



GE Healthcare Austria

DICOM[®] Conformance Statement

DOC2206495

Revision 1

VOLUSON[™] E10 EC350

VOLUSON[™] E8 EC350

VOLUSON[™] E6 EC350

CE₀₁₂₃

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GE Healthcare Austria GmbH & Co OG

Tiefenbach 15, 4871 Zipf, Austria

Phone +43-(0)7682-3800-0

Fax +43-(0)7682-3800-47

<http://www.gehealthcare.com>

Conformance Statement Overview

The Voluson E6/E8/E10 is a self-contained networked computer system used for acquiring ultrasound diagnostic medical images. The system implements the necessary DICOM services to download work list from an information system, save acquired US images to a network storage device or media, print to a networked hardcopy device, query and move US images from a networked storage and inform the information system about the work actually done. The system conforms to the DICOM standard to allow the sharing of medical information with other digital imaging systems.

Table 0.0–1: **Provides an overview of the network services supported by Voluson E6/E8/E10.**

| SOP Classes | User of Service (SCU) | Provider of Service (SCP) |
|--|------------------------------|----------------------------------|
| Transfer | | |
| Verification | Yes | Yes |
| US Image Storage | Yes | Yes (only in context of Q/R) |
| US Multi-frame Storage | Yes | Yes (only in context of Q/R) |
| Enhanced US Volume Storage | Yes | No |
| Secondary Capture Image Storage | Yes | Yes (only in context of Q/R) |
| Query/Retrieve | | |
| Study Root Q/R - Find | Yes | No |
| Study Root Q/R - Move | Yes | No |
| Print Management | | |
| Basic Grayscale Print Management | Yes | No |
| Basic Color Print Management | Yes | No |
| Workflow Management | | |
| Modality Worklist | Yes | No |
| Modality Performed Procedure | Yes | No |
| Storage Commitment Push Model | Yes | No |
| Notes, Report, Measurements, Transfer | | |
| Comprehensive SR Storage | Yes | No |

Table 0.0–2: **Provides an overview of the Media Storage Application Profile supported by Voluson E6/E8/E10.**

| Media Storage Application Profile | Write Files (FSC or FSU) | Read Files (FSR) |
|--|---------------------------------|-------------------------|
| CD-R | | |
| AUG-US-SC-SF-CDR, AUG-US-SC-MF-CDR | Yes | No |
| DVD | | |
| AUG-US-SC-SF-DVD, AUG-US-SC-MF-DVD | Yes | No |

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1 Introduction

1.1 Overview

This DICOM Conformance Statement is divided into Sections as described below:

Section 1 (Introduction), which describes the overall structure, intent, and references for this Conformance Statement

Section 2 (Network Conformance Statement), which specifies the Voluson E6/E8/E10 equipment compliance to the DICOM requirements for the implementation of Networking features.

Section 3 (Media Storage Conformance Statement), which specifies the Voluson E6/E8/E10 equipment compliance to the DICOM requirements for the implementation of Media Storage features.

Section 4 (Ultrasound Information Object Implementation), which specifies the Voluson E6/E8/E10 compliance to DICOM requirements for the implementation of an Ultrasound Medicine Information Object.

Section 5 (Ultrasound Multi-Frame Information Object Implementation), which specifies the Voluson E6/E8/E10 compliance to DICOM requirements for the implementation of an Ultrasound Multi-Frame Information Object.

Section 6 (Enhanced Ultrasound Volume Object Implementation), which specifies the Voluson E6/E8/E10 compliance to DICOM requirements for the implementation of an Enhanced Ultrasound Volume Information Object. ($\geq 10.x.x$)

Section 7 (SC Information Object Implementation), which specifies the Voluson E6/E8/E10 compliance to DICOM requirements for the implementation of a Secondary Capture Information Object.

Section 8 (SR Information Object Implementation), which specifies the Voluson E6/E8/E10 compliance to DICOM requirements for the implementation of a Comprehensive Structured Reporting Information Object.

Section 9 (Modality Worklist Information Model), which specifies the Voluson E6/E8/E10 equipment compliance to DICOM requirements for the implementation of the Modality Worklist service.

Section 10 (Modality Performed Procedure Step SOP Class Definition), which specifies the Voluson E6/E8/E10 compliance to DICOM requirements for the implementation of Modality Performed Procedure Step Service.

Section 11 (Storage Commitment Push Model SOP Class Definition), which specifies the Voluson E6/E8/E10 compliance to DICOM requirements for the implementation of the Storage Commitment Push Model Service.

Section 12 (Basic Print Meta SOP Class Information Object Implementation), which specifies the Voluson E6/E8/E10 compliance to DICOM requirements for the implementation of Basic Print Meta SOP Classes (Gray and Color).

section 13 (study root query/retrieve information model), which specifies the Voluson E6/E8/E10 compliance to dicom requirements for the study root query/retrieve information model.

section 14 (audit trail message format profile), which specifies the Voluson E6/E8/E10 compliance to dicom requirements for the audit trail message format profile.

1.2 Overall DICOM Conformance Statement Document Structure

The Documentation Structure of the GE Healthcare Conformance Statements and their relationship with the DICOM Conformance Statements is shown below.

This document specifies the DICOM implementation. It is entitled:

Voluson E6/E8/E10 Version EC350 Conformance Statement Part Number DOC2206495

This DICOM Conformance Statement documents the DICOM Conformance Statement and Technical Specification required to inter-operate with the Voluson E6/E8/E10 network interface. Introductory information, which is applicable to all GE Healthcare Conformance Statements, is described in the document:

Introduction to the Integrated DICOM/Network v3.0 (ID/Net v3.0) Conformance Statement
Direction: 2118780.

This Introduction familiarizes the reader with DICOM terminology and general concepts. It should be read prior to reading the individual products' GE Healthcare Conformance Statements.

The Voluson E6/E8/E10 Conformance Statement, contained in this document, also specifies the Lower Layer communications, which it supports (e.g. TCP/IP). However, the Technical Specifications are defined in the DICOM Part 8 standard.

For more information including Network Architecture and basic DICOM concepts, please refer to the Introduction.

For more information regarding DICOM, copies of the Standard may be obtained on the Internet at <http://medical.nema.org>. Comments on the standard may be addressed to:

DICOM Secretariat NEMA 1300 N. 17th Street, Suite 1847 Rosslyn, VA 22209 USA

1.3 Intended Audience

The reader of this document is concerned with software design and/or system integration issues. It is assumed that the reader of this document is familiar with the DICOM Standards and with the terminology and concepts, which are used in those Standards. If readers are unfamiliar with DICOM terminology they should first refer to the document listed below, then read the DICOM Standard itself, prior to reading this DICOM Conformance Statement document.

Introduction to the Integrated DICOM/Network v3.0 (ID/Net v3.0) Conformance
Statement Direction: 2118780

1.4 Scope and Field of Application

It is the intent of this document, in conjunction with the Introduction to the Integrated DICOM/Network v3.0 (ID/Net v3.0) Conformance Statement, Direction: 2118780, to provide an unambiguous specification for GE Healthcare implementations. This specification, called a Conformance Statement, includes a DICOM Conformance Statement and is necessary to ensure proper processing and interpretation of GE Healthcare medical data exchanged using DICOM. The Voluson E6/E8/E10 Conformance Statements are available to the public.

Included in this DICOM Conformance Statement are the Module Definitions, which define all data elements, used by the Voluson E6/E8/E10 implementation. If the user encounters unspecified private data elements while parsing a Voluson E6/E8/E10 Data Set, the user is well advised to ignore those data elements (per the DICOM standard). Unspecified private data element information is subject to change without notice. If, however, the device is acting as a "full fidelity storage device", it should retain and re-transmit all of the private data elements which are sent by the Voluson E6/E8/E10.

1.5 Important Remarks

The use of these DICOM Conformance Statements, in conjunction with the DICOM Standards, is intended to facilitate communication with the Voluson E6/E8/E10 equipment. However, **by itself, it is not sufficient to ensure that inter-operation will be successful**. The user (or user's agent) needs to proceed with caution and address at least four issues:

Integration - The integration of any device into an overall system of interconnected devices goes beyond the scope of standards (DICOM), and of this introduction and associated DICOM Conformance Statements when interoperability with non-GE equipment is desired. The responsibility to analyze the applications requirements and to design a solution that integrates GE imaging equipment with non-GE systems is the user's responsibility and should not be underestimated. The user is strongly advised to ensure that such an integration analysis is correctly performed.

Validation - Testing the complete range of possible interactions between any GE device and non-GE devices, before the connection is declared operational, should not be overlooked. Therefore, the user should ensure that any non-GE provider accepts full responsibility for all validation required for their connection with GE devices. This includes the accuracy of the image data once it has crossed the interface between the GE imaging equipment and the non-GE device and the stability of the image data for the intended applications.

Such a validation is required before any clinical use (diagnosis and/or treatment) is performed. It applies when images acquired on GE imaging equipment are processed/displayed on a non-GE device, as well as when images acquired on non-GE equipment is processed/displayed on a GE console or workstation.

Future Evolution - GE understands that the DICOM Standard will evolve to meet the user's growing requirements. GE is actively involved in the development of the DICOM Standard. DICOM will incorporate new features and technologies and GE may follow the evolution of the Standard. The GE Healthcare protocol is based on DICOM as specified in each DICOM Conformance Statement. Evolution of the Standard may require

changes to devices, which have implemented DICOM. In addition, GE reserves the right to discontinue or make changes to the support of communications features (on its products) reflected on by these DICOM Conformance Statements. The user should ensure that any non-GE provider, which connects with GE devices, also plans for the future evolution of the DICOM Standard. Failure to do so will likely result in the loss of function and/or connectivity as the DICOM Standard changes and GE Products are enhanced to support these changes.

Interaction - It is the sole responsibility of the non-GE provider to ensure that communication with the interfaced equipment does not cause degradation of GE imaging equipment performance and/or function.

2 Network Conformance Statement

2.1 Introduction

This section of the DICOM Conformance Statement specifies the compliance to DICOM conformance requirements for the relevant Networking features for the Voluson E6/E8/E10. Note that the format of this section strictly follows the format defined in DICOM Standard PS 3.2 (Conformance). Please refer to that part of the standard while reading this section. Voluson E6/E8/E10 is an Ultrasound scanner running on a commercial computer. It allows for the following DICOM functionality:

- Sending and receiving Echo messages to and from DICOM Verification SCP and client.
- Exporting DICOM images and SR documents to a DICOM SCP.
- Querying and retrieving DICOM Modality Worklist from a Worklist SCP.
- Sending start and end of examination to a DICOM Modality Performed Procedure Step SCP.
- Sending storage commitment requests to and receiving replies from a DICOM Storage Commitment SCP.
- Printing images to a DICOM Printer.
- Querying and retrieving examinations from the DICOM Query/Retrieve SCP.

2.2 Implementation Model

2.2.1 Application Data Flow Diagram

The Basic and Specific Application models for this device are shown in Figure 1.

There are seven local real-world activities that occur in Voluson E6/E8/E10 - **Image Send, Verify, Query Worklist, Start/End Exam, Print Image, Query/Retrieve and Receive Image.**

- **Image Send** spools images or SR documents into a send queue. The queue manager then initiates a connection with the DICOM SCP and transmits the images and SR documents to the DICOM SCP. If Storage Commitment is configured, a commitment request will be sent for the images and SR documents. The resulting N-Event-Report from the SCP will be processed by the queue manager.
- **Verify** initiates a connection with the DICOM SCP, posts a Verification request and closes the connection. It also responds to incoming Verification requests.
- **Query Worklist** initiates a connection with the DICOM SCP, performs a query and retrieves the matching entries to the product.
- **Start/End exam:** If Modality Performed Procedure Step is configured N-CREATE and N-SET messages will be sent for the exam.

Dicom Standard Interface

The arrows indicate the direction of
association initiation

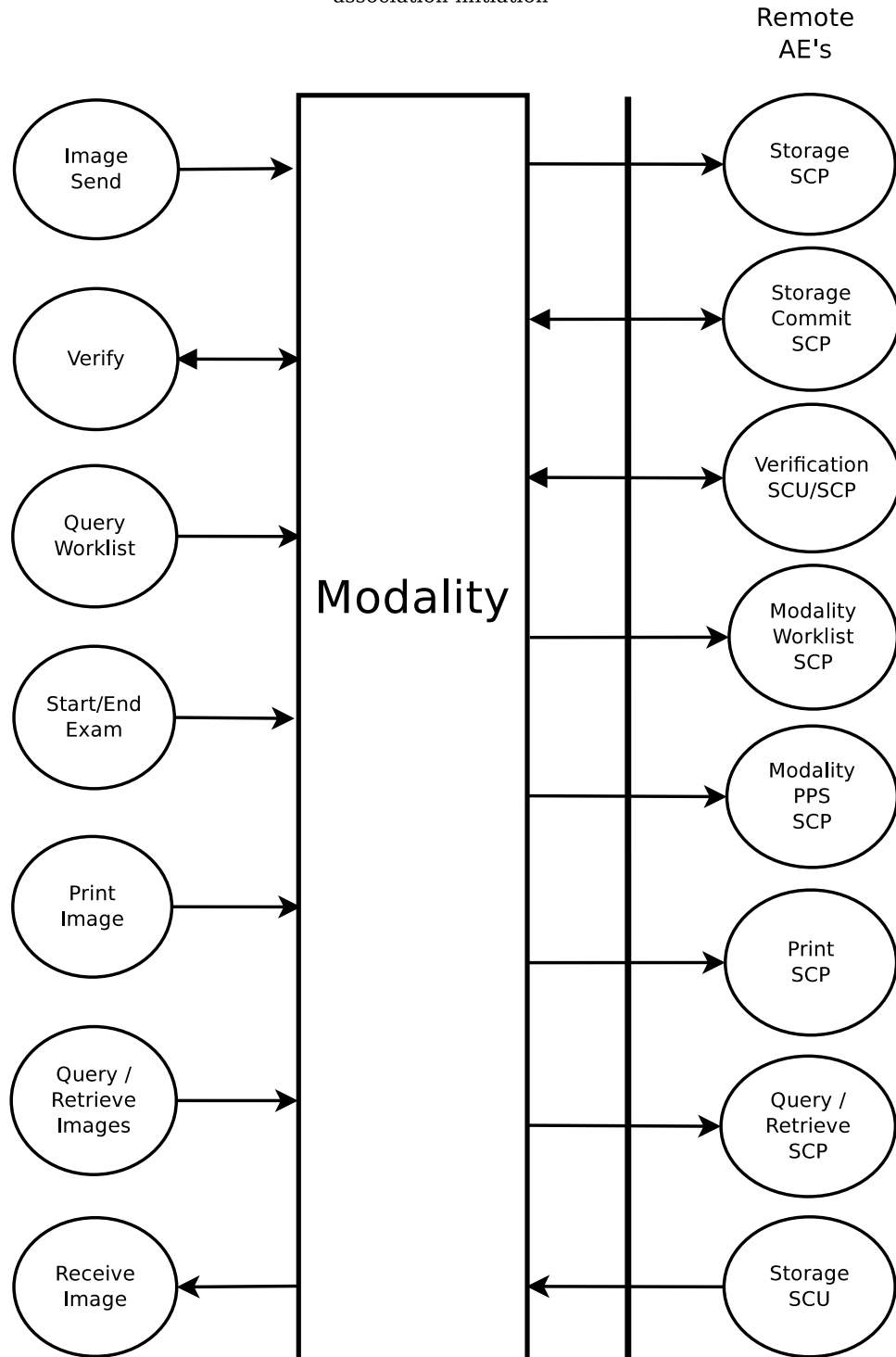


Figure 1: Application Data Flow Diagram

- **Print Image** will send images to a DICOM Print SCP. It uses the same spooling mechanism as Image Send.
- **Query/Retrieve** will send queries to a DICOM Query/Retrieve SCP and retrieve images.
- **Receive Image:** The modality will accept requests for DICOM image storage and store the received images into a local database.

2.2.2 Functional Definition of AE's

Application Entity Voluson E6/E8/E10 supports the following functions:

- Initiates a DICOM association to send images and SR documents.
- Initiates a DICOM verification to assist in network diagnostics.
- Responds to DICOM verification requests from other devices.
- Initiates a DICOM worklist query to receive worklist information.
- Initiates a DICOM association to notify start of examination.
- Initiates a DICOM association to notify end of examination.
- Initiates a DICOM association to request storage commitment of images and SR documents.
- Responds to replies from DICOM Storage Commitment SCPs, for storage commitment requests of images and SR documents sent by Voluson E6/E8/E10.
- Initiates a DICOM association to print images.
- Initiates a DICOM association to query for and retrieve images.
- Responds to Image Storage requests from Storage SCU.

2.2.3 Sequencing of Real-World Activities

Not applicable.

2.3 AE Specifications

2.3.1 Voluson E6/E8/E10 AE Specification

This Application Entity provides Standard Conformance to the following DICOM SOP Classes as an SCU:

Table 2.3–1: SCU SOP Classes

| SOP Class Name | SOP Class UID |
|--|-------------------------------|
| Ultrasound Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 |
| Ultrasound Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 |
| Enhanced Ultrasound Volume Storage ($\geq 10.x.x$) | 1.2.840.10008.5.1.4.1.1.6.2 |
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 |
| Verification SOP Class | 1.2.840.10008.1.1 |
| Modality Worklist Information Model - FIND | 1.2.840.10008.5.1.4.31 |
| Modality Performed Procedure Step SOP Class | 1.2.840.10008.3.1.2.3.3 |
| Storage Commitment Push Model SOP Class | 1.2.840.10008.1.20.1 |
| Basic Grayscale Print Management Meta SOP Class | 1.2.840.10008.5.1.1.9 |
| Basic Color Print Management Meta SOP Class | 1.2.840.10008.5.1.1.18 |
| Comprehensive Structured Report Storage | 1.2.840.10008.5.1.4.1.1.88.33 |
| Study Root Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.2.1 |
| Study Root Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.2.2 |

This Application Entity provides Standard Conformance to the following DICOM SOP Classes as an SCP:

Table 2.3–2: SCP SOP Classes

| SOP Class Name | SOP Class UID |
|--|-----------------------------|
| Verification SOP Class | 1.2.840.10008.1.1 |
| Ultrasound Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 |
| Ultrasound Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 |
| Enhanced Ultrasound Volume Storage ($\geq 10.x.x$) | 1.2.840.10008.5.1.4.1.1.6.2 |
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 |

2.3.1.1 Association Establishment Policies

2.3.1.1.1 General

The DICOM Application Context Name (ACN), which is always proposed, is:

Table 2.3–3: Application Context Name

| Name | UID |
|--------------------------|-----------------------|
| Application Context Name | 1.2.840.10008.3.1.1.1 |

The Maximum Length PDU negotiation is included in all association establishment requests. The maximum length PDU for an association initiated by the equipment is:

Table 2.3-4: **PDU Size**

| Name | Length |
|---|-------------|
| Maximum PDU Size Offered (not configurable) | 28872 bytes |

The SOP Class Extended Negotiation is not supported.

The user information Items sent by this product are:

- Maximum PDU Length
- Implementation UID Implementation
- Version Name

2.3.1.1.2 Number of Associations

The Voluson E6/E8/E10 AE will initiate multiple DICOM associations.

2.3.1.1.3 Asynchronous Nature

Asynchronous mode is not supported. All operations will be performed synchronously.

2.3.1.1.4 Implementation Identifying Information

The Implementation UID for this DICOM Implementation is:

"1.2.276.0.26.20010718.240"

The Implementation Version Name for this DICOM Implementation is:

"KRETZDICOM.240"

Note: The Implementation Version Name may change in the future without modification of this document.

2.3.1.2 Association Initiation Policy

The Voluson E6/E8/E10 AE attempts to establish a new association with a remote device due to the following Real-World Activities:

- Image Send initiated by the operator for images and SR documents and sending requests for Storage Commitment.

- Verification, which verifies application level communication between peer DICOM AE's for service purposes.
- Worklist initiated by the operator for receiving worklist information.
- Start/End Exam sending messages to Modality Performed Procedure Step.
- Print initiated by the operator for a specific image or group of images.
- Query/Retrieve initiated by the operator for querying and receiving images.

2.3.1.2.1 Real-World Activity ('Image Send' Operation)

2.3.1.2.1.1 Associated Real-World Activity

Upon a request by the operator (manual or automatic), images or SR documents will be sent to a DICOM Storage SCP.

2.3.1.2.1.2 Proposed Presentation Context Tables

The Proposed Presentation Context Table depends on compression according to the following tables:

Table 2.3-5: **Presentation Context Table - Proposed (No Compression)**

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|--------------------------------------|-----------------------------|---|---|------|-----------|
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 | Explicit VR Little Endian Explicit VR Big Endian Implicit VR Little Endian | 1.2.840.10008.1.2.1 1.2.840.10008.1.2.2 1.2.840.10008.1.2 | SCU | None. |
| Ultrasound Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 | Explicit VR Little Endian Explicit VR Big Endian Implicit VR Little Endian | 1.2.840.10008.1.2.1 1.2.840.10008.1.2.2 1.2.840.10008.1.2 | SCU | None. |
| Enhanced US Volume Storage | 1.2.840.10008.5.1.4.1.1.6.2 | Explicit VR Little Endian Explicit VR Big Endian Implicit VR Little Endian | 1.2.840.10008.1.2.1 1.2.840.10008.1.2.2 1.2.840.10008.1.2 | SCU | None. |
| Ultrasound Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 | Explicit VR Little Endian Explicit VR Big Endian Implicit VR Little Endian | 1.2.840.10008.1.2.1 1.2.840.10008.1.2.2 1.2.840.10008.1.2 | SCU | None. |

Table 2.3–6: **Presentation Context Table - Proposed (JPEG Compression)**

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|--------------------------------------|-----------------------------|---|--|-------------|------------------|
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 | JPEG Baseline JPEG Lossless Non-Hier. (Process 14) | 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 | SCU | None. |
| Ultrasound Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 | JPEG Baseline JPEG Lossless Non-Hier. (Process 14) | 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 | SCU | None. |
| Enhanced US Volume Storage | 1.2.840.10008.5.1.4.1.1.6.2 | JPEG Baseline JPEG Lossless Non-Hier. (Process 14) | 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 | SCU | None. |
| Ultrasound Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 | JPEG Baseline JPEG Lossless Non-Hier. (Process 14) | 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 | SCU | None. |

Table 2.3–7: **Presentation Context Table - Proposed**

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|---------------------------------|-----------------------------------|------------------------------|----------------------------|-------------|------------------|
| Comprehensive Structured Report | 1.2.840.10008.5.1.4.1 .1.88.33 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCU | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |
| | | | | | |

Table 2.3–8: **Presentation Context Table - Proposed - Storage Commitment**

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|---|----------------------------|------------------------------|----------------------------|-------------|------------------|
| Storage Commitment Push Model SOP Class | 1.2.840.10008.1.20.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCU | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |
| | | | | | |

2.3.1.2.1.2.1 SOP Specific DICOM Conformance for all Storage SOP Classes

The Voluson E6/E8/E10 also sends a Storage Commitment Request, with the above proposed presentation context. The result from the SCP is expected on another association for the Storage Commitment result.

2.3.1.2.1.2.2 SOP Specific DICOM Statement for all Storage SOP Classes and Storage Commitment SOP Class

For this SOP class, all status codes with status Refused or Error are treated as failures and will terminate the association and operation. On a failure, the request will remain in the sending queue and will be retried a configurable amount of times. If the failure persists the job will be marked as permanently failed. Jobs with status permanently failed can be retried manually. Warning or Success are treated as successes. There is no fallback procedure available if the SCP does not support the Enhanced US Volume Storage SOP Class.

The Storage Commitment SCP AE Title and the Storage SCP AE Title are free configurable and can be different.

2.3.1.2.2 Real-World Activity ('Verify' Operation)

2.3.1.2.2.1 Associated Real-World Activity

The user may initiate a DICOM Verification Request in the Config screen. Associations will be released upon the receipt of each C-ECHO confirmation. In the event that the SCP does not respond for some reason, the operation will time out and the Voluson E6/E8/E10 will close the association.

2.3.1.2.2.2 Proposed Presentation Context Table

Table 2.3-9: Presentation Context Table - Proposed

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|------------------------|---------------------|---------------------------|---------------------|------|-----------|
| Verification SOP Class | 1.2.840.10008.1.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCU | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |
| | | | | | |

2.3.1.2.3 Real-World Activity ('Query Worklist' Operation)

2.3.1.2.3.1 Associated Real-World Activity

The user may initiate a DICOM Worklist Query in Search screen, which will send a C-FIND-RQ to the Worklist SCP.

Associations will be released upon the receipt of C-FIND-RSP confirmation.
C-FIND-CANCEL-RQ is not supported.

2.3.1.2.3.2 Proposed Presentation Context Table

Table 2.3–10: Presentation Context Table - Proposed

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|--|------------------------|---------------------------|---------------------|------|-----------|
| Modality Worklist Information Model - FIND | 1.2.840.10008.5.1.4.31 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCU | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |
| | | | | | |

2.3.1.2.3.2.1 SOP Specific DICOM Conformance Statement for Worklist SOP Classes

The Voluson E6/E8/E10 includes matching keys in the Modality Worklist queries as described in Section 9.5. Status codes Refused, Error and Warning are treated as failures and will terminate the association and operation. On a failure, the user will be informed. On status code Success the worklist will be displayed and the operation will be terminated. On Status code Pending the system will continue receiving C-FIND-RSP's.

2.3.1.2.4 Real-World Activity ('Start/End Exam' Operation)

2.3.1.2.4.1 Associated Real-World Activity

The Modality Performed Procedure Step message is sent when the exam is started by the user after a worklist entry has been selected or patient data have been entered on the patient data entry screen. Also different procedure steps can be selected at the patient data entry screen. At this time the N-CREATE message is sent.

The N-SET will be sent when 'End Exam' is being pressed. The status is set to COMPLETED by default. However the operator may choose to manually set the status to DISCONTINUED and select the discontinuation reason from a predefined list.

The sequences and codes for N-CREATE and N-SET are described in Tables 10.2–2, 10.2–3 and 10.2–4.

2.3.1.2.4.2 Proposed Presentation Context Table

Table 2.3–11: Presentation Context Table - Proposed

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|---|-------------------------|------------------------------|---------------------|------|-----------|
| Modality Performed Procedure Step SOP Class | 1.2.840.10008.3.1.2.3.3 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCU | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |

2.3.1.2.4.2.1 SOP Specific DICOM Conformance Statement for Modality Performed Procedure Step SOP Class

The Voluson E6/E8/E10 includes Attributes in the Modality Performed Procedure Step N-CREATE as described in Section 10.2.1.

The Voluson E6/E8/E10 includes Attributes in the Modality Performed Procedure Step N-SET as described in Section 10.2.1.

The mapping from Worklist attributes is described in Section 9.5.

Voluson E6/E8/E10 sends N-SET after the exam is ended. The N-SET will include all acquired images SOP Instance UIDs and the status of COMPLETED or DISCONTINUED.

For this SOP class, all status codes with status Refused or Error are treated as failures and terminate the association and operation. All status codes with status Warning or Success are treated as successes.

2.3.1.2.5 Real-World Activity (‘Image Print’ Operation)

2.3.1.2.5.1 Associated Real-World Activity

Upon a request by the operator, print jobs will be sent to a DICOM Print SCP. The jobs are entered into a send queue and processed by the spool manager. If an error occurs during the transmission the operation may be retried automatically. The number of automatic retries is configurable. After the automatic retries the operation can be manually retried.

2.3.1.2.5.2 Proposed Presentation Context Table

Table 2.3–12: Presentation Context Table - Proposed

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|---|-----------------------|------------------------------|---------------------|------|-----------|
| Basic Grayscale Print Management Meta SOP Class | 1.2.840.10008.5.1.1.9 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCU | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |

Table 2.3–12: Presentation Context Table - Proposed (continued)

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|---|------------------------|---------------------------|---------------------|------|-----------|
| Basic Color Print Management Meta SOP Class | 1.2.840.10008.5.1.1.18 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCU | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |

2.3.1.2.5.2.1 SOP Specific DICOM Conformance Statement for Print Management SOP Classes

The Voluson E6/E8/E10 treats all status codes with status Refused or Error as failures and the spool manager retries the operation. After the configurable number of retries has been exceeded the spooler's job status is set to FAILED and the print job may be retried manually. Detailed information is described in Section 12. All status codes with status Warning or Success are treated as success.

2.3.1.2.6 Real-World Activity ('Query/Retrieve Images' Operation)

2.3.1.2.6.1 Associated Real-World Activity

The user may initiate a DICOM Query in Search screen, which will send a C-FIND-RQ to the Query/Retrieve SCP.

Associations will be released upon the receipt of C-FIND-RSP confirmation.

The user may then select an examination to be retrieved, using the C-MOVE-RQ command to the Query/Retrieve SCP. The result from the SCP is expected on another association for the retrieved examinations.

2.3.1.2.6.2 Proposed Presentation Context Table

Table 2.3–13: Presentation Context Table - Proposed

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|--|-----------------------------|---------------------------|---------------------|------|-----------|
| Study Root Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.2.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCU | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |
| Study Root Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.2.2 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCU | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |

2.3.1.2.6.2.1 SOP Specific DICOM Conformance Statement for Query/Retrieve SOP Class

Only a single information model, Study Root is supported.

All queries are initiated at the highest level of the information model (the STUDY level), and then for each response received, recursively repeated at the next lower level (SERIES). The user then can select one "Exam" (Series) and retrieve it. Retrieving is being done at the SERIES level.

The Voluson E6/E8/E10 treats all status codes with status Refused or Error as failures and terminate the association and operation. All status codes with status Warning or Success are treated as success.

Table 2.3–14: Study Root Request Identifier for Query

| Attribute Name | Tag | Types of Matching | Filtering is supported |
|------------------------------------|-------------|-------------------|------------------------|
| STUDY Level | | | |
| Study Date | (0008,0020) | S,U,R | Yes |
| Study Time | (0008,0030) | U | |
| Referring Physicians Name | (0008,1090) | U | |
| Accession Number | (0008,0050) | S,*,U | Yes |
| Patient Name | (0010,0010) | S,*,U | Yes |
| Patient ID | (0010,0020) | S,*,U | Yes |
| Patient Birth Date | (0010,0030) | S,U | Yes |
| Patient Sex | (0010,0040) | S,U | Yes |
| Study Instance UID | (0020,000D) | UNIQUE | |
| Number of Patient Related Studies | (0020,1200) | U | |
| Number of Study Related Series | (0020,1206) | U | |
| Study Description | (0008,1030) | S,*,U | Yes |
| OperatorsName | (0008,1070) | U | |
| AdmittingDiagnosesDescription | (0008,1080) | U | |
| PerformingPhysiciansName | (0008,1050) | U | |
| IssuerofPatientID | (0010,0021) | U | |
| PatientsSize | (0010,1020) | U | |
| PatientsWeight | (0010,1030) | U | |
| SERIES Level | | | |
| Modality | (0008,0060) | S | always "US" |
| Series Date | (0008,0021) | S,U,R | |
| Series Time | (0008,0031) | U | |
| Series Instance UID | (0020,000E) | UNIQUE | |
| Number of Series Related Instances | (0020,1209) | U | |
| SeriesDescription | (0008,103E) | U | |

Types of Matching:

- Single Value Matching (S)
- Universal Matching (U)

- Wildcard Matching (*)
- Date,Time Range Matching (R)

The types of Matching supported by the C-FIND SCU are: ‘S’ indicates the identifier attribute uses Single Value Matching, an ‘R’ indicates Range Matching, a ”*” indicates wildcard matching, a ‘U’ indicates Universal Matching, and ‘UNIQUE’ indicates that this is the Unique Key for that query level, in which case Universal Matching or Single Value Matching is used depending on the query level.

”Filtering is supported” means that matching strings can be controlled from the Search screen. C-CANCEL-FIND-RQ and C-CANCEL-MOVE-RQ are not supported.

2.3.1.2.6.2.2 SOP Specific DICOM Conformance Statement for Study Root Query/Retrieve Information SOP Class

The Voluson E6/E8/E10 treats all status codes with status Refused or Error as failures. All status codes with status Warning or Success are treated as successes. On Status Code Pending the system will continue receiving C-FIND-RSP’s. The C-MOVE time-out is not configureable.

2.3.1.3 Association Acceptance Policy

The Voluson E6/E8/E10 AE accepts an association when it receives a Verification Request from another network device, an image storage request from an SCU or a Storage Commitment result from a Storage Commitment SCP.

2.3.1.3.1 Real-World Activity (‘Verify’ Operation)

2.3.1.3.1.1 Associated Real-World Activity

An incoming Verification Request will cause the AE to accept the association and respond with a Verification Response.

2.3.1.3.1.2 Accepted Presentation Context Table

Table 2.3–15: Presentation Context Table - Accepted

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|------------------------|---------------------|---------------------------|---------------------|------|-----------|
| Verification SOP Class | 1.2.840.10008.1.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCP | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |
| | | | | | |

2.3.1.3.1.2.1 SOP Specific DICOM Conformance Statement for Verify SOP Class

The AE provides standard conformance to the Verification SOP Class as an SCP. The port number used is configured in Config screen, default is 104.

2.3.1.3.1.3 Presentation Context Acceptance Criterion

No criterion.

2.3.1.3.1.4 Transfer Syntax Selection Policies

The selected transfer syntax is based on the proposed transfer syntax list. The priority order is Explicit VR Little Endian, Explicit VR Big Endian and Implicit VR Little Endian.

2.3.1.3.2 Real-World Activity ('Image Send' Operation)

2.3.1.3.2.1 Associated Real-World Activity

Voluson E6/E8/E10 will only listen for an N-EVENT-REPORT (Storage Commitment Result) from a Storage Commitment SCP in a new association.

2.3.1.3.2.2 Accepted Presentation Context Table

Table 2.3–16: Presentation Context Table - Accepted - Storage Commitment

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|---|----------------------|---------------------------|---------------------|------|-----------|
| Storage Commitment Push Model SOP Class | 1.2.840.10008.1.20.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 | SCU | None. |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 | | |
| | | Implicit VR Little Endian | 1.2.840.10008.1.2 | | |
| | | | | | |

2.3.1.3.2.2.1 SOP Specific DICOM Conformance Statement for the Storage Commitment Push Model SOP Class SCU

The Voluson E6/E8/E10 will only accept the SCU role (which must be proposed via SCP/SCU Role Selection Negotiation) within a Presentation Context for the Storage Commitment Push Model SOP Class. The result from the SCP is expected on another association for the Storage Commitment result.

The Voluson E6/E8/E10 behavior after receiving an N-EVENT-REPORT-RQ (Storage Commitment Result) is described in Section 11.2.3.2.

2.3.1.3.3 Real-World Activity (Receive Image Operation)

2.3.1.3.3.1 Associated Real-World Activity

Voluson E6/E8/E10 will accept associations for C-STORE-RQs. The received images will be stored into a local database.

2.3.1.3.3.2 Accepted Presentation Context Table

Table 2.3–17: Presentation Context Table - Accepted

| Abstract Syntax Name | Abstract Syntax UID | Transfer Syntax Name | Transfer Syntax UID | Role | Ext. Neg. |
|--------------------------------------|-----------------------------|--|---|------|-----------|
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 | Explicit VR Little Endian Explicit VR Big Endian Implicit VR Little Endian JPEG Baseline JPEG Lossless Non-Hier. (Process 14) | 1.2.840.10008.1.2.1 1.2.840.10008.1.2.2 1.2.840.10008.1.2 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 | SCP | None. |
| Ultrasound Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 | Explicit VR Little Endian Explicit VR Big Endian Implicit VR Little Endian JPEG Baseline JPEG Lossless Non-Hier. (Process 14) | 1.2.840.10008.1.2.1 1.2.840.10008.1.2.2 1.2.840.10008.1.2 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 | SCP | None. |
| Enhanced US Volume Storage | 1.2.840.10008.5.1.4.1.1.6.2 | Explicit VR Little Endian Explicit VR Big Endian Implicit VR Little Endian JPEG Baseline JPEG Lossless Non-Hier. (Process 14) | 1.2.840.10008.1.2.1 1.2.840.10008.1.2.2 1.2.840.10008.1.2 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 | SCP | None. |
| Ultrasound Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 | Explicit VR Little Endian Explicit VR Big Endian Implicit VR Little Endian JPEG Baseline JPEG Lossless Non-Hier. (Process 14) | 1.2.840.10008.1.2.1 1.2.840.10008.1.2.2 1.2.840.10008.1.2 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 | SCP | None. |

2.3.1.3.3.2.1 SOP Specific DICOM Conformance Statement for the Storage SOP Classes

The AE provides standard conformance to the Storage SOP Classes as an SCP. The port number used is not configurable and is set to 104.

The SOP Class Extended Negotiation is not supported.

The Storage SOP Class as an SCP is classified as Level 1 (Base).

The following C-Store Response Status values can be returned from the Voluson E6/E8/E10:

Table 2.3–18: C-Store-RSP Status Codes

| Status Name | Status Code | Description of Field |
|--------------------------|-------------|------------------------------------|
| Success | 0000h | successfully transferred |
| Refused | A700h | no space left on device |
| Event Processing Failure | 0110h | item can not be imported correctly |

2.3.1.3.3.2.2 Presentation Context Acceptance Criterion

No criterion.

2.3.1.3.3.2.3 Transfer Syntax Selection Policies

The accepted transfer syntaxes are based on the proposed transfer syntax list. The defined priority order is listed in Table 2.3–19. The first supported transfer syntaxes from Table 2.3–19 will be accepted.

Table 2.3–19: Transfer Syntax Priority

| Priority | Transfer Syntax |
|----------|------------------------|
| SYNTAX_1 | EXPLICIT_LITTLE_ENDIAN |
| SYNTAX_2 | EXPLICIT_BIG_ENDIAN |
| SYNTAX_3 | IMPLICIT_LITTLE_ENDIAN |
| SYNTAX_4 | JPEG_BASELINE |
| SYNTAX_5 | JPEG_LOSSLESS_HIER_14 |

2.4 Communication Profiles

2.4.1 Supported Communication Stacks (PS 3.8)

DICOM Upper Layer (PS 3.8) is supported using TCP/IP.

