)	DCM	125195	Pediatric Cardiac Ultrasound Report
RVSP (VSD)	SRT	F-31000	Blood Pressure
RVSP (VSD)	SRT	D4-31150	Ventricular Septal Defect
RVSP (VSD)	SRT	R-FAB5B	End Systole
RVSP (VSD)	UCUM	mm[Hg]	Millimeters Of Mercury
SI (A2C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
SI (A2C-A/L)	SRT	F-00078	Stroke Index

HD15 3.0.x Report Label	CSD	CV	CM
SI (A2C-A/L)	SRT	T-32600	Left Ventricle
SI (A2C-A/L)	SRT	G-03A2	2D mode
SI (A2C-A/L)	SRT	G-A19B	Apical two chamber
SI (A2C-A/L)	DCM	125226	Single Plane Ellipse
SI (A2C-A/L)	UCUM	ml/m2	ml/m2
SI (A4C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
SI (A4C-A/L)	SRT	F-00078	Stroke Index
SI (A4C-A/L)	SRT	T-32600	Left Ventricle
SI (A4C-A/L)	SRT	G-03A2	2D mode
SI (A4C-A/L)	SRT	G-A19C	Apical four chamber
SI (A4C-A/L)	DCM	125226	Single Plane Ellipse
SI (A4C-A/L)	UCUM	ml/m2	ml/m2
SI (2D-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
SI (2D-Cubed)	SRT	F-00078	Stroke Index
SI (2D-Cubed)	SRT	T-32600	Left Ventricle
SI (2D-Cubed)	SRT	G-03A2	2D mode
SI (2D-Cubed)	DCM	125206	Cube Method
SI (2D-Cubed)	UCUM	ml/m2	ml/m2
SI (MM-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
SI (MM-Cubed)	SRT	F-00078	Stroke Index
SI (MM-Cubed)	SRT	T-32600	Left Ventricle
SI (MM-Cubed)	SRT	G-0394	M mode
SI (MM-Cubed)	DCM	125206	Cube Method
SI (MM-Cubed)	UCUM	ml/m2	ml/m2
SI (A2C)	DCM	125195	Pediatric Cardiac Ultrasound Report
SI (A2C)	SRT	F-00078	Stroke Index
SI (A2C)	SRT	T-32600	Left Ventricle
SI (A2C)	SRT	G-03A2	2D mode
SI (A2C)	SRT	G-A19B	Apical two chamber
SI (A2C)	DCM	125208	Method of Disks, Single Plane
SI (A2C)	UCUM	ml/m2	ml/m2
SI (A4C)	DCM	125195	Pediatric Cardiac Ultrasound Report
SI (A4C)	SRT	F-00078	Stroke Index
SI (A4C)	SRT	T-32600	Left Ventricle
SI (A4C)	SRT	G-03A2	2D mode
SI (A4C)	SRT	G-A19C	Apical four chamber
SI (A4C)	DCM	125208	Method of Disks, Single Plane
SI (A4C)	UCUM	ml/m2	ml/m2
SI (BP)	DCM	125195	Pediatric Cardiac Ultrasound Report
SI (BP)	SRT	F-00078	Stroke Index