2.4.2 TCP/IP Stack

The TCP/IP stack is inherited from the product's operating system. Please refer to product documentation for more information.

2.4.2.1 API

Not applicable to this product.

2.4.3 Additional Protocols

The Voluson E6/E8/E10 supports DHCP from the product's operating system. Please refer to product documentation for more information.

2.4.4 IPv4 and IPv6 Support

The Voluson E6/E8/E10 supports only IPv4.

2.5 Extensions / Specialisations / Privatizations

The product will send additional private patient and physician data in private data elements designated by the private tag 6101,00xx VR LO, VM 1, and 6301, 00xx VR LO, VM 1. Ultrasound raw volume data information will be sent in private data elements designated by the private tag 7FE1,00xx VR LO, VM 1 and ultrasound raw data information in private data elements designated by the private tag 8001,00xx VR LO, VM 1.

2.6 Configuration

2.6.1 AE Title/Presentation Address Mapping

The Local AE title is configurable through the Config screen, see below.

2.6.2 Configurable Parameters

Network:

- Local IP address
- Local IP netmask
- Local routing table information

Local:

- Local AE Title
- Local TCP Port Number

Verification:

- The AE Title, IP Address and Port number of the SCP.

Remote Storage:

- The AE Title, IP Address and Port number of the SCP.
- Max retries, Retry interval.

Query/ Retrieve:

- The AE Title, IP Address and Port number of the SCP.
- Default Application.

Modality Worklist:

- The AE Title, IP Address and Port number of the SCP.

Modality Performed Procedure Step:

- The AE Title, IP Address and Port number of the SCP.

Storage Commitment:

- The AE Title, IP Address and Port number of the SCP.
- Max retries, Retry interval.

Print:

- The AE Title, IP Address and Port number of the SCP.
- Max retries, Retry interval.
- Configuration for each print job in setup dialog.

2.7 Support of Extended Character Sets

Voluson E6/E8/E10 supports the ISO_IR 100 (ISO 8859-1:1987 Latin character set). Other character sets will be displayed as if they were encoded in ISO_IR 100.

2.8 Codes and Controlled Terminology

The product uses the fixed (non-configurable, non-extensible) coded terminology in SR Document attributes, as described in Section 8 SR Information Object Implementation and also in Annexes [B](#) and [A](#)

2.9 Security Profiles

The product supports the Audit Trail Message Format Profile. See section [14](#) for detailed description.

It is assumed that the product is used within a secured environment. It is assumed that a secured environment includes at a minimum:

- Firewall or router protections to ensure that only approved external hosts have network access to the product.
- Firewall or router protections to ensure that the product only has network access to approved external hosts and services.
- Any communications with external hosts and services outside the locally secured environment use appropriate secure network channels (such as a Virtual Private Network(VPN))

2.9.1 Application Level Security

Voluson E6/E8/E10 can be configured to require a user login authentication (username and password) in order to access to the user interface functionalities.

2.9.2 Secure Transport Connection

Voluson E6/E8/E10 supports the BCP195 TLS Secure Transport Connection Profile. At default configuration the TLS option is deactivated.

The following key agreement mechanisms are supported:

- Elliptic-curve Diffie-Hellman key exchange (ECDHE).
- Diffie-Hellman key exchange (DHE).
- Rivest-Shamir-Adleman key exchange (RSA).
- Pre-shared key exchange (PSK).

TCP ports on which TLS connections are accepted can be configured through the user interface functionalities.

When an integrity check fails, the connection will be dropped per the TLS protocol, causing both the sender and the receiver to issue an A-P-ABORT indication to the upper layers with an implementation-specific provider reason. Currently there are no userdefined provider reasons implemented.

3 Media Storage Conformance

3.1 Introduction

This section of the DICOM Conformance Statement specifies the compliance to DICOM Media Interchange for the Voluson E6/E8/E10.

Voluson E6/E8/E10 supports the following DICOM functionality:

Voluson E6/E8/E10 is able to export images and structured reports to DICOM media. Browsing media and reading images or structured reports from DICOM media is not supported.

- Create a new DICOM File-set on media.

3.2 Implementation Model

3.2.1 Application Data Flow Diagram

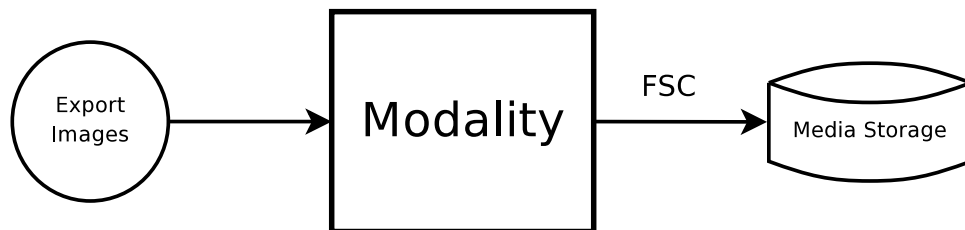


Figure 2: AE Data Flow Diagram

There is one local real-world activity that occurs in Voluson E6/E8/E10 - **Export**.

- **Export** creates a new DICOM File-set on CD-R or DVD-R.

3.2.2 Functional Definition of AE's

Application Entity Voluson E6/E8/E10 supports the following functions:

- Create a new DICOM File-set on CD-R or DVD-R.

3.2.3 Sequencing of Real-World Activities

Not applicable.

3.3 File Meta Information Options (See PS3.10)

Table 3.3–1: File Meta-Information for this implementation

| Meta Informartion | Value |
|-------------------------------|----------------------|
| File Meta-Information Version | 1 |
| Implementation UID | 1.2.840.113619.6.115 |
| Implementation Version Name | KRETZDICOM_240 |

Note: The Implementation Version Name may change in the future without modification of this document.

3.4 AE Specifications

3.4.1 Voluson E6/E8/E10 AE Specification

The Voluson E6/E8/E10 Application Entity provides standard conformance to DICOM Interchange Option of the Media Storage Service Class. The Application Profiles and roles are listed below, the standard profiles are augmented with Secondary Capture images.

Table 3.4–1: Application Profiles and roles

| Profile | Real World Activity | Role | Description |
|--|---------------------|------|-------------|
| AUG-US-SC-SF-CDR AUG-US-SC-MF-CDR AUG-US-SC-SF-DVD AUG-US-SC-MF-DVD | Export | FSC | Interchange |

3.4.1.1 File Meta Information for the Voluson E6/E8/E10 Application Entity

The Source Application Entity is set from the Voluson E6/E8/E10 local AE title. The local AE title is configurable.

3.4.1.2 Real-World Activities for the Voluson E6/E8/E10 Application Entity

3.4.1.2.1 Real-World Activity ‘Export’

‘Export’ saves selected DICOM SOP instances to media and creates a DICOM File Set.

3.4.1.2.1.1 Media Storage Application Profile for Real-World Activity ‘Export’:

For the list of Application Profiles that invoke this AE for ‘Export’ Real-World Activity, see the Table in Section 3.4.1 where the table describing the profiles and real-world activities is defined.

3.4.1.2.1.2 Options

Table 3.4-2: Supported SOP Classes for ‘Export’

| Information Object Definition | SOP Class UID | Transfer Syntax | Transfer Syntax UID |
|---|-------------------------------|---------------------------|------------------------|
| DICOM Media Storage Directory | 1.2.840.10008.1.3.10 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Ultrasound Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| | | JPEG Baseline | 1.2.840.10008.1.2.4.50 |
| Enhanced Ultrasound Volume Storage | 1.2.840.10008.5.1.4.1.1.6.2 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| | | JPEG Baseline | 1.2.840.10008.1.2.4.50 |
| Ultrasound Multi-frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| | | JPEG Baseline | 1.2.840.10008.1.2.4.50 |
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| | | JPEG Baseline | 1.2.840.10008.1.2.4.50 |
| Comprehensive Structured Report Storage | 1.2.840.10008.5.1.4.1.1.88.33 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |

3.4.1.2.1.3 AUGMENTED AND PRIVATE APPLICATION PROFILES

Voluson E6/E8/E10 creates Secondary Capture Image and Structured Report objects in addition to the objects defined in the application profiles.

4 Ultrasound (US) Information Object Implementation

4.1 Introduction

This section specifies the use of the DICOM US Image IOD to represent the information included in US images produced by this implementation. Corresponding attributes are conveyed using the module construct. The contents of this section are:

- IOD Implementation
- IOD Module Table
- IOD Module Definitions

4.2 US IOD Implementation

This section defines the implementation of US image information object.

4.3 US Entity-Relationship Model

4.3.1 Entity Description

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities contained within the US Information Object.

4.3.2 Voluson E6/E8/E10 Mapping of DICOM Entities

Table 4.3–1: Mapping of DICOM Entities to Equipment Entities

| DICOM | Equipment |
|---------|-----------|
| Patient | Patient |
| Study | Exam |
| Series | Exam |
| Image | Image |
| Curve | not used |

4.4 IOD Module Table

Within an entity of the DICOM US IOD, attributes are grouped into related set of attributes. A set of related attributes is termed a module. A module facilitates the understanding of the semantics concerning the attributes and how the attributes are related with each other. A module grouping does not infer any encoding of information into data sets.

The table below identifies the defined modules within the entities, which comprise the DICOM US IOD. Modules are identified by Module Name.

See DICOM Part 3 for a complete definition of the entities, modules, and attributes.

Only the single frame US Image IOD is described here.

Table 4.4–1: US Image IOD Modules

| Entity Name | Module Name | Reference |
|--------------------|----------------------------|-------------------------|
| Patient | Patient | 4.5.1.1 |
| Study | General Study | 4.5.2.1 |
| Study | Patient Study | 4.5.2.2 |
| Series | General Series | 4.5.3.1 |
| Frame of Reference | Frame of Reference | Not used |
| Frame of Reference | US Frame of Reference | Not used |
| Equipment | General Equipment | 4.5.4.1 |
| Image | General Image | 4.5.5.1 |
| Image | Image Pixel | 4.5.5.2 |
| Image | Contrast / Bolus | Not used |
| Image | Palette Color Lookup Table | Not used |
| Image | US Region Calibration | 4.5.7.1 |
| Image | US Image | 4.5.7.2 |
| Image | Overlay Plane | Not used |
| Image | VOI LUT | Not used |
| Image | SOP Common | 4.5.6.1 |
| Curve | | Not used |

4.5 Information Module Definitions

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities and modules contained within the US Information Object.

The following modules are included to convey Enumerated Values, Defined Terms, and Optional Attributes supported. Type 1 & Type 2 Attributes are also included for completeness and to define what values they may take and where these values are obtained. It should be noted that they are the same ones as defined in the DICOM Standard Part 3 (Information Object Definitions). The attribute "Not used" is equal to "Not present". Not listed elements are not supported. For detailed information please also refer to DICOM Standard Part 3 (Information Object Definitions) Annex C (COMMON COMPOSITE IMAGE IOD MODULES).

4.5.1 Common Patient Entity Modules

4.5.1.1 Patient Module

Please also refer to DICOM Standard Part 3 (Information Object Definitions) Annex C (INFORMATION MODULE DEFINITIONS).

Table 4.5–1: Patient Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|----------------|------------|------|---|
| Patient's Name | 0010, 0010 | 2 | Patient name with ^ delimiters. May be entered from user interface. Taken from the worklist if present. |
| Patient ID | 0010, 0020 | 2 | 64 char max. May be entered from user interface. Taken from the worklist if present. If empty it will be generated. |

Table 4.5–1: Patient Module Attributes (continued)

| Attribute Name | Tag | Type | Attribute Description |
|--------------------------|------------|------|---|
| Issuer of Patient ID | 0010, 0021 | 3 | ($\geq 10.x.x$) included only if present in worklist |
| Birth Date | 0010, 0030 | 2 | May be entered from user interface. Taken from the worklist if present. |
| Patient Sex | 0010, 0040 | 2 | May be entered from user interface. Taken from the worklist if present. |
| Referenced Patient SQ | 0008, 1120 | 3 | Not used |
| Patient's Birth Time | 0010, 0032 | 3 | Not used |
| Other Patient Ids | 0010, 1000 | 3 | ($\geq 10.x.x$) May be entered from user interface. Taken from the worklist if present. |
| Other Patient Names | 0010, 1001 | 3 | Not used |
| PatientsTelephoneNumbers | 0010, 2154 | 3 | ($\geq EC300$) May be entered from user interface. Taken from the worklist if present. |
| Ethnic Group | 0010, 2160 | 3 | Not used |
| Patient Comments | 0010, 2201 | 3 | Not used |

4.5.2 Common Study Entity Modules

4.5.2.1 General Study Module

Table 4.5–2: General Study Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|--|------------|------|--|
| Study Instance UID | 0020, 000D | 1 | Uniquely generated by the equipment. Taken from worklist if it is there. |
| Study Date | 0008, 0020 | 2 | Set to exam date. |
| Study Time | 0008, 0030 | 2 | Set to exam time. |
| Referring Physicians Name | 0008, 0090 | 2 | May be entered from user interface. Taken from the worklist if present. |
| Referring Physicians Telephone Numbers | 0008, 0094 | 3 | ($\geq EC300$) May be entered from user interface. Taken from the worklist if present. |
| Study ID | 0020, 0010 | 2 | Taken from the worklist if present. (From Requested Procedure ID) |
| Accession Number | 0008, 0050 | 2 | May be entered from user interface. Taken from the worklist if present. |
| Study Description | 0008, 1030 | 3 | Taken from the worklist if present. (From Requested Procedure Description) |
| Name of Reading Physician(s) | 0008, 1060 | 3 | May be entered from user interface. |
| Referenced Study Sequence | 0008, 1110 | 3 | Taken from the worklist if present. |
| >Referenced SOP Class UID | 0008, 1150 | 3 | Taken from the worklist if present. |
| >Referenced SOP Instance UID | 0008, 1155 | 3 | Taken from the worklist if present. |

4.5.2.2 Patient Study Module

No attributes from this module are used.

4.5.3 Common Series Entity Modules

4.5.3.1 General Series Module

Table 4.5–3: General Series Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|--|------------|------|--|
| Modality | 0008, 0060 | 1 | Defined Term "US" used. |
| Series Instance UID | 0020, 000E | 1 | Uniquely generated by the equipment. |
| Series Number | 0020, 0011 | 2 | Internal number which is incremented for each new series. |
| Laterality | 0020, 0060 | 2C | Not used |
| Series Date | 0008, 0021 | 3 | Set to series date. |
| Series Time | 0008, 0031 | 3 | Set to series time. |
| Performing Physician's Name | 0008, 1050 | 3 | May be entered from user interface. Taken from worklist if present. (from Scheduled Performing Physician's Name) |
| Series Description | 0008, 103E | 3 | Not used |
| Operator's Name | 0008, 1070 | 3 | May be entered from user interface. |
| Referenced Performed Procedure Step Sequence | 0008, 1111 | 3 | Used if Modality Performed Procedure Step is enabled. |
| >Referenced SOP Class UID | 0008, 1150 | 3 | Used if Modality Performed Procedure Step is enabled. |
| >Referenced SOP Instance UID | 0008, 1155 | 3 | Used if Modality Performed Procedure Step is enabled. |
| Body Part Examined | 0018, 0015 | 3 | Not used |
| Patient Position | 0018, 5100 | 2C | Not used |
| Smallest Pixel Value in Series | 0028, 0108 | 3 | Not used |
| Largest Pixel Value in Series | 0028, 0109 | 3 | Not used |
| Request Attribute Sequence | 0040, 0275 | 3 | Used if Modality Worklist and/or Modality Performed Procedure Step is enabled. |
| >Requested Procedure ID | 0028, 1001 | 1C | Taken from worklist if present. |
| >Scheduled Procedure Step ID | 0040, 0009 | 1C | Taken from worklist if present. |
| >Scheduled Procedure Step Description | 0040, 0007 | 3 | Taken from worklist if present. |
| >Scheduled Protocol Code SQ | 0040, 0008 | 3 | Taken from worklist if present. |
| >>Include "Code SQ Macro | | | |
| Performed Procedure Step ID | 0040, 0253 | 3 | Used if Modality Performed Procedure Step is enabled. |
| Performed Procedure Step Start Date | 0040, 0244 | 3 | Used if Modality Performed Procedure Step is enabled. |
| Performed Procedure Step Time | 0040, 0245 | 3 | Used if Modality Performed Procedure Step is enabled. |
| Performed Procedure Step Description | 0040, 0254 | 3 | Used if Modality Performed Procedure Step is enabled. |
| Performed Protocol Code SQ | 0040, 0260 | 3 | Taken from worklist if present. (from Scheduled Protocol Code Sequence) |

4.5.4 Common Equipment Entity Modules

4.5.4.1 General Equipment Module

Table 4.5-4: General Equipment Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|-------------------------------|------------|------|---|
| Manufacturer | 0008, 0070 | 2 | "GE Medical Systems Kretztechnik GmbH & Co OHG" or "GE Healthcare Austria GmbH & Co OG" |
| Institution Name | 0008, 0080 | 3 | Used |
| Institution Address | 0008, 0081 | 3 | Not used |
| Station Name | 0008, 1010 | 3 | Used |
| Institutional Department Name | 0008, 1040 | 3 | Not used |
| Manufacturer's Model Name | 0008, 1090 | 3 | "V830" |
| Device Serial Number | 0018, 1000 | 3 | Used e.g. "D12345" |
| Software Version | 0018, 1020 | 3 | Used |
| Spatial Resolution | 0018, 1050 | 3 | Not used |
| Date of Last Calibration | 0018, 1200 | 3 | Not used |
| Time of Last Calibration | 0018, 1201 | 3 | Not used |
| Pixel Padding Value | 0028, 0120 | 3 | Not used |

4.5.5 Common Image Entity Modules

4.5.5.1 General Image Module

Table 4.5-5: General Image Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|---------------------------|------------|------|---|
| Image Number | 0020, 0013 | 2 | Image number in exam |
| Patient Orientation | 0020, 0020 | 2C | Zero length |
| Acquisition Date | 0008, 0022 | 3 | Not used |
| Acquisition Time | 0008, 0032 | 3 | Not used |
| Image Type | 0008, 0008 | 3 | Pixel Data Characteristics set to ORIGINAL Patient Examination Characteristics set to PRIMARY Modality Specific Characteristics set to device application |
| Acquisition Number | 0020, 0012 | 3 | Not used |
| Content Date | 0008, 0023 | 2C | Used |
| Content Time | 0008, 0033 | 2C | Used |
| Referenced Image Sequence | 0008, 1140 | 3 | Not used |
| Derivation Description | 0028, 2111 | 3 | Not used |
| Source Image Sequence | 0008, 2112 | 3 | Not used |
| Images in Acquisition | 0020, 1002 | 3 | Not used |
| Image Comments | 0020, 4000 | 3 | Used |
| Lossy Image Compression | 0028, 2110 | 3 | for lossy compressed image |

4.5.5.2 Image Pixel Module

Table 4.5-6: Image Pixel Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|----------------------------|------------|------|--|
| Samples Per Pixel | 0028, 0002 | 1 | RGB: 3 YBR_FULL_422: 3 MONOCHROME2: 1 |
| Photometric Interpretation | 0028, 0004 | 1 | Defined Values used: "MONOCHROME2", "RGB", "YBR_FULL_422" |
| Rows | 0028, 0010 | 1 | Expert Models: configurable per DICOM destination (800x600 or 640x480) Pro Models: SC Images: configurable per DICOM destination, US Images: always 640x480 |
| Columns | 0028, 0011 | 1 | Expert Models: configurable per DICOM destination (800x600 or 640x480) Pro Models: SC Images: configurable per DICOM destination, US Images: always 640x480 |
| Bits Allocated | 0028, 0100 | 1 | Always 0008H |
| Bits Stored | 0028, 0101 | 1 | Always 0008H |
| High Bit | 0028, 0102 | 1 | Always 0007H |
| Pixel Representation | 0028, 0103 | 1 | Defined Value "0" (Unsigned int) |
| Pixel Data | 7FE0, 0010 | 1 | Pixel Data of Image |
| Planar Configuration | 0028, 0006 | 1C | Value set to "0" if MONOCHROME2 the tag will not be transferred |
| Aspect Ratio | 0028, 0034 | 1C | Not used |
| Smallest Image Pixel Value | 0028, 0106 | 3 | Not used |
| Largest Image Pixel Value | 0028, 0107 | 3 | Not used |

4.5.5.3 Contrast/Bolus Module

This module is not being used.

4.5.5.4 Palette Color Lookup Module

This module is not being used.

4.5.5.5 VOI LUT Module

Table 4.5-7: VOI LUT Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|------------------|------------|------|-----------------------|
| VOI LUT Sequence | 0028, 3010 | 3 | Not used |
| >LUT Descriptor | 0028, 3002 | 3 | Not used |

Table 4.5-7: VOI LUT Module Attributes (continued)

| Attribute Name | Tag | Type | Attribute Description |
|-------------------------------------|------------|------|---------------------------------|
| > LUT Explanation | 0028, 3003 | 3 | Not used |
| >LUT Data | 0028, 3006 | 3 | Not used |
| Window Center | 0028, 1050 | 3 | Value set to 127 if MONOCHROME2 |
| Window Width | 0028, 1051 | 3 | Value set to 256 if MONOCHROME2 |
| Window Center and Width Explanation | 0028, 1055 | 3 | Not used |

4.5.6 General Modules

The SOP Common Module is mandatory for all DICOM IODs.

4.5.6.1 SOP Common Module

Table 4.5-8: SOP Common Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|------------------------|------------|------|--|
| SOP Class UID | 0008, 0016 | 1 | Set to: "1.2.840.10008.5.1.4.1.1.3.1", "1.2.840.10008.5.1.4.1.1.6.1" or "1.2.840.10008.5.1.4.1.1.7" |
| SOP Instance UID | 0008, 0018 | 1 | Uniquely generated by the equipment |
| Specific Character Set | 0008, 0005 | 1C | Set to "ISO_IR 100" |
| Instance Creation Date | 0008, 0012 | 3 | Not used |
| Instance Creation Time | 0008, 0013 | 3 | Not used |
| Instance Creator ID | 0008, 0014 | 3 | Not used |
| Instance Number | 0020, 0013 | 3 | Not used |

4.5.7 General Modules

This Section describes US Series, Equipment, and Image Modules. These Modules contain attributes that are specific to US Image IOD.

4.5.7.1 US Region Calibration Module

The US Region Calibration Module is used to describe multiple regions.

Table 4.5-9: US Region Calibration Module elements

| Attribute Name | Tag | Type | Attribute Description |
|--------------------------------|-----------|------|--------------------------------|
| Sequence of Ultrasound Regions | 0018,6011 | 1 | Used Range from 1 -16 Items |
| >Region Spatial Format | 0018,6012 | 1 | 1,2,3 |
| >Region Data Type | 0018,6014 | 1 | 1 |
| >Region Flags | 0018,6016 | 1 | 0 |

Table 4.5–9: US Region Calibration Module elements (continued)

| Attribute Name | Tag | Type | Attribute Description |
|-----------------------------------|-----------|------|-----------------------|
| >Region Location MinX0 | 0018,6018 | 1 | 0..959 |
| >Region Location MinY0 | 0018,601a | 1 | 0..661 |
| >Region Location Max X1 | 0018,601c | 1 | 0..959 |
| >Region Location Max Y1 | 0018,601e | 1 | 0..661 |
| >Reference Pixel X0 | 0018,6020 | 3 | 0 |
| >Reference Pixel Y0 | 0018,6022 | 3 | 0..xxx |
| >Physical Units X Direction | 0018,6024 | 1 | 3,4 |
| >Physical Units Y Direction | 0018,6026 | 1 | 3,4 |
| >Reference Pixel Physical Value X | 0018,6028 | 3 | 0 |
| >Reference Pixel Physical Value Y | 0018,602a | 3 | 0 |
| >Physical Delta X | 0018,602c | 1 | Used |
| >Physical Delta Y | 0018,602e | 1 | Used |

4.5.7.2 US Image Module

This section specifies the attributes that describe ultrasound images.

Table 4.5–10: US Image Module Elements

| Attribute Name | Tag | Type | Attribute Description |
|--|------------|------|--|
| Samples Per Pixel | 0028,0002 | 1 | RGB: 3 YBR_FULL_422: 3 MONOCHROME2: 1” |
| Photometric Interpretation | 0028, 0004 | 1 | Value set to: ”MONOCHROME2”, ”YBR_FULL_422” or ”RGB” |
| Bits Allocated | 0028,0100 | 1 | Always 0008H |
| Bits Stored | 0028,0101 | 1 | Always 0008H |
| High Bit | 0028,0102 | 1 | Always 0007H |
| Planar Configuration | 0028, 0006 | 1C | Value set to ”0” if MONOCHROME2 the tag will not be transferred |
| Pixel Representation | 0028, 0103 | 1 | Unsigned int |
| Frame Increment Pointer | 0028,0009 | 1C | Not used |
| Image Type | 0008,0008 | 2 | Pixel Data Characteristics set to ORIGINAL Patient Examination Characteristics set to PRIMARY Modality Specific Characteristics set to device application |
| Lossy Image Compression | 0028, 2110 | 1C | for lossy compressed image |
| Ultrasound color data present | 0028,0014 | 3 | Not used |
| Referenced Overlay Sequence | 0008,1130 | 3 | Not used |
| >Referenced SOP Class UID | 0008,1150 | 1C | Not used |
| >Referenced SOP Instance UID | 0008,1150 | 1C | Not used |
| Referenced Curve Sequence | 0008,1155 | 3 | Not used |
| >Referenced SOP Class UID | 0008,1150 | 1C | Not used |
| >Referenced SOP Instance UID | 0008,1150 | 1C | Not used |
| View Name | 0008,2127 | 3 | text (\geq EC320) |
| View Number | 0008,2128 | 3 | Unsigned int (\geq EC320) |
| Number of Event Timers | 0008,2129 | 3 | Not used |
| Event Elapsed Times | 0008,2130 | 3 | Not used |
| Event Timer Name | 0008,2132 | 3 | Not used |
| Anatomic Region Sequence | 0008,2218 | 3 | Not used |
| >Include ’Code Sequence Macro’ | | | |
| >Anatomic Region Modifier Sequence | 0008,2220 | 3 | Not used |
| >>Include ’Code Sequence Macro’ | | | |
| Primary Anatomic Structure Sequence | 0008,2228 | 3 | Not used |
| >Include ’Code Sequence Macro’ | | | |
| >>Include ’Code Sequence Macro’ | | | |
| >Primary Anatomic Structure Modifier Sequence | 0008,2230 | 3 | Not used |
| Transducer Position Sequence | 0008,2240 | 3 | Not used |
| >Include ’Code Sequence Macro’ | | | |

Table 4.5–10: US Image Module Elements (continued)

| Attribute Name | Tag | Type | Attribute Description |
|--|-----------|------|-----------------------|
| >Transducer Position ModifierSequence | 0008,2242 | 3 | Not used |
| >>Include 'Code Sequence Macro' | | | |
| Transducer Orientation Sequence | 0008,2244 | 3 | Not used |
| >Include 'Code Sequence Macro' | | | |
| >Transducer Orientation Sequence | 0008,2246 | 3 | Not used |
| >>Include 'Code Sequence Macro' | | | |
| Trigger Time | 0018,1060 | 3 | Not used |
| Nominal Interval | 0018,1062 | 3 | Not used |
| Beat Rejection Flag | 0018,1080 | 3 | Not used |
| Low R-R Value | 0018,1081 | 3 | Not used |
| High R-R Value | 0018,1082 | 3 | Not used |
| Heart Rate | 0018,1088 | 3 | Not used |
| Output Power | 0018,5000 | 3 | Not used |
| Transducer Data | 0018,5010 | 3 | Not used |
| Transducer Type | 0018,6031 | 3 | Not used |
| Focus Depth | 0018,5012 | 3 | Not used |
| Preprocessing Function | 0018,5020 | 3 | Not used |
| Mechanical Index | 0018,5022 | 3 | Not used |
| Bone Thermal Index | 0018,5024 | 3 | Not used |
| Cranial Thermal Index | 0018,5026 | 3 | Not used |
| Soft Tissue Thermal Index | 0018,5027 | 3 | Not used |
| Soft Tissue-focus Thermal Index | 0018,5028 | 3 | Not used |
| Soft Tissue-surface Thermal Index | 0018,5029 | 3 | Not used |
| Depth of Scan Field | 0018,5050 | 3 | Not used |
| Image Transformation Matrix | 0018,5210 | 3 | Not used |
| Image Translation Vector | 0018,5212 | 3 | Not used |
| Overlay Subtype | 60xx,0045 | 3 | Not used |

5 Ultrasound Multi-Frame (US-MF) Information Object Implementation

5.1 Introduction

This section specifies the use of the DICOM US Multi-frame Image IOD to represent the information included in US images produced by this implementation. Corresponding attributes are conveyed using the module construct. The contents of this section are:

- IOD Implementation
- IOD Module Table
- IOD Module Definitions

5.2 US MF IOD Implementation

This section defines the implementation of US Multi-Frame image information object.

5.3 US Entity-Relationship Model

5.3.1 Entity Description

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities contained within the US Multi-Frame Information Object.

5.3.2 Voluson E6/E8/E10 Mapping of DICOM Entities

Table 5.3–1: Mapping of DICOM Entities to Equipment Entities

| DICOM | Equipment |
|---------|-----------|
| Patient | Patient |
| Study | Exam |
| Series | Exam |
| Image | Image |
| Curve | not used |

5.4 IOD Module Table

Within an entity of the DICOM US Multi-Frame IOD, attributes are grouped into related set of attributes. A set of related attributes is termed a module. A module facilitates the understanding of the semantics concerning the attributes and how the attributes are related with each other. A module grouping does not infer any encoding of information into data sets. The table below identifies the defined modules within the entities, which comprise the DICOM US Multi-Frame IOD. Modules are identified by Module Name.

See DICOM Part 3 for a complete definition of the entities, modules, and attributes.

Table 5.4–1: US Multi-Frame Image IOD Modules

| Entity Name | Module Name | Reference |
|--------------------|----------------------------|-----------|
| Patient | Patient | 4.5.1.1 |
| Study | General Study | 4.5.2.1 |
| Study | Patient Study | 4.5.2.2 |
| Series | General Series | 4.5.3.1 |
| Frame of Reference | Frame of Reference | Not used |
| Frame of Reference | US Frame of Reference | Not used |
| Equipment | General Equipment | 4.5.4.1 |
| Image | General Image | 4.5.5.1 |
| Image | Image Pixel | 4.5.5.2 |
| Image | Contrast / Bolus | Not used |
| Image | Cine | 5.5.1.1 |
| Image | Multi-Frame | 5.5.1.2 |
| Image | Palette Color Lookup Table | not used |
| Image | US Region Calibration | 4.5.7.1 |
| Image | US Image | 4.5.7.2 |
| Image | Overlay Plane | Not used |
| Image | VOI LUT | Not used |
| Image | SOP Common | 4.5.6.1 |
| Curve | | Not used |

5.5 Information Module Definitions

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities and modules contained within the US Multi-Frame Information Object.

The following modules are included to convey Enumerated Values, Defined Terms, and Optional Attributes supported. Type 1 & Type 2 Attributes are also included for completeness and to define what values they may take and where these values are obtained. It should be noted that they are the same ones as defined in the DICOM Standard Part 3 (Information Object Definitions). The attribute "Not used" is equal to "Not present". Not listed elements are not supported.

5.5.1 Common Image Modules

5.5.1.1 Cine Module

Table 5.5–1: Cine Module Elements

| Attribute Name | Tag | Type | Attribute Description |
|--------------------------------|-----------|------|------------------------|
| Frame Time | 0018,1063 | 1C | Set to interframe time |
| Frame Time Vector | 0018,1065 | 1C | Not Used |
| Start Trim | 0008,2142 | 3 | Not used |
| Stop Trim | 0008,2143 | 3 | Not used |
| Recommended Display Frame Rate | 0008,2144 | 3 | Not used |
| Cine Rate | 0018,0040 | 3 | Not used |

Table 5.5–1: **Cine Module Elements (continued)**

| Attribute Name | Tag | Type | Attribute Description |
|-------------------------------|-----------|------|-----------------------|
| Frame Delay | 0018,1066 | 3 | Not used |
| Effective Duration | 0018,1072 | 3 | Not used |
| Actual Frame Duration | 0018,1242 | 3 | Not used |
| Preferred Playback Sequencing | 0018,1244 | 3 | Not used |

5.5.1.2 Multi-Frame Module

Table 5.5–2: **Multi Frame Module Elements**

| Attribute Name | Tag | Type | Attribute Description |
|-------------------------|-----------|------|-----------------------------------|
| Number of Frames | 0028,0008 | 1 | Set to number of frames in image. |
| Frame Increment Pointer | 0028,0009 | 1 | Set o Frame Time (0018,0063) |

6 Enhanced Ultrasound (US) Volume Information Object Implementation ($\geq 10.x.x$)

6.1 Introduction

This section specifies the use of the DICOM Enhanced US Volume IOD to represent the information included in Enhanced US Volumes produced by this implementation. Corresponding attributes are conveyed using the module construct. The contents of this section are:

- IOD Implementation
- IOD Module Table
- IOD Module Definitions

6.2 Enhanced US Volume IOD Implementation

This section defines the implementation of Enhanced US Volume information object.

6.3 Enhanced US Volume Entity-Relationship Model

6.3.1 Entity Description

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities contained within the Enhanced US Volume Information Object.

6.3.2 Voluson E6/E8/E10 Mapping of DICOM Entities

Table 6.3–1: Mapping of DICOM Entities to Equipment Entities

| DICOM | Equipment |
|---------|-----------|
| Patient | Patient |
| Study | Exam |
| Series | Exam |
| Image | Image |
| Curve | not used |

6.4 IOD Module Table

Within an entity of the DICOM Enhanced US Volume IOD, attributes are grouped into related set of attributes. A set of related attributes is termed a module. A module facilitates the understanding of the semantics concerning the attributes and how the attributes are related with each other. A module grouping does not infer any encoding of information into data sets. The attribute "not used" is equal to "not present".

The table below identifies the defined modules within the entities, which comprise the DICOM Enhanced US Volume IOD. Modules are identified by Module Name.

See DICOM Part 3 for a complete definition of the entities, modules, and attributes.

Only the Enhanced US Volume IOD is described here.

Some references in the following table may also refer to information contained in the US image IOD if the contents is identical.

Table 6.4–1: **Enhanced US Volume IOD Modules**

| Entity Name | Module Name | Reference |
|--------------------|-------------------------------------|-------------------------|
| Patient | Patient | 4.5.1.1 |
| Patient | Clinical Trial Subject | Not used |
| Study | General Study | 4.5.2.1 |
| Study | Patient Study | 4.5.2.2 |
| Study | Clinical Trial Study | Not used |
| Series | General Series | 4.5.3.1 |
| Series | Enhanced US Series | 6.5.3.2 |
| Series | Clinical Trial Series | Not used |
| Frame of Reference | Frame of Reference | 6.5.4.1 |
| Frame of Reference | US Frame of Reference | 6.5.4.2 |
| Frame of Reference | Synchronization | 6.5.4.3 |
| Equipment | General Equipment | 4.5.4.1 |
| Equipment | Enhanced General Equipment | 6.5.5.2 |
| Image | General Image | 4.5.5.1 |
| Image | Image Pixel | 4.5.5.2 |
| Image | Enhanced Contrast / Bolus | Not used |
| Image | Multi-frame Functional Groups | 6.5.6.3 |
| Image | Multi-frame Dimension | 6.5.6.4 |
| Image | Cardiac Synchronization | Not used |
| Image | Respiratory Synchronization | Not used |
| Image | Device | Not used |
| Image | Acquisition Context | 6.5.6.5 |
| Image | Specimen | Not used |
| Image | Enhanced Palette Color Lookup Table | 6.5.6.6 |
| Image | Enhanced US Image | 6.5.6.7 |
| Image | IVUS Image | Not used |
| Image | Excluded Intervals | Not used |
| Image | SOP Common | 4.5.6.1 |
| Image | Frame Extraction | Not used |

6.5 Information Module Definitions

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities and modules contained within the Enhanced US Volume Information Object. The attribute "Not used" is equal to "Not present". Not listed elements are not supported.

6.5.1 Patient Entity Module

This module is defined in section [4.5.1.1](#).

6.5.2 Study Entity Modules

These modules are defined in section 4.5.2.1 and 4.5.2.2.

6.5.3 Series Entity Modules

6.5.3.1 General Series Module

This module is defined in section 4.5.3.1.

6.5.3.2 Enhanced US Series Module

Table 6.5–1: Enhanced US Series Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|--|------------|------|--|
| Modality | 0008, 0060 | 1 | Defined Term "US" used. |
| Referenced Performed Procedure Step Sequence | 0008, 1111 | 3 | Used if Modality Performed Procedure Step is enabled. |
| >Referenced SOP Class UID | 0008, 1150 | 3 | Used if Modality Performed Procedure Step is enabled. |
| >Referenced SOP Instance UID | 0008, 1155 | 3 | Used if Modality Performed Procedure Step is enabled. |
| Performed Protocol Code SQ | 0040, 0260 | 3 | Taken from worklist if present. (from Scheduled Protocol Code Sequence) |
| >Include "Code SQ Macro" | | | |

6.5.4 Frame of Reference Modules

6.5.4.1 Frame of Reference

Table 6.5–2: Frame Of Reference Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|------------------------------|-----------|------|-----------------------|
| Frame of Reference UID | 0020,0052 | 1 | used |
| Position Reference Indicator | 0020,1040 | 2 | empty |

6.5.4.2 US Frame of Reference

Table 6.5–3: US Frame Of Reference Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|-------------------------------------|-----------|------|-----------------------------|
| Volume Frame of Reference UID | 0020,9312 | 1 | used |
| Ultrasound Acquisition Geometry | 0020,9307 | 1 | Defined Term "APEX" used |
| Apex Position | 0020,9308 | 1C | used |
| Volume To Transducer Mapping Matrix | 0020,9309 | 1 | used |

Table 6.5–3: US Frame Of Reference Module Attributes (continued)

| Attribute Name | Tag | Type | Attribute Description |
|-----------------------------------|-----------|------|-----------------------|
| Patient Frame of Reference Source | 0020,930C | 1C | not used |
| Table Frame of Reference UID | 0020,9313 | 1C | not used |
| Volume to Table Mapping Matrix | 0020,930A | 1C | not used |

6.5.4.3 Synchronization Module

Table 6.5–4: Synchronization Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|--|-----------|------|------------------------------------|
| Synchronization Frame of Reference UID | 0020,0200 | 1 | used |
| Synchronization Trigger | 0018,106A | 1 | Enumerated Value "NO TRIGGER" used |
| Synchronization Channel | 0018,106C | 1C | not used |
| Acquisition Time Synchronized | 0018,1800 | 1 | Enumerated Value "Y" used |
| Time Source | 0018,1801 | 3 | not used |
| Time Distribution Protocol | 0018,1802 | 3 | not used |
| NTP Source Address | 0018,1803 | 3 | not used |

6.5.5 Equipment Entity Modules

6.5.5.1 General Equipment Module

This module is defined in section 4.5.4.1.

6.5.5.2 Enhanced General Equipment Module

Table 6.5–5: Enhanced General Equipment Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|---------------------------|-----------|------|---|
| Manufacturer | 0008,0070 | 1 | "GE Medical Systems Kretztechnik GmbH & Co OHG" |
| Manufacturer's Model Name | 0008,1090 | 1 | "V830" |
| Device Serial Number | 0018,1000 | 1 | Example: "D012345" |
| Software Versions | 0018,1020 | 1 | used |

6.5.6 Image Entity Modules

6.5.6.1 General Image Module

This module is defined in section 4.5.5.1.

6.5.6.2 Image Pixel Module

This module is defined in section 4.5.5.2.

6.5.6.3 Multi-frame Functional Groups

Table 6.5–6: Multi Frame Functional Groups Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|--------------------------------------|-----------|------|---|
| Shared Functional Groups Sequence | 5200,9229 | 2 | used |
| >US Image Description Sequence | 0018,9806 | 1 | used |
| >>Frame Type | 0008,9007 | 1 | Defined Terms "Original" "Primary" used |
| >>Volumetric Properties | 0008,9206 | 1 | Defined Term "Volume" used |
| >>Volume Based Calculation Technique | 0008,9207 | 1 | Defined Term "NONE" used |
| >Plane Position (Volume) Sequence | 0020,930E | 1 | used |
| >>Image Position (Volume) | 0020,9301 | 1 | used |
| >Temporal Position Sequence | 0020,9310 | 1 | used |
| >>>Temporal Position Time Offset | 0020,930D | 1 | used |
| Per-frame Functional Groups Sequence | 5200,9230 | 1 | used |
| >Image Data Type Sequence | 0018,9807 | 1 | used |
| >>Data Type | 0018,9808 | 1 | used |
| >>>Aliased Data Type | 0018,980B | 1 | Enumerated Value "NO" |
| >Frame Content Sequence | 0020,9111 | 1 | used |
| >>Frame Acquisition Number | 0020,9156 | 3 | not used |
| >>Frame Acquisition Datetime | 0018,9074 | 1C | used |
| >>Frame Reference Datetime | 0018,9151 | 1C | used |
| >>Frame Acquisition Duration | 0018,9220 | 1C | used |
| >>Cardiac Cycle Position | 0018,9236 | 3 | not used |
| >>Respiratory Cycle Position | 0018,9214 | 3 | not used |
| >>Dimension Index Values | 0020,9157 | 1C | used |
| >>Temporal Position Index | 0020,9128 | 1C | not used |
| >>Stack ID | 0020,9056 | 1C | not used |
| >>In-Stack Position Number | 0020,9057 | 1C | not used |
| >>Frame Comments | 0020,9158 | 3 | not used |
| >>Frame Label | 0020,9453 | 3 | not used |
| >Plane Position Volume Sequence | 0020,930e | 1 | used |
| >>Image Position (Volume) | 0020,9301 | 1 | used |

6.5.6.4 Multi-frame Dimension

Table 6.5–7: Multi-frame Dimension Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|---------------------------------|-----------|------|-----------------------|
| Dimension Organization Sequence | 0020,9221 | 1 | used |
| >Dimension Organization UID | 0020,9164 | 1 | used |
| Dimension Organization Type | 0020,9311 | 3 | not used |

Table 6.5–7: Multi-frame Dimension Module Attributes (continued)

| Attribute Name | Tag | Type | Attribute Description |
|-----------------------------------|-----------|------|--|
| Dimension Index Sequence | 0020,9222 | 1 | used |
| >Dimension Index Pointer | 0020,9165 | 1 | used |
| >Dimension Index Private Creator | 0020,9213 | 1C | not used |
| >Functional Group Pointer | 0020,9167 | 1C | used if Dimension Index Pointer is set |
| >Functional Group Private Creator | 0020,9238 | 1C | not used |
| >Dimension Organization UID | 0020,9164 | 1C | used if Dimension Organisation Sequence is set |
| >Dimension Description Label | 0020,9421 | 3 | not used |

6.5.6.5 Acquisition Context

Table 6.5–8: Acquisition Context Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|------------------------------|-----------|------|-----------------------|
| Acquisition Context Sequence | 0050,0555 | 2 | not used |

6.5.6.6 Enhanced Palette Color Lookup Table

Table 6.5–9: Enhanced Palette Color Lookup Table Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|--|-----------|------|--|
| Data Frame Assignment Sequence | 0028,1401 | 1 | Used Range from 1 - 3 Items |
| >Data Type | 0018,9808 | 1 | Used |
| >Data Path Assignment | 0028,1402 | 1 | "PRIMARY_SINGLE", "SECONDARY_SINGLE", "SECONDARY_LOW", "SECONDARY_HIGH" |
| >Bits Mapped to Color Lookup Table | 0028,1403 | 3 | Not used |
| Blending LUT1 Sequence | 0028,1404 | 1C | Used |
| >Blending LUT1 Transfer Function | 0028,1405 | 1 | "CONSTANT", "TABLE" |
| >Blending Weight Constant | 0028,1406 | 1C | |
| >Blending Lookup Table Descriptor | 0028,1407 | 1C | Used if (0028,1405) is "TABLE" |
| >Blending Lookup Table Data | 0028,1408 | 1C | Used if (0028,1405) is "TABLE" |
| Blending LUT2 Sequence | 0028,140C | 1C | Used |
| >Blending Weight Constant | 0028,1406 | 1C | Used if (0028,140D) is "CONSTANT" |
| >Blending LUT2 Transfer Function | 0028,140D | 1 | "CONSTANT", "ONE_MINUS" |
| >Blending Lookup Table Descriptor | 0028,1407 | 1C | Not used |
| >Blending Lookup Table Data | 0028,1408 | 1C | Not used |
| Enhanced Palette Color Lookup Table Sequence | 0028,140B | 1C | Used |

Table 6.5–9: Enhanced Palette Color Lookup Table Module Attributes (continued)

| Attribute Name | Tag | Type | Attribute Description |
|--|-----------|------|------------------------|
| >Red Palette Color Lookup Table Descriptor | 0028,1101 | 1C | Used |
| >Green Palette Color Lookup Table Descriptor | 0028,1102 | 1C | Used |
| >Blue Palette Color Lookup Table Descriptor | 0028,1103 | 1C | Used |
| >Red Palette Color Lookup Table Data | 0028,1201 | 1C | Used |
| >Green Palette Color Lookup Table Data | 0028,1202 | 1C | Used |
| >Blue Palette Color Lookup Table Data | 0028,1203 | 1C | Used |
| >Data Path ID | 0028,140E | 1 | "PRIMARY", "SECONDARY" |
| >RGB LUT Transfer Function | 0028,140F | 1 | "TABLE" |
| >Alpha LUT Transfer Function | 0028,1410 | 1 | "NONE", "TABLE" |
| ICC Profile | 0028,2000 | 1C | fixed neutral profile |

6.5.6.7 Enhanced US Image

Table 6.5–10: Enhanced US Image Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|--------------------------------|------------|------|---|
| Image Type | 0008,0008 | 1 | Pixel Data Characteristics set to ORIGINAL Patient Examination Characteristics set to PRIMARY Modality Specific Characteristics set to device application |
| Samples Per Pixel | 0028,0002 | 1 | 1 |
| Photometric Interpretation | 0028, 0004 | 1 | "MONOCHROME2" |
| Bits Allocated | 0028,0100 | 1 | Always 0008H |
| Bits Stored | 0028,0101 | 1 | Always 0008H |
| High Bit | 0028,0102 | 1 | Always 0007H |
| Planar Configuration | 0028, 0006 | 1C | not used |
| Pixel Representation | 0028, 0103 | 1 | set to zero |
| Dimension Organization type | 0020,9311 | 1 | "3D" |
| Acquisition Datetime | 0008,002A | 1 | used |
| Acquisition Duration | 0018,9073 | 1 | set to zero |
| Pixel Spacing | 0028,0030 | 1 | used |
| Position Measuring Device Used | 0018,980C | 1C | "RIGID" |
| Lossy Image Compression | 0028,2110 | 1C | Not used |
| Lossy Image Compression Ratio | 0028,2112 | 1C | Not used |
| Lossy Image Compression Method | 0028,2114 | 1C | Not used |
| Presentation LUT Shape | 2050,0020 | 1 | Not used |
| Rescale Intercept | 0028,1052 | 1 | set to zero |
| Rescale Slope | 0028,1053 | 1 | set to 1 |
| Source Image Sequence | 0008,2112 | 1C | not used |

Table 6.5–10: **Enhanced US Image Module Attributes (continued)**

| Attribute Name | Tag | Type | Attribute Description |
|--|-----------|------|---|
| Referenced Image Sequence | 0008,1140 | 3 | not used |
| Referenced Raw Data Sequence | 0008,9121 | 3 | not used |
| Referenced Instance Sequence | 0008,114A | 1C | not used |
| Number of Stages | 0008,2124 | 1C | not used |
| Stage Number | 0008,2122 | 1C | not used |
| Stage Code Sequence | 0040,000A | 1C | not used |
| View Code Sequence | 0054,0220 | 1 | used |
| >Code Value | 0008,0100 | 1 | "G-A112" |
| >Coding Scheme Designator | 0008,0102 | 1 | "SRT" |
| >Code Meaning | 0008,0104 | 1 | "External" |
| Event Timer Sequence | 0008,2133 | 3 | not used |
| Burned In Annotation | 0028,0301 | 1 | "NO" |
| Icon Image Sequence | 0088,0200 | 3 | not used |
| Transducer Data | 0018,5010 | 3 | not used |
| Transducer Scan Pattern Code Sequence | 0018,9809 | 1 | used |
| >Code Value | 0008,0100 | 1 | "125242" |
| >Coding Scheme Designator | 0008,0102 | 1 | "DCM" |
| >Code Meaning | 0008,0104 | 1 | "Volume scan pattern" |
| Transducer Geometry Code Sequence | 0018,980D | 1 | used |
| >Code Value | 0008,0100 | 1 | "125254" |
| >Coding Scheme Designator | 0008,0102 | 1 | "DCM" |
| >Code Meaning | 0008,0104 | 1 | "Sector ultrasound transducer geometry" |
| Transducer Beam Steering Code Sequence | 0018,980E | 1 | used |
| >Code Value | 0008,0100 | 1 | "125259" |
| >Coding Scheme Designator | 0008,0102 | 1 | "DCM" |
| >Code Meaning | 0008,0104 | 1 | "Phased beam steering" |
| Transducer Application Code Sequence | 0018,980F | 1 | used |
| >Code Value | 0008,0100 | 1 | "125263" |
| >Coding Scheme Designator | 0008,0102 | 1 | "DCM" |
| >Code Meaning | 0008,0104 | 1 | "Endovaginal Transducer" |
| Preprocessing Function | 0018,5020 | 3 | not used |
| Mechanical Index | 0018,5022 | 1 | used |
| Bone Thermal Index | 0018,5024 | 1 | used |
| Cranial Thermal Index | 0018,5026 | 1 | used |
| Soft Tissue Thermal Index | 0018,5027 | 1 | used |
| Depths Of Focus | 0018,9801 | 1 | used |
| Depth Of Scan Field | 0018,5050 | 1 | used |

6.5.6.8 SOP Common

This module is defined in section 4.5.6.1.

7 SC Information Object Implementation

7.1 Introduction

This section specifies the use of the DICOM SC Image IOD to represent the information included in SC images produced by this implementation. Corresponding attributes are conveyed using the module construct. The contents of this section are:

- IOD Implementation
- IOD Module Table
- IOD Module Definitions

7.2 SC IOD Implementation

This section defines the implementation of SC image information object.

7.3 SC Entity-Relationship Model

7.3.1 Entity Description

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities contained within the SC Information Object.

7.3.2 Voluson E6/E8/E10 Mapping of DICOM Entities

Table 7.3–1: Mapping of DICOM Entities to Equipment Entities

| DICOM | Equipment |
|---------|-----------|
| Patient | Patient |
| Study | Exam |
| Series | Exam |
| Image | Image |
| Curve | not used |

7.4 IOD Module Table

Within an entity of the DICOM SC IOD, attributes are grouped into related set of attributes. A set of related attributes is termed a module. A module facilitates the understanding of the semantics concerning the attributes and how the attributes are related with each other. A module grouping does not infer any encoding of information into data sets.

The table below identifies the defined modules within the entities, which comprise the DICOM SC IOD. Modules are identified by Module Name.

See DICOM Part 3 for a complete definition of the entities, modules, and attributes.

Table 7.4–1: SC Image IOD Modules

| Entity Name | Module Name | Reference |
|-------------|------------------------|-------------------------|
| Patient | Patient | 4.5.1.1 |
| Patient | Clinical Trial Subject | Not used |
| Study | General Study | 4.5.2.1 |
| Study | Patient Study | 4.5.2.2 |
| Study | Clinical Trial Subject | Not used |
| Series | General Series | 4.5.3.1 |
| Series | Clinical Trial Subject | Not used |
| Equipment | General Equipment | 4.5.4.1 |
| Equipment | SC Equipment | 7.5.1.1 |
| Image | General Image | 4.5.5.1 |
| Image | Image Pixel | 4.5.5.2 |
| Image | Device | Not used |
| Image | Specimen | Not used |
| Image | SC Image | 7.5.1.2 |
| Image | Overlay Plane | Not used |
| Image | Modality LUT | Not used |
| Image | VOI LUT | 4.5.5.5 |
| Image | ICC Profile | Not used |
| Image | SOP Common | 4.5.6.1 |

7.5 Information Module Definitions

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities and modules contained within the SC Information Object.

The following modules are included to convey Enumerated Values, Defined Terms, and Optional Attributes supported. Type 1 & Type 2 Attributes are also included for completeness and to define what values they may take and where these values are obtained. It should be noted that they are the same ones as defined in the DICOM Standard Part 3 (Information Object Definitions). The attribute "Not used" is equal to "Not present". Not listed elements are not supported.

7.5.1 SC Modules

7.5.1.1 SC Equipment Module

This Module describes equipment used to convert images into a DICOM format.

Table 7.5–1: Secondary Capture Equipment Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|---------------------------------------|------------|------|------------------------|
| Conversion Type | 0008, 0064 | 1 | Set to: WSD |
| Modality | 0008, 0060 | 3 | Defined Term "US" used |
| Secondary Capture Device ID | 0018, 1010 | 3 | Not used |
| Secondary Capture Device Manufacturer | 0008, 1016 | 3 | Not used |

Table 7.5–1: **Secondary Capture Equipment Module Attributes (continued)**

| Attribute Name | Tag | Type | Attribute Description |
|--|------------|------|-----------------------|
| Secondary Capture Device Manufacturer's Model Name | 0008, 1018 | 3 | Not used |
| Secondary Capture Device Software Version | 0018, 1019 | 3 | Not used |
| Video Image Format Acquired | 0018, 1022 | 3 | Not used |
| Digital Image Format Acquired | 0018, 1023 | 3 | Not used |

7.5.1.2 SC Image Module

The table in this Section contains IOD attributes that describe SC images.

Table 7.5–2: **Secondary Capture Image Module Elements**

| Attribute Name | Tag | Type | Attribute Description |
|---------------------------|------------|------|-----------------------|
| Date of Secondary Capture | 0018, 1012 | 3 | Not used |
| Time of Secondary Capture | 0018, 1014 | 3 | Not used |

8 SR Information Object Implementation

8.1 Introduction

This section specifies the use of the DICOM Comprehensive SR IOD to represent the information included in SC images produced by this implementation. Corresponding attributes are conveyed using the module construct. The contents of this section are:

- IOD Implementation
- IOD Module Table
- IOD Module Definitions

8.2 Comprehensive SR IOD Implementation

This section defines the implementation of Comprehensive SR information object.

8.3 Comprehensive SR Entity-Relationship Model

8.3.1 Entity Description

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities contained within the Comprehensive SR Information Object.

8.3.2 Voluson E6/E8/E10 Mapping of DICOM Entities

Table 8.3–1: Mapping of DICOM Entities to Equipment Entities

| DICOM | Equipment |
|-------------|-----------|
| Patient | Patient |
| Study | Exam |
| Series | Exam |
| SR Document | Results |

8.4 IOD Module Table

Within an entity of the DICOM Comprehensive SR IOD, attributes are grouped into related set of attributes. A set of related attributes is termed a module. A module facilitates the understanding of the semantics concerning the attributes and how the attributes are related with each other. A module grouping does not infer any encoding of information into data sets. Not listed modules are not supported.

The table below identifies the defined modules within the entities, which comprise the DICOM Comprehensive SR IOD. Modules are identified by Module Name.

See DICOM Part 3 for a complete definition of the entities, modules, and attributes.

Table 8.4–1: SR IOD Modules

| Entity Name | Module Name | Reference |
|-------------|---------------------|-----------|
| Patient | Patient | 4.5.1.1 |
| Study | General Study | 4.5.2.1 |
| Study | Patient Study | 4.5.2.2 |
| Series | SR Document Series | 8.5.1 |
| Equipment | General Equipment | 4.5.4.1 |
| Document | SR Document General | 8.5.2 |
| Document | SR Document Content | 8.5.3 |
| Document | SOP Common | 4.5.6.1 |

8.5 Information Module Definitions

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities and modules contained within the Comprehensive SR Information Object.

The following modules are included to convey Enumerated Values, Defined Terms, and Optional Attributes supported. Type 1 & Type 2 Attributes are also included for completeness and to define what values they may take and where these values are obtained. It should be noted that they are the same ones as defined in the DICOM Standard Part 3 (Information Object Definitions).

Not listed elements are not supported.

8.5.1 SR Document Series Module

Table 8.5–1: SR Document Series Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|--|------------|------|---|
| Modality | 0008, 0060 | 1 | Defined Term "SR" used. |
| Series Instance UID | 0020, 000E | 1 | Uniquely generated by the equipment. |
| Series Number | 0020, 0011 | 2 | Internal number which is incremented for each new series. |
| Referenced Performed Procedure Step Sequence | 0008, 1111 | 3 | Used if Modality Performed Procedure Step is enabled. |
| >Referenced SOP Class UID | 0008, 1150 | 3 | Used if Modality Performed Procedure Step is enabled. |
| >Referenced SOP Instance UID | 0008, 1155 | 3 | Used if Modality Performed Procedure Step is enabled. |

8.5.2 SR Document General Module

Table 8.5–2: SR Document General Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|-----------------|-----------|------|---|
| Instance Number | 0020,0013 | 1 | Internal number which is incremented for each new SR document |

Table 8.5-2: SR Document General Module Attributes (continued)

| Attribute Name | Tag | Type | Attribute Description |
|--|-----------|------|--|
| Completion Flag | 0040,A491 | 1 | Defined Term "PARTIAL" used |
| Completion Flag Description | 0040,A492 | 3 | Not used |
| Verification Flag | 0040,A493 | 1 | Defined Term "UNVERIFIED" used |
| Content Date | 0008,0023 | 1 | Used |
| Content Time | 0008,0032 | 1 | Used |
| Verifying Observer Sequence | 0040,A073 | 1C | Not used |
| >Verifying Observer Name | 0040,A075 | 1 | |
| >Verifying Observer Identification Code Sequence | 0040,A088 | 2 | |
| >>Include 'Code Sequence Maco' | | | |
| >Verifying Organization | 0040,A027 | 1 | |
| >Verifying DateTime | 0040,A030 | 1 | |
| Predecessor Documents Sequence | 0040,A360 | 1C | Not used |
| >Include 'SOP Instance Reference Macro' | | | |
| Identical Documents Sequence | 0040,A525 | 1C | Not used |
| >Include 'SOP Instance Reference Macro' | | | |
| Referenced Request Sequence | 0040,A370 | 1C | Filled if the exam is based on a Worklist entry |
| >Study Instance UID | 0020,000D | 1 | Taken from Study Instance UID in General Study Module |
| >Referenced Study Sequence | 0008,1110 | 2 | Taken from Worklist, Sent if MPPS is being used otherwise not sent |
| >>Referenced SOP Class UID | 0008,1150 | 1 | Taken from Worklist, Sent if MPPS is being used otherwise not sent |
| >>Referenced SOP Instance UID | 0008,1155 | 1 | Taken from Worklist, Sent if MPPS is being used otherwise not sent |
| >Accession Number | 0008,0050 | 2 | Taken from Patientdialog or Worklist |
| >Placer Order Number/Imaging Service Request | 0040,2016 | 2 | Empty |
| >Filler Order Number/Imaging Service Request | 0040,2017 | 2 | Empty |
| >Requested Procedure ID | 0040,1001 | 2 | Taken from Worklist if present |
| >Requested Procedure Description | 0032,1060 | 2 | Taken from Worklist if present |
| >Requested Procedure Code Sequence | 0032,1064 | 2 | Taken from Worklist if present |
| >Include 'Code Sequence Macro' | | | |
| Current Requested Procedure Evidence Sequence | 0040,A375 | 1C | Not used |
| >Study Instance UID | 0020,000D | 1 | |
| >Referenced Series Sequence | 0008,1115 | 1 | |
| >>Series Instance UID | 0020,000E | 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 | |

Table 8.5–2: **SR Document General Module Attributes (continued)**

| Attribute Name | Tag | Type | Attribute Description |
|---|-----------|------|-----------------------|
| Pertinent Other Evidence Sequence | 0040,A385 | 1C | Not used |
| >Include 'SOP Instance Reference Macro' | | | |
| Referenced Instance Sequence | 0008,114A | 1C | Not used |

8.5.3 SR Document Content Module

Table 8.5–3: **SR Document Content Module Attributes**

| Attribute Name | Tag | Type | Attribute Description |
|--------------------------------------|-----------|------|--|
| Observation DateTime | 0040,A032 | 1C | Not used |
| Content Template Sequence | 0040,A504 | 1C | Used |
| > Mapping Resource | 0008,0105 | 1 | Value = DCMR |
| > Template Identifier | 0040,DB00 | 1 | Value = (5000, 5100, 5200) |
| Value Type | 0040,A040 | 1 | CONTAINER |
| Continuity of Content | 0040,A050 | 1C | SEPARATE |
| Concept Name Code Sequence | 0040,A043 | 1C | |
| >Include "Code SequenceMacro" | | | |
| Concept Value Attribute(s) | | | Not used for CONTAINER |
| Content Sequence | 0040,A730 | 1C | See Template "OB–GYN Ultrasound Procedure Report" (TID 5000) |
| >Relationship Type | 0040,A010 | 1 | See Template "OB–GYN Ultrasound Procedure Report" (TID 5000) |
| >Referenced Content Item Identifier | 0040,DB73 | 1C | Not used |
| >Include Document Content Macro | | | |
| >Include Document Relationship Macro | | | |

8.5.3.1 SR Document Content Descriptions

8.5.3.1.1 Content Template

The equipment supports the following root Templates for SR SOP Instances created, processed, or displayed by the equipment.

Table 8.5–4: **SR Root Templates**

| SOP Class | Template ID | Template Name | Use |
|------------------|-------------|--------------------------------------|------------------------------|
| Comprehensive SR | 5000 | "OB–GYN Ultrasound Procedure Report" | Create |
| Comprehensive SR | 5100 | "Vascular Ultrasound Report" | Create (≥ 12.x.x) |
| Comprehensive SR | 5200 | "Echocardiography Ultrasound Report" | Create (≥ EC200) |

8.6 Standard Extended and Private Context Groups and Templates

Due to compatibility reasons some codes in the following tables still using Coding Scheme Designator "GEK". Via application user interface the Coding Scheme Designator "GEK" can be changed to the DICOM compliant Coding Scheme Designator "99GEK".

8.6.1 Standard Extended and Private Context Groups

All needed context items which are not defined in the DICOM Standard are privately defined and listed in appendix [A](#).

8.6.2 Standard Extended and Private Templates

All needed templates which are not defined in the DICOM Standard are privately defined and listed in appendix [B](#).

9 Modality Worklist Information Model Definition

9.1 Introduction

This section specifies the use of the DICOM Modality Worklist Information Model used to organize data and against which a Modality Worklist Query will be performed. The contents of this section are:

- Information Model Description
- Information Model Entity-Relationship Model
- Information Model Module Table
- Information Model Keys

9.2 Modality Worklist Information Model Description

This section defines the implementation of the Modality Worklist Information Model.

9.3 Modality Worklist Information Model Entity-Relationship Model

9.3.1 Entity Description

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities contained within the Modality Worklist Information Model .

9.3.1.1 Scheduled Procedure Step

Schedule Procedure Step is implemented in a basic form to allow the user to retrieve a subset of attributes.

9.3.1.2 Requested Procedure Entity Description

Requested Procedure is implemented in a basic form to allow the user to retrieve a subset of attributes.

9.3.1.3 Imaging Service Request Entity Description

Imaging Service Request is implemented in a basic form to allow the user to retrieve a subset of attributes.

9.3.1.4 Visit Entity Description

Visit Entity is implemented in a basic form to allow the user to retrieve a subset of attributes.

9.3.1.5 Patient Entity Description

Patient Entity is implemented in a basic form to allow the user to retrieve a subset of attributes.

9.3.2 Voluson E6/E8/E10 Mapping of DICOM Entities

Table 9.3–1: Mapping of DICOM Entities to Equipment Entities

| DICOM | Equipment |
|--------------------------|----------------|
| Scheduled Procedure Step | Not Applicable |
| Requested Procedure | Exam |
| Imaging Service Request | Exam |
| Visit | Not Applicable |
| Patient | Patient |

9.4 Information Model Module Table

Within an entity of the DICOM Modality Worklist IOD, attributes are grouped into related set of attributes. A set of related attributes is termed a module. A module facilitates the understanding of the semantics concerning the attributes and how the attributes are related with each other. A module grouping does not infer any encoding of information into data sets.

The table below identifies the defined modules within the entities, which comprise the DICOM Modality Worklist IOD. Modules are identified by Module Name.

See DICOM Part 3 for a complete definition of the entities, modules, and attributes.

Table 9.4–1: Modality Worklist Information Model Modules

| Entity Name | Module Name | Reference |
|--------------------------|--------------------------|-----------|
| Scheduled Procedure Step | SOP Common | 9.5.2.1 |
| Scheduled Procedure Step | Scheduled Procedure Step | 9.5.2.2 |
| Requested Procedure | Requested Procedure | 9.5.3.1 |
| Imaging Service Request | Imaging Service Request | 9.5.4.1 |
| Visit | Visit Identification | 9.5.5.1 |
| Visit | Visit Status | 9.5.5.2 |
| Visit | Visit Relationship | 9.5.5.3 |
| Visit | Visit Admission | Not used |
| Patient | Patient Relationship | Not used |
| Patient | Patient Identification | 9.5.6.1 |
| Patient | Patient Demographic | 9.5.6.2 |
| Patient | Patient Medical | 9.5.6.3 |

9.5 Information Model Keys

Please refer to DICOM Standard PS 3.3. (Information Object Definitions) and PS 3.4 (Service Class Specifications) for a description of each of the Entities contained within the Modality Worklist Information Model.

The following Module descriptions are included to specify what data elements are supported and what type of matching can be applied. It should be noted that they are the same ones as defined in the DICOM Standard PS 3.4 (Service Class Specifications).

The term Instance is used for Images and Reports in examinations, that are based on Worklist entries.

Not listed elements are not supported.

9.5.1 Supported Matching Attributes and Filtering

Following are the types of matching that can be requested by the implementation:

- Single Value Matching.
- Wild Card Matching.
- Range of date.

Fields with "Filtering supported" in the Matching column can be controlled from the Search screen.

Fields with "Matching supported" in the Matching column can be filled in by the Worklist.

9.5.2 Scheduled Procedure Step Entity

9.5.2.1 SOP Common Module

Table 9.5-1: SOP Common Module Attributes

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|------------------------|-----------|----------------------------|----------------------------|----------------------------|--------------------|
| Specific Character Set | 0008,0005 | O | 1C | Yes/Yes | Matching supported |

9.5.2.2 Scheduled Procedure Step Module

Table 9.5–2: Scheduled Procedure Step Module Attributes

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|--|-----------|----------------------------|----------------------------|--|---|
| Scheduled Procedure Step Sequence | 0040,0100 | R | 1 | No/No | Matching supported |
| >Scheduled Station AE Title | 0040,0001 | R | 1 | No/No | Matching supported Filtering supported |
| >Scheduled Procedure Step Start Date | 0040,0002 | R | 1 | No/No | Matching supported Filtering supported |
| >Scheduled Procedure Step Start Time | 0040,0003 | R | 1 | No/No | Matching supported |
| >Modality | 0008,0060 | R | 1 | Yes/Yes (Modality = "US" or Modality = "empty" == "ALL") | Matching supported Filtering supported |
| >Scheduled Performing Physician's Name | 0040,0006 | R | 2 | Yes(mapped into 0008,1050)/ No | Matching supported |
| >Scheduled Procedure Step Description | 0040,0007 | O | 1C | Yes/Yes | Matching supported |
| >Scheduled Station Name | 0040,0010 | O | 2 | No/No | Filtering supported |
| >Scheduled Procedure Step Location | 0040,0010 | O | 2 | No/No | Matching supported |
| >Scheduled Procedure Step ID | 0040,0009 | O | 1 | Yes/Yes | Matching supported |
| >Scheduled Protocol Code Sequence | 0040,0008 | O | 1C | Yes/Yes (depends on the data from the worklist) | Matching supported |
| >>Code Value | 0008,0100 | O | 1 | Yes/Yes | Matching supported |

Table 9.5–2: **Scheduled Procedure Step Module Attributes (continued)**

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|--------------------------|------------|-----------------------------------|-----------------------------------|-----------------------------------|--------------------|
| >>Code Scheme Designator | 0008,0102 | O | 1 | Yes/Yes | Matching supported |
| >>Code Meaning | 0008,0104 | O | 1 | Yes/Yes | Matching supported |

9.5.3 Requested Procedure Entity

9.5.3.1 Requested Procedure Module

Table 9.5-3: Requested Procedure Module Attributes

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|--|-----------|----------------------------|----------------------------|--------------------------------|--------------------|
| Requested Procedure ID | 0040,1001 | O | 1 | Yes/Yes | Matching supported |
| Requested Procedure Description | 0032,1060 | O | 1C | Yes(mapped into 0040,0275)/ No | Matching supported |
| Requested Procedure Code Sequence | 0032,1064 | O | 1C | Yes(mapped into 0040,0275)/ No | Matching supported |
| Requested Procedure Comments | 0040,1400 | I | 3 | No/No | Matching supported |
| Study Instance UID | 0020,000D | O | 1 | Yes/Yes | Matching supported |
| Referenced Study Sequence | 0008,1110 | O | 1C | Yes/Yes | Matching supported |
| >Referenced SOP Class UID | 0008,1150 | O | 1C | Yes/Yes | Matching supported |
| >Referenced SOP Instance UID | 0008,1155 | O | 1C | Yes/Yes | Matching supported |
| >Names of Intended Recipients of Results | 0040,1010 | O | 3 | No/No | Matching supported |

9.5.4 Imaging Service Request Entity

9.5.4.1 Imaging Service Request Module

Table 9.5-4: Imaging Service Request Module Attributes

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|------------------|-----------|----------------------------|----------------------------|----------------------------|---|
| Accession Number | 0008,1050 | O | 2 | Yes/Yes | Matching supported Filtering supported |

Table 9.5-4: Imaging Service Request Module Attributes (continued)

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|----------------------------------|-----------|----------------------------|----------------------------|----------------------------|--------------------|
| Referring Physician's Name | 0008,0090 | O | 2 | Yes/No | Matching supported |
| Requesting Physician | 0032,1032 | O | 2 | No/No | Matching supported |
| Requesting Service | 0032,1033 | O | 3 | No/No | Matching supported |
| Imaging Service Request Comments | 0040,2400 | O | 3 | No/No | Matching supported |

9.5.5 Visit Entity

9.5.5.1 Visit Identification

Table 9.5-5: Visit Identification Module Attributes

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|----------------|-----------|----------------------------|----------------------------|----------------------------|--------------------|
| Admission ID | 0038,0010 | O | 2 | No/No | Matching supported |

9.5.5.2 Visit Status

Table 9.5-6: Visit Status Module Attributes

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|--------------------------|-----------|----------------------------|----------------------------|----------------------------|--------------------|
| Current Patient Location | 0038,0300 | O | 2 | No/No | Matching supported |

9.5.5.3 Visit Relationship

Table 9.5–7: Visit Relationship Module Attributes

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|-----------------------------|-----------|----------------------------|----------------------------|----------------------------|---------------------------------|
| Referenced Patient Sequence | 0008,1120 | O | 2 | No/Yes | Matching supported always empty |

9.5.6 Patient Entity

9.5.6.1 Patient Identification

Table 9.5–8: Patient Identification Module Attributes

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|----------------------|-----------|----------------------------|----------------------------|----------------------------|---|
| Patient's Name | 0010,0010 | R | 1 | Yes/Yes | Matching supported Filtering supported |
| Patient ID | 0010,0020 | R | 1 | Yes/Yes | Matching supported Filtering supported |
| Issuer of Patient ID | 0010,0021 | O | 3 | Yes/Yes | ($\geq 10.x.x$) Matching supported |
| Other Patient Ids | 0010,1000 | O | 3 | Yes/Yes | Matching supported |

9.5.6.2 Patient Demographic

Table 9.5–9: Patient Demographic Module Attributes

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|----------------------|-----------|----------------------------|----------------------------|----------------------------|--------------------|
| Patient's Birth Date | 0010,0030 | O | 2 | Yes/Yes | Matching supported |
| Patient's Birth Time | 0010,0032 | O | 2 | No/No | Not supported |
| Patient's Sex | 0010,0040 | O | 2 | Yes/Yes | Matching supported |
| Patient's Size | 0010,1020 | O | 3 | No/No | Not supported |
| Patient's Weight | 0010,1030 | O | 2 | No/No | Not supported |
| Ethnic Group | 0010,2160 | O | 3 | No/No | Not supported |

Table 9.5–9: Patient Demographic Module Attributes (continued)

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|------------------|-----------|----------------------------|----------------------------|----------------------------|---------------|
| Patient Comments | 0010,4000 | O | 3 | No/No | Not supported |

9.5.6.3 Patient Medical

Table 9.5–10: Patient Medical Module Attributes

| Attribute Name | Tag | Expected Matching Key Type | Expected Returned Key Type | Mapped into Instance/ MPPS | Matching |
|----------------------------|------------|----------------------------|----------------------------|----------------------------|---------------|
| Additional Patient History | 0010,21B0 | O | 3 | No/No | Not supported |
| Contrast Allergies | 0010,2210 | O | 2 | No/No | Not supported |
| Medical Alerts | 0010,2000 | O | 2 | No/No | Not supported |
| Pregnancy Status | 0010,21C0 | O | 2 | No/No | Not supported |
| Last Menstrual Date | 0010, 21D0 | O | 3 | Yes/Yes | |

10 Modality Performed Procedure Step SOP Class Definition

10.1 Introduction

This section of the DICOM Conformance Statement specifies the Modality Performed Procedure Step SOP Class, the optional attributes and service elements supported, the valid range of values for mandatory and optional attributes, and the status code behavior.

10.2 Modality Performed Procedure Step SOP Class Definition

In this section, supported means that tag is sent with value if entered by user or from worklist.

10.2.1 IOD Description

This is the description of the DICOM tags to be sent for Modality Performed Procedure Step SOP class.

The following tables describe the Modality Performed Procedure Step Sop Class N-CREATE, N-SET and Final State Attributes.