HD15 3.0.x Report Label	CSD	CV	CM
SI (BP)	SRT	T-32600	Left Ventricle
SI (BP)	SRT	G-03A2	2D mode
SI (BP)	DCM	125207	Method of Disks, Biplane
SI (BP)	UCUM	ml/m2	ml/m2
SI (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
SI (A/L)	SRT	F-00078	Stroke Index
SI (A/L)	SRT	T-32600	Left Ventricle
SI (A/L)	SRT	G-03A2	2D mode
SI (A/L)	DCM	125226	Single Plane Ellipse
SI (A/L)	UCUM	ml/m2	ml/m2
SI (2D-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
SI (2D-Teich)	SRT	F-00078	Stroke Index
SI (2D-Teich)	SRT	T-32600	Left Ventricle
SI (2D-Teich)	SRT	G-03A2	2D mode
SI (2D-Teich)	DCM	125209	Teichholz
SI (2D-Teich)	UCUM	ml/m2	ml/m2
SI (MM-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
SI (MM-Teich)	SRT	F-00078	Stroke Index
SI (MM-Teich)	SRT	T-32600	Left Ventricle
SI (MM-Teich)	SRT	G-0394	M mode
SI (MM-Teich)	DCM	125209	Teichholz
SI (MM-Teich)	UCUM	ml/m2	ml/m2
SV (A2C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (A2C-A/L)	SRT	F-32120	Stroke Volume
SV (A2C-A/L)	SRT	T-32600	Left Ventricle
SV (A2C-A/L)	SRT	G-03A2	2D mode
SV (A2C-A/L)	SRT	G-A19B	Apical two chamber
SV (A2C-A/L)	DCM	125226	Single Plane Ellipse
SV (A2C-A/L)	UCUM	ml	Milliliter
SV (A4C-A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (A4C-A/L)	SRT	F-32120	Stroke Volume
SV (A4C-A/L)	SRT	T-32600	Left Ventricle
SV (A4C-A/L)	SRT	G-03A2	2D mode
SV (A4C-A/L)	SRT	G-A19C	Apical four chamber
SV (A4C-A/L)	DCM	125226	Single Plane Ellipse
SV (A4C-A/L)	UCUM	ml	Milliliter
SV (2D-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (2D-Cubed)	SRT	F-32120	Stroke Volume
SV (2D-Cubed)	SRT	T-32600	Left Ventricle
SV (2D-Cubed)	SRT	G-03A2	2D mode

HD15 3.0.x Report Label	CSD	CV	CM
SV (2D-Cubed)	DCM	125206	Cube Method
SV (2D-Cubed)	UCUM	ml	Milliliter
SV (MM-Cubed)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (MM-Cubed)	SRT	F-32120	Stroke Volume
SV (MM-Cubed)	SRT	T-32600	Left Ventricle
SV (MM-Cubed)	SRT	G-0394	M mode
SV (MM-Cubed)	DCM	125206	Cube Method
SV (MM-Cubed)	UCUM	ml	Milliliter
SV (LVOT)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (LVOT)	SRT	F-32120	Stroke Volume
SV (LVOT)	SRT	T-32600	Left Ventricle
SV (LVOT)	SRT	T-32650	Left Ventricle Outflow Tract
SV (LVOT)	UCUM	ml	Milliliter
SV (A2C)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (A2C)	SRT	F-32120	Stroke Volume
SV (A2C)	SRT	T-32600	Left Ventricle
SV (A2C)	SRT	G-03A2	2D mode
SV (A2C)	SRT	G-A19B	Apical two chamber
SV (A2C)	DCM	125208	Method of Disks, Single Plane
SV (A2C)	UCUM	ml	Milliliter
SV (A4C)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (A4C)	SRT	F-32120	Stroke Volume
SV (A4C)	SRT	T-32600	Left Ventricle
SV (A4C)	SRT	G-03A2	2D mode
SV (A4C)	SRT	G-A19C	Apical four chamber
SV (A4C)	DCM	125208	Method of Disks, Single Plane
SV (A4C)	UCUM	ml	Milliliter
SV (BP)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (BP)	SRT	F-32120	Stroke Volume
SV (BP)	SRT	T-32600	Left Ventricle
SV (BP)	SRT	G-03A2	2D mode
SV (BP)	DCM	125207	Method of Disks, Biplane
SV (BP)	UCUM	ml	Milliliter
SV (MV)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (MV)	SRT	F-32120	Stroke Volume
SV (MV)	SRT	T-35300	Mitral Valve
SV (MV)	UCUM	ml	Milliliter
SV (PV)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (PV)	SRT	F-32120	Stroke Volume
SV (PV)	SRT	T-35200	Pulmonic Valve