Table 10.2-1: **SOP Common Module**

| Attribute Name | Tag | Req.Type N-CREATE | Req, Type N-SET |
|------------------------|-----------|----------------------|--------------------|
| Specific Character Set | 0008,0005 | Y | N |

Table 10.2-2: **Performed Procedure Step Relationship**

| Attribute Name | Tag | Req.Type N-CREATE | Req, Type N-SET |
|--|-----------|--|--------------------|
| Scheduled Step Attribute Sequence | 0040,0270 | Y (set) | N |
| >Study Instance UID | 0020,000D | Y (set) | N |
| >Referenced Study Sequence | 0008,1110 | Y (set if scheduled otherwise NULL) | N |
| >>Referenced SOP Class UID | 0008,1150 | Y (set if SQ not NULL) | N |
| >>Referenced SOP Instance UID | 0008,1155 | Y (set if SQ not NULL) | N |
| >Accession Number | 0008,0050 | Y (set if entered in UI or from Worklist) | N |
| >Placer Order Number/ Imaging Service Request | 0040,2016 | N | N |
| >Filler Order Number/ Imaging Service Request | 0040,2017 | N | N |
| >Requested Procedure ID | 0040,1001 | Y (set if entered in UI or from Worklist otherwise NULL) | N |
| >Reason for the requested Procedure | 0040,1002 | N | N |
| >Requested Procedure Description | 0032,1060 | Y (set if entered in UI or from Worklist) | N |

Table 10.2–2: **Performed Procedure Step Relationship (continued)**

| Attribute Name | Tag | Req.Type N-CREATE | Req, Type N-SET |
|---------------------------------------|-----------|--|--------------------|
| >Scheduled Procedure Step ID | 0040,0009 | Y (set if entered in UI or from Worklist) | N |
| >Scheduled Procedure Step Description | 0040,0007 | Y (set if entered in UI or from Worklist) | N |
| >Scheduled Protocol Code Sequence | 0040,0008 | Y (set if from Worklist otherwise NULL) | N |
| >>Code Value | 0008,0100 | Y (set if SQ not NULL) | N |
| >>Code Scheme Designator | 0008,0102 | Y (set if SQ not NULL) | N |
| >>Code Meaning | 0008,0104 | Y (set if SQ not NULL) | N |
| Patient's Name | 0010,0010 | Y (set if entered in UI or from Worklist) | N |
| Patient ID | 0010,0020 | Y (set if entered in UI or from Worklist otherwise it will be generated) | N |
| Issuer of Patient ID | 0010,0021 | Y (set if entered in UI or from Worklist) | |
| Other Patient Ids | 0010,1000 | Y (set if entered in UI or from Worklist) | N |
| Patient's Birth Date | 0010,0032 | Y (set if entered in UI or from Worklist) | N |
| Patient's Sex | 0010,0040 | Y (set if entered in UI or from Worklist) | N |
| Referenced Patient Sequence | 0008,1120 | Y (NULL) | N |
| >Referenced SOP Class UID | 0008,1150 | N | N |
| >Referenced SOP Instance UID | 0008,1155 | N | N |

Table 10.2–3: **Performed Procedure Step Information**

| Attribute Name | Tag | Req.Type N-CREATE | Req, Type N-SET |
|--------------------------------------|-----------|---|---|
| Performed Procedure Step ID | 0040,0253 | Y (set if entered in UI or from Worklist) | N |
| Performed Station AE Title | 0040,0241 | Y (empty if not set in UI) | N |
| Performed Station Name | 0040,0242 | Y (set if entered in UI otherwise NULL) | N |
| Performed Location | 0040,0243 | Y (set if entered in UI otherwise NULL) | N |
| Performed Procedure Step Start Date | 0040,0244 | Y (set to current date) | N |
| Performed Procedure Step Start Time | 0040,0245 | Y (set to current time) | N |
| Performed Procedure Step Status | 0040,0252 | Y (set to "IN PROGRESS") | Y (set to "COMPLETED or DISCONTINUED") |
| Performed Procedure Step Description | 0040,0254 | Y (set if entered in UI or from Worklist) | Y (set if entered in UI or from Worklist) |
| Performed Procedure Type Description | 0040,0254 | Y (NULL) | Y (NULL) |

Table 10.2–3: **Performed Procedure Step Information (continued)**

| Attribute Name | Tag | Req.Type N-CREATE | Req, Type N-SET |
|---|-----------|-------------------------------------|--|
| Procedure Code Sequence | 0008,1032 | Y (set if scheduled otherwise NULL) | Y (set if entered in UI or from Worklist otherwise NULL) |
| >Code Value | 0008,0100 | Y (set if SQ not NULL) | Y (set if SQ not NULL) |
| >Coding Scheme Designator | 0008,0102 | Y (set if SQ not NULL) | Y (set if SQ not NULL) |
| >Code Meaning | 0008,0104 | Y (set if SQ not NULL) | Y (set if SQ not NULL) |
| Performed Procedure Step End Date | 0040,0250 | Y (NULL) | Y (set to current date) |
| Performed Procedure Step End Time | 0040,0251 | Y (NULL) | Y (set to current time) |
| Performed Procedure/ Step Discontinuation/ Reason Code Sequence | 0040,0281 | Y (empty) | Y (set if entered in UI or from Worklist otherwise NULL) |
| >Code Value | 0008,0100 | N | Y (set if SQ not NULL) |
| >Code Scheme Designator | 0008,0102 | N | Y (set if SQ not NULL) |
| >Code Meaning | 0008,0104 | N | Y (set if SQ not NULL) |

Table 10.2–4: **Image Acquisition Results**

| Attribute Name | Tag | Req.Type N-CREATE | Req, Type N-SET |
|--|-----------|---|--------------------------------|
| Modality | 0008,0060 | Y (set to "US") | N |
| Study ID | 0020,0010 | Y (set if entered in UI or from Worklist) | N |
| Performed Protocol Code Sequence | 0040,0260 | Y (NULL) | Y (NULL) |
| >Code Value | 0008,0100 | N | N |
| >Coding Scheme Designator | 0008,0102 | N | N |
| >Code Meaning | 0008,0104 | N | N |
| Performed Series Sequence | 0040,0340 | Y (NULL) | Y |
| >Performing Physician's Name | 0008,1050 | N | Y (NULL) |
| >Protocol Name | 0018,1030 | N | Y (Value == Regular) |
| >Operator's Name | 0008,1070 | N | Y (NULL) |
| >Series Instance UID | 0020,000E | N | Y |
| >Series Description | 0008,103E | N | Y (NULL) |
| >Retrieve AE Title | 0008,0054 | N | Y (NULL) |
| >Referenced Image Sequence | 0008,1140 | N | Y (only for Images) |
| >>Referenced SOP Class UID | 0008,1150 | N | Y (only for Images) |
| >>Referenced SOP Instance UID | 0008,1155 | N | Y (only for Images) |
| >Referenced Standalone SOP Instance Sequence | 0040,0220 | N | Y (only for Structured Report) |
| >>Referenced SOP Class UID | 0008,1150 | N | Y (only for Structured Report) |
| >>Referenced SOP Instance UID | 0008,1155 | N | Y (only for Structured Report) |

10.2.2 Operations

10.2.2.1 Service Class User Behavior

The equipment sends N-CREATE when the exam is being started by pressing "Start Exam".

The equipment sends N-SET after the exam is ended. The N-SET will include all acquired images and structured reports' UIDs and the status of COMPLETED or DISCONTINUED.

11 Storage Commitment Push Model SOP Class Definition

11.1 Introduction

This section of the DICOM Conformance Statement specifies the Storage Commitment Push Model SOP Class, the optional attributes and service elements supported, the valid range of values for mandatory and optional attributes, and the status code behavior.

11.2 Storage Commitment Push Model SOP Class Definition

11.2.1 DIMSE Service Group

Table 11.2-1: DIMSE Service Group

| DIMSE Service Element | Usage SCU/SCP |
|-----------------------|---------------|
| N-EVENT-REPORT | M/M |
| N-ACTION | M/M |

11.2.2 Operations

11.2.2.1 N-Action Information

Table 11.2-2: Storage Commitment Result - N-Action Information

| Event Type Name | Event Type ID | Attribute | Tag | Requirement Type SCU/SCP |
|----------------------------|---------------|------------------------------|-----------|--------------------------|
| Request Storage Commitment | 1 | Transaction UID | 0008,1195 | 1/- |
| | | Retrieve AE Title | 0008,0054 | Not used |
| | | Storage Media File-Set ID | 0008,0130 | Not used |
| | | Storage Media File-Set UID | 0008,0140 | Not used |
| | | 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 | Not used |
| | | >Storage Media File-Set ID | 0008,0130 | Not used |
| | | >Storage Media File-Set UID | 0008,0140 | Not used |

11.2.2.2 Service Class User Behavior

The equipment sends the N-ACTION primitive (Storage Commitment Request) after successful exam save to a DICOM Storage SCP.

The equipment may request Storage Commitment for the following SOP Class UIDs:

Table 11.2-3: **SOP Class Table**

| Name | UID |
|--------------------------------------|-------------------------------|
| Ultrasound Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 |
| Ultrasound Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 |
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 |
| Comprehensive SR | 1.2.840.10008.5.1.4.1.1.88.33 |
| Enhanced US Volume Storage | 1.2.840.10008.5.1.4.1.1.6.2 |

The association for the N-ACTION is disconnected after processing the response. Thus, the N-EVENT-REPORT must be sent on a separate association.

The Referenced Study Component Sequence Attribute is not supported.

The Transaction UID is valid until the request is confirmed, manually retried or manually deleted.

The optional Storage Media File-Set ID and UID Attributes in the N-ACTION are not supported.

On receipt of an unsuccessful N-ACTION Response Status Code from the SCP, the request will remain in the queue for the user to manually retry the request.

11.2.3 Notifications

The equipment will only listen for an N-EVENT-REPORT from the SCP in a new association on the listen port for Verification and Storage Commitment.

11.2.3.1 Event Information

Table 11.2-4: Storage Commitment Result - N-Event Information

| Event Type Name | Event Type ID | Attribute | Tag | Requirement Type SCU/SCP |
|--|---------------|------------------------------|-----------|--------------------------|
| Storage Commitment Request Successful | 1 | Transaction UID | 0008,1195 | -/1 |
| | | Retrieved AE Title | 0008,0054 | Not used |
| | | Storage Media File-Set ID | 0008,0130 | Not used |
| | | Storage Media File-Set UID | 0008,0140 | Not used |
| | | Referenced SOP Sequence | 0008,1199 | -/1 |
| | | >Referenced SOP Class UID | 0008,1150 | -/1 |
| | | >Referenced SOP Instance UID | 0008,1155 | -/1 |
| | | >Storage Media File-Set ID | 0008,0130 | Not used |
| | | >Storage Media File-Set UID | 0008,0140 | Not used |
| Storage Commitment Request Complete - Failures Exist | 2 | Transaction UID | 0008,1195 | -/1 |
| | | Retrieved AE Title | 0008,0054 | Not used |
| | | Storage Media File-Set ID | 0008,0130 | Not used |
| | | Storage Media File-Set UID | 0008,0140 | Not used |
| | | Referenced SOP Sequence | 0008,1199 | -/1C |
| | | >Referenced SOP Class UID | 0008,1150 | -/1 |
| | | >Referenced SOP Instance UID | 0008,1155 | -/1 |
| | | >Retrieve AE Title | 0008,0054 | Not used |
| | | >Storage Media File-Set ID | 0008,0130 | Not used |
| | | >Storage Media File-Set UID | 0008,0140 | Not used |
| | | 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 |

11.2.3.2 Service Class User Behavior

If no answer is received, the request will remain in the send queue for manual retry or manual deletion.

If a successful answer is received, the request will be removed from the send queue without messages.

If a non-successful answer is received, the request will be left in the send queue and will be marked as failed.

In case of a received N-EVENT-REPORT-RQ a N-EVENT-REPORT-RSP message will be sent to the SCP. The sent status values are described in the following tables.

Table 11.2-5: **Storage Commitment N-EVENT-REPORT-RSP Status**

| Status Name | Status Code | Description of Field |
|--------------------------|-------------|------------------------------------|
| Success | 0000h | No error in the N-EVENT-REPORT_RQ. |
| Event Processing Failure | 0110h | On any detected failure. |

12 Print Management SOP Class Definition

12.1 Introduction

This section of the DICOM Conformance Statement specifies the supported Print Management SOP and Meta SOP Classes, the optional attributes and service elements supported, the valid range of values for mandatory and optional attributes, and the status code behavior.

- [12.2](#) - Basic Print Management Meta SOP Classes
- [12.3](#) - Print Management SOP Class Definitions
- [12.4](#) - Print Management IODs
- [12.5.1](#) - IOD Module Definition

12.2 Basic Print Management Meta SOP Classes

The Basic Print Management Meta SOP Classes correspond with the minimum functionality that an implementation of the Print Management Service Class shall support. The equipment supports the Basic Grayscale Print Management Meta SOP Class and the Basic Color Print Management Meta SOP Class. These are defined in Table [12.2-1](#) and [12.2-2](#).

12.2.1 Basic Grayscale Print Management Meta SOP Classes

The Basic Grayscale Print Management Meta SOP Class is defined by the following set of supported SOP Classes.

Table 12.2-1: Basic Grayscale Print Management Meta SOP Class

| SOP Class Name | Usage SCU | Reference |
|-------------------------------------|-----------|------------------------------|
| Basic Film Session SOP Class | M | see 12.3.1 |
| Basic Film Box SOP Class | M | see 12.3.2 |
| Basic Grayscale Image Box SOP Class | M | see 12.3.3.1 |
| Printer SOP Class | M | see 12.3.4 |

12.2.2 Basic Color Print Management Meta SOP Classes

The Basic Color Print Management Meta SOP Class is defined by the following set of supported SOP Classes.

Table 12.2-2: Basic Color Print Management Meta SOP Class

| SOP Class Name | Usage SCU | Reference |
|---------------------------------|-----------|------------------------------|
| Basic Film Session SOP Class | M | see 12.3.1 |
| Basic Film Box SOP Class | M | see 12.3.2 |
| Basic Color Image Box SOP Class | M | see 12.3.3.2 |
| Printer SOP Class | M | see 12.3.4 |

12.3 Print Management SOP Class Definitions

12.3.1 Basic Film Session SOP Class

The Basic Color Print Management Meta SOP Class is defined by the following set of supported SOP Classes

Table 12.3–1: DIMSE Service Group

| DIMSE Service Element | Usage SCU | Reference |
|-----------------------|-----------|--------------------------------|
| N-Create | M | see 12.3.1.1.1 |
| N-Set | U | see 12.3.1.1.2 |
| N-Delete | U | see 12.3.1.1.3 |
| N-Action | U | see 12.3.1.1.4 |

12.3.1.1 DIMSE Service Group

12.3.1.1.1 N-CREATE

The N-CREATE DIMSE Service is used by equipment to request that the SCP create a Film Session SOP Instance see [Table 12.4–1](#).

12.3.1.1.2 N-SET

Not used in this implementation.

12.3.1.1.3 N-DELETE

Not used in this implementation.

12.3.1.1.4 N-ACTION

Not used in this implementation.

12.3.2 Basic Film Box SOP Class

The Basic Film Box IOD is an abstraction of the presentation of one film of the film session. The DIMSE services that are applicable to the IOD are shown in the following Table.

Table 12.3–2: DIMSE Service Group

| DIMSE Service Element | Usage SCU | Reference |
|-----------------------|-----------|--------------------------------|
| N-Create | M | see 12.3.2.1.1 |
| N-Action | M | see 12.3.2.1.2 |
| N-Set | U | see 12.3.2.1.3 |
| N-Delete | U | see 12.3.2.1.4 |

12.3.2.1 DIMSE Service Group

12.3.2.1.1 N-CREATE

The N-CREATE DIMSE Service is used by equipment to request that the SCP create a Film Box SOP Instance. Table 12.4–2 defines the Basic Film Box Presentation Module attributes used in this request.

12.3.2.1.2 N-ACTION

The N-ACTION DIMSE Service is used by the equipment to request the SCP (printer) to print the number of copies configured by the user to a film of the film session.

12.3.2.1.3 N-SET

Not used in this implementation.

12.3.2.1.4 N-DELETE

The N-DELETE DIMSE Service is used by the equipment to request the SCP (printer) to delete the complete Film Box. The root Film Box Instance UID is sent to the SCP to accomplish this.

12.3.3 Image Box SOP Class

12.3.3.1 Basic Grayscale Image Box SOP Class

The Basic Grayscale Image Box IOD is an abstraction of the presentation of an image and image related data in the image area of a film. The DIMSE services that are applicable to the IOD are shown in Table 12.3–3.

Table 12.3–3: DIMSE Service Group

| DIMSE Service Element | Usage SCU | Reference |
|-----------------------|-----------|----------------|
| N-Set | M | see 12.3.3.1.1 |

12.3.3.1.1 DIMSE Service Group (N-SET)

The N-SET DIMSE Service is used by the equipment to update the Basic Grayscale Image Box SOP Instance. Table 12.4–3 defines the Basic Image Box Presentation Module attributes used.

12.3.3.2 Basic Color Image Box SOP Class

The Basic Color Image Box IOD is an abstraction of the presentation of an image and image related data in the image area of a film. The DIMSE services that are applicable to the IOD are shown in Table 12.3–4.

Table 12.3–4: DIMSE Service Group

| DIMSE Service Element | Usage SCU | Reference |
|-----------------------|-----------|----------------|
| N-SET | M | see 12.3.3.2.1 |

12.3.3.2.1 DIMSE Service Group (N-SET)

The N-SET DIMSE Service is used by the equipment to update the Basic Color Image Box SOP Instance. Table 12.4–3 defines the Basic Image Box Presentation Module attributes used.

12.3.4 Printer SOP Class

The Printer IOD is an abstraction of the hard copy printer and is the basic Information Entity to monitor the status of the printer. The DIMSE services that are applicable to the IOD are shown in Table 12.3–5.

12.3.4.1 DIMSE Service Group

Table 12.3–5: DIMSE Service Group

| DIMSE Service Element | Usage SCU | Reference |
|-----------------------|-----------|----------------|
| N-Event-Report | M | see 12.3.4.1.1 |
| N-Get | U | see 12.3.4.1.2 |

12.3.4.1.1 N-EVENT-REPORT

The equipment ignores the content of any N-EVENT-REPORT initiated by the SCP (Printer).

12.3.4.1.2 N-GET

Used by the equipment to request the SCP to get a Printer SOP Instance. Table 12.4–4 defines the Printer Module attributes.

12.4 Print Management IODs

12.4.1 Print Management IODs

Within an entity of a DICOM Print Management, attributes are grouped into a related set of attributes. A set of related attributes is termed a module. A module facilitates the understanding of the semantics concerning the attributes and how the attributes are related with each other. A module grouping does not infer any encoding of information into datasets.

Table 12.4–1, Table 12.4–2, Table 12.4–3 and Table 12.4–4 identify the defined modules within the entities which comprise the DICOM Print Management Service IODs. Modules are identified by Module Name. See DICOM for a complete definition of the entities, modules and attributes.

12.4.1.1 Film Session IOD Module

Table 12.4–1: Film Session IOD Modules

| Module Name | Reference | Module Description |
|--|--------------------------------|--|
| SOP Common Module | see 12.5.1.1.1 | Contains SOP Common information |
| Basic Film Session Presentation Module | see 12.5.1.2.1 | Contains Film Session presentation information |
| Basic Film Session Relationship Module | see 12.5.1.2.2 | References to related SOPs |

12.4.1.2 Basic Film Box IOD Module Table

Table 12.4–2: Basic Film Box IOD Modules

| Module Name | Reference |
|------------------------------------|--------------------------------|
| SOP Common Module | see 12.5.1.1.1 |
| Basic Film Box Presentation Module | see 12.5.1.2.3 |
| Basic Film Box Relationship Module | see 12.5.1.2.4 |

12.4.1.3 Basic Image Box IOD Module Table

Table 12.4–3: Basic Image Box IOD Modules

| Module Name | Reference |
|-------------------------------------|--------------------------------|
| SOP Common Module | see 12.5.1.1.1 |
| Image Box Pixel Presentation Module | see 12.5.1.2.5 |

12.4.1.4 Printer IOD Module Table

Table 12.4–4: Printer IOD Modules

| Module Name | Reference |
|-------------------|--------------------------------|
| SOP Common Module | see 12.5.1.1.1 |
| Printer Module | see 12.5.1.2.6 |

12.5 Information Module Definitions

12.5.1 Information Module Definitions

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities and modules that comprise the Print Management. The following modules are included to convey Enumerated Values, Defined Terms, and Optional Attributes supported.

12.5.1.1 General Modules

12.5.1.1.1 SOP Common Module

This section defines the attributes that are required for proper functioning and identification of the associated SOP Instances. They do not specify any semantics about the Real-World Object represented by the IOD.

Table 12.5–1: SOP Common Module Attributes

| Attribute Name | Tag | Type | Attribute Description |
|------------------------|-------------|------|--|
| SOP Class UID | (0008,0016) | 1 | Varies with Module Instance and DIMSE Service being used. 1.2.840.10008.5.1.1.1 (Basic Film Session) 1.2.840.10008.5.1.1.2 (Basic Film Box) 1.2.840.10008.5.1.1.4 (Basic Grayscale Image Box) 1.2.840.10008.5.1.1.16 (Printer) |
| SOP Instance UID | (0008,0018) | 1 | Provided by SCP(printer). |
| Specific Character Set | (0008,0005) | 1C | Not used as expanded or replacement character sets not used. |
| Instance Creation Date | (0008,0012) | 3 | Not used. |
| Instance Creation Time | (0008,0013) | 3 | Not used. |
| Instance Creator UID | (0008,0014) | 3 | Not used. |

12.5.1.2 Print Management Modules

For all user configurable tags with no default, no value will be sent if the tag is not configured.

12.5.1.2.1 Basic Film Session Presentation Module

This section defines the attributes that are common for all films of a film session. The attributes described in table 12.5–2 apply when the N-CREATE DIMSE service is used.

Table 12.5–2: Basic Film Session Presentation Module Attributes

| Attribute Name | Tag | Usage (SCU) | Attribute Description |
|--------------------|-------------|-------------|---|
| Number of Copies | (2000,0010) | U | Defined Terms used (user configurable): 1 to 99. |
| Print Priority | (2000,0020) | U | Defined Terms used (user configurable): HIGH, MED, LOW. |
| Medium Type | (2000,0030) | U | Defined Terms used (user configurable): PAPER, BLUE FILM, CLEAR FILM. |
| Film Destination | (2000,0040) | U | Defined Terms used (user configurable): MAGAZINE, PROCESSOR. |
| Film Session Label | (2000,0050) | U | Not used |
| Memory Allocation | (2000,0060) | U | Not used |
| Owner ID | (2100,0160) | U | Not used |

12.5.1.2.2 Basic Film Session Relationship Module

Table 12.5–3: Basic Film Session Relationship Module Attributes

| Attribute Name | Tag | Usage (SCU) | Attribute Description |
|------------------------------|-------------|-------------|-----------------------|
| Referenced Film Box Sequence | (2000,0050) | U | Not used. |
| >Referenced SOP Class UID | (0008,1150) | U | |
| >Referenced SOP Instance UID | (0008,1155) | U | |

12.5.1.2.3 Basic Film Box Presentation Module

The attributes described in Table 12.5–4 apply when the N-CREATE DIMSE service is used.

Table 12.5–4: Basic Film Box Presentation Module Attributes

| Attribute Name | Tag | Usage (SCU) | Attribute Description |
|------------------------------|-------------|-------------|---|
| Image Display Format | (2010,0010) | M | STANDARD\1,1 STANDARD\1,2 STANDARD\2,2 STANDARD\2,3 STANDARD\3,3 STANDARD\3,4 STANDARD\3,5 STANDARD\4,4 STANDARD\4,5 STANDARD\4,6 |
| Annotation Display Format ID | (2010,0030) | U | Not used. |
| Film Orientation | (2010,0040) | U | Defined Terms used (user configurable): PORTRAIT, LANDSCAPE |
| Film Size ID | (2000,0050) | U | Defined Terms used (user configurable): 8INX10IN, 10INX12IN, 10INX14IN, 11INX14IN, 14INX14IN, 14INX17IN, 24CMX24CM, 24CMX30CM |
| Magnification Type | (2010,0060) | U | Defined Terms used (user configurable): REPLICATE,BILINEAR, CUBIC, NONE |
| Smoothing Type | (2010,0080) | U | Not used. |
| Border Density | (2010,0100) | U | Defined Terms used (user configurable): BLACK, WHITE |
| Empty Image Density | (2010,0110) | U | Defined Terms used (user configurable): BLACK, WHITE |
| Min Density | (2010,0120) | U | configurable in the DICOM Printer configuration page |
| Max Density | (2010,0130) | U | configurable in the DICOM Printer configuration page |
| Trim | (2010,0140) | U | Not used. |
| Configuration Information | (2010,0150) | U | User configurable |

The system can be configured to not send the Magnification Type (2010,0060) ($\geq 10.x.x$).

12.5.1.2.4 Basic Film Box Relationship Module

This section defines the attributes that describe the common parameters, which apply for all images on a given sheet of film.

Table 12.5–5: Basic Film Box Relationship Module Attributes

| Attribute Name | Tag | Usage (SCU) | Attribute Description |
|--------------------------------------|-------------|-------------|---------------------------------------|
| Referenced Film Session Sequence | (2010,0500) | M | Used |
| >Referenced SOP Class UID | (0008,1150) | M | Film Session SOP Class UID |
| >Referenced SOP Instance UID | (0008,1155) | M | Referenced Film Session SOP Class UID |
| Referenced Image Box Sequence | (2010,0510) | U | Used |
| >Referenced SOP Class UID | (0008,1150) | U | Not used |
| >Referenced SOP Instance UID | (0008,1150) | U | Referenced Image Box SOP Class UID |
| Referenced Basic Annotation Sequence | (2010,0520) | U | Not used |
| >Referenced SOP Class UID | (0008,1150) | U | Not used |
| >Referenced SOP Instance UID | (0008,1150) | U | Not used |

12.5.1.2.5 Image Box Pixel Presentation Module

The attributes described in Table 12.5–6 apply when the DIMSE Service N-SET is used.

Table 12.5–6: Image Box Pixel Presentation Module Attributes

| Attribute Name | Tag | Usage (SCU) | Attribute Description |
|--------------------------------|-------------|-------------|--|
| Image Position | (2020,0010) | M | 1-n (Used for grayscale and color images) |
| Polarity | (2020,0020) | U | Not used |
| Requested Image Size | (2020,0030) | U | Not used |
| Basic Grayscale Image Sequence | (2020,0110) | M | (Used for grayscale images) |
| >Samples Per Pixel | (0028,0002) | M | Value = '1' |
| >Photometric Interpretation | (0028,0004) | M | MONOCHROM2, 0 = Black, 255 = White |
| >Rows | (0028,0010) | M | 600 pixels |
| >Columns | (0028,0011) | M | 800 pixels |
| >Pixel Aspect Ratio | (0028,0034) | MC | Not used |
| >Bits Allocated | (0028,0100) | M | Value always = 0008H |
| >Bits Stored | (0028,0101) | M | Value always = 0008H |
| >High Bit | (0028,0102) | M | Value always = 0007H |
| >Pixel Representation | (0028,0103) | M | Defined Value '0' - unsigned integer |
| >Pixel Data | (7FE0,0010) | M | Gray pixel data |
| Basic Color Image Sequence | (2020,0111) | M | (Used for color images) |
| >Samples Per Pixel | (0028,0002) | M | Value = '3' |
| >Photometric Interpretation | (0028,0004) | M | RGB |
| >Planar Configuration | (0028,0006) | M | 0001H, Planar. Red plane first, then green, and blue |
| >Rows | (0028,0010) | M | 600 pixels |

Table 12.5–6: **Image Box Pixel Presentation Module Attributes (continued)**

| Attribute Name | Tag | Usage (SCU) | Attribute Description |
|-----------------------|-------------|-------------|--------------------------------------|
| >Columns | (0028,0011) | M | 800 pixels |
| >Pixel Aspect Ratio | (0028,0034) | MC | 1\1 |
| >Bits Allocated | (0028,0100) | M | Value always = 0008H |
| >Bits Stored | (0028,0101) | M | Value always = 0008H |
| >High Bit | (0028,0102) | M | Value always = 0007H |
| >Pixel Representation | (0028,0103) | M | Defined Value '0' - unsigned integer |
| >Pixel Data | (7FE0,0010) | M | Color pixel planes data |

12.5.1.2.6 Printer Module

This section defines the attributes that are used to monitor the status of the printer. The attributes described in Table 12.5–7 apply when the DIMSE Service N-GET is used. Only Failures will be displayed to the customer in the send queue. The reason for a possible failure will not be displayed.

Table 12.5–7: **Printer Module Attributes**

| Attribute Name | Tag | Usage (SCU) | Attribute Description |
|-------------------------|-------------|-------------|---|
| Printer Status | (2110,0010) | U | Defined Values: NORMAL, WARNING and FAILURE are reported to user. |
| Printer Status Info | (2110,0020) | U | Reported to user. |
| Printer Name | (2110,0030) | U | Ignored, will not be displayed |
| Manufacturer | (0008,0070) | U | Ignored, will not be displayed |
| Manufacturer Model Name | (0008,1090) | U | Ignored, will not be displayed |
| Device Serial Number | (0018,1000) | U | Ignored, will not be displayed |
| Software Versions | (0018,1020) | U | Ignored, will not be displayed |
| Date Last Calibration | (0018,1200) | U | Ignored, will not be displayed |
| Last Calibration | (0018,1201) | U | Ignored, will not be displayed |

13 Study Root Query/Retrieve Information Model Definition

13.1 Introduction

This section specifies the use of the DICOM Study Root Query/Retrieve Model used to organize data and against which a Query/Retrieve will be performed. The contents of this section are:

- Information Model Description
- Information Model Entity-Relationship Model
- Information Model Keys

13.2 Study Root Information Model Description

This section defines the implementation of the Study Root Query/Retrieve Information Model.

13.3 Study Root Information Model Entity-Relationship Model

13.3.1 Entity Description

Please refer to DICOM Standard Part 3 (Information Object Definitions) for a description of each of the entities contained within the Study Root Information Model.

13.3.2 Voluson E6/E8/E10 Mapping of DICOM Entities

Table 13.3–1: Mapping of DICOM Entities to Equipment Entities

| DICOM | Equipment |
|--------|-----------|
| STUDY | Patient |
| SERIES | Exam |
| IMAGE | Image |

13.4 Information Model Keys

Please refer to DICOM Standard PS 3.4 (Service Class Specifications) for a description of each of the levels contained within the Study Root Query/Retrieve Information Model. The following Level descriptions are included to specify what data elements are supported and what type of matching can be applied. It should be noted that they are the same ones as defined in the DICOM Standard PS 3.4 (Service Class Specifications).

13.4.1 Study Level

This section defines the keys at the Study Level of the Study Root Query/Retrieve Information Model that are supported by this implementation. See Table 2.3–14.

The following conventions are used to defined they of keys used in Query/Retrieve Information Models. Please refer to DICOM Standard part 4 for details on what Unique, Optional and Required attribute means.

Table 13.4-1: **Conventions**

| Symbol | Description |
|--------|------------------------|
| U | Unique Key Attribute |
| O | Optional Key Attribute |
| R | Unique Key Attribute |

Table 13.4-2: **Q/R Study Level and Location for Retrieve Attributes**

| Attribute Name | Tag | Type | Attribute Description |
|----------------------|-------------|------|-----------------------|
| Query Retrieve Level | (0008,0052) | – | Value=STUDY |

Table 13.4-3: **Q/R Specific Character Set Attributes**

| Attribute Name | Tag | Type | Attribute Description |
|------------------------|-------------|------|---|
| Specific Character Set | (0008,0005) | – | Set to ISO IR 100 if extended characters are used in query. ISO IR 100 is supported in responses. |

13.4.2 Series Level

This section defines the keys at the Series Level of the Study Root Query/Retrieve Information Model that are supported by this implementation.

The Modality is always set to the value US.

Table 13.4-4: **Series Level Attributes - Study Root Q/R Information Model**

| Attribute Name | Tag | Type |
|--------------------------------|-------------|------|
| Series Date | (0008,0021) | O |
| Series Time | (0008,0031) | O |
| Modality | (0008,0060) | R |
| SeriesInstanceUID | (0020,000E) | U |
| NumberOfSeriesRelatedInstances | (0020,1209) | O |
| Series Description | (0008,103E) | O |

The following conventions are used to defined they of keys used in Query/Retrieve Information Models. Please refer to DICOM Standard part 4 for details on what Unique, Optional and

Required attribute means.

Table 13.4-5: **Q/R Study Level and Location for Retrieve Attributes**

| Attribute Name | Tag | Type | Attribute Description |
|----------------------|-------------|------|-----------------------|
| Query Retrieve Level | (0008,0052) | – | Value=STUDY |

Table 13.4-6: **Q/R Specific Character Set Attributes**

| Attribute Name | Tag | Type | Attribute Description |
|------------------------|-------------|------|---|
| Specific Character Set | (0008,0005) | – | Set to ISO IR 100 if extended characters are used in query. ISO IR 100 is supported in responses. |

14 Audit Trail Message Format Profile

14.1 Supported Audit Message list

This section describes the list of Audit Messages implemented by this product to conform to the DICOM Audit Profile.

| Audit Message | Usage | Reference |
|------------------------------------|----------|-----------|
| Application Activity | Used | 14.2.1 |
| Audit Log Used | Not Used | |
| Begin Transferring DICOM Instances | Used | 14.2.2 |
| Data Export | Used | 14.2.3 |
| Data Import | Used | 14.2.4 |
| DICOM Instances Accessed | Used | 14.2.5 |
| DICOM Instances Transferred | Used | 14.2.6 |
| DICOM Study Deleted | Used | 14.2.7 |
| Network Entry | Not Used | |
| Query | Used | 14.2.8 |
| Security Alert | Used | 14.2.9 |
| User Authentication | Used | 14.2.10 |
| Order Record | Not Used | |
| Patient Record | Not Used | |
| Procedure Record | Not Used | |

14.2 Audit Message Description

The following subsections define message details and specializations used by this product as part of the DICOM Audit Trail Profile.

14.2.1 Application Activity

This audit message describes the event of an application starting or stopping.

Table 14.2–1: Application Activity Message

| Real World Entities | Field Name | Opt. | Value Constraints |
|---------------------|-----------------------|------|---|
| Event | EventID | M | EV (110100, DCM, "Application Activity") |
| | EventActionCode | M | Enumerated Value E = Execute |
| | EventDateTime | M | System Date/Time, e.g. 2017-03-31T08:58:24.945Z |
| | EventOutcomeIndicator | M | "0" Nominal Success "4" Minor failure "8" Serious failure |
| | EventTypeCode | M | DT (110120, DCM, "Application Start") DT (110121, DCM, "Application Stop") |

Table 14.2–1: **Application Activity Message (continued)**

| Real World Entities | Field Name | Opt. | Value Constraints |
|---|----------------------------|------|------------------------------------|
| Active Participant: Application started (1) | UserID | M | Process ID or user defined value |
| | AlternativeUserID | MC | System AE Title (default = Voluson |
| | UserIsRequestor | M | true |
| | RoleIDCode | M | EV (110150, DCM, "Application") |
| | NetworkAccessPointTypeCode | U | 2 |
| | NetworkAccessPointID | U | Local IP Address |

14.2.2 Begin Transferring DICOM Instances

This message describes the event of a system beginning to transfer a set of DICOM instances from one node to another node within control of the system's security domain. This message only includes information about a single patient.

Table 14.2–2: **Audit Message for Begin Transferring DICOM Instances**

| Real World Entities | Field Name | Opt. | Value Constraints |
|--|----------------------------|------|---|
| Event | EventID | M | EV (110102, DCM, "Begin Transferring DICOM Instances") |
| | EventActionCode | M | Enumerated Value: E = Execute |
| | EventDateTime | M | System Date/Time, e.g. 2017-03-31T08:58:24.945Z |
| | EventOutcomeIndicator | M | "0" Nominal Success "4" Minor failure "8" Serious failure |
| Active Participant: Process Sending the Data (1) | UserID | M | Process ID or user defined value |
| | AlternativeUserID | U | System AE Title |
| | UserIsRequestor | M | false |
| | RoleIDCode | M | EV (110153, DCM, "Source Role ID") |
| | NetworkAccessPointTypeCode | U | "2" |
| | NetworkAccessPointID | U | Local IP Address |

Table 14.2–2: Audit Message for Begin Transferring DICOM Instances (continued)

| Real World Entities | Field Name | Opt. | Value Constraints |
|--|-------------------------------|------|---|
| Active Participant: Process receiving the data (1) | UserID | M | Process ID or user defined value |
| | AlternativeUserID | U | Destination AE Title |
| | UserIsRequestor | M | false |
| | RoleIDCode | M | EV (110152, DCM, "Destination Role ID") |
| | NetworkAccessPointTypeCode | U | "2" |
| | NetworkAccessPointID | U | Destination IP Address |
| Active Participant: Other Participants (0..N) | UserID | M | Username |
| | UserIsRequestor | M | true |
| | NetworkAccessPointTypeCode | U | "2" |
| | NetworkAccessPointID | U | Local IP Address |
| Participating Object: Studies being transferred (1..N) | ParticipantObjectTypeCode | M | Enumerated Value: 2 = system |
| | ParticipantObjectTypeCodeRole | M | Enumerated Value: 3 = report |
| | ParticipantObjectIDTypeCode | M | EV (110180, DCM, "Study Instance UID") |
| | ParticipantObjectID | M | Filled with Study Instance UID |

14.2.3 Data Export

This message describes the event of exporting data from the system, meaning that the data is leaving control of the system's security domain. Example of exporting includes printing to paper, conversion to another format of storage in an EHR, writing to removeable media or sending via e-mail. A single patient is described in one event message.