HD15 3.0.x Report Label	CSD	CV	CM
SV (PV)	UCUM	ml	Milliliter
SV (RVOT)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (RVOT)	SRT	F-32120	Stroke Volume
SV (RVOT)	SRT	T-32500	Right Ventricle
SV (RVOT)	SRT	T-32550	Right Ventricle Outflow Tract
SV (RVOT)	UCUM	ml	Milliliter
SV (A/L)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (A/L)	SRT	F-32120	Stroke Volume
SV (A/L)	SRT	T-32600	Left Ventricle
SV (A/L)	SRT	G-03A2	2D mode
SV (A/L)	DCM	125226	Single Plane Ellipse
SV (A/L)	UCUM	ml	Milliliter
SV (2D-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (2D-Teich)	SRT	F-32120	Stroke Volume
SV (2D-Teich)	SRT	T-32600	Left Ventricle
SV (2D-Teich)	SRT	G-03A2	2D mode
SV (2D-Teich)	DCM	125209	Teichholz
SV (2D-Teich)	UCUM	ml	Milliliter
SV (MM-Teich)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (MM-Teich)	SRT	F-32120	Stroke Volume
SV (MM-Teich)	SRT	T-32600	Left Ventricle
SV (MM-Teich)	SRT	G-0394	M mode
SV (MM-Teich)	DCM	125209	Teichholz
SV (MM-Teich)	UCUM	ml	Milliliter
SV (TV)	DCM	125195	Pediatric Cardiac Ultrasound Report
SV (TV)	SRT	F-32120	Stroke Volume
SV (TV)	SRT	T-35100	Tricuspid Valve
SV (TV)	UCUM	ml	Milliliter
SVC S/D	DCM	125195	Pediatric Cardiac Ultrasound Report
SVC S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio
SVC S/D	SRT	M-2460D	Right Superior vena cava
SVC S/D	UCUM	1	no units
Tei Index	DCM	125195	Pediatric Cardiac Ultrasound Report
Tei Index	LN	59099-2	Myocardial Performance Index (Tei)
Tei Index	SRT	T-35300	Mitral Valve
Tei Index	UCUM	1	no units
TR ERO	DCM	125195	Pediatric Cardiac Ultrasound Report
TR ERO	SRT	G-038E	Cardiovascular Orifice Area
TR ERO	SRT	T-35100	Tricuspid Valve
TR ERO	DCM	125216	Proximal Isovelocity Surface Area

HD15 3.0.x Report Label	CSD	CV	CM
TR ERO	SRT	G-0367	Regurgitant Flow
TR ERO	UCUM	cm2	Square Centimeter
TR Flow Rate	DCM	125195	Pediatric Cardiac Ultrasound Report
TR Flow Rate	LN	34141-2	Peak Instantaneous Flow Rate
TR Flow Rate	SRT	T-35100	Tricuspid Valve
TR Flow Rate	SRT	G-0367	Regurgitant Flow
TR Flow Rate	UCUM	ml/sec	ml/sec
TR Fraction	DCM	125195	Pediatric Cardiac Ultrasound Report
TR Fraction	SRT	G-0390	Regurgitant Fraction
TR Fraction	SRT	T-35100	Tricuspid Valve
TR Fraction	SRT	G-0367	Regurgitant Flow
TR Fraction	UCUM	%	Percent
TR Volume	DCM	125195	Pediatric Cardiac Ultrasound Report
TR Volume	LN	33878-0	Volume Flow
TR Volume	SRT	T-35100	Tricuspid Valve
TR Volume	DCM	125216	Proximal Isovelocity Surface Area
TR Volume	SRT	G-0367	Regurgitant Flow
TR Volume	UCUM	ml	Milliliter
TV Annul Area	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Annul Area	SRT	G-038E	Cardiovascular Orifice Area
TV Annul Area	SRT	T-35100	Tricuspid Valve
TV Annul Area	SRT	G-03A2	2D mode
TV Annul Area	SRT	T-3500E	Cardiac valve annulus
TV Annul Area	UCUM	cm2	Square Centimeter
TV Area	DCM	125195	Pediatric Cardiac Ultrasound Report
TV Area	SRT	G-A166	Area
TV Area	SRT	T-35100	Tricuspid Valve
TV Area	SRT	G-03A2	2D mode
TV Area	UCUM	cm2	Square Centimeter
TV E/A	DCM	125195	Pediatric Cardiac Ultrasound Report
TV E/A	LN	59104-0	Peak E wave/Peak A wave by US
TV E/A	SRT	T-35100	Tricuspid Valve
TV E/A	UCUM	1	no units
TVA (PISA)	DCM	125195	Pediatric Cardiac Ultrasound Report
TVA (PISA)	SRT	G-038E	Cardiovascular Orifice Area
TVA (PISA)	SRT	T-35100	Tricuspid Valve
TVA (PISA)	DCM	125216	Proximal Isovelocity Surface Area
TVA (PISA)	UCUM	cm2	Square Centimeter
VSD Diam	DCM	125195	Pediatric Cardiac Ultrasound Report
VSD Diam	SRT	M-02550	Diameter