Table 14.2–3: Audit Message for Data Export

| Real World Entities | Field Name | Opt. | Value Constraints |
|---------------------|-----------------|------|---|
| Event | EventID | M | EV (110106, DCM, "Export") |
| | EventActionCode | M | Enumerated Value: R = Read |
| | EventDateTime | M | System Date/Time, e.g. 2017-03-31T08:58:24.945Z |

Table 14.2–3: **Audit Message for Data Export (continued)**

| Real World Entities | Field Name | Opt. | Value Constraints |
|--|-------------------------------|------|--|
| | EventOutcomeIndicator | M | "0" Nominal Success "4" Minor failure "8" Serious failure |
| Active Participant: User or Process Exporting the data(1..2) | UserID | M | User name |
| | UserIsRequestor | M | true |
| | RoleIDCode | M | EV (110153, DCM, "Source Role ID") |
| | NetworkAccessPointTypeCode | U | "2" |
| | NetworkAccessPointID | U | Local IP Address |
| Active Participant: Media (1) | UserID | M | Filled with identity of the local user or process exporting the data. E.g. File Name, Printer name, email address |
| | UserIsRequestor | M | false |
| | RoleIDCode | M | EV (110154, DCM, "Destination Media") |
| | MediaIdentifier | M | MediaType |
| | MediaType | M | EV (110030, DCM, "USB Disk Emulation") EV (110031, DCM, "Email") EV (110033, DCM, "DVD") EV (110038, DCM, "Paper Document") |
| Participating Object: Studies (0..N) | ParticipantObjectTypeCode | M | Enumerated Value: 2 = system |
| | ParticipantObjectTypeCodeRole | M | Enumerated Value: 3 = report |
| | ParticipantObjectIDTypeCode | M | EV (110180, DCM, "Study Instance UID") |
| | ParticipantObjectID | M | The Study Instance UID |
| Participating Object: Patients (1..N) | ParticipantObjectTypeCode | M | Enumerated Value: 1 = person |
| | ParticipantObjectTypeCodeRole | M | Enumerated Value: 1 = patient |
| | ParticipantObjectIDTypeCode | M | Enumerated Value: 2 = patient ID |
| | ParticipantObjectID | M | Set to patient ID |

14.2.4 Data Import

This message describes the event of importing data into an organization, implying that the data now entering the system was not under the control of the security domain of this organization. An example of importing is creating new local instances from data on removable media. A

single patient is described in one event message. A single user (either local or remote) shall be identified as the requestor, i.e., `UserIsRequestor` with a value of `TRUE`. This accommodates both push and pull transfer models for media.

Table 14.2-4: Audit Message for Data Import

| Real World Entities | Field Name | Opt. | Value Constraints |
|---|----------------------------|------|---|
| Event | EventID | M | EV (110107, DCM, "Import") |
| | EventActionCode | M | Enumerated Value: C = Create |
| | EventDateTime | M | System Date/Time, e.g. 2017-03-31T08:58:24.945Z |
| | EventOutcomeIndicator | M | "0" Nominal Success "4" Minor failure "8" Serious failure |
| Active Participant: User or Process Importing the data (1..n) | UserID | M | User name |
| | UserIsRequestor | M | true |
| | RoleIDCode | M | EV (110152, DCM, "Destination Role ID") |
| | NetworkAccessPointTypeCode | U | 2 |
| | NetworkAccessPointID | U | Local IP Address |

14.2.5 DICOM Instances Accessed

This message describes the event of DICOM SOP Instances being viewed, utilized, updated, or deleted. This message includes information about a single patient and `isSelect` can be used to summarize all activity for several studies for that patient or `isSelect` summarize all activity for a single Study. This message records `isSelect` the studies `isOr` the Study to which the instances belong, not the individual instances. If all instances within a study are deleted, then the EV(110105, DCM, "DICOM Study Deleted") event is used, see Section 27.2.8.

Table 14.2-5: Audit Message for DICOM Instances Accessed

| Real World Entities | Field Name | Opt. | Value Constraints |
|---------------------|-----------------------|------|---|
| Event | EventID | M | EV (110103, DCM, "DICOM Instances Accessed") |
| | EventActionCode | M | Enumerated value: C = create R = read U = update D = delete |
| | EventDateTime | M | System Date/Time, e.g. 2017-03-31T08:58:24.945Z |
| | EventOutcomeIndicator | M | "0" Nominal Success "4" Minor failure "8" Serious failure |

Table 14.2–5: **Audit Message for DICOM Instances Accessed (continued)**

| Real World Entities | Field Name | Opt. | Value Constraints |
|--|-------------------------------|------|--|
| Active Participant: Person and or Process manipulating the data (1..2) | UserID | M | User Name |
| | UserIsRequestor | M | true |
| | NetworkAccessPointTypeCode | U | 2 |
| | NetworkAccessPointID | U | Local IP Address |
| Participating Object: Studies (1..N) | ParticipantObjectTypeCode | M | Enumerated Value: 2 = system |
| | ParticipantObjectTypeCodeRole | M | Enumerated Value: 3 = report |
| | ParticipantObjectIDTypeCode | M | EV (110180, DCM, "Study Instance UID") |
| | ParticipantObjectID | M | Filled with Study Instance UID |
| Participating Object: Patient (1) | ParticipantObjectTypeCode | M | Enumerated Value: 1 = person |
| | ParticipantObjectTypeCodeRole | M | Enumerated Value: 1 = patient |
| | ParticipantObjectIDTypeCode | M | Enumerated Value: 2 = patient ID |
| | ParticipantObjectID | M | Filled with patient ID |

14.2.6 DICOM Instances Transferred

This message describes the event of the completion of transferring DICOM SOP Instances between two Application Entities. This message only includes information about a single patient.

Table 14.2–6: **Audit Message for DICOM Instance Transferred**

| Real World Entities | Field Name | Opt. | Value Constraints |
|---------------------|------------|------|---|
| Event | EventID | M | EV (110104, DCM, "DICOM Instances Transferred") |

Table 14.2-6: Audit Message for DICOM Instance Transferred (continued)

| Real World Entities | Field Name | Opt. | Value Constraints |
|---|-------------------------------|------|---|
| | EventActionCode | M | Enumerated Value: C = (create) if the receiver did not hold copies of the instances transferred R = (read) if the receiver already holds copies of the SOP Instances transferred, and has determined that no changes are needed to the copies held. U = (update) if the receiver is altering its held copies to reconcile differences between the held copies and the received copies. If the Audit Source is either not the receiver, or otherwise does not know whether or not the instances previously were held by the receiving node, then use "R" = (Read). |
| | EventDateTime | M | System Date/Time, e.g. 2017-03-31T08:58:24.945Z |
| | EventOutcomeIndicator | M | "0" Nominal Success "4" Minor failure "8" Serious failure |
| Active Participant: Process that sent the data (1) | UserID | M | Process ID or user defined value |
| | AlternativeUserID | U | System AE Title |
| | UserIsRequestor | M | true |
| | RoleIDCode | M | EV (110153, DCM, "Source Role ID") |
| | NetworkAccessPointTypeCode | U | 2 |
| | NetworkAccessPointID | U | Local IP Address |
| Active Participant: The process that received the data. (1) | UserID | M | Process ID or user defined value |
| | AlternativeUserID | U | Destination AE Title |
| | UserIsRequestor | M | false |
| | RoleIDCode | M | EV (110152, DCM, "Destination Role ID") |
| | NetworkAccessPointTypeCode | U | 2 |
| | NetworkAccessPointID | U | Destination IP Address |
| Participating Object: Studies being transferred (1..N) | ParticipantObjectTypeCode | M | Enumerated Value: 2 = system |
| | ParticipantObjectTypeCodeRole | M | Enumerated Value: 3 = report |
| | ParticipantObjectIDTypeCode | M | EV (110180, DCM, "Study Instance UID") |

Table 14.2-6: Audit Message for DICOM Instance Transferred (continued)

| Real World Entities | Field Name | Opt. | Value Constraints |
|-----------------------------------|-------------------------------|------|-------------------------------------|
| | ParticipantObjectID | M | Filled with Study Instance UID |
| Participating Object: Patient (1) | ParticipantObjectTypeCode | M | Enumerated Value: 1 = person |
| | ParticipantObjectTypeCodeRole | M | Enumerated Value: 1 = patient |
| | ParticipantObjectIDTypeCode | M | Enumerated Value: 2 = patient ID |
| | ParticipantObjectID | M | Filled with patient ID |

14.2.7 DICOM Study Deleted

This message describes the event of deletion of i Select one or more studies and all associated SOP Instances j or a single Study and its associated SOP Instances in a single action. This message only includes information about a single patient

Table 14.2-7: Audit Message for DICOM Study Deleted

| Real World Entities | Field Name | Opt. | Value Constraints |
|---|-------------------------------|------|---|
| Event | EventID | M | EV (110105, DCM, "DICOM Study Deleted") |
| | EventActionCode | M | Enumerated Value: D = delete |
| | EventDateTime | M | System Date/Time, e.g. 2017-03-31T08:58:24.945Z |
| | EventOutcomeIndicator | M | "0" Nominal Success "4" Minor failure "8" Serious failure |
| Active Participant: the person or process deleting the study (1..2) | UserID | M | User name |
| | UserIsRequestor | M | true |
| | NetworkAccessPointTypeCode | U | 2 |
| | NetworkAccessPointID | U | Local IP Address |
| Participating Object: Studies being transferred (1..N) | ParticipantObjectTypeCode | M | Enumerated Value: 2 = system |
| | ParticipantObjectTypeCodeRole | M | Enumerated Value: 3 = report |
| | ParticipantObjectIDTypeCode | M | EV (110180, DCM, "Study Instance UID") |

Table 14.2–7: **Audit Message for DICOM Study Deleted (continued)**

| Real World Entities | Field Name | Opt. | Value Constraints |
|-----------------------------------|-------------------------------|------|-------------------------------------|
| | ParticipantObjectID | M | Filled with Study Instance UID |
| Participating Object: Patient (1) | ParticipantObjectTypeCode | M | Enumerated Value: 1 = person |
| | ParticipantObjectTypeCodeRole | M | Enumerated Value: 1 = patient |
| | ParticipantObjectIDTypeCode | M | Enumerated Value: 2 = patient ID |
| | ParticipantObjectID | M | Filled with patient ID |

14.2.8 Query

This message describes the event of a Query being issued or received. The message does not record the response to the query, but merely records the fact that a query was issued:

1. Modality Worklist
2. UPS Pull
3. UPS Watch
4. Composite Instance Query

Table 14.2–8: **Audit Message for Query**

| Real World Entities | Field Name | Opt. | Value Constraints |
|---|----------------------------|------|---|
| Event | EventID | M | EV (110112, DCM, "Query") |
| | EventActionCode | M | Enumerated Value: E = Execute |
| | EventDateTime | M | System Date/Time, e.g. 2017-03-31T08:58:24.945Z |
| | EventOutcomeIndicator | M | "0" Nominal Success "4" Minor failure "8" Serious failure |
| Active Participant: Process Issuing the Query (1) | UserID | M | Process ID or user defined value |
| | AlternativeUserID | U | System AE Title |
| | UserIsRequestor | M | false |
| | RoleIDCode | M | EV (110153, DCM, "Source Role ID") |
| | NetworkAccessPointTypeCode | U | 2 |
| | NetworkAccessPointID | U | Local IP Address |

Table 14.2-8: Audit Message for Query (continued)

| Real World Entities | Field Name | Opt. | Value Constraints |
|---|-------------------------------|------|---|
| Active Participant: The process that will respond to the query (1) | UserID | M | Process ID or user defined value |
| | AlternativeUserID | U | Destination AE Title |
| | UserIsRequestor | M | false |
| | RoleIDCode | M | EV (110152, DCM, "Destination Role ID") |
| | NetworkAccessPointTypeCode | U | 2 |
| | NetworkAccessPointID | U | Destination IP Address |
| Active Participant: Other Participants that are known, especially third parties that requested the query (0..N) | UserID | M | User Name |
| | UserIsRequestor | M | true |
| | RoleIDCode | U | EV (110153, DCM, "Source Role ID") |
| | NetworkAccessPointTypeCode | U | 2 |
| | NetworkAccessPointID | U | Local IP Address |
| Participating Object: SOP Queried and the Query (1) | ParticipantObjectTypeCode | M | Enumerated Value: 2 = system |
| | ParticipantObjectTypeCodeRole | M | Enumerated Value: 3 = report |
| | ParticipantObjectIDTypeCode | M | DT (110181, DCM, "SOP Class UID") |
| | ParticipantObjectID | M | If the ParticipantObjectIDTypeCode is (110181, DCM, "SOP Class UID"), then this field holds the UID of the SOP Class being queried |
| | ParticipantObjectQuery | M | If the ParticipantObjectIDTypeCode is (110181, DCM, "SOP Class UID"), then this field holds the Dataset of the DICOM query, xs:base64Binary encoded. Otherwise, it is the query in the format of the protocol used. |

Table 14.2–8: Audit Message for Query (continued)

| Real World Entities | Field Name | Opt. | Value Constraints |
|---------------------|-------------------------|------|--|
| | ParticipantObjectDetail | MC | Used if the ParticipantObjectTypeCode is (110181, DCM, "SOP Class UID") A ParticipantObjectDetail element with the XML attribute "TransferSyntax" is always present. In this case, the value of the Transfer Syntax attribute is the UID of the transfer syntax of the query and therefore is a DICOM Transfer Syntax. The element content is an xs:base64Binary encoding. |

14.2.9 Security Alert

This message describes any event for which a node needs to report a security alert.

Table 14.2–9: Audit Message for Security Alert

| Real World Entities | Field Name | Opt. | Value Constraints |
|--|-------------------------------|------|--|
| Event | EventID | M | EV (110113, DCM, "Security Alert") |
| | EventActionCode | M | Enumerated Value: E = Execute |
| | EventDateTime | M | System Date/Time, e.g. 2017-03-31T08:58:24.945Z |
| | EventOutcomeIndicator | M | "0" Nominal Success "4" Minor failure "8" Serious failure "12" Major failure |
| | EventTypeCode | M | Value selected from DCID 403 "Security Alert Type Code". Refer to Table 14.2–10 for the complete list of values. |
| Active Participant: Reporting Person and/or Process (1..2) | UserID | M | User Name or Process ID |
| | UserIsRequestor | M | true or false |
| | NetworkAccessPointTypeCode | U | Enumerated Value: 2 = System |
| | NetworkAccessPointID | U | Local IP Address |
| Participating Object: Alert Subject (1) | ParticipantObjectTypeCode | M | Enumerated Value: 2 = System |
| | ParticipantObjectTypeCodeRole | U | Defined Terms: 5 = master file 13 = security resource |
| | ParticipantObjectID | M | Local IP Address |

Table 14.2-9: Audit Message for Security Alert (continued)

| Real World Entities | Field Name | Opt. | Value Constraints |
|---------------------|-------------------------|------|--|
| | ParticipantObjectDetail | M | Type = "Alert Description" Value = free text description of the nature of the alert. Refer to Table 14.2-10 for the complete list of text descriptions. |

The full list of Security Alert events audited, including the correspondent "EventTypeCode" and "ParticipantObjectDetails" are contained in Table 14.2-10.

Table 14.2-10: List of Security Alert events

| ID | Event Description | Event Outcome Indicator | CID 403 EventTypeCode | Participant Object Description |
|----|---|-------------------------|---|--|
| 1 | User Authentication - User account creation | 0 | 110137 - User Security Attributes Changed | Clinical Application - user account management - user USERNAME created |
| 2 | User Authentication - password changed | 0 | 110137 - User Security Attributes Changed | Clinical Application - user account management - user USERNAME password change - success |
| 3 | User Authentication - first name changed | 0 | 110137 - User Security Attributes Changed | Clinical Application - user account management - user USERNAME modified |
| 4 | User Authentication - last name changed | 0 | 110137 - User Security Attributes Changed | Clinical Application - user account management - user USERNAME modified |
| 5 | User Authentication - group membership changed | 0 | 110137 - User Security Attributes Changed | Clinical Application - user account management - user USERNAME modified |
| 6 | User Authentication - User account deletion | 0 | 110137 - User Security Attributes Changed | Clinical Application - user account management - user USERNAME deleted |
| 7 | User Authentication - User group creation | 0 | 110136 - Security Role Changed | Clinical Application - user group management - group USERGROUP created |
| 8 | User Authentication - User group modification (permission change) | 0 | 110136 - Security Role Changed | Clinical Application - user group management - group USERGROUP modified |
| 9 | User Authentication - User group removal | 0 | 110136 - Security Role Changed | Clinical Application - user group management - group USERGROUP deleted |
| 10 | Demo key submit - success | 0 | 110135 - Object Security Attributes Changed | Clinical Application - demo key submit - success |
| 11 | Demo key submit - failure | 4 | 110135 - Object Security Attributes Changed | Clinical Application - demo key submit - failure |
| 12 | Permanent key submit - success | 0 | 110135 - Object Security Attributes Changed | Clinical Application - permanent key submit - success |
| 13 | Permanent key submit - failure | 4 | 110135 - Object Security Attributes Changed | Clinical Application - permanent key submit - failure |

Table 14.2–10: List of Security Alert events (continued)

| ID | Event Description | Event Outcome Indicator | CID 403 EventTypeCode | Participant Object Description |
|----|---|-------------------------|---|---|
| 14 | Master key submit - success | 0 | 110135 - Object Security Attributes Changed | Clinical Application - master key submit - success |
| 15 | Master key submit - failure | 4 | 110135 - Object Security Attributes Changed | Clinical Application - master key submit - failure |
| 16 | Change of System Password from UISApp - success | 0 | 110135 - Object Security Attributes Changed | Clinical Application - change of OS password through the clinical user interface - success |
| 17 | Change of System Password password from UISApp - failure (e.g. old pw wrong) | 4 | 110135 - Object Security Attributes Changed | Clinical Application - change of OS password through the clinical user interface - failure |
| 18 | Disk Encryption available but not activated at startup | 4 | 110129 - Security Configuration | System startup - Data Confidentiality - Disk Encryption available but not activated |
| 19 | Disk Encryption - Create unlock keys | 0 | 110135 - Object Security Attributes Changed | Clinical Application - Data Confidentiality - Disk Encryption - unlock key created |
| 20 | Disk Encryption - Saved recovery key | 0 | 110135 - Object Security Attributes Changed | Clinical Application - Data Confidentiality - Disk Encryption - recovery key saved to DESTINATIONNAME |
| 21 | Disk Encryption - Printed recovery key | 0 | 110135 - Object Security Attributes Changed | Clinical Application - Data Confidentiality - Disk Encryption - recovery key printed to PRINTERNAME |
| 22 | Disk Encryption - Saved unlock key | 0 | 110135 - Object Security Attributes Changed | Clinical Application - Data Confidentiality - Disk Encryption - unlock key saved to DRIVENAME |
| 23 | Disk Encryption - encryption started | 0 | 110129 - Security Configuration | Clinical Application - Data Confidentiality - Disk Encryption - encryption started |
| 24 | Disk Encryption - encryption finished (entry only sent if Disk Encryption page is opened) | 0 | 110129 - Security Configuration | Clinical Application - Data Confidentiality - Disk Encryption - encryption finished |
| 25 | Disk Encryption - change unlock password - success | 0 | 110135 - Object Security Attributes Changed | Clinical Application - Data Confidentiality - Disk Encryption - change unlock password - success |
| 26 | Disk Encryption - change recovery password - success | 0 | 110135 - Object Security Attributes Changed | Clinical Application - Data Confidentiality - Disk Encryption - change recovery password - success |
| 27 | Disk Encryption - decryption started | 0 | 110129 - Security Configuration | Clinical Application - Data Confidentiality - Disk Encryption - decryption started |
| 28 | Disk Encryption - decryption finished (entry only sent if Disk Encryption page is opened) | 0 | 110129 - Security Configuration | Clinical Application - Data Confidentiality - Disk Encryption - decryption finished |
| 29 | Screensaver start | 0 | 110135 - Object Security Attributes Changed | Clinical Application - Screensaver start |

Table 14.2–10: List of Security Alert events (continued)

| ID | Event Description | Event Outcome Indicator | CID 403 EventTypeCode | Participant Object Description |
|----|--|-------------------------|---|---|
| 30 | Screensaver stop | 0 | 110135 - Object Security Attributes Changed | Clinical Application - Screensaver stop |
| 31 | User Authentication - Non-admin user gains System Admin rights Note: admin PW and user rights needed, enter PW in Authentication page | 0 | 110144 - Authorization decision | Clinical application - non-admin user gains System Admin rights |
| 32 | User Authentication - Non-admin user loses System Admin rights | 0 | 110144 - Authorization decision | Clinical application - non-admin user loses System Admin rights |
| 33 | ASI - load | 0 | 110131 - Software Configuration | Software update - loaded UPDATENAME from SOURCENAME |
| 34 | Voluson Update - connection established | 0 | 110131 - Software Configuration | Software update - SW download portal connection - established |
| 35 | Voluson Update - connection refused | 4 | 110131 - Software Configuration | Software update - SW download portal connection - failure |
| 36 | Voluson Update - downloaded updates | 0 | 110131 - Software Configuration | Software update - SW download portal - downloaded patches PATCHLIST |
| 37 | User Authentication - LDAP start | 0 | 110132 - Use of restricted function | Clinical Application - LDAP enabled |
| 38 | User Authentication - LDAP stop | 0 | 110132 - Use of restricted function | Clinical Application - LDAP disabled |
| 39 | User Authentication - LDAP network configuration change (server address, port, advanced config parameters, domain) | 0 | 110128 - Network Configuration | Clinical Application - LDAP network configuration - changed |
| 40 | User Authentication - LDAP security configuration change (user/group mapping, SSL on/off) | 0 | 110129 - Security Configuration | Clinical Application - LDAP security configuration - changed |
| 41 | Audit trail start | 0 | 110132 - Use of restricted function | Clinical Application - audit trail enabled |
| 42 | Audit trail stop | 0 | 110132 - Use of restricted function | Clinical Application - audit trail disabled |
| 43 | Audit trail network configuration change (server address, port, protocol) | 0 | 110128 - Network Configuration | Clinical Application - Audit trail network configuration - changed |
| 44 | DICOM configuration - general settings (AE title, station name, port number and all others settings) | 0 | 110128 - Network Configuration | Clinical Application - DICOM server general configuration - changed |

Table 14.2–10: List of Security Alert events (continued)

| ID | Event Description | Event Outcome Indicator | CID 403 EventTypeCode | Participant Object Description |
|----|---|-------------------------|---|--|
| 45 | DICOM configuration - server security configuration (TLS on/off, require client certificate) | 0 | 110129 - Security Configuration | Clinical Application - DICOM server security configuration - changed |
| 46 | DICOM configuration - service configuration - service added | 0 | 110128 - Network Configuration | Clinical Application - DICOM service SERVICENAME added |
| 47 | DICOM configuration - service client configuration (Alias, AE Title, IP, port) | 0 | 110128 - Network Configuration | Clinical Application - DICOM client service configuration for service SERVICENAME changed |
| 48 | DICOM configuration - service security configuration (TLS on/off, require client certificate) | 0 | 110129 - Security Configuration | Clinical Application - DICOM client service security configuration for service SERVICENAME changed |
| 49 | DICOM configuration - service configuration - service deleted | 0 | 110128 - Network Configuration | Clinical Application - DICOM service SERVICENAME deleted |
| 50 | Email configuration - identity settings | 0 | 110135 - Object Security Attributes Changed | Clinical Application - Email Configuration - identity setting changed |
| 51 | Email configuration - SMTP server settings (name, port) | 0 | 110128 - Network Configuration | Clinical Application - Email Configuration - SMTP setting changed |
| 52 | Email configuration - SMTP server security settings (protocol, authentication method) | 0 | 110129 - Security Configuration | Clinical Application - Email Configuration - SMTP security setting changed |
| 53 | Modem configuration - modem configuration changed | 0 | 110128 - Network Configuration | Clinical Application - modem configuration changed |
| 54 | Modem configuration - connect | 0 | 110128 - Network Configuration | Clinical Application - modem configuration - connected |
| 55 | Modem configuration - disconnect | 0 | 110128 - Network Configuration | Clinical Application - modem configuration - disconnected |
| 56 | Manual change of time | 0 | 110132 - Use of restricted function | Clinical application - manual change of date and time |
| 57 | Manual change of date | 0 | 110132 - Use of restricted function | Clinical application - manual change of date and time |
| 58 | Manual change of timezone | 0 | 110132 - Use of restricted function | Clinical application - manual change of timezone |
| 59 | NTP synchronization enabled | 0 | 110132 - Use of restricted function | Clinical application - NTP synchronization enabled |
| 60 | NTP synchronization disabled | 0 | 110132 - Use of restricted function | Clinical application - NTP synchronization disabled |
| 61 | NTP server network change | 0 | 110128 - Network Configuration | Clinical application - NTP server network configuration - PARAMCHANGED changed |

Table 14.2–10: List of Security Alert events (continued)

| ID | Event Description | Event Outcome Indicator | CID 403 EventTypeCode | Participant Object Description |
|----|---|-------------------------|-------------------------------------|--|
| 62 | Access Windows menus/dialogs from UISApp | 0 | 110132 - Use of restricted function | Clinical application - system-level access - DIALOGNAME |
| 63 | USB storage devices - removable media insertion | 0 | 110130 - Hardware Configuration | System security - Removable media MEDIANAME connected |
| 64 | USB storage devices - removable media removal | 0 | 110130 - Hardware Configuration | System security - Removable media MEDIANAME disconnected |
| 65 | User Authentication - disclaimer enabled | 0 | 110131 - Software Configuration | Clinical application - disclaimer enabled |
| 66 | User Authentication - disclaimer modified | 0 | 110131 - Software Configuration | Clinical application - disclaimer modified |
| 67 | User Authentication - disclaimer disabled | 0 | 110131 - Software Configuration | Clinical application - disclaimer disabled |
| 68 | MMS to Email Configuration | 0 | 110128 - Network Configuration | Clinical Application - MMS to Email Configuration modified |
| 69 | Digital certificate deleted from the system | 0 | 110129 - Security Configuration | Clinical Application - certificate deleted |
| 70 | Digital certificate imported to the system | 0 | 110129 - Security Configuration | Clinical Application - certificate imported |
| 71 | network drive connection | 0 | 110130 - Hardware Configuration | System security - Network drive DRIVENAME connected |
| 72 | network drive disconnection | 0 | 110130 - Hardware Configuration | System security - Network drive DRIVENAME disconnected |
| 73 | FMI from DVD - start | 0 | 110131 - Software Configuration | System installation - FMI from DVD DRIVENAME SWVERSION - started |
| 74 | Restore software - start | 0 | 110131 - Software Configuration | Restore software started |
| 75 | Whitelisting - activate | 0 | 110129 - Security Configuration | Clinical Application - Software integrity - Whitelisting enabled through the clinical user interface |
| 76 | Whitelisting - deactivate | 4 | 110129 - Security Configuration | Clinical Application - Software integrity - Whitelisting protection disabled through the clinical user interface |
| 77 | Whitelisting available but not activated at startup | 4 | 110129 - Security Configuration | System startup - Data Confidentiality - Whitelisting available but not activated |

14.2.10 User Authentication

This message describes the event that a user has attempted to log on or log off. This report is made regardless of whether the attempt was successful or not. Note The user usually has UserIsRequestor TRUE, but in the case of a logout timer, the Node can be the UserIsRequestor.

Table 14.2–11: Audit Message for User Authentication

| Real World Entities | Field Name | Opt. | Value Constraints |
|---|----------------------------|------|---|
| Event | EventID | M | EV (110114, DCM, "User Authentication") |
| | EventActionCode | M | Enumerated Value: E = Execute |
| | EventDateTime | M | System Date/Time, e.g. 2017-03-31T08:58:24.945Z |
| | EventOutcomeIndicator | M | "0" Nominal Success "4" Minor failure "8" Serious failure |
| | EventTypeCode | M | Defined Terms: EV (110122, DCM, "Login") EV (110123, DCM, "Logout") |
| Active Participant: Person Authenticated or claimed (1) | UserID | M | User Name |
| | UserIsRequestor | M | true |
| Active Participant: Node or System performing authentication (0..1) | UserID | M | Process ID or user defined value |
| | UserIsRequestor | M | true |
| | RoleIDCode | U | EV (110150, DCM, "Application") |
| | NetworkAccessPointTypeCode | U | "2" |
| | NetworkAccessPointID | U | Local IP Address |

15 Known Limitations

We are aware of the following limitations in our DICOM implementation. Each of these limitations may be overcome in future versions. Please see the detailed description below:

- The Voluson E6/E8/E10 does not offer Implicit VR Little Endian for JPEG Lossless compressed images. Please refer to Table 12.5–7.
- The mandatory functional groups "Frame VOI LUT" and "Plane Orientation (Volume)" are currently not implemented in the Multi-frame Functional Groups Section 6.5.6.3.
- The "Plane Position Functional Group" is currently located in the "Shared Functional Groups Sequence" and should be moved to the "Per-frame Functional Groups Sequence". See Section 6.5.6.3.
- Currently the "Acquisition Context Sequence" will not be transferred. See Section 6.5.6.5.
- The "VOI LUT MACRO ATTRIBUTES" is missing in the Enhanced Palette Color Lookup Table. See Section 6.5.6.6.
- "Lossy Image Compression", "Lossy Image Compression Ratio" and "Lossy Image Compression Method" are not used if JPEG will be sent. See Section 6.5.6.7.
- "Presentation LUT Shape" will not be transferred in the current version. See Section 6.5.6.7.
- "General Anatomy Mandatory Macro" should be included to the "Enhanced US Image Module Attributes" 6.5.6.7 Section.
- The BSN support for the dutch requirement is currently handled via the Tags (0010,0020), (0010,0021) and (0010,1000). In future versions also the Tag (0010, 1002) has to be supported.
- Add "Accession Number", "Study Instance UID", "Referenced Study Sequence" and "Scheduled Protocol Code Sequence" to the "General Series Module Attributes" Table 4.5–3 if copied from MWL.
- "Referenced Study Sequence" should also be added without using MPPS.
- "Current Requested Procedure Evidence Sequence" should be sent. See Section 8.5.2.
- If "Scheduled Protocol Code Sequence" will not be sent from the Worklist the sequence should be empty for MPPS and should not be sent for Images. If the sequence will be received from the Worklist but without the "Code Meaning" the tag will be set equal to the "Code Value" 9.5–2.
- If an asynchron N-Event-Report will be received from a printer a N-Event-Report response has to be sent.
- To avoid compatibility issues the Finding Site listed in the SonoVCAD-Labor Section will be sent although this tag does not convey an anatomical location.
- IOTA data cannot be displayed and generated on 4DView. The data will only be forwarded in case it is received from U/S devices in a country where the generation of IOTA data is cleared.

A Standard Extended and Private Context Groups - EC350

Table A.0–12: Context ID 4 Anatomic Region

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|-------------------------------------|
| SNM3 | | T-04000 | Breast, NOS |
| SNM3 | | T-04002 | Upper inner quadrant of breast, NOS |
| SNM3 | | T-04003 | Lower inner quadrant of breast, NOS |
| SNM3 | | T-04004 | Upper outer quadrant of breast, NOS |
| SNM3 | | T-04005 | Lower outer quadrant of breast, NOS |
| SNM3 | | T-11218 | Suprasternal notch |
| SNM3 | | T-15200 | Fontanel of skull, NOS |
| SNM3 | | T-15460 | Wrist joint, NOS |
| SNM3 | | T-15750 | Ankle joint, NOS |
| SNM3 | | T-21000 | Nose, NOS |
| SNM3 | | T-23000 | Nasopharynx, NOS |
| SNM3 | | T-24100 | Larynx, NOS |
| SNM3 | | T-25000 | Trachea, NOS |
| SNM3 | | T-26000 | Bronchus, NOS |
| SNM3 | | T-28000 | Lung, NOS |
| SNM3 | | T-32000 | Heart, NOS |
| SNM3 | | T-32100 | Atrium, NOS |
| SNM3 | | T-32400 | Ventricle, NOS |
| SNM3 | | T-51000 | Mouth, NOS |
| SNM3 | | T-53000 | Tongue, NOS |
| SNM3 | | T-55000 | Pharynx, NOS |
| SNM3 | | T-55300 | Hypopharynx, NOS |
| SNM3 | | T-56000 | Esophagus, NOS |
| SNM3 | | T-57000 | Stomach, NOS |
| SNM3 | | T-58200 | Duodenum, NOS |
| SNM3 | | T-58400 | Jejunum, NOS |
| SNM3 | | T-58600 | Ileum, NOS |
| SNM3 | | T-59300 | Colon, NOS |
| SNM3 | | T-59600 | Rectum, NOS |
| SNM3 | | T-60610 | Bile duct, NOS |
| SNM3 | | T-62000 | Liver, NOS |
| SNM3 | | T-63000 | Gallbladder, NOS |
| SNM3 | | T-65000 | Pancreas, NOS |
| SNM3 | | T-65010 | Pancreatic duct, NOS |
| SNM3 | | T-71000 | Kidney, NOS |
| SNM3 | | T-72000 | Renal pelvis, NOS |
| SNM3 | | T-72100 | Calyx, NOS |
| SNM3 | | T-73000 | Ureter, NOS |
| SNM3 | | T-74000 | Bladder, NOS |
| SNM3 | | T-75000 | Urethra, NOS |
| SNM3 | | T-81000 | Vulva, NOS |
| SNM3 | | T-82000 | Vagina, NOS |
| SNM3 | | T-83000 | Uterus, NOS |
| SNM3 | | T-87000 | Ovary, NOS |
| SNM3 | | T-91000 | Penis, NOS |
| SNM3 | | T-94000 | Testis, NOS |
| SNM3 | | T-98000 | Scrotum, NOS |

Table A.0-12: Context ID 4 Anatomic Region (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------|
| SNM3 | | T-A0100 | Brain, NOS |
| SNM3 | | T-A7010 | Spinal cord, NOS |
| SNM3 | | T-AA110 | Sclera, NOS |
| SNM3 | | T-AA200 | Cornea, NOS |
| SNM3 | | T-AA810 | Eyelid, NOS |
| SNM3 | | T-AB000 | Ear, NOS |
| SNM3 | | T-AB200 | External auditory canal, NOS |
| SNM3 | | T-B3000 | Adrenal gland, NOS |
| SNM3 | | T-B6000 | Thyroid, NOS |
| SNM3 | | T-B7000 | Parathyroid, NOS |
| SNM3 | | T-C3000 | Spleen, NOS |
| SNM3 | | T-D1100 | Head, NOS |
| SNM3 | | T-D1160 | Scalp, NOS |
| SNM3 | | T-D1200 | Face, NOS |
| SNM3 | | T-D1206 | Buccal region of face |
| SNM3 | | T-D1206 | Cheek, NOS |
| SNM3 | | T-D1212 | Hypoglossal |
| SNM3 | | T-D1600 | Neck, NOS |
| SNM3 | | T-D1603 | Submandibular area |
| SNM3 | | T-D1620 | Supraclavicular region of neck |
| SNM3 | | T-D2100 | Back, NOS |
| SNM3 | | T-D2220 | Shoulder, NOS |
| SNM3 | | T-D2310 | Flank, NOS |
| SNM3 | | T-D2500 | Hip, NOS |
| SNM3 | | T-D2600 | Buttock, NOS |
| SNM3 | | T-D2600 | Gluteal region |
| SNM3 | | T-D2700 | Perineum, NOS |
| SNM3 | | T-D3000 | Thorax, NOS |
| SNM3 | | T-D3300 | Mediastinum, NOS |
| SNM3 | | T-D4000 | Abdomen, NOS |
| SNM3 | | T-D4110 | Right upper quadrant of abdomen |
| SNM3 | | T-D4120 | Right lower quadrant of abdomen |
| SNM3 | | T-D4130 | Left upper quadrant of abdomen |
| SNM3 | | T-D4140 | Left lower quadrant of abdomen |
| SNM3 | | T-D4200 | Epigastric region |
| SNM3 | | T-D4240 | Hypogastric region |
| SNM3 | | T-D4240 | Suprapubic region |
| SNM3 | | T-D4450 | Omental bursa |
| SNM3 | | T-D4450 | Omentum, NOS |
| SNM3 | | T-D4450 | Retroperitoneum, NOS |
| SNM3 | | T-D4450 | Pelvis, NOS |
| SNM3 | | T-D6500 | Broad ligament, NOS |
| SNM3 | | T-D8100 | Axilla, NOS |
| SNM3 | | T-D8200 | Arm, NOS |
| SNM3 | | T-D8300 | Elbow, NOS |
| SNM3 | | T-D8700 | Hand, NOS |
| SNM3 | | T-D9100 | Thigh, NOS |
| SNM3 | | T-D9200 | Knee, NOS |
| SNM3 | | T-D9310 | Popliteal fossa |
| SNM3 | | T-D9400 | Leg, NOS |

Table A.0–12: Context ID 4 Anatomic Region (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|----------------------------|
| SNM3 | | T-D9700 | Foot, NOS |
| SNM3 | | A-04140 | Vascular graft |
| SNM3 | | G-A15A | Intra-articular |
| SNM3 | | T-21300 | Endo-nasal |
| SNM3 | | T-23050 | Endo-nasopharyngeal |
| SNM3 | | T-32000 | Endo-cardiac |
| SNM3 | | T-40000 | Endo-vascular |
| SNM3 | | T-41000 | Endo-arterial |
| SNM3 | | T-48000 | Endo-venous |
| SNM3 | | T-56000 | Endo-esophageal |
| SNM3 | | T-56000 | Intra-esophageal |
| SNM3 | | T-59600 | Endo-rectal |
| SNM3 | | T-71000 | Endo-renal |
| SNM3 | | T-73000 | Endo-ureteric |
| SNM3 | | T-74250 | Endo-vesical |
| SNM3 | | T-75000 | Endo-urethral |
| SNM3 | | T-82000 | Endo-vaginal |
| SNM3 | | T-D14000 | Intracranial |
| SNM3 | | T-D3000 | Intra-thoracic |
| SNM3 | | T-D3136 | Parasternal |
| SNM3 | | T-D3213 | Subxiphoid |
| SNM3 | | T-D4010 | Intra-abdominal |
| SNM3 | | T-D4210 | Subcostal |
| SNM3 | | T-D6221 | Intra-pelvic |
| SNM3 | | T-D4212 | Right hypochondriac region |
| SNM3 | | T-D4211 | Left hypochondriac region |
| SNM3 | | T-D2300 | Lumbar region |
| SNM3 | | T-D2342 | Right lumbar region |
| SNM3 | | T-D2340 | Left lumbar region |
| SNM3 | | T-D7000 | Inguinal region |
| SNM3 | | T-D7010 | Right inguinal region |
| SNM3 | | T-D7020 | Left inguinal region |
| SNM3 | | T-D4230 | Umbilical region |

Table A.0–13: Context ID 220 Measurement Range Concepts

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--|-----------------------------------|------------------------|--------------------------|
| INCLUDE CID 226 Population Statistical Descriptors | | | |
| INCLUDE CID 227 Sample Statistical Descriptors | | | |

Table A.0–14: Context ID 221 Measurement Range Concepts

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--|-----------------------------------|------------------------|--------------------------|
| INCLUDE CID 226 Population Statistical Descriptors | | | |
| INCLUDE CID 227 Sample Statistical Descriptors | | | |

Table A.0–15: Context ID 223 Normal Range Values

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | R-0038B | Normal Range Upper Limit |
| SRT | | R-10041 | Normal Range Lower Limit |

Table A.0–16: Context ID 225 Measurement Uncertainty Concepts

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--|
| SRT | | R-00363 | +/- , range of measurement uncertainty |
| SRT | | R-00364 | + , range of upper measurement uncertainty |
| SRT | | R-00362 | - , range of lower measurement uncertainty |

Table A.0–17: Context ID 226 Population Statistical Descriptors

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|-------------------------------------|
| SRT | | R-00337 | 95th Percentile Value of population |
| SRT | | R-00338 | 90th Percentile Value of population |
| SRT | | R-00346 | 1 Sigma Upper Value of population |
| SRT | | R-00387 | 2 Sigma Upper Value of population |
| SRT | | R-00317 | Mean Value of population |
| SRT | | R-00319 | Median Value of population |
| SRT | | R-00377 | 10th Percentile Value of population |
| SRT | | R-00397 | 5th Percentile Value of population |
| SRT | | R-00347 | 1 Sigma Lower Value of population |
| SRT | | R-00388 | 2 Sigma Lower Value of population |
| DCM | | 121414 | Standard deviation of population |
| DCM | | 121417 | 2 Sigma deviation of population |

Table A.0–18: Context ID 227 Sample Statistical Descriptors

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| DCM | | 121415 | Percentile Ranking of measurement |
| DCM | | 121416 | Z-Score of measurement |

Table A.0–19: Context ID 228 Equation or Table

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| DCM | | 121420 | Equation |
| DCM | | 121421 | Equation Citation |
| DCM | | 121424 | Table of Values |
| DCM | | 121422 | Table of Values Citation |
| DCM | | 121423 | Method Citation |

Table A.0–20: Context ID 244 Laterality

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | G-A100 | Right |
| SRT | | G-A101 | Left |
| SRT | | G-A102 | Right and left |
| SRT | | G-A103 | Unilateral |

Table A.0–21: Context ID 270 Observer Type

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| DCM | | 121006 | Person |
| DCM | | 121007 | Device |

Table A.0–22: Context ID 271 Observation Subject Class

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| DCM | | 121025 | Patient |
| DCM | | 121026 | Fetus |

Table A.0–22: Context ID 271 Observation Subject Class (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| DCM | | 121027 | Specimen |

Table A.0–23: Context ID 3627 Measurement Type

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | G-A437 | Maximum |
| SRT | | R-404FB | Minimum |
| SRT | | R-00317 | Mean |
| GEK | | 99006-0 | last |

Table A.0–24: Context ID 3627 Measurement Type

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | R-002E1 | Best value |
| SRT | | R-00317 | Mean |
| SRT | | R-00319 | Median |
| SRT | | R-0032E | Mode |
| SRT | | R-00355 | Point source measurement |
| SRT | | R-00353 | Peak to peak |
| SRT | | R-41D27 | Visual estimation |
| DCM | | 121427 | Estimated |
| DCM | | 121428 | Calculated |
| GEK | | 99006-0 | last |
| SRT | | G-A437 | Maximum |
| SRT | | R-404FB | Minimum |

Table A.0–25: Context ID 3745 Calculation Method

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| DCM | | 121427 | Estimated |
| DCM | | 121428 | Calculated |

Table A.0–26: Context ID 6140 Calculation Methods

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| DCM | | 121427 | Estimated |
| DCM | | 112187 | Unspecified method of calculation |
| DCM | | 112055 | Agatston scoring method |

Table A.0–27: Context ID 7452 Organizational Roles

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| DCM | | 121081 | Physician |
| DCM | | 121082 | Nurse |
| DCM | | 121083 | Technologist |
| DCM | | 121084 | Radiographer |
| DCM | | 121085 | Intern |
| DCM | | 121086 | Resident |
| DCM | | 121087 | Registrar |
| DCM | | 121088 | Fellow |
| DCM | | 121089 | Attending [Consultant] |
| DCM | | 121090 | Scrub nurse |
| DCM | | 121091 | Surgeon |
| DCM | | 121092 | Sonologist |
| DCM | | 121093 | Sonographer |
| DCM | | 121105 | Radiation Physicist |

Table A.0–28: Context ID 7453 Performing Roles

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| DCM | | 121094 | Performing |
| DCM | | 121095 | Referring |
| DCM | | 121096 | Requesting |
| DCM | | 121097 | Recording |
| DCM | | 121098 | Verifying |
| DCM | | 121099 | Assisting |
| DCM | | 121100 | Circulating |
| DCM | | 121101 | Standby |

Table A.0–29: Context ID 7454 Species

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SNM3 | | L-85B00 | homo sapiens |

Table A.0–30: Context ID 7455 Sex

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|----------------------------|
| DCM | | M | Male |
| DCM | | F | Female |
| DCM | | U | Unknown sex |
| DCM | | MP | Male Pseudohermaphrodite |
| DCM | | FP | Female Pseudohermaphrodite |
| DCM | | H | Hermaphrodite |
| DCM | | MC | Male changed to Female |
| DCM | | FC | Female changed to Male |
| DCM | | 121104 | Ambiguous sex |
| DCM | | 121102 | Other sex |
| DCM | | 121103 | Undetermined sex |

Table A.0–31: Context ID 7456 Units of Measure for Age

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
|--------------------------------------|-----------------------------------|------------------------|--------------------------|

Table A.0–32: Context ID 12003 OB-GYN DATES

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------|
| LN | | 11778-8 | EDD |
| LN | | 11779-6 | EDD from LMP |
| LN | | 11781-2 | EDD from average ultrasound age |
| LN | | 11780-4 | EDD from ovulation date |
| LN | | 11955-2 | LMP |
| LN | | 33066-2 | Estimated LMP by EDD |
| LN | | 11976-8 | Ovulation date |
| LN | | 33067-0 | Conception Date |
| GEK | | 99001-0 | Conception Date by GA |
| GEK | | 99001-1 | Conception Date from EDD |
| GEK | | 99002-0 | Day of Cycle |
| GEK | | 99002-1 | Day of Stimulation |

Table A.0-32: Context ID 12003 OB-GYN DATES (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|------------------------------------|
| GEK | | 99003-0 | EDD by GA |
| GEK | | 99003-1 | EDD from Conception Date |
| GEK | | 99004-0 | Expected Ovulation |
| GEK | | 99005-0 | Gestational Age |
| GEK | | 99005-1 | Gestational Age by Conception Date |
| GEK | | 99005-2 | Gestational Age by EDD |
| GEK | | 99005-3 | Gestational Age by LMP |
| GEK | | 99005-4 | Gestational Age by EFW |
| GEK | | 99007-0 | EDD from composite ultrasound age |

Table A.0-33: Context ID 12004 Fetal Biometry Ratios

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| LN | | 11947-9 | HC/AC |
| LN | | 11871-1 | FL/AC |
| LN | | 11872-9 | FL/BPD |
| LN | | 11823-2 | Cephalic Index |
| LN | | 11873-7 | FL/HC |
| GEK | | 99401-0 | Va/HEM |
| GEK | | 99402-0 | Vp/HEM |
| GEK | | 99403-0 | CC/TC |
| GEK | | 99404-0 | LHR LT |
| GEK | | 99405-0 | LHR RT |
| GEK | | 99406-0 | CVR LT |
| GEK | | 99407-0 | CVR RT |
| GEK | | 99408-0 | LTR |

Table A.0-34: Context ID 12005 Fetal Biometry Measurements

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------------|
| 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 | | 11824-0 | BPD area corrected |
| LN | | 11860-4 | Cisterna Magna |
| LN | | 11963-6 | Femur Length |
| LN | | 11965-1 | Foot length |
| LN | | 11984-2 | Head Circumference |
| LN | | 11851-3 | Occipital-Frontal Diameter |
| LN | | 11988-3 | Thoracic Circumference |

Table A.0-34: Context ID 12005 Fetal Biometry Measurements (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------------------|
| LN | | 33068-8 | Thoracic Area |
| LN | | 11862-0 | Tranverse Abdominal Diameter |
| LN | | 11863-8 | Trans Cerebellar Diameter |
| LN | | 11862-0 | Tranverse Abdominal Diameter |
| LN | | 11864-6 | Transverse Thoracic Diameter |
| LN | | 11853-9 | Left Kidney thickness |
| LN | | 11834-9 | Left Kidney length |
| LN | | 11825-7 | Left Kidney width |
| LN | | 11855-4 | Right Kidney thickness |
| LN | | 11836-4 | Right Kidney length |
| LN | | 11827-3 | Right Kidney width |
| GEK | | 99031-1 | Right Kidney Vol |
| GEK | | 99031-2 | Left Kidney Vol |
| SRT | | GD705 | Volume |
| LN | | 33191-8 | APAD * TAD |
| GEK | | 99502-0 | Abdominal Diameter |
| GEK | | 99503-0 | Binocular Distance |
| 99VP | | 990202-1 | EAR |
| GEK | | 99505-0 | Fetal Trunk Area |
| GEK | | 99506-0 | Min Abdominal Diameter |
| GEK | | 99507-0 | AxT (APTD * TTD) |
| GEK | | 99508-0 | nasal bone length |
| GEK | | 99509-0 | Fractional Limb Arm Volume |
| GEK | | 99510-0 | Fractional Limb Thigh Volume |
| GEK | | 99010-0 | Cardiac Circumference |
| GEK | | 99008-0 | Cavum Septum Pellucidum |
| LN | | 11792-7 | Follicle Diameter |
| GEK | | 99706-0 | Fibroid Diameter |
| GEK | | 99022-0 | Anterior-Posterior Thoracic Diameter |
| GEK | | 99023-0 | Transverse Cardiac Diameter |
| GEK | | 99024-0 | Max Vertical Pocket |
| GEK | | 99025-0 | Lt. Lung Area |
| GEK | | 99025-1 | Lt. Lung Area Trace |
| GEK | | 99025-2 | Lt. Lung Area Long Diameter |
| GEK | | 99025-5 | Lt. Lung Area UCSF |
| GEK | | 99026-0 | Lt. Lung CCAM D1 |
| GEK | | 99026-1 | Lt. Lung CCAM D2 |
| GEK | | 99026-2 | Lt. Lung CCAM D3 |
| GEK | | 99026-3 | Lt. Lung CCAM Vol |
| GEK | | 99027-0 | Rt. Lung Area |
| GEK | | 99027-1 | Rt. Lung Area Trace |
| GEK | | 99027-2 | Rt. Lung Area Long Diameter |
| GEK | | 99027-5 | Rt. Lung Area UCSF |
| GEK | | 99028-0 | Rt. Lung CCAM D1 |
| GEK | | 99028-1 | Rt. Lung CCAM D2 |
| GEK | | 99028-2 | Rt. Lung CCAM D3 |
| GEK | | 99028-3 | Rt. Lung CCAM Vol |
| GEK | | 99029-0 | Thorax Transverse Area |
| GEK | | 99033-0 | Cerebellar vermis sagittal AP Diam |
| GEK | | 99033-1 | Cerebellar vermis sagittal CC Diam |

Table A.0–34: Context ID 12005 Fetal Biometry Measurements (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------|
| GEK | | 99033-2 | Cerebellar vermis circumference |
| GEK | | 99033-3 | Cerebellar vermis area |
| GEK | | 99034-0 | Frontomaxillary facial angle |
| GEK | | 99035-0 | Mandibulomaxillary facial angle |

Table A.0–35: Context ID 12006 Fetal Long Bones Biometry Measurements

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| 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 |

Table A.0–36: Context ID 12007 Fetal Cranium

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
|--------------------------------------|-----------------------------------|------------------------|--------------------------|

Table A.0–37: Context ID 12008 OB-GYN Amniotic Sac

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| LN | | 11624-4 | First Quadrant Diameter |
| LN | | 11626-9 | Second Quadrant Diameter |
| LN | | 11625-1 | Third Quadrant Diameter |
| LN | | 11623-6 | Fourth Quadrant Diameter |
| SRT | | M-02550 | Diameter |
| LN | | 11627-7 | Amniotic Fluid Index |

Table A.0-38: Context ID 12009 Early Gestation Biometry Measurements

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| LN | | 11957-8 | Crown Rump Length |
| LN | | 11850-5 | Gestational Sac Diameter |
| LN | | 33071-2 | Spine Length |
| LN | | 11816-6 | Yolk Sac length |
| LN | | 33069-6 | Nuchal Translucency |
| 99GEK | | 99036-1 | Gestational Sac Diameter 3Dist D1 |
| 99GEK | | 99036-2 | Gestational Sac Diameter 3Dist D2 |
| 99GEK | | 99036-3 | Gestational Sac Diameter 3Dist D3 |

Table A.0-39: Context ID 12011 Ultrasound Pelvis and Uterus

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| LN | | 11961-0 | Cervix Length |
| LN | | 12145-9 | Endometrium Thickness |
| LN | | 11842-2 | Uterus Length |
| LN | | 11865-3 | Uterus Width |
| LN | | 11859-6 | Uterus Height |
| LN | | 33192-6 | Uterus Volume |
| LN | | 11840-6 | Left Ovary Length |
| LN | | 11829-9 | Left Ovary Width |
| LN | | 11857-0 | Left Ovary Height |
| LN | | 12164-0 | Left Ovary Volume |
| LN | | 11841-4 | Right Ovary Length |
| LN | | 11830-7 | Right Ovary Width |
| LN | | 11858-8 | Right Ovary Height |
| LN | | 12165-7 | Right Ovary Volume |
| GEK | | 99017-1 | Uterus Trace |
| GEK | | 99017-2 | Endometrium Trace |
| 99GEK | | 99017-3 | Wall Thickness |
| 99GEK | | 99017-4 | Int. Midline Ind. |
| 99GEK | | 99017-5 | Fund. Ind. Angle |

Table A.0-40: Context ID 12013 Gestational Age Equations and Tables

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| LN | | 11885-1 | Gestational Age by LMP |
| LN | | 11884-4 | Average Ultrasound Age |
| LN | | 11889-3 | AC, Campbell 1975 |
| LN | | 33537-2 | AC, Jeanty 1982 |
| LN | | 33077-9 | Abdominal Diameter, Lessoway 1998 |
| LN | | 11901-6 | BPDa, Hadlock 1982 |

Table A.0-40: Context ID 12013 Gestational Age Equations and Tables (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| LN | | 33086-0 | BPD-oi, Chitty 1997 |
| LN | | 33087-8 | BPD-oo, Chitty 1997 |
| LN | | 11918-0 | Fibula, Merz 1987 |
| GEK | | 99300-0 | AD, Marsal |
| LN | | 33072-0 | AC, ASUM 2000 |
| LN | | 11892-7 | AC, Hadlock 1984 |
| LN | | 33073-8 | AC, Hansmann1985 |
| LN | | 11893-5 | AC, Jeanty 1984 |
| LN | | 33075-3 | AC, Mertz 1988 |
| LN | | 33076-1 | AC, Shinozuka 1996 |
| GEK | | 99301-0 | AC, Tokyo |
| GEK | | 99301-1 | AC, JSUM 2001 |
| GEK | | 99301-2 | AC, Kurmanavicius |
| GEK | | 99301-3 | AC, Chitty |
| GEK | | 99301-4 | AC, Nicolaides |
| GEK | | 99301-5 | AC, Hobbins |
| GEK | | 99301-6 | AC, CFEF |
| GEK | | 99301-7 | AC, Lessoway |
| GEK | | 99301-8 | AC, Siriraj |
| GEK | | 99301-9 | AC, Leung |
| GEK | | 99302-0 | APAD, Merz |
| GEK | | 99303-0 | APTD, Hansmann |
| LN | | 33078-7 | AxT, Shinozuka 1996 |
| GEK | | 99323-0 | AxT, Tokyo |
| GEK | | 99304-0 | BOD, Jeanty |
| LN | | 33079-5 | BPD, ASUM 1989 |
| LN | | 11902-4 | BPD, Hadlock 1984 |
| LN | | 33538-0 | BPD, Hansmann 1986 |
| LN | | 11905-7 | BPD, Jeanty 1984 |
| LN | | 11906-5 | BPD, Kurtz 1980 |
| LN | | 33081-1 | BPD, Merz 1988 |
| LN | | 33082-9 | BPD, Osaka 1989 |
| LN | | 33083-7 | BPD, Rempen 1991 |
| LN | | 11907-3 | BPD, Sabbagha 1978 |
| LN | | 33084-5 | BPD, Shinozuka 1996 |
| LN | | 33085-2 | BPD, Tokyo 1986 |
| GEK | | 99305-0 | BPD, JSUM 2001 |
| GEK | | 99305-1 | BPD, Kurmanavicius |
| GEK | | 99305-2 | BPD, Chitty |
| GEK | | 99305-3 | BPD, Nicolaides |
| GEK | | 99305-4 | BPD, Hobbins |
| GEK | | 99305-5 | BPD, Campbell |
| GEK | | 99305-6 | BPD, CFEF |
| GEK | | 99305-7 | BPD, Johnsen |
| GEK | | 99305-8 | BPD, Marsal |
| GEK | | 99305-9 | BPD, ASUM-Old |
| GEK | | 99305-9 | BPD, Chitty_OI |
| GEK | | 99305-10 | BPD, Lessoway |
| GEK | | 99305-11 | BPD, Siriraj |
| GEK | | 99305-12 | BPD, Verburg |

Table A.0-40: Context ID 12013 Gestational Age Equations and Tables (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|------------------------------|
| GEK | | 99305-13 | BPD, McLennan |
| GEK | | 99305-14 | BPD, Eik-Nes |
| GEK | | 99305-15 | BPD, Leung |
| GEK | | 99306-0 | Cerebellum, Hill |
| GEK | | 99306-1 | Cerebellum, Chitty |
| GEK | | 99306-2 | Cerebellum, Goldstein |
| GEK | | 99306-3 | Cerebellum, Nicolaides |
| GEK | | 99306-4 | Cerebellum, Hobbins |
| LN | | 33089-4 | CRL, ASUM 1991 |
| LN | | 33090-2 | CRL, ASUM 2000 |
| LN | | 33091-0 | CRL, Daya 1993 |
| LN | | 11910-7 | CRL, Hadlock 1992 |
| LN | | 33540-6 | CRL, Hansmann 1986 |
| LN | | 11913-1 | CRL, Nelson 1981 |
| LN | | 33093-6 | CRL, Osaka 1989 |
| LN | | 33094-4 | CRL, Rempen 1991 |
| LN | | 11914-9 | CRL, Robinson 1975 |
| LN | | 33095-1 | CRL, Shinozuka 1996 |
| LN | | 33096-9 | CRL, Tokyo 1986 |
| GEK | | 99309-0 | CRL, JSUM 2001 |
| GEK | | 99309-1 | CRL, Marsal |
| GEK | | 99309-2 | CRL, Verburg |
| GEK | | 99309-3 | CRL, McLennan |
| GEK | | 99309-4 | CRL, Eik-Nes |
| GEK | | 99309-5 | CRL, Robinson BMUS |
| GEK | | 99309-6 | CRL, Sahota |
| GEK | | 99309-7 | CRL, Intergrowth21 |
| LN | | 33088-6 | Clavical length,Yarkoni 1985 |
| LN | | 33098-5 | FL, Chitty 1997 |
| LN | | 11920-6 | FL, Hadlock 1984 |
| LN | | 11921-4 | FL, Hansmann 1985 |
| LN | | 11922-2 | FL, Hohler 1982 |
| GEK | | 99310-0 | FL, Jeanty |
| GEK | | 99310-1 | FL, Merz |
| GEK | | 99310-2 | FL, Tokyo |
| GEK | | 99310-3 | FL, Warda |
| GEK | | 99310-4 | FL, JSUM 2001 |
| GEK | | 99310-5 | FL, Shinozuka 1996 |
| GEK | | 99310-6 | FL, Osaka |
| GEK | | 99310-7 | FL, Kurmanavicius |
| GEK | | 99310-8 | FL, ASUM 2000 |
| GEK | | 99310-9 | FL, Nicolaides |
| GEK | | 99310-10 | FL, Hobbins |
| GEK | | 99310-11 | FL, ASUMOLD |
| GEK | | 99310-12 | FL, CFEF |
| GEK | | 99310-13 | FL, Marsal |
| GEK | | 99310-14 | FL, OBRIEN |
| GEK | | 99310-15 | FL, Lessoway |
| GEK | | 99310-16 | FL, Siriraj |
| GEK | | 99310-17 | FL, Leung |

Table A.0–40: Context ID 12013 Gestational Age Equations and Tables (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------------|
| GEK | | 99311-0 | FTA, Osaka |
| LN | | 33097-7 | Fibula, Jeanty 1983 |
| GEK | | 99312-0 | GS, Rempen |
| GEK | | 99312-1 | GS, Hansmann |
| GEK | | 99312-2 | GS, Hollaender |
| GEK | | 99312-3 | GS, Hellman |
| GEK | | 99312-4 | GS, Tokyo |
| GEK | | 99313-0 | HC, Hadlock |
| GEK | | 99313-1 | HC, Hansmann |
| GEK | | 99313-2 | HC, Merz |
| GEK | | 99313-3 | HC, Jeanty |
| GEK | | 99313-4 | HC, Kurmanavicius |
| GEK | | 99313-5 | HC, ASUM |
| GEK | | 99313-6 | HC, Chitty |
| GEK | | 99313-7 | HC, Nicolaides |
| GEK | | 99313-8 | HC, CFEF |
| GEK | | 99313-9 | HC, JOHNSEN |
| GEK | | 99313-10 | HC, Lessoway |
| GEK | | 99313-11 | HC, Leung |
| GEK | | 99314-0 | HL, Jeanty |
| GEK | | 99314-1 | HL, Osaka |
| GEK | | 99314-2 | HL, ASUM |
| GEK | | 99314-3 | HL, Hobbins |
| GEK | | 99314-4 | HL, Merz |
| LN | | 33118-1 | Length of Vertebra, Tokyo 1986 |
| GEK | | 99316-0 | OFD, Hansmann |
| GEK | | 99316-1 | OFD, Jeanty |
| GEK | | 99316-2 | OFD, Kurmanavicius |
| GEK | | 99316-3 | OFD, ASUM |
| GEK | | 99316-4 | OFD, Chitty |
| GEK | | 99316-5 | OFD, Nicolaides |
| GEK | | 99316-6 | OFD, Merz |
| GEK | | 99317-0 | RAD, Jeanty |
| GEK | | 99317-1 | RAD, Merz |
| GEK | | 99318-0 | TAD, Merz |
| GEK | | 99318-1 | TAD, CFEF |
| GEK | | 99319-0 | TIB, Merz |
| GEK | | 99319-1 | TIB, Jeanty |
| GEK | | 99320-0 | TTD, Hansmann |
| GEK | | 99321-0 | ULNA, Jeanty |
| GEK | | 99321-1 | ULNA, Merz |
| GEK | | 99322-0 | MAD, Eik-Nes |
| GEK | | 99322-1 | MAD, Kurmanavicius |
| GEK | | 99322-2 | MAD, eSnurra |
| GEK | | 99323-0 | EFW, Hadlock |
| GEK | | 99323-1 | EFW, Tokyo |
| GEK | | 99323-2 | EFW, JSUM (2001) |
| GEK | | 99323-3 | EFW, Shinozuka |
| GEK | | 99323-4 | EFW, Osaka |
| GEK | | 99324-0 | HC/AC, Campbell 1977 |

Table A.0–40: Context ID 12013 Gestational Age Equations and Tables (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| GEK | | 99324-1 | FL/HC, Hadlock 1984 |
| GEK | | 99324-2 | HSV _a /HEM, Hansmann |
| GEK | | 99324-3 | HSV _a /HEM, Nicolaides |
| GEK | | 99324-4 | HSV _p /HEM, Nicolaides |
| GEK | | 99324-5 | LHR LT, Peralta |
| GEK | | 99324-6 | LHR RT, Peralta |
| GEK | | 99326-0 | BPD, Eik-Nes 1st Tri. |
| GEK | | 99329-0 | FL, Johnsen |
| GEK | | 99329-1 | FL, Eik-Nes |

Table A.0–41: Context ID 12014 OB Fetal Body Weight Equations and Tables

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------------|
| LN | | 11734-1 | EFW by AC, BPD, FL, Hadlock 1984 |
| LN | | 11750-7 | EFW by AC, FL, Hadlock 1984 |
| LN | | 11754-9 | EFW by AC, HC Hadlock 1984 |
| LN | | 33140-5 | EFW by BPD, FTA, FL, Osaka 1990 |
| LN | | 11756-4 | EFW by AC, Campbell 1975 |
| LN | | 11738-2 | EFW by AC, BPD, Hadlock 1984 |
| LN | | 11735-8 | EFW by AC, BPD, FL, Hadlock 1985 |
| LN | | 11732-5 | EFW by AC, BPD, FL, HC, Hadlock 1985 |
| LN | | 11751-5 | EFW by AC, FL, Hadlock 1985 |
| LN | | 11746-5 | EFW by AC, FL, HC, Hadlock 1985 |
| LN | | 33139-7 | EFW by BPD, TTD, Hansmann 1986 |
| LN | | 11739-0 | EFW by AC and BPD, Shepard 1982 |
| LN | | 33141-3 | EFW ₁ by Shinozuka 1996 |
| LN | | 33142-1 | EFW ₂ by Shinozuka 1996 |
| LN | | 33143-9 | EFW ₃ by Shinozuka 1996 |
| LN | | 33144-7 | EFW by BPD, APAD, TAD, FL, Tokyo 1987 |
| GEK | | 99007-4 | EFW by AC, BPD Merz |
| GEK | | 99007-1 | EFW by BPD, FL, MAD by Persson |
| GEK | | 99007-2 | EFW by BPD, MAD by Persson |
| GEK | | 99007-3 | EFW by BPD, MAD by Schild |
| GEK | | 99007-5 | EFW by AVol Lee |
| GEK | | 99007-6 | EFW by AVol, AC Lee |
| GEK | | 99007-7 | EFW by AVol, AC, BPD Lee |
| GEK | | 99007-8 | EFW by TVol Lee |
| GEK | | 99007-9 | EFW by TVol, AC Lee |
| GEK | | 99007-10 | EFW by TVol, AC, BPD Lee |
| 99GEK | | 99007-11 | EFW by AC, HC Intergrowth21 |

Table A.0-42: Context ID 12015 Fetal Growth Equations and Tables

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|------------------------------------|
| LN | | 33546-3 | AC (derived) by GA, Chitty 1994 |
| LN | | 33556-2 | BPD outer-inner by GA, Chitty 1994 |
| LN | | 33152-0 | BPD outer-outer by GA, Chitty 1994 |
| LN | | 33157-9 | Cephalic Index by GA, Chitty 1994 |
| LN | | 33158-7 | Cephalic Index by GA, Hadlock 1981 |
| LN | | 33163-7 | EFW by GA, Hansmann 1986 |
| LN | | 33181-9 | TCD by GA Goldstein 1987 |
| GEK | | 99200-0 | AD, Marsal |
| LN | | 33145-4 | AC by GA, ASUM 2000 |
| LN | | 33146-2 | AC by GA, Hadlock 1984 |
| LN | | 33147-0 | AC (measured) by GA, Chitty 1994 |
| LN | | 33148-8 | AC by GA, Merz 1988 |
| LN | | 33149-6 | AC by GA, Shinozuka 1996 |
| GEK | | 99201-0 | AC by GA, Hansmann |
| GEK | | 99201-1 | AC by GA, Tokyo |
| GEK | | 99201-2 | AC by GA, JSUM 2001 |
| GEK | | 99201-3 | AC by GA, Jeanty |
| GEK | | 99201-4 | AC by GA, Kurmanavicius |
| GEK | | 99201-5 | AC by GA, Nicolaides |
| GEK | | 99201-6 | AC by GA, CFEF |
| GEK | | 99201-7 | AC by GA, Lessoway |
| GEK | | 99201-8 | AC by GA, Verburg |
| GEK | | 99201-9 | AC by GA, Jacot-Guillarmod |
| GEK | | 99201-10 | AC by GA, Siriraj |
| GEK | | 99201-11 | AC by GA, Lai |
| GEK | | 99201-12 | AC by GA, Leung |
| GEK | | 99202-0 | APAD by GA, Merz |
| GEK | | 99203-0 | APTD by GA, Hansmann |
| GEK | | 99204-0 | BOD by GA, Jeanty |
| LN | | 33151-2 | BPD by GA, ASUM 2000 |
| LN | | 33198-3 | BPD by GA, Hadlock 1984 |
| LN | | 33154-6 | BPD by GA, Merz 1988 |
| LN | | 33156-1 | BPD by GA, Shinozuka 1996 |
| LN | | 33153-8 | BPD by GA, Jeanty 1982 |
| LN | | 33155-3 | BPD by GA, Rempen 1991 |
| GEK | | 99205-0 | BPD by GA, Hansmann |
| GEK | | 99205-1 | BPD by GA, Sabbagha |
| GEK | | 99205-2 | BPD by GA, Tokyo |
| GEK | | 99205-3 | BPD by GA, JSUM 2001 |
| GEK | | 99205-4 | BPD by GA, Osaka |
| GEK | | 99205-5 | BPD by GA, Kurmanavicius |
| GEK | | 99205-6 | BPD by GA, Chitty |
| GEK | | 99205-7 | BPD by GA, Nicolaides |
| GEK | | 99205-8 | BPD by GA, Campbell |
| GEK | | 99205-9 | BPD by GA, CFEF |
| GEK | | 99205-10 | BPD by GA, Marsal |
| GEK | | 99205-11 | BPD by GA, Chitty_OI |
| GEK | | 99205-12 | BPD by GA, Lessoway |
| GEK | | 99205-13 | BPD by GA, Jacot-Guillarmod |
| GEK | | 99205-14 | BPD by GA, Siriraj |

Table A.0-42: Context ID 12015 Fetal Growth Equations and Tables (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|------------------------------------|
| GEK | | 99205-15 | BPD by GA, Verburg |
| GEK | | 99205-16 | BPD by GA, McLennan |
| GEK | | 99205-17 | BPD by GA, Eik-Nes |
| GEK | | 99205-18 | BPD by GA, Lai |
| GEK | | 99205-19 | BPD by GA, Leung |
| GEK | | 99206-0 | Cerebellum by GA, Hill |
| GEK | | 99206-1 | Cerebellum by GA, Goldstein |
| GEK | | 99206-2 | Cerebellum by GA, Nicolaides |
| GEK | | 99206-3 | Cerebellum by GA, Jacot-Guillarmod |
| GEK | | 99206-4 | Cerebellum by GA, Verburg |
| GEK | | 99207-0 | Clavicle by GA, Yarkoni |
| GEK | | 99208-0 | CM by GA, Nicolaides |
| LN | | 33159-5 | CRL by GA ASUM 2000 |
| LN | | 33161-1 | CRL by GA, Shinozuka 1996 |
| LN | | 33160-3 | CRL by GA, Rempen1991 |
| GEK | | 99209-0 | CRL by GA, Hansmann |
| GEK | | 99209-1 | CRL by GA, Hadlock |
| GEK | | 99209-2 | CRL by GA, Robinson |
| GEK | | 99209-3 | CRL by GA, Tokyo |
| GEK | | 99209-4 | CRL by GA, JSUM 2001 |
| GEK | | 99209-5 | CRL by GA, Osaka |
| GEK | | 99209-6 | CRL by GA, Marsal |
| GEK | | 99209-7 | CRL by GA, McLennan |
| GEK | | 99209-8 | CRL by GA, Robinson1993 |
| GEK | | 99209-9 | CRL by GA, Pexsters |
| LN | | 33165-2 | FL by GA, ASUM 2000 |
| LN | | 33166-0 | FL by GA, Hadlock 1984 |
| LN | | 33167-8 | FL by GA, Chitty 1994 |
| LN | | 33168-6 | FL by GA, Jeanty 1982 |
| LN | | 33169-4 | FL by GA, Merz 1988 |
| LN | | 33170-2 | FL by GA, Shinozuka 1996 |
| GEK | | 99210-0 | FL by GA, Hansmann |
| GEK | | 99210-1 | FL by GA, Tokyo |
| GEK | | 99210-2 | FL by GA, Warda |
| GEK | | 99210-3 | FL by GA, JSUM 2001 |
| GEK | | 99210-4 | FL by GA, Osaka |
| GEK | | 99210-5 | FL by GA, Kurmanavicius |
| GEK | | 99210-6 | FL by GA, Nicolaides |
| GEK | | 99210-7 | FL by GA, CFEF |
| GEK | | 99210-8 | FL by GA, Marsal |
| GEK | | 99210-9 | FL by GA, OBRIEN |
| GEK | | 99210-10 | FL by GA, Lessoway |
| GEK | | 99210-11 | FL by GA, ASUMOLD |
| GEK | | 99210-12 | FL by GA, Chitty 2002 |
| GEK | | 99210-13 | FL by GA, Jacot-Guillarmod |
| GEK | | 99210-14 | FL by GA, Siriraj |
| GEK | | 99210-15 | FL by GA, Verburg |
| GEK | | 99210-16 | FL by GA, Lai |
| GEK | | 99210-17 | FL by GA, Leung |
| GEK | | 99211-0 | FTA by GA, Osaka |

Table A.0-42: Context ID 12015 Fetal Growth Equations and Tables (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------|
| LN | | 33171-0 | GS by GA, Rempen 1991 |
| GEK | | 99212-0 | GS by GA, Hollaender |
| GEK | | 99212-1 | GS by GA, Hellman |
| GEK | | 99212-2 | GS by GA, Tokyo |
| GEK | | 99212-3 | GS by GA, Nyberg |
| LN | | 33172-8 | HC by GA, ASUM 2000 |
| LN | | 33173-6 | HC by GA, Hadlock 1984 |
| LN | | 33174-4 | HC derived by GA, Chitty 1994 |
| LN | | 33175-1 | HC by GA, Jeanty 1982 |
| LN | | 33176-9 | HC by GA, Merz 1988 |
| GEK | | 99213-0 | HC by GA, Hansmann |
| GEK | | 99213-1 | HC by GA, Kurmanavicius |
| GEK | | 99213-2 | HC by GA, Nicolaides |
| GEK | | 99213-3 | HC by GA, CFEF |
| GEK | | 99213-4 | HC by GA, Lessoway |
| GEK | | 99213-5 | HC by GA, Jacot-Guillarmod |
| GEK | | 99213-6 | HC by GA, Siriraj |
| GEK | | 99213-7 | HC by GA, Verburg |
| GEK | | 99213-8 | HC by GA, Lai |
| GEK | | 99213-9 | HC by GA, Leung |
| LN | | 33177-7 | Humerus Length by GA, ASUM 2000 |
| GEK | | 99214-0 | HL by GA, Jeanty |
| GEK | | 99214-1 | HL by GA, Osaka |
| GEK | | 99214-2 | HL by GA, Merz |
| GEK | | 99214-3 | HL by GA, Chitty 2002 |
| GEK | | 99214-4 | HL by GA, Siriraj |
| GEK | | 99214-5 | HL by GA, Lai |
| LN | | 33178-5 | OFD by GA, ASUM 2000 |
| LN | | 33179-3 | OFD by GA, Chitty 1994 |
| GEK | | 99216-0 | OFD by GA, Hansmann |
| GEK | | 99216-1 | OFD by GA, Jeanty |
| GEK | | 99216-2 | OFD by GA, Kurmanavicius |
| GEK | | 99216-3 | OFD by GA, Nicolaides |
| GEK | | 99216-4 | OFD by GA, Merz |
| LN | | 33180-1 | Radius by GA, Jeanty 1983 |
| GEK | | 99217-0 | RAD by GA, Merz |
| GEK | | 99217-1 | RAD by GA, Chitty 2002 |
| GEK | | 99217-2 | RAD by GA, Siriraj |
| GEK | | 99218-0 | TAD by GA Merz |
| GEK | | 99218-1 | TAD by GA CFEF |
| GEK | | 99218-2 | TAD by GA, Jacot-Guillarmod |
| GEK | | 99219-0 | TIB by GA Jeanty |
| GEK | | 99219-1 | TIB by GA Merz |
| GEK | | 99219-2 | TIB by GA, Chitty 2002 |
| GEK | | 99219-3 | TIB by GA, Siriraj |
| GEK | | 99220-0 | TTD by GA Hansmann |
| GEK | | 99221-0 | ULNA by GA Jeanty |
| GEK | | 99221-1 | ULNA by GA Merz |
| GEK | | 99221-2 | ULNA by GA, Chitty 2002 |
| GEK | | 99221-3 | ULNA by GA, Siriraj |