HD15 3.0.x Report Label	CSD	CV	CM
VSD Diam	SRT	D4-31150	Ventricular Septal Defect
VSD Diam	SRT	G-03A2	2D mode
VSD Diam	UCUM	cm	Centimeter
Wall Stress	DCM	125195	Pediatric Cardiac Ultrasound Report
Wall Stress	LN	59097-6	Left Ventricle Meridional Wall Stress
Wall Stress	SRT	T-32600	Left Ventricle
Wall Stress	SRT	G-0394	M mode
Wall Stress	UCUM	kg/m2	kg/m2

A.5.3 Pediatric Echo Meas/Calcs NOT exported in Dicom

The following labels are not exported in DICOM Structured Reports for Pediatric Echo

HD15 3.0.x Label
Ped AI End Dias PG
Ped AI PHalfT-DopSlope
Ped AI PHalfT-DopTime
Ped AI PHalfT-MaxPG
Ped AI PHalfT-Vmax
Ped B-C Slope-Dist
Ped B-C Slope-MMTime
Dist L PulmA Diam
Ped Dist L PulmA MaxPG
Ped Dist L PulmA Vmax
Dist R PulmA Diam
Ped Dist R PulmA MaxPG
Ped Dist R PulmA Vmax
m_p_EDV_MOD_A2C
m_p_EDV_MOD_A4C
m_p_ESV_MOD_A4C
m_p_IVC_ARevsVel_PG
m_p_IVC_DiasVel_PG
m_p_IVC_SysVel_PG
Ped Late Dias Slope-Dist
Ped Late Dias Slope-MMTime
Ped LV LdApical Area
m_p_LVAD_A2C
m_p_LVAD_A4C
m_p_LVAS_A2C

HD15 3.0.x Label
m_p_LVAS_A4C
m_p_LVLD_A2C
m_p_LVLD_A4C
m_p_LVLS_A4C
Ped MV DE Exc MMTime
Ped MV DE Dist
Ped MV DE MMTime
MV PHalfT-DopSlope
MV PHalfT-DopTime
Ped PDA DiasVel PG
Ped PI End Dias PG
Ped PI PHalfT-DopSlope
Ped PI PHalfT-DopTime
Ped PI PHalfT-MaxPG
Hep. A Revs Vel-PG
m_p_SVC_DiasVel_PG
m_p_SVC_SysVel_PG
Ped TV D-E Exc-MMTime
Ped TV DE Distance
Ped TV DE MMTime
m_p_TV_PeakAVel_PG
m_p_TV_PeakEVel_PG
Ped TV PHalfT-DopSlope
Ped TV PHalfT-DopTime
Ped TV PHalfT-MaxPG

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 HD15 3.0.x 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 *****