Table A.0-42: Context ID 12015 Fetal Growth Equations and Tables (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--|
| GEK | | 99222-0 | MAD by GA Eik-Nes |
| GEK | | 99222-1 | MAD by GA Kurmanavicius |
| GEK | | 99222-2 | MAD by GA eSnurra |
| LN | | 33150-4 | AxT by GA, Shinozuka 1996 |
| GEK | | 99223-0 | AxT by GA, Tokyo |
| GEK | | 99224-0 | NBL by GA, Sonek |
| GEK | | 99224-1 | NBL by GA, Bunduki |
| GEK | | 99225-0 | Length of Vertebra by GA, Tokyo |
| LN | | 33164-5 | Fibula by GA, Jeanty 1983 |
| GEK | | 99226-0 | Fibula by GA, Chitty 2002 |
| GEK | | 99226-1 | Fibula by GA, Siriraj |
| GEK | | 99227-0 | Foot by GA, Chitty 2002 |
| GEK | | 99228-0 | AVol by GA, Lee |
| GEK | | 99229-0 | TVol by GA, Lee |
| GEK | | 99230-0 | TC by GA, Chitkara |
| GEK | | 99231-0 | AC by GA, Johnsen |
| GEK | | 99232-0 | HC by GA, Johnsen |
| GEK | | 99233-0 | FL by GA, Johnsen |
| GEK | | 99233-1 | FL by GA, Eik-Nes |
| GEK | | 99234-0 | Lungarea Lt. by GA, Peralta |
| GEK | | 99235-0 | Lungarea Rt. by GA, Peralta |
| LN | | 33183-5 | FWP by GA, Hadlock 1991 |
| LN | | 33184-3 | FWP by GA, Williams, 1982 |
| LN | | 33185-0 | FWP by GA, Alexander, 1996 |
| LN | | 33189-2 | FWP by GA, Brenner 1976 |
| GEK | | 99601-0 | FWP by GA, Hansmann, 1986 |
| GEK | | 99602-0 | FWP by GA, Hansmann, 1986 |
| GEK | | 99603-0 | FWP by GA, Tokyo |
| GEK | | 99604-0 | FWP by GA, JSUM, 2001 |
| GEK | | 99605-0 | FWP by GA, Persson, 1996 |
| GEK | | 99606-0 | FWP by GA, Shinozuka, 1996 |
| GEK | | 99606-1 | FWP by GA, Shinozuka, 1996 |
| GEK | | 99607-0 | FWP by GA, Osaka, 1990 |
| GEK | | 99608-0 | FWP by GA, Persson, 1998 |
| GEK | | 99609-0 | FWP by GA, Persutte/Hobbins, 1998 |
| GEK | | 99610-0 | Twins monochorionic FWP by GA, YARKONI, 1987 |
| GEK | | 99611-0 | FWP by GA, DOUBILET, 1997 |
| GEK | | 99612-0 | Twins monochorionic FWP by GA, Ananth, 1998 |
| GEK | | 99613-0 | Twins dichorionic FWP by GA, Ananth Twins(D), 1998 |
| GEK | | 99614-0 | FWP by GA, Rousseau, 2008 |
| GEK | | 99615-0 | FWP by GA, Johnsen, 2006 |
| GEK | | 99616-0 | Male FWP by GA, Johnsen, 2006 |
| GEK | | 99617-0 | Female FWP by GA, Johnsen, 2006 |
| GEK | | 99618-0 | Male FWP by GA, Kramer, 2001 |
| GEK | | 99619-0 | Female FWP by GA, Kramer, 2001 |
| GEK | | 99620-0 | FWP by GA, Gjessing, 2007 |
| GEK | | 99621-0 | FWP by GA, CFEF, 2015 |
| GEK | | 99622-0 | Male FWP by GA, Ego, 2016 |
| GEK | | 99622-1 | Female FWP by GA, Ego, 2016 |

Table A.0-42: Context ID 12015 Fetal Growth Equations and Tables (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------------|
| GEK | | 99622-2 | FWP by GA, Ego, 2016 |
| GEK | | 99622-3 | FWP by GA, Intergrowth21, 2016 |
| GEK | | 99622-4 | FWP by GA, WHO, 2017 |

Table A.0-43: Context ID 12017 Growth Distribution Rank

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| DCM | | 125012 | Growth Percentile Rank |
| DCM | | 125013 | Growth Z-score |

Table A.0-44: Context ID 12018 OB-GYN SUMMARY

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| LN | | 11878-6 | Number of Fetuses |
| LN | | 11886-9 | Gestational Age by ovulation date |

Table A.0-45: Context ID 12019 OB-GYN FETUS SUMMARY

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| LN | | 18185-9 | Gestational Age |
| LN | | 11888-5 | Composite Ultrasound Age |
| LN | | 11885-1 | Gestational Age by LMP |
| LN | | 11727-5 | Estimated Weight |
| LN | | 11767-1 | EFW percentile rank |
| LN | | 11948-7 | Fetal Heart Rate |
| LN | | 11884-4 | Average Ultrasound Age |
| LN | | 11781-2 | EDD from average ultrasound age |
| GEK | | 99007-0 | EDD from composite ultrasound age |
| GEK | | 99021-0 | Atrial Fetal Heart Rate |

Table A.0-46: Context ID 12101 Vascular Summary

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | 121101 | Comment |

Table A.0-47: Context ID 12104 Extracranial Arteries

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | T-45170 | Carotid Bulb |
| SRT | | T-45100 | Common Carotid Artery |
| SRT | | T-45200 | External Carotid Artery |
| SRT | | T-45300 | Internal Carotid Artery |
| SRT | | T-46100 | Subclavian Artery |
| SRT | | T-45700 | Vertebral Artery |
| GEK | | 99102 | Carotid Vessel |

Table A.0-48: Context ID 12105 Intracranial Cerebral Vessels

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------------|
| SRT | | T-45540 | Anterior Cerebral Artery |
| SRT | | T-45530 | Anterior Communicating Artery |
| SRT | | T-45600 | Middle Cerebral Artery |
| SRT | | T-45900 | Posterior Cerebral Artery |
| SRT | | T-45320 | Posterior Communicating Artery |

Table A.0-49: Context ID 12106 Intracranial Cerebral Vessels (unilateral)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | T-45800 | Basilar Artery |

Table A.0-50: Context ID 12107 Upper Extremity Arteries

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | T-46010 | Innominate Artery |

Table A.0–50: Context ID 12107 Upper Extremity Arteries (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| SRT | | T-47340 | Deep Palmar Arch of Radial Artery |
| SRT | | T-47200 | Ulnar Artery |
| SRT | | T-47300 | Radial Artery |
| SRT | | T-47160 | Brachial Artery |
| SRT | | T-47100 | Axillary Artery |
| SRT | | T-46100 | Subclavian Artery |
| SRT | | T-47240 | Superficial Palmar Arch |

Table A.0–51: Context ID 12108 Upper Extremity Veins

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | T-49250 | Median Cubital vein |
| SRT | | T-49350 | Brachial vein |
| SRT | | T-48052 | Basilic vein |
| SRT | | T-49240 | Cephalic vein |
| SRT | | T-49110 | Axillary vein |
| SRT | | T-48330 | Subclavian vein |
| SRT | | T-48620 | Innominate vein |
| SRT | | T-48170 | Internal Jugular vein |
| SRT | | T-49340 | Radial vein |
| SRT | | T-49330 | Ulnar vein |

Table A.0–52: Context ID 12109 Lower Extremity Arteries

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|----------------------------|
| SRT | | T-46710 | Common Iliac Artery |
| SRT | | T-46910 | External Iliac Artery |
| SRT | | T-46740 | Internal Iliac Artery |
| SRT | | T-47400 | Common Femoral Artery |
| SRT | | T-47440 | Profunda Femoris Artery |
| SRT | | T-47403 | Superficial Femoral Artery |
| SRT | | T-47500 | Popliteal Artery |
| SRT | | T-47700 | Anterior Tibial Artery |
| SRT | | T-47600 | Posterior Tibial Artery |
| SRT | | T-47630 | Peroneal Artery |
| SRT | | T-47741 | Dorsalis Pedis Artery |

Table A.0–53: Context ID 12110 Lower Extremity Veins

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | T-49630 | Anterior Tibial Vein |
| SRT | | G-035B | Common Femoral Vein |
| SRT | | T-48920 | Common Iliac Vein |
| SRT | | T-49660 | Profunda Femoris Vein |
| SRT | | T-48930 | External Iliac Vein |
| SRT | | G-035A | Superficial Femoral Vein |
| SRT | | T-49530 | Great Saphenous Vein |
| SRT | | T-49550 | Lesser Saphenous Vein |
| SRT | | T-49650 | Peroneal Vein |
| SRT | | T-49640 | Popliteal Vein |
| SRT | | T-49620 | Posterior Tibial Vein |

Table A.0–54: Context ID 12111 Abdominal Arteries (lateral)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | T-46640 | Accessory Renal Artery |
| SRT | | T-46410 | Gastric Artery |
| SRT | | T-46421 | Common Hepatic Artery |
| SRT | | T-46980 | Ovarian Artery |
| SRT | | T-46970 | Testicular Artery |
| SRT | | T-88810 | Umbilical Artery |
| SRT | | T-46820 | Uterine Artery |
| SNM3 | | T-F1810 | Umbilical artery |

Table A.0–55: Context ID 12112 Abdominal Arteries (unilateral)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|----------------------------|
| SRT | | T-46400 | Celiac Axis |
| SRT | | T-46510 | Superior Mesenteric Artery |

Table A.0–56: Context ID 12114 Abdominal Veins (unilateral)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | T-48710 | Inferior Vena Cava |

Table A.0-57: Context ID 12115 Renal Vessels

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|------------------------------|
| SRT | | T-46600 | Renal Artery |
| SRT | | T-48740 | Renal Vein |
| SRT | | T-46659 | Segmental Artery |
| SRT | | T-4667D | Interlobar Artery of Kidney |
| SRT | | T-4668A | Arcuate Artery of the Kidney |

Table A.0-58: Context ID 12119 Vascular Ultrasound Property

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|---|-----------------------------------|------------------------|--------------------------|
| INCLUDE CID 12120 Blood Velocity Measurements | | | |
| INCLUDE CID 12121 Vascular Indices and Ratios | | | |
| INCLUDE CID 12122 Other Vascular Properties | | | |

Table A.0-59: Context ID 12120 Blood Velocity Measurements

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------|
| LN | | 11653-3 | End Diastolic Velocity |
| LN | | 11665-7 | Minimum Diastolic Velocity |
| LN | | 11726-7 | Peak Systolic Velocity |
| LN | | 20352-1 | Time averaged mean velocity |
| LN | | 11692-1 | Time averaged peak velocity |

Table A.0-60: Context ID 12121 Vascular Indices and Ratios

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------------------|
| LN | | 20167-3 | Acceleration Index |
| SRT | | G-0371 | % Area Reduction |
| SRT | | G-0372 | % Diameter Reduction |
| LN | | 12008-9 | Pulsatility Index |
| LN | | 12023-8 | Resistivity Index |
| LN | | 12144-2 | Systolic to Diastolic Velocity Ratio |
| LN | | 33867-3 | Velocity ratio |
| GEK | | 99500-0 | Pressure Gradient mean |
| GEK | | 99013-0 | Peak velocity index for veins |

Table A.0–60: Context ID 12121 Vascular Indices and Ratios (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------------------|
| GEK | | 99013-1 | Preload Index |
| GEK | | 99013-2 | Diastolic to Systolic Velocity Ratio |
| GEK | | 99013-3 | Pulsatility index for veins |
| SRT | | R-101BA | Lumen Area Stenosis |
| SRT | | R-101BB | Lumen Diameter Stenosis |
| GEK | | 99108 | M-Mode Lumen Diameter Stenosis |

Table A.0–61: Context ID 12122 Other Vascular Properties

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------------|
| LN | | 20168-1 | Acceleration Time |
| LN | | 20217-6 | Deceleration Time |
| SRT | | G-0364 | Vessel lumen diameter |
| SRT | | G-0365 | Vessel outside diameter |
| LN | | 20354-7 | Velocity Time Integral |
| LN | | 8867-4 | Heart Rate |
| GEK | | 99501-0 | Cycle Time |
| GEK | | 99012-0 | Peak Diastolic Velocity |
| SNM3 | | M-02550 | Diameter |
| LN | | 20352-1 | Mean Velocity |
| GEK | | 99010-0 | Venous Flow |
| GEK | | 99018-1 | TPV |
| GEK | | 99103 | Stenosis Lumen Area |
| GEK | | 99104 | Stenosis Lumen Diameter |
| 99GEMS | | GEU-1004-49 | Volume Flow Diameter |
| GEK | | 99105 | M-Mode Cycle Time |
| GEK | | 99106 | M-Mode Heart Rate |
| GEK | | 99107 | M-Mode vessel lumen diameter |
| GEK | | 99109 | M-Mode Stenosis Lumen Diameter |
| GEK | | 99110-0 | Intima Media Thickness |
| GEK | | 99110-1 | M-Mode Intima Media Thickness |

Table A.0–62: Context ID 12123 Carotid Ratios

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------|
| LN | | 33868-1 | ICA/CCA velocity ratio |
| GEK | | 99100-1 | PS ICA/CCA velocity ratio |
| GEK | | 99100-2 | ED ICA/CCA velocity ratio |

Table A.0-63: Context ID 12140 Pelvic Vasculature Anatomical Location

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|------------------------------|
| SRT | | T-F1810 | Umbilical Artery |
| SRT | | T-F1820 | Umbilical Vein |
| SRT | | T-46980 | Ovarian Artery |
| SRT | | T-48780 | Ovarian Vein |
| SRT | | T-46820 | Uterine Artery |
| SRT | | T-49010 | Uterine Vein |
| SRT | | T-F1412 | Vitelline Artery of Placenta |
| SRT | | T-F1413 | Vitelline Vein of Placenta |
| SRT | | T-46710 | Common Iliac Artery |
| 99VP | | VP-0001 | Ductus Venosus |
| SRT | | T-40003 | Entire Vessel |
| SNM3 | 3.4 | T-45010 | Carotid Artery |
| 99VP | | VP-0004 | Ductus Arteriosus |
| GEK | | 99918-1 | Umbilical Artery |
| GEK | | 99918-2 | Inferior Vena Cava |

Table A.0-64: Context ID 12141 Fetal Vasculature Anatomical Location

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | T-42000 | Aorta |
| SRT | | T-D0765 | Descending Aorta |
| SRT | | T-45600 | Middle Cerebral Artery |
| SRT | | T-48581 | Pulmonary Vein |
| SRT | | T-44000 | Pulmonary Artery |

Table A.0-65: Context ID 12200 Echocardiography Left Ventricle

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| | | | INCLUDE CID 12201 Left Ventricle Linear |
| | | | INCLUDE CID 12240 Left Ventricle Area |
| | | | INCLUDE CID 12202 Left Ventricle Volume |
| | | | INCLUDE CID 12222 Orifice Flow Properties |
| | | | INCLUDE CID 12203 Left Ventricle Other |
| | | | INCLUDE CID 12239 Cardiac Output Properties |

Table A.0-66: Context ID 12201 Left Ventricle Linear

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| LN | | 29436-3 | Left Ventricle Internal End Diastolic Dimension |
| LN | | 29438-9 | Left Ventricle Internal Systolic Dimension |
| LN | | 18051-3 | Left Ventricular Fractional Shortening |
| LN | | 18154-5 | Interventricular Septum Diastolic Thickness |
| LN | | 18155-2 | Interventricular Septum to Posterior Wall Thickness Ratio |
| LN | | 18054-7 | Interventricular Septum % Thickening |
| LN | | 18158-6 | Interventricular Septum Systolic Thickness |
| LN | | 18053-9 | Left Ventricle Posterior Wall % Thickening |
| LN | | 18077-8 | Left Ventricle diastolic major axis |
| LN | | 18076-0 | Left Ventricle systolic major axis |
| LN | | 18156-0 | Left Ventricle Posterior Wall Systolic Thickness |
| LN | | 18152-9 | Left Ventricle Posterior Wall Diastolic Thickness |
| SRT | | G-0377 | Left Ventricle Semi-major Axis Diastolic Dimension |
| SRT | | G-0378 | Left Ventricle Truncated Semi-major Axis Diastolic Dimension |
| GEK | | .99157 | Left Ventricle Endocardial Length |

Table A.0-67: Context ID 12202 Left Ventricle Volume

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------------|
| LN | | 18026-5 | Left Ventricular End Diastolic Volume |
| LN | | 18148-7 | Left Ventricular End Systolic Volume |
| LN | | 18043-0 | Left Ventricular Ejection Fraction |

Table A.0-68: Context ID 12203 Left Ventricle Other

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| LN | | 18087-7 | Left Ventricle Mass |
| LN | | 18071-1 | Left Ventricular Isovolumic Relaxation Time |
| SRT | | G-037E | Left Ventricular Isovolumic Contraction Time |
| SRT | | G-037A | Left Ventricular Peak Early Diastolic Tissue Vel |
| SRT | | G-037B | Ratio of MV Peak Velocity to LV Peak Tissue Velo |
| SRT | | G-037C | LV Peak Diastolic Tissue Velocity During Atrial |
| SRT | | G-037D | Left Ventricular Peak Systolic Tissue Velocity |
| SRT | | G-037F | Left Ventricular Index of Myocardial Performance |
| GEK | | 99159 | Left Ventricle Ejection Time |
| GEK | | 99165-1 | Left Ventricle to Right Ventricular Internal Systolic Dimension Ratio |
| GEK | | 99165-2 | Left Ventricle to Right Ventricular Internal Diastolic Dimension Ratio |

Table A.0–69: Context ID 12204 Echocardiography Right Ventricle

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| | | | INCLUDE CID 12222 Orifice Flow Properties |
| SRT | | F-04FD8 | RV Stroke Volume |
| SRT | | F-04FA5 | RV Cardiac Output |
| SRT | | F-04F84 | RV Cardiac Index |
| SRT | | F-04FE5 | RV Stroke Index |
| LN | | 20304-2 | Right Ventricular Internal Diastolic Dimension |
| LN | | 20305-9 | Right Ventricular Internal Systolic Dimension |
| SRT | | G-0381 | Right Ventricular Index of Myocardial Performance |
| SRT | | G-0380 | Right Ventricular Peak Systolic Pressure |
| LN | | 18153-7 | Right Ventricular Anterior Wall Diastolic Thickness |
| LN | | 18157-8 | Right Ventricular Anterior Wall Systolic Thickness |

Table A.0–70: Context ID 12205 Echocardiography Left Atrium

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| LN | | 29469-4 | Left Atrium Antero-posterior Systolic Dimension |
| LN | | 17985-3 | Left Atrium to Aortic Root Ratio |
| LN | | 29486-8 | Left Atrial Appendage Peak Velocity |
| LN | | 17977-0 | Left Atrium Systolic Area |
| SRT | | G-0383 | Left Atrium Systolic Volume |

Table A.0–71: Context ID 12206 Echocardiography Right Atrium

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| LN | | 18070-3 | Right Atrium Systolic Pressure |
| LN | | 17988-7 | Right Atrium Systolic Area |

Table A.0-72: Context ID 12207 Echocardiography Mitral Valve

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| | | | INCLUDE CID 12222 Orifice Flow Properties |
| | | | INCLUDE CID 12239 Cardiac Output Properties |
| LN | | 17978-8 | Mitral Valve A-Wave Peak Velocity |
| LN | | 18037-2 | Mitral Valve E-Wave Peak Velocity |
| LN | | 18038-0 | Mitral Valve E to A Ratio |
| SRT | | G-0386 | Mitral Valve AT/DT Ratio |
| SRT | | G-0384 | Mitral Valve E-Wave Deceleration Time |
| LN | | 18040-6 | Mitral Valve E-F Slope by M-Mode |
| LN | | 18036-4 | Mitral Valve EPSS, E wave |
| SRT | | G-0385 | Mitral Valve A-Wave Duration |
| LN | | 18057-0 | Mitral Valve Diastolic Peak Instantaneous Gradient |
| SRT | | G-0387 | Mitral Valve Closure to Opening Time |
| LN | | 18035-6 | Mitral Regurgitation dP/dt derived from Mitral Reg. velocity |
| GEK | | 99153 | Mitral Valve A-C |
| GEK | | 99154 | Mitral Valve ES Distance |

Table A.0-73: Context ID 12208 Echocardiography Tricuspid Valve

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| | | | INCLUDE CID 12222 Orifice Flow Properties |
| LN | | 18031-5 | Tricuspid Valve E Wave Peak Velocity |
| LN | | 18030-7 | Tricuspid Valve A Wave Peak Velocity |
| LN | | 18039-8 | Tricuspid Valve E to A Ratio |
| LN | | 20296-0 | Time from Q wave to Tricuspid Valve Opens |
| SRT | | G-0389 | Tricuspid Valve Closure to Opening Time |
| LN | | 18034-9 | Tricuspid Regurgitation dP/dt |
| GEK | | 99155 | Tricuspid Valve A-Wave Duration |

Table A.0-74: Context ID 12209 Echocardiography Pulmonic Valve

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| | | | INCLUDE CID 12222 Orifice Flow Properties |
| LN | | 18096-8 | Pulmonic Valve Area by continuity |
| LN | | 18042-2 | Pulmonic Valve Ejection Time |

Table A.0-74: Context ID 12209 Echocardiography Pulmonic Valve (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| SRT | | G-0388 | Ratio of Pulmonic Valve Acceleration Time to Ejection Time |
| LN | | 20295-2 | Time from Q wave to Pulmonic Valve Closes |

Table A.0-75: Context ID 12210 Echocardiography Pulmonary Artery

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| LN | | 18020-8 | Main Pulmonary Artery Diameter |
| LN | | 18021-6 | Right Pulmonary Artery Diameter |
| LN | | 18019-0 | Left Pulmonary Artery Diameter |
| SRT | | G-038A | Main Pulmonary Artery Peak Velocity |
| GEK | | 99160 | Pulmonary Artery VPD Velocity |
| GEK | | 99161 | Pulmonary Artery Mean Pressure |
| GEK | | 99162 | Pulmonary Artery VTD Velocity |
| GEK | | 99163 | Pulmonary Artery Diastolic Pressure |
| GEK | | 99164 | Pulmonary Artery Systolic Pressure |

Table A.0-76: Context ID 12211 Echocardiography Aortic Valve

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| | | | INCLUDE CID 12222 Orifice Flow Properties |
| LN | | 17996-0 | Aortic Valve Cusp Separation |
| LN | | 18041-4 | Aortic Valve Ejection Time |
| SRT | | G-0382 | Ratio of Aortic Valve Acceleration Time to Ejection Time |

Table A.0-77: Context ID 12212 Echocardiography Aorta

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| LN | | 18015-8 | Aortic Root Diameter |
| LN | | 18011-7 | Aortic Arch Diameter |

Table A.0-77: Context ID 12212 Echocardiography Aorta (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---|
| LN | | 18012-5 | Ascending Aortic Diameter |
| LN | | 18014-1 | Aortic Isthmus Diameter |
| LN | | 18013-3 | Descending Aortic Diameter |
| LN | | 17995-2 | Thoracic Aorta Coarctation Systolic Peak Instantaneous Gradient |
| LN | | 29460-3 | Thoracic Aorta Coarctation Systolic Peak Velocity |
| GEK | | 99166 | Aortic Root Amplitude |

Table A.0-78: Context ID 12214 Echocardiography Pulmonary Veins

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| LN | | 29450-4 | Pulmonary Vein Systolic Peak Velocity |
| LN | | 29451-2 | Pulmonary Vein Diastolic Peak Velocity |
| LN | | 29452-0 | Pulmonary Vein Systolic to Diastolic Ratio |
| LN | | 29453-8 | Pulmonary Vein Atrial Contraction Reversal Peak Velocity |
| SRT | | G-038B | Pulmonary Vein A-Wave Duration |
| SRT | | G-038D | Pulmonary Vein D-Wave Velocity Time Integral |
| SRT | | G-038C | Pulmonary Vein S-Wave Velocity Time Integral |

Table A.0-79: Context ID 12215 Echocardiography Vena Cavae

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| LN | | 18006-7 | Inferior Vena Cava Diameter |
| LN | | 18050-5 | Inferior Vena Cava % Collapse |

Table A.0-80: Context ID 12216 Echocardiography Hepatic Veins

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| LN | | 29471-0 | Hepatic Vein Systolic Peak Velocity |
| LN | | 29472-8 | Hepatic Vein Diastolic Peak Velocity |

Table A.0–80: Context ID 12216 Echocardiography Hepatic Veins (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| LN | | 29473-6 | Hepatic Vein Systolic to Diastolic Ratio |
| LN | | 29474-4 | Hepatic Vein Atrial Contraction Reversal Peak Velocity |

Table A.0–81: Context ID 12217 Echocardiography Cardiac Shunt

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| | | | INCLUDE CID 12220 Echocardiography Common Measurements |
| LN | | 29462-9 | Pulmonary-to-Systemic Shunt Flow Ratio |

Table A.0–82: Context ID 12220 Echocardiography Common Measurements

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| LN | | 8867-4 | Heart rate |
| GEK | | 99150 | Atrial Heart Rate |

Table A.0–83: Context ID 12221 Flow Direction

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | R-42047 | Antegrade Flow |
| SRT | | R-42E61 | Regurgitant Flow |

Table A.0–84: Context ID 12222 Orifice Flow Properties

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------|
| LN | | 33878-0 | Volume Flow |
| LN | | 34141-2 | Peak Instantaneous Flow Rate |
| SRT | | G-038E | Cardiovascular Orifice Area |
| SRT | | G-038F | Cardiovascular Orifice Diameter |
| SRT | | G-0390 | Regurgitant Fraction |
| LN | | 11653-3 | End Diastolic Velocity |

Table A.0–84: Context ID 12222 Orifice Flow Properties (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------|
| LN | | 11726-7 | Peak Velocity |
| LN | | 20352-1 | Mean Velocity |
| LN | | 20247-3 | Peak Gradient |
| LN | | 20256-4 | Mean Gradient |
| LN | | 20354-7 | Velocity Time Integral |
| LN | | 20280-4 | Pressure Half-Time |
| LN | | 20168-1 | Acceleration Time |
| LN | | 20217-6 | Deceleration Time |
| LN | | 20216-8 | Deceleration Slope |
| GEK | | 99151 | Cardiovascular Orifice Diameter |
| GEK | | 99152 | Deceleration Amplitude |
| SRT | | F-02320 | Mitral Valve Area |

Table A.0–85: Context ID 12223 Echocardiography Stroke Volume Origin

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-------------------------------|
| SRT | | T-32600 | Left Ventricle |
| SRT | | T-32650 | Left Ventricle Outflow Tract |
| SRT | | T-32550 | Right Ventricle Outflow Tract |
| SRT | | T-35300 | Mitral Valve |
| SRT | | T-42000 | Aorta |

Table A.0–86: Context ID 12224 Ultrasound Image Modes

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | G-03A2 | 2D mode |
| SRT | | R-409E2 | Doppler Color Flow |
| SRT | | G-0394 | M mode |
| SRT | | R-409E4 | Doppler Pulsed |
| SRT | | R-409E3 | Doppler Continuous Wave |
| SRT | | P0-02241 | Power Doppler |
| SRT | | P0-02242 | 3D mode |

Table A.0-87: Context ID 12226 Echocardiography Image View

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| SRT | | G-A19B | Apical two chamber |
| SRT | | G-A19C | Apical four chamber |
| SRT | | G-0395 | Apical long axis |
| SRT | | G-0396 | Parasternal long axis |
| SRT | | G-0397 | Parasternal short axis |
| SRT | | G-0398 | Parasternal short axis at the aortic valve level |
| SRT | | G-0399 | Parasternal short axis at the level of the mitral chords |
| SRT | | G-039A | Parasternal short axis at the Mitral Valve level |
| SRT | | G-039B | Parasternal short axis at the Papillary Muscle level |
| SRT | | G-039C | Right Ventricular Inflow Tract View |
| SRT | | G-039D | Right Ventricular Outflow Tract View |
| SRT | | G-039E | Subcostal long axis |
| SRT | | G-039F | Subcostal short axis |
| SRT | | G-03A0 | Suprasternal long axis |
| SRT | | G-03A1 | Suprasternal short axis |

Table A.0-88: Context ID 12227 Echocardiography Measurement Method

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---|
| | | | INCLUDE CID 12228 Echocardiography Volume Methods |
| | | | INCLUDE CID 12229 Echocardiography Area Methods |
| | | | INCLUDE CID 12230 Gradient Methods |
| | | | INCLUDE CID 12231 Volume Flow Methods |
| | | | INCLUDE CID 12232 Myocardium Mass Methods |

Table A.0-89: Context ID 12228 Echocardiography Volume Methods

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-------------------------------|
| DCM | | 125204 | Area-Length Biplane |
| DCM | | 125205 | Area-Length Single Plane |
| DCM | | 125211 | Biplane Ellipse |
| DCM | | 125226 | Single Plane Ellipse |
| DCM | | 125206 | Cube Method |
| DCM | | 125207 | Method of Disks, Biplane |
| DCM | | 125208 | Method of Disks, Single Plane |
| DCM | | 125209 | Teichholz |

Table A.0-90: Context ID 12229 Echocardiography Area Methods

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---|
| DCM | | 125210 | Area by Pressure Half-Time |
| DCM | | 125212 | ContinuityEquation |
| DCM | | 125213 | Continuity Equation by Mean Velocity |
| DCM | | 125214 | Continuity Equation by Peak Velocity |
| DCM | | 125215 | Continuity Equation by Velocity Time Integral |
| DCM | | 125216 | Proximal Isovelocity Surface Area |
| DCM | | 125220 | Planimetry |

Table A.0-91: Context ID 12231 Volume Flow Methods

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| DCM | | 125219 | Doppler Volume Flow |
| DCM | | 125216 | Proximal Isovelocity Surface Area |

Table A.0-92: Context ID 12232 Myocardium Mass Methods

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| DCM | | 125221 | Left Ventricle Mass by M-mode |
| DCM | | 125222 | Left Ventricle Mass by Truncated Ellipse |
| GEK | | 99158 | Myocardial Thickness |

Table A.0-93: Context ID 12233 Cardiac Phase

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | F-32020 | Systole |
| SRT | | F-32010 | Diastole |
| SRT | | F-32011 | End Diastole |
| DCM | | 109070 | End Systol |

Table A.0-94: Context ID 12235 Mitral Valve Anatomic Sites

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | G-0391 | Medial Mitral Annulus |
| SRT | | G-0392 | Lateral Mitral Annulus |
| SRT | | T-35313 | Mitral Annulus |

Table A.0-95: Context ID 12236 Echo Anatomic Sites

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---|
| | | | INCLUDE CID 12235 Mitral Valve Anatomic Sites |
| | | | INCLUDE CID 12223 Stroke Volume Origin |
| | | | INCLUDE CID 12241 Tricuspid Valve Finding Sites |
| | | | INCLUDE CID 12242 Aortic Valve Finding Sites |
| | | | INCLUDE CID 12243 Left Ventricle Finding Sites |
| | | | INCLUDE CID 12244 Congenital Finding Sites |
| SRT | | D4-32030 | Thoracic Aortic Coarctation |

Table A.0-96: Context ID 12239 Cardiac Output Properties

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | F-32120 | Stroke Volume |
| SRT | | F-32100 | Cardiac Output |
| SRT | | F-32110 | Cardiac Index |
| SRT | | F-00078 | Stroke Index |

Table A.0-97: Context ID 12240 Left Ventricle Area

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| SRT | | G-0374 | Left Ventricular Systolic Area |
| SRT | | G-0375 | Left Ventricular Diastolic Area |
| SRT | | G-0376 | Left Ventricular Fractional Area Change |
| SRT | | G-0379 | Left Ventricle Epicardial Diastolic Area, psax pap view |
| GEK | | 99156 | Left Ventricle Endocardial Diastolic Area, psax pap view |

Table A.0–98: Context ID 12241 Tricuspid Valve Finding Sites

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | T-35111 | Tricuspid Annulus |

Table A.0–99: Context ID 12242 Aortic Valve Finding Sites

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| SRT | | T-35410 | Aortic Valve Ring |

Table A.0–100: Context ID 12243 Left Ventricle Finding Sites

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|------------------------------|
| SRT | | T-32650 | Left Ventricle Outflow Tract |

Table A.0–101: Context ID 12244 Congenital Finding Sites

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------|
| SRT | | D4-31150 | Ventricular Septal Defect |
| SRT | | D4-31220 | Atrial Septal Defect |

Table A.0–102: Context ID 99101 OB-M-Generic

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| GEK | | 99601-0 | M-Distance |
| GEK | | 99602-0 | M-Time |
| GEK | | 99603-0 | M-Velocity |
| GEK | | 99604-0 | Stenosis % Dist |
| GEK | | 99605-0 | Heart Rate |

Table A.0–103: Context ID 99102 OB-GYN Amniotic Sac OLD

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---|
| LN | | 11627-7 | Amniotic Fluid Index |
| GEK | | 99009-0 | AMNIOTIC FLUID INDEX LEN q1 |
| GEK | | 99009-1 | AMNIOTIC FLUID INDEX LEN q2 |
| GEK | | 99009-2 | AMNIOTIC FLUID INDEX LEN q3 |
| GEK | | 99009-3 | AMNIOTIC FLUID INDEX LEN q4 |
| GEK | | 99009-4 | AMNIOTIC FLUID INDEX.SUM ;four quadrant index |

Table A.0–104: Context ID 99103 SonoVCADLabor

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| GEK | | 99016-0 | SonoVCADLabor |
| GEK | | 99016-1 | Aquisition Time |
| GEK | | 99016-2 | Head Direction |
| GEK | | 99016-3 | Midline Angle |
| GEK | | 99016-4 | Head Progression |
| GEK | | 99016-5 | Head Progression Angle |
| GEK | | 99016-6 | Head Station |
| GEK | | 99016-7 | Head Rotation |
| GEK | | 99016-8 | Occiput Position |
| GEK | | 99016-9 | Cervix Dilatation |

Table A.0–105: Context ID 99104 Follicle SonoAVC

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| GEK | | 99015-0 | Follicle Diameter d |
| GEK | | 99015-1 | Follicle Diameter dx |
| GEK | | 99015-2 | Follicle Diameter dy |
| GEK | | 99015-3 | Follicle Diameter dz |
| GEK | | 99015-4 | Follicle Diameter dmean |
| GEK | | 99015-5 | Volume |
| GEK | | 99015-6 | RGB-Red |
| GEK | | 99015-7 | RGB-Green |
| GEK | | 99015-8 | RGB-Blue |
| GEK | | 99015-9 | Ovarian Follicle SonoAVC |

Table A.0–106: Context ID 99105 Fetal Echo Measurement

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|----------------------------------|
| GEK | | 99901-2 | Ventricle Length Systolic |
| GEK | | 99901-3 | Ventricle Length Diastolic |
| GEK | | 99901-4 | Ventricle Width Systolic |
| GEK | | 99901-5 | Ventricle Width Diastolic |
| GEK | | 99901-6 | Atrial Length Systolic |
| GEK | | 99901-7 | Atrial Length Diastolic |
| GEK | | 99901-8 | Atrial Width Systolic |
| GEK | | 99901-9 | Atrial Width Diastolic |
| GEK | | 99901-10 | Ventricle Inlet Diameter |
| GEK | | 99901-11 | Ventricle Area |
| GEK | | 99901-12 | Wall Thickness |
| GEK | | 99901-13 | Septum |
| GEK | | 99901-14 | Tricuspid Valve Orifice |
| GEK | | 99901-15 | Mitral Valve Orifice |
| GEK | | 99902-2 | Heart Diagonally |
| GEK | | 99902-3 | Thorax Diagonally |
| GEK | | 99902-4 | CTR |
| GEK | | 99902-5 | Cardiac Circumference |
| GEK | | 99902-6 | Thorax Circumference |
| GEK | | 99902-7 | CTCR |
| GEK | | 99902-8 | Heart Area |
| GEK | | 99902-9 | Thorax Area |
| GEK | | 99902-10 | CTAR |
| GEK | | 99902-11 | Cardiac Axis |
| GEK | | 99903-2 | Pulmonary Artery |
| GEK | | 99903-3 | Pulmonary Valve Width |
| GEK | | 99903-4 | Main Pulmonary Artery |
| GEK | | 99903-5 | Aortic Valve Width |
| GEK | | 99903-6 | Aortic Root Diameter |
| GEK | | 99903-7 | Aortic Trunk Dim. |
| GEK | | 99903-8 | Ao/PA Ratio |
| GEK | | 99903-9 | Arterial Duct Diameter |
| GEK | | 99904-2 | Anulus |
| GEK | | 99904-3 | Asc. Aortic Diameter |
| GEK | | 99904-4 | Desc. Aortic Diameter |
| GEK | | 99904-5 | Transv. Ao Arch |
| GEK | | 99905-2 | Vena Cava Superior |
| GEK | | 99905-3 | Vena Cava Inferior |
| GEK | | 99906-2 | Ventricle Dim. Systolic |
| GEK | | 99906-3 | Ventricle Dim. Diastolic |
| GEK | | 99906-4 | Ventricle Wall Systolic |
| GEK | | 99906-5 | Ventricle Wall Diastolic |
| GEK | | 99906-6 | Atrium dim. Systolic |
| GEK | | 99906-7 | Atrium dim. Diastolic |
| GEK | | 99906-8 | Septum Systolic |
| GEK | | 99906-9 | Septum Diastolic |
| GEK | | 99906-10 | Biventricle inner dim. Systolic |
| GEK | | 99906-11 | Biventricle inner dim. Diastolic |
| GEK | | 99906-12 | Biventricle outer dim. Systolic |
| GEK | | 99906-13 | Biventricle outer dim. Diastolic |

Table A.0–106: Context ID 99105 Fetal Echo Measurement (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------|
| GEK | | 99906-14 | Mitral Valve open exc. |
| GEK | | 99906-15 | Tricuspid Valve open exc. |
| GEK | | 99907-2 | Aortic Valve Diameter |
| GEK | | 99907-3 | Pulm. Valve Diameter |
| GEK | | 99908-2 | E-Wave |
| GEK | | 99908-3 | A-Wave |
| GEK | | 99908-4 | E/A |
| GEK | | 99908-5 | VTI |
| GEK | | 99908-6 | V max regurg |
| GEK | | 99909-2 | E-Wave |
| GEK | | 99909-3 | A-Wave |
| GEK | | 99909-4 | E/A |
| GEK | | 99909-5 | VTI |
| GEK | | 99909-6 | V max regurg |
| GEK | | 99909-7 | IVRT |
| GEK | | 99910-2 | V max |
| GEK | | 99910-3 | VTI |
| GEK | | 99910-4 | RVCO |
| GEK | | 99910-5 | TPV |
| GEK | | 99910-6 | TAmx |
| GEK | | 99910-7 | TAmx |
| GEK | | 99911-2 | V max |
| GEK | | 99911-3 | VTI |
| GEK | | 99911-4 | LVCO |
| GEK | | 99911-5 | TPV |
| GEK | | 99911-6 | TAmx |
| GEK | | 99911-7 | TAmx |
| GEK | | 99912-2 | V max |
| GEK | | 99912-3 | TAmx |
| GEK | | 99912-4 | TAmx |
| GEK | | 99913-2 | V max |
| GEK | | 99913-3 | VTI |
| GEK | | 99913-4 | RVCO |
| GEK | | 99913-5 | TPV |
| GEK | | 99913-6 | TAmx |
| GEK | | 99913-7 | TAmx |
| GEK | | 99913-8 | Acceleration Time |
| GEK | | 99913-9 | Ejection Time |
| GEK | | 99914-2 | V max |
| GEK | | 99914-3 | VTI |
| GEK | | 99914-4 | LVCO |
| GEK | | 99914-5 | TPV |
| GEK | | 99914-6 | TAmx |
| GEK | | 99914-7 | TAmx |
| GEK | | 99914-8 | Acceleration Time |
| GEK | | 99914-9 | Ejection Time |
| GEK | | 99915-2 | Diameter |
| GEK | | 99915-3 | Area |
| GEK | | 99915-4 | V max |
| GEK | | 99915-5 | PeakPG |

Table A.0–106: Context ID 99105 Fetal Echo Measurement (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------------------|
| GEK | | 99915-6 | TAmx |
| GEK | | 99915-7 | TAmx |
| GEK | | 99915-8 | MnPG |
| GEK | | 99915-9 | VTI |
| GEK | | 99915-10 | FHR |
| GEK | | 99915-11 | SV |
| GEK | | 99915-12 | LVO |
| GEK | | 99915-13 | ICT |
| GEK | | 99915-14 | Ejection Time |
| GEK | | 99915-15 | IRT |
| GEK | | 99915-16 | Tei-Index |
| GEK | | 99916-2 | Diameter |
| GEK | | 99916-3 | Area |
| GEK | | 99916-4 | V max |
| GEK | | 99916-5 | PeakPG |
| GEK | | 99916-6 | TAmx |
| GEK | | 99916-7 | TAmx |
| GEK | | 99916-8 | MnPG |
| GEK | | 99916-9 | VTI |
| GEK | | 99916-10 | FHR |
| GEK | | 99916-11 | SV |
| GEK | | 99916-12 | RVO |
| GEK | | 99916-13 | ICT |
| GEK | | 99916-14 | Ejection Time |
| GEK | | 99916-15 | IRT |
| GEK | | 99916-16 | Tei-Index |
| GEK | | 99917-2 | Diastolic Velocity |
| GEK | | 99917-3 | Systolic Velocity |
| GEK | | 99917-4 | S/D |
| GEK | | 99917-5 | A. Rev Velocity |
| GEK | | 99917-6 | A. Rev Duration |
| GEK | | 99919-6 | PR Interval |
| GEK | | 99919-8 | V max regurg |
| GEK | | 99919-9 | Peak PG regurg |
| GEK | | 99920-6 | Ao Isthmus |
| GEK | | 99921-1 | RVW systolic |
| GEK | | 99921-3 | IVS systolic |
| GEK | | 99921-5 | LVW systolic |
| GEK | | 99921-7 | MV annulus |
| GEK | | 99921-8 | TV annulus |
| GEK | | 99921-11 | LA/Ao sys |
| GEK | | 99921-12 | LA/Ao dia |
| GEK | | 99922-6 | PR Interval |
| GEK | | 99922-7 | TAPSE |
| GEK | | 99922-8 | MAPSE |
| GEK | | 99922-15 | Left Ventricle Fractional Shortening |
| GEK | | 99923-9 | LVOT PR Interval |
| GEK | | 99923-18 | RVOT PR Interval |
| GEK | | 99924-1 | V max |
| GEK | | 99924-2 | TPV |

Table A.0–106: Context ID 99105 Fetal Echo Measurement (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|----------------------------|
| GEK | | 99924-3 | TAmax |
| GEK | | 99924-4 | TAmean |
| GEK | | 99925-2 | TEI a |
| GEK | | 99925-3 | Tei-Index based on TEI a,b |
| GEK | | 99926-5 | Peak PG regurg |
| GEK | | 99927-3 | PV annulus |
| GEK | | 99927-8 | Mod. McGoon Idx |
| GEK | | 99929-2 | RVOT Diam. |
| GEK | | 99931-1 | V max |
| GEK | | 99931-2 | TPV |
| GEK | | 99931-3 | TAmax |
| GEK | | 99931-4 | TAmean |
| GEK | | 99932-2 | TEI a |
| GEK | | 99932-3 | Tei-Index based on TEI a,b |
| GEK | | 99934-5 | Peak PG regurg |
| GEK | | 99935-2 | LVOT Diam. |
| GEK | | 99936-1 | PR Interval |

Table A.0–107: Context ID 99106 Fetal Echo Measurement Method

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| GEK | | 99901-1 | 4-Chamber-view |
| GEK | | 99903-1 | Outflow Tract |
| GEK | | 99905-1 | Venous |
| GEK | | 99906-1 | 4-Chamber-view M-Mode |
| GEK | | 99907-1 | Outflow Tract M-Mode |
| GEK | | 99915-1 | LVOT |
| GEK | | 99916-1 | RVOT |
| GEK | | 99920-8 | Ao, LVOT |
| GEK | | 99935-6 | LVOT M-Mode |
| GEK | | 99921-13 | Chambers |
| GEK | | 99922-9 | Chambers M-Mode |
| GEK | | 99923-19 | Cardiac Output |
| GEK | | 99927-9 | PV, RVOT |
| GEK | | 99929-3 | PV,RVOT M-Mode |

Table A.0–108: Context ID 99107 Fetal Echo Finding Site

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| GEK | | 99902-1 | Thorax |
| GEK | | 99904-1 | Aortic arch |

Table A.0–108: Context ID 99107 Fetal Echo Finding Site (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| GEK | | 99908-1 | Tricuspid Valve |
| GEK | | 99909-1 | Mitral Valve |
| GEK | | 99910-1 | Main Pulmonary Artery |
| GEK | | 99911-1 | Aorta |
| GEK | | 99912-1 | Aorta Isthmus |
| GEK | | 99913-1 | Pulmonary Valve |
| GEK | | 99914-1 | Aortic Valve |
| GEK | | 99917-1 | Pulmonary Veins |
| GEK | | 99919-10 | Aortic |
| GEK | | 99924-5 | LPA |
| GEK | | 99925-7 | Left TEI |
| GEK | | 99926-7 | Mitral Valve |
| GEK | | 99931-5 | RPA |
| GEK | | 99932-7 | Right TEI |
| GEK | | 99934-6 | Tricuspid Valve |
| GEK | | 99936-2 | PR Interval |

Table A.0–109: Context ID 99108 Pelvic Floor

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------|
| GEK | | 99019-0 | Pelvic Floor |
| GEK | | 99019-1 | Pelvic Floor Measurements |
| GEK | | 99019-2 | Bladder Height |
| GEK | | 99019-3 | Bladder Depth |
| GEK | | 99019-4 | Residual Urine |
| GEK | | 99019-5 | Detr. Wall th. |
| GEK | | 99019-6 | Bladder neck rest |
| GEK | | 99019-7 | Bladder neck stress |
| GEK | | 99019-8 | Bladder neck desc. |
| GEK | | 99019-9 | Urethral rotation |
| GEK | | 99019-10 | Bladder desc. Max |
| GEK | | 99019-11 | Uterine desc. Max |
| GEK | | 99019-12 | Rect. Amp. Desc. Max |
| GEK | | 99019-13 | Depth of rectocele |
| GEK | | 99019-14 | Levator hiat. Stress |

Table A.0–110: Context ID 99109 Pelvic Floor Report

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| GEK | | 99020-0 | Pelvic Floor Finding |
| GEK | | 99020-1 | Pelvic Floor Findings |

Table A.0–110: Context ID 99109 Pelvic Floor Report (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| GEK | | 99020-2 | funneling |
| GEK | | 99020-3 | urethral kinking |

Table A.0–111: Context ID 99110 GYN Kidney Section

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| GEK | | 99030-0 | GYN Kidney |
| GEK | | 99030-1 | Left Kidney thickness |
| GEK | | 99030-2 | Left Kidney length |
| GEK | | 99030-3 | Left Kidney width |
| GEK | | 99030-4 | Right Kidney thickness |
| GEK | | 99030-5 | Right Kidney length |
| GEK | | 99030-6 | Right Kidney width |
| GEK | | 99030-7 | Right Kidney Vol |
| GEK | | 99030-8 | Left Kidney Vol |

Table A.0–112: Context ID 99111 Placenta Section

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| GEK | | 99032-0 | Placenta |
| GEK | | 99032-1 | Placenta Group |
| GEK | | 99032-2 | Placenta thickness |
| GEK | | 99032-3 | Placenta height |
| GEK | | 99032-4 | Placenta width |
| GEK | | 99032-5 | Placenta Vol |

Table A.0–113: Context ID 99112 Mass and Cyst Location

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| 99GEK | | 99812-1 | Ovarian Cyst |
| 99GEK | | 99812-2 | Ovarian Mass |
| 99GEK | | 99812-0 | Generic Mass |
| 99GEK | | 99812-6 | Adnexal Mass |
| 99GEK | | 99812-7 | Adnexal Cyst |
| 99GEK | | 99812-5 | Generic Cyst |

Table A.0–114: Context ID 99113 Mass and Cyst Measurements

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| 99GEK | | 99812-3 | Cyst Diameter |
| 99GEK | | 99812-4 | Mass Diameter |

Table A.0–115: Context ID 99114 Bladder Section

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| 99GEK | | 99813-0 | Bladder |
| 99GEK | | 99813-1 | Bladder Volume |
| 99GEK | | 99813-2 | Bladder Length |
| 99GEK | | 99813-3 | Bladder Width |
| 99GEK | | 99813-4 | Bladder Height |

Table A.0–116: Context ID 99115 Fetal Anatomy Item

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| 99GEK | | 99701-1 | Cranium |
| 99GEK | | 99701-2 | Head size |
| 99GEK | | 99701-3 | Head shape |
| 99GEK | | 99701-4 | Brain |
| 99GEK | | 99701-5 | Lateral ventricles |
| 99GEK | | 99701-6 | Rt lateral ventricle |
| 99GEK | | 99701-7 | Lt lateral ventricle |
| 99GEK | | 99701-8 | Third ventricle |
| 99GEK | | 99701-9 | Fourth ventricle |
| 99GEK | | 99701-10 | Cisterna magna |
| 99GEK | | 99701-11 | Choroid plexus |
| 99GEK | | 99701-12 | Lt choroid plexus |
| 99GEK | | 99701-13 | Rt choroid plexus |
| 99GEK | | 99701-14 | Parenchyma |
| 99GEK | | 99701-15 | Midline falx |
| 99GEK | | 99701-16 | Cavum septi pellucidi |
| 99GEK | | 99701-17 | Corpus callosum |
| 99GEK | | 99701-18 | Circle of Willis |
| 99GEK | | 99701-19 | Thalami |
| 99GEK | | 99701-20 | Posterior fossa |
| 99GEK | | 99701-21 | Cerebellum |
| 99GEK | | 99701-22 | Cerebrum |
| 99GEK | | 99701-23 | Vermis |
| 99GEK | | 99701-24 | Cerebellar lobes |
| 99GEK | | 99701-25 | Neck |
| 99GEK | | 99701-26 | Nuchal fold |

Table A.0–116: Context ID 99115 Fetal Anatomy Item (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| 99GEK | | 99701-27 | Face |
| 99GEK | | 99701-28 | Orbits |
| 99GEK | | 99701-29 | Lens |
| 99GEK | | 99701-30 | Nose |
| 99GEK | | 99701-31 | Lips |
| 99GEK | | 99701-32 | Maxilla |
| 99GEK | | 99701-33 | Palate |
| 99GEK | | 99701-34 | Tongue |
| 99GEK | | 99701-35 | Mandible |
| 99GEK | | 99701-36 | Ears |
| 99GEK | | 99701-37 | Profile |
| 99GEK | | 99701-38 | Thorax |
| 99GEK | | 99701-39 | Rt lung |
| 99GEK | | 99701-40 | Lt lung |
| 99GEK | | 99701-41 | Diaphragm |
| 99GEK | | 99701-42 | Rt diaphragm |
| 99GEK | | 99701-43 | Lt diaphragm |
| 99GEK | | 99701-44 | Thymus |
| 99GEK | | 99701-45 | Trachea |
| 99GEK | | 99701-46 | Ribs |
| 99GEK | | 99701-47 | Heart |
| 99GEK | | 99701-48 | Situs |
| 99GEK | | 99701-49 | Cardiac position |
| 99GEK | | 99701-50 | Cardiac axis |
| 99GEK | | 99701-51 | Cardiac size |
| 99GEK | | 99701-52 | Cardiac proportions |
| 99GEK | | 99701-53 | Cardiac rhythm |
| 99GEK | | 99701-54 | Cardiac function |
| 99GEK | | 99701-55 | 4-chamber view |
| 99GEK | | 99701-56 | LVOT-view |
| 99GEK | | 99701-57 | RVOT view |
| 99GEK | | 99701-58 | 3-vessel-trachea view |
| 99GEK | | 99701-59 | 3-vessel view |
| 99GEK | | 99701-60 | High short axis view |
| 99GEK | | 99701-61 | Low short axis view |
| 99GEK | | 99701-62 | Aortic arch view |
| 99GEK | | 99701-63 | Ductal arch view |
| 99GEK | | 99701-64 | Bicaval view |
| 99GEK | | 99701-65 | SVC |
| 99GEK | | 99701-66 | IVC |
| 99GEK | | 99701-67 | Great vessels |
| 99GEK | | 99701-68 | Abdom. wall |
| 99GEK | | 99701-69 | Abdom. cavity |
| 99GEK | | 99701-70 | Cord insertion |
| 99GEK | | 99701-71 | GI tract |
| 99GEK | | 99701-72 | Stomach |
| 99GEK | | 99701-73 | Liver |
| 99GEK | | 99701-74 | Gallbladder |
| 99GEK | | 99701-75 | Spleen |
| 99GEK | | 99701-76 | Bowel |

Table A.0–116: Context ID 99115 Fetal Anatomy Item (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| 99GEK | | 99701-77 | Small bowel |
| 99GEK | | 99701-78 | Large bowel |
| 99GEK | | 99701-79 | Rectum |
| 99GEK | | 99701-80 | Urogenital tract |
| 99GEK | | 99701-81 | Kidneys |
| 99GEK | | 99701-82 | Rt kidney |
| 99GEK | | 99701-83 | Lt kidney |
| 99GEK | | 99701-84 | Rt ureter |
| 99GEK | | 99701-85 | Lt ureter |
| 99GEK | | 99701-86 | Bladder |
| 99GEK | | 99701-87 | Rt adrenal gland |
| 99GEK | | 99701-88 | Lt adrenal gland |
| 99GEK | | 99701-89 | Rt renal artery |
| 99GEK | | 99701-90 | Lt renal artery |
| 99GEK | | 99701-91 | Genitals |
| 99GEK | | 99701-92 | Spine |
| 99GEK | | 99701-93 | Cervical spine |
| 99GEK | | 99701-94 | Thoracic spine |
| 99GEK | | 99701-95 | Lumbar spine |
| 99GEK | | 99701-96 | Sacral spine |
| 99GEK | | 99701-97 | Skeleton |
| 99GEK | | 99701-98 | Rt upper arm |
| 99GEK | | 99701-99 | Lt upper arm |
| 99GEK | | 99701-100 | Rt forearm |
| 99GEK | | 99701-101 | Lt forearm |
| 99GEK | | 99701-102 | Rt hand |
| 99GEK | | 99701-103 | Lt hand |
| 99GEK | | 99701-104 | Rt fingers |
| 99GEK | | 99701-105 | Lt fingers |
| 99GEK | | 99701-106 | Rt upper leg |
| 99GEK | | 99701-107 | Lt upper leg |
| 99GEK | | 99701-108 | Rt lower leg |
| 99GEK | | 99701-109 | Lt lower leg |
| 99GEK | | 99701-110 | Rt foot |
| 99GEK | | 99701-111 | Lt foot |
| 99GEK | | 99701-112 | Rt toes |
| 99GEK | | 99701-113 | Lt toes |
| 99GEK | | 99701-114 | Position of hands |
| 99GEK | | 99701-115 | Position of feet |
| 99GEK | | 99701-116 | Position of joints |
| 99GEK | | 99701-117 | Legs |
| 99GEK | | 99701-118 | Rt leg |
| 99GEK | | 99701-119 | Lt leg |
| 99GEK | | 99701-120 | Arms |
| 99GEK | | 99701-121 | Rt arm |
| 99GEK | | 99701-122 | Lt arm |
| 99GEK | | 99701-123 | Long axis view |
| 99GEK | | 99701-124 | Placenta Location |
| 99GEK | | 99701-125 | Placenta Cord Insertion |
| 99GEK | | 99701-126 | Fetal Position |

Table A.0-116: Context ID 99115 Fetal Anatomy Item (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| 99GEK | | 99701-127 | 3 Vessel Cord |
| 99GEK | | 99701-128 | Amniotic Fluid |
| 99GEK | | 99701-129 | Fetal Head Position |
| 99GEK | | 99701-130 | Placenta Grade |
| 99GEK | | 99701-131 | Fetal Spine Position |

Table A.0-117: Context ID 99116 Fetal Anatomy Normality Codes

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------------|
| 99GEK | | 99700-1 | normal |
| 99GEK | | 99700-2 | abnormal |
| 99GEK | | 99700-3 | suboptimal |
| 99GEK | | 99700-4 | visualized |
| 99GEK | | 99700-5 | not examined |
| 99GEK | | 99700-6 | not visualized |
| 99GEK | | 99700-7 | documented previously |
| 99GEK | | 99700-8 | details |
| 99GEK | | 99700-9 | stomach visualized |
| 99GEK | | 99700-10 | 4-chamber-view and aeries normal |
| 99GEK | | 99700-11 | 4-chamber-view normal |
| 99GEK | | 99700-12 | bladder normal |
| 99GEK | | 99700-13 | kidneys and bladder normal |
| 99GEK | | 99700-14 | mesocardia |
| 99GEK | | 99700-15 | dextrocardia |
| 99GEK | | 99700-16 | levocardia (normal) |
| 99GEK | | 99700-17 | shifted to the left |
| 99GEK | | 99700-18 | shifted to the right |
| 99GEK | | 99700-19 | decreased |
| 99GEK | | 99700-20 | increased |
| 99GEK | | 99700-21 | normal (approx. 1/3 of thoracic area) |
| 99GEK | | 99700-22 | disproportioned |
| 99GEK | | 99700-23 | proportioned (normal) |
| 99GEK | | 99700-24 | arrhythmic |
| 99GEK | | 99700-25 | regular (normal) |
| 99GEK | | 99700-26 | impaired contractility |
| 99GEK | | 99700-27 | good contractility (normal) |
| 99GEK | | 99700-28 | left ventricle |
| 99GEK | | 99700-29 | right ventricle |
| 99GEK | | 99700-30 | both ventricles |
| 99GEK | | 99700-31 | situs ambiguus |
| 99GEK | | 99700-32 | situs inversus totalis |
| 99GEK | | 99700-33 | situs solitus (normal) |
| 99GEK | | 99700-34 | mildly increased |
| 99GEK | | 99700-35 | moderately increased |
| 99GEK | | 99700-36 | severely increased |
| 99GEK | | 99700-37 | mildly decreased |

Table A.0–117: Context ID 99116 Fetal Anatomy Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99700-38 | moderately decreased |
| 99GEK | | 99700-39 | severely decreased |
| 99GEK | | 99700-40 | mildly impaired left ventricular contractility |
| 99GEK | | 99700-41 | moderately impaired left ventricular contractility |
| 99GEK | | 99700-42 | severely impaired left ventricular contractility |
| 99GEK | | 99700-43 | mildly impaired contractility of both ventricles |
| 99GEK | | 99700-44 | moderately impaired contractility of both ventricles |
| 99GEK | | 99700-45 | severely impaired contractility of both ventricles |
| 99GEK | | 99700-46 | mildly impaired right ventricular contractility |
| 99GEK | | 99700-47 | moderately impaired right ventricular contractility |
| 99GEK | | 99700-48 | severely impaired right ventricular contractility |
| 99GEK | | 99700-49 | right_abnormal |
| 99GEK | | 99700-50 | left_abnormal |
| 99GEK | | 99700-51 | cephalic |
| 99GEK | | 99700-52 | breech |
| 99GEK | | 99700-53 | oblique |
| 99GEK | | 99700-54 | transverse |
| 99GEK | | 99700-55 | anterior |
| 99GEK | | 99700-56 | posterior |
| 99GEK | | 99700-57 | superior |
| 99GEK | | 99700-58 | inferior |
| 99GEK | | 99700-59 | PlacentaGrade 0 |
| 99GEK | | 99700-60 | PlacentaGrade 1 |
| 99GEK | | 99700-61 | PlacentaGrade 2 |
| 99GEK | | 99700-62 | PlacentaGrade 3 |
| 99GEK | | 99700-63 | velamentous |
| 99GEK | | 99700-64 | marginal |
| 99GEK | | 99700-65 | vasa previa |
| 99GEK | | 99700-66 | midline |
| 99GEK | | 99700-67 | right lateral |
| 99GEK | | 99700-68 | left lateral |
| 99GEK | | 99700-69 | isthmic location |
| 99GEK | | 99700-70 | fundal |
| 99GEK | | 99700-71 | low lying |
| 99GEK | | 99700-72 | 3 vessel cord |
| 99GEK | | 99700-73 | 2 vessel cord |
| 99GEK | | 99700-74 | normal amount |
| 99GEK | | 99700-75 | oligohydramnios |
| 99GEK | | 99700-76 | polyhydramnios |
| 99GEK | | 99700-77 | right |
| 99GEK | | 99700-78 | left |
| 99GEK | | 99700-79 | complete previa |
| 99GEK | | 99700-80 | partial previa |
| 99GEK | | 99700-81 | marginal previa |

Table A.0–118: Context ID 99117 Fetal Anatomy Item Details

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-------------------------------|
| 99GEK | | 99701-1-D | Cranium Details |
| 99GEK | | 99701-2-D | Head size Details |
| 99GEK | | 99701-3-D | Head shape Details |
| 99GEK | | 99701-4-D | Brain Details |
| 99GEK | | 99701-5-D | Lateral ventricles Details |
| 99GEK | | 99701-6-D | Rt lateral ventricle Details |
| 99GEK | | 99701-7-D | Lt lateral ventricle Details |
| 99GEK | | 99701-8-D | Third ventricle Details |
| 99GEK | | 99701-9-D | Fourth ventricle Details |
| 99GEK | | 99701-10-D | Cisterna magna Details |
| 99GEK | | 99701-11-D | Choroid plexus Details |
| 99GEK | | 99701-12-D | Lt choroid plexus Details |
| 99GEK | | 99701-13-D | Rt choroid plexus Details |
| 99GEK | | 99701-14-D | Parenchyma Details |
| 99GEK | | 99701-15-D | Midline falx Details |
| 99GEK | | 99701-16-D | Cavum septi pellucidi Details |
| 99GEK | | 99701-17-D | Corpus callosum Details |
| 99GEK | | 99701-18-D | Circle of Willis Details |
| 99GEK | | 99701-19-D | Thalami Details |
| 99GEK | | 99701-20-D | Posterior fossa Details |
| 99GEK | | 99701-21-D | Cerebellum Details |
| 99GEK | | 99701-22-D | Cerebrum Details |
| 99GEK | | 99701-23-D | Vermis Details |
| 99GEK | | 99701-24-D | Cerebellar lobes Details |
| 99GEK | | 99701-25-D | Neck Details |
| 99GEK | | 99701-26-D | Nuchal fold Details |
| 99GEK | | 99701-27-D | Face Details |
| 99GEK | | 99701-28-D | Orbits Details |
| 99GEK | | 99701-29-D | Lens Details |
| 99GEK | | 99701-30-D | Nose Details |
| 99GEK | | 99701-31-D | Lips Details |
| 99GEK | | 99701-32-D | Maxilla Details |
| 99GEK | | 99701-33-D | Palate Details |
| 99GEK | | 99701-34-D | Tongue Details |
| 99GEK | | 99701-35-D | Mandible Details |
| 99GEK | | 99701-36-D | Ears Details |
| 99GEK | | 99701-37-D | Profile Details |
| 99GEK | | 99701-38-D | Thorax Details |
| 99GEK | | 99701-39-D | Rt lung Details |
| 99GEK | | 99701-40-D | Lt lung Details |
| 99GEK | | 99701-41-D | Diaphragm Details |
| 99GEK | | 99701-42-D | Rt diaphragm Details |
| 99GEK | | 99701-43-D | Lt diaphragm Details |
| 99GEK | | 99701-44-D | Thymus Details |
| 99GEK | | 99701-45-D | Trachea Details |
| 99GEK | | 99701-46-D | Ribs Details |
| 99GEK | | 99701-47-D | Heart Details |
| 99GEK | | 99701-48-D | Situs Details |
| 99GEK | | 99701-49-D | Cardiac position Details |
| 99GEK | | 99701-50-D | Cardiac axis Details |

Table A.0-118: Context ID 99117 Fetal Anatomy Item Details (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-------------------------------|
| 99GEK | | 99701-51-D | Cardiac size Details |
| 99GEK | | 99701-52-D | Cardiac proportions Details |
| 99GEK | | 99701-53-D | Cardiac rhythm Details |
| 99GEK | | 99701-54-D | Cardiac function Details |
| 99GEK | | 99701-55-D | 4-chamber view Details |
| 99GEK | | 99701-56-D | LVOT-view Details |
| 99GEK | | 99701-57-D | RVOT view Details |
| 99GEK | | 99701-58-D | 3-vessel-trachea view Details |
| 99GEK | | 99701-59-D | 3-vessel view Details |
| 99GEK | | 99701-60-D | High short axis view Details |
| 99GEK | | 99701-61-D | Low short axis view Details |
| 99GEK | | 99701-62-D | Aortic arch view Details |
| 99GEK | | 99701-63-D | Ductal arch view Details |
| 99GEK | | 99701-64-D | Bicaval view Details |
| 99GEK | | 99701-65-D | SVC Details |
| 99GEK | | 99701-66-D | IVC Details |
| 99GEK | | 99701-67-D | Great vessels Details |
| 99GEK | | 99701-68-D | Abdom. wall Details |
| 99GEK | | 99701-69-D | Abdom. cavity Details |
| 99GEK | | 99701-70-D | Cord insertion Details |
| 99GEK | | 99701-71-D | GI tract Details |
| 99GEK | | 99701-72-D | Stomach Details |
| 99GEK | | 99701-73-D | Liver Details |
| 99GEK | | 99701-74-D | Gallbladder Details |
| 99GEK | | 99701-75-D | Spleen Details |
| 99GEK | | 99701-76-D | Bowel Details |
| 99GEK | | 99701-77-D | Small bowel Details |
| 99GEK | | 99701-78-D | Large bowel Details |
| 99GEK | | 99701-79-D | Rectum Details |
| 99GEK | | 99701-80-D | Urogenital tract Details |
| 99GEK | | 99701-81-D | Kidneys Details |
| 99GEK | | 99701-82-D | Rt kidney Details |
| 99GEK | | 99701-83-D | Lt kidney Details |
| 99GEK | | 99701-84-D | Rt ureter Details |
| 99GEK | | 99701-85-D | Lt ureter Details |
| 99GEK | | 99701-86-D | Bladder Details |
| 99GEK | | 99701-87-D | Rt adrenal gland Details |
| 99GEK | | 99701-88-D | Lt adrenal gland Details |
| 99GEK | | 99701-89-D | Rt renal artery Details |
| 99GEK | | 99701-90-D | Lt renal artery Details |
| 99GEK | | 99701-91-D | Genitals Details |
| 99GEK | | 99701-92-D | Spine Details |
| 99GEK | | 99701-93-D | Cervical spine Details |
| 99GEK | | 99701-94-D | Thoracic spine Details |
| 99GEK | | 99701-95-D | Lumbar spine Details |
| 99GEK | | 99701-96-D | Sacral spine Details |
| 99GEK | | 99701-97-D | Skeleton Details |
| 99GEK | | 99701-98-D | Rt upper arm Details |
| 99GEK | | 99701-99-D | Lt upper arm Details |
| 99GEK | | 99701-100-D | Rt forearm Details |

Table A.0-118: Context ID 99117 Fetal Anatomy Item Details (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------|
| 99GEK | | 99701-101-D | Lt forearm Details |
| 99GEK | | 99701-102-D | Rt hand Details |
| 99GEK | | 99701-103-D | Lt hand Details |
| 99GEK | | 99701-104-D | Rt fingers Details |
| 99GEK | | 99701-105-D | Lt fingers Details |
| 99GEK | | 99701-106-D | Rt upper leg Details |
| 99GEK | | 99701-107-D | Lt upper leg Details |
| 99GEK | | 99701-108-D | Rt lower leg Details |
| 99GEK | | 99701-109-D | Lt lower leg Details |
| 99GEK | | 99701-110-D | Rt foot Details |
| 99GEK | | 99701-111-D | Lt foot Details |
| 99GEK | | 99701-112-D | Rt toes Details |
| 99GEK | | 99701-113-D | Lt toes Details |
| 99GEK | | 99701-114-D | Position of hands Details |
| 99GEK | | 99701-115-D | Position of feet Details |
| 99GEK | | 99701-116-D | Position of joints Details |
| 99GEK | | 99701-117-D | Legs Details |
| 99GEK | | 99701-118-D | Rt leg Details |
| 99GEK | | 99701-119-D | Lt leg Details |
| 99GEK | | 99701-120-D | Arms Details |
| 99GEK | | 99701-121-D | Rt arm Details |
| 99GEK | | 99701-122-D | Lt arm Details |
| 99GEK | | 99701-123-D | Long axis view Details |
| 99GEK | | 99701-124-D | Placenta Location Details |
| 99GEK | | 99701-125-D | Placenta Cord Insertion Details |
| 99GEK | | 99701-126-D | Fetal Position Details |
| 99GEK | | 99701-127-D | 3 Vessel Cord Details |
| 99GEK | | 99701-128-D | Amniotic Fluid Details |
| 99GEK | | 99701-129-D | Fetal Head Position Details |
| 99GEK | | 99701-130-D | Placenta Grade Details |
| 99GEK | | 99701-131-D | Fetal Spine Position Details |

Table A.0-119: Context ID 99118 IOTA SR Item

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99810-10 | Irregular solid tumor |
| 99GEK | | 99810-11 | Presence of ascites |
| 99GEK | | 99810-12 | at least 4 papillary structures |
| 99GEK | | 99810-13 | irregular multilocular-solid tumor with largest diameter greater or equal 100 mm |
| 99GEK | | 99810-14 | very strong blood flow (color score 4) |
| 99GEK | | 99810-15 | Unilocular |
| 99GEK | | 99810-16 | Presence of solid components with largest diameter smaller 7 mm |
| 99GEK | | 99810-17 | Presence of acoustic shadows |

Table A.0–119: Context ID 99118 IOTA SR Item (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99810-18 | smooth multilocular tumor with largest diameter smaller 100 mm |
| 99GEK | | 99810-19 | no blood flow (color score 1) |
| 99GEK | | 99810-21 | Simple Rules risk calculation |

Table A.0–120: Context ID 99119 IOTA SR Codes

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99810-8 | No |
| 99GEK | | 99810-9 | Yes |
| 99GEK | | 99810-23 | IOTA SR Classification Very low risk |
| 99GEK | | 99810-24 | IOTA SR Classification Low risk |
| 99GEK | | 99810-25 | IOTA SR Classification Intermediate risk |
| 99GEK | | 99810-26 | IOTA SR Classification Elevated risk |
| 99GEK | | 99810-27 | IOTA SR Classification Very high risk |
| 99GEK | | 99810-28 | IOTA SR Classification Inconclusive |

Table A.0–121: Context ID 99120 Fetus Z-Score Calculations

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|-------------------------------|
| 99GEK | | 99928-13 | ZScore for AV annulus |
| 99GEK | | 99928-14 | ZScore for Ao ascending |
| 99GEK | | 99928-15 | ZScore for Ao Descending |
| 99GEK | | 99928-16 | ZScore for Ao Isthmus |
| 99GEK | | 99928-17 | ZScore for PV annulus |
| 99GEK | | 99928-18 | ZScore for MPA Diam. |
| 99GEK | | 99928-19 | ZScore for RPA Diam. |
| 99GEK | | 99928-20 | ZScore for LPA Diam. |
| 99GEK | | 99928-21 | ZScore for Duct.Art.Diam. |
| 99GEK | | 99928-22 | ZScore for IVC |
| 99GEK | | 99928-23 | ZScore for RVD dia |
| 99GEK | | 99928-24 | ZScore for LVD dia |
| 99GEK | | 99928-25 | ZScore for MV annulus |
| 99GEK | | 99928-26 | ZScore for TV annulus |
| 99GEK | | 99928-27 | ZScore for Cardiac circumfer. |
| 99GEK | | 99928-28 | ZScore for LV lenght |
| 99GEK | | 99928-29 | ZScore for RV lenght |
| 99GEK | | 99928-30 | ZScore for RV Area dia |
| 99GEK | | 99928-31 | ZScore for LV Area dia |

Table A.0–122: Context ID 99121 Z-Score Equations

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| LN | | 11885-1 | Gestational Age by LMP |
| LN | | 11884-4 | Average Ultrasound Age |
| LN | | 11889-3 | AC, Campbell 1975 |
| LN | | 33537-2 | AC, Jeanty 1982 |
| LN | | 33077-9 | Abdominal Diameter, Lessoway 1998 |
| LN | | 11901-6 | BPDa, Hadlock 1982 |
| LN | | 33086-0 | BPD-oi, Chitty 1997 |
| LN | | 33087-8 | BPD-oo, Chitty 1997 |
| 99GEK | | 99928-1 | Z-Score by BPD Schneider |
| 99GEK | | 99928-2 | Z-Score by FL Schneider |
| 99GEK | | 99928-3 | Z-Score by GA Schneider |
| 99GEK | | 99928-4 | Z-Score by BPD Lee |
| 99GEK | | 99928-5 | Z-Score by FL Lee |
| 99GEK | | 99928-6 | Z-Score by GA Lee |
| 99GEK | | 99928-7 | Z-Score by FL Pasquini |
| 99GEK | | 99928-8 | Z-Score by GA Pasquini |
| 99GEK | | 99928-9 | Z-Score by BPD Krishnan |
| 99GEK | | 99928-10 | Z-Score by FL Krishnan |
| 99GEK | | 99928-11 | Z-Score by GA Krishnan |
| 99GEK | | 99928-12 | Z-Score by EFW Krishnan |

Table A.0–123: Context ID 99122 User Defined Measurements

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0102) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| 99GEK | | 99999-x | User Defined |

Table A.0–124: Context ID 99123 Gyn Findings Item

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-------------------------------|
| 99GEK | | 99703-1 | Device/Procedure |
| 99GEK | | 99703-2 | Uterine malformations (ESHRE) |
| 99GEK | | 99703-3 | Uterine malformations (ASRM) |
| 99GEK | | 99703-4 | Cervical malformations |
| 99GEK | | 99703-5 | Vaginal malformations |
| 99GEK | | 99703-7 | Uterus |
| 99GEK | | 99703-8 | Uterus Desc. |
| 99GEK | | 99703-9 | Position |
| 99GEK | | 99703-10 | Myometrium |
| 99GEK | | 99703-11 | Endometrium |
| 99GEK | | 99703-12 | Cervix |
| 99GEK | | 99703-13 | Uterine Doppler |

Table A.0–124: Context ID 99123 Gyn Findings Item (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------|
| 99GEK | | 99703-14 | Approach |
| 99GEK | | 99703-15 | Left Ovary |
| 99GEK | | 99703-16 | Left Ovary Desc. |
| 99GEK | | 99703-17 | Right Ovary |
| 99GEK | | 99703-18 | Right Ovary Desc. |
| 99GEK | | 99703-19 | Outline |
| 99GEK | | 99703-20 | Morphology |
| 99GEK | | 99703-21 | Corpus Luteum |
| 99GEK | | 99703-22 | Cyst(s) |
| 99GEK | | 99703-23 | Follicle(s) |
| 99GEK | | 99703-24 | Doppler |
| 99GEK | | 99703-25 | Right Tube |
| 99GEK | | 99703-26 | Right Tube Desc. |
| 99GEK | | 99703-27 | Outline |
| 99GEK | | 99703-28 | Morphology |
| 99GEK | | 99703-29 | Corpus Luteum |
| 99GEK | | 99703-30 | Cyst(s) |
| 99GEK | | 99703-31 | Follicle(s) |
| 99GEK | | 99703-32 | Doppler |
| 99GEK | | 99703-33 | Left Tube |
| 99GEK | | 99703-34 | Left Tube Desc. |
| 99GEK | | 99703-35 | Cul de Sac |
| 99GEK | | 99703-36 | Cul de Sac Desc. |
| 99GEK | | 99703-37 | Free fluid |
| 99GEK | | 99703-38 | Pouch of Douglas Other |

Table A.0–125: Context ID 99124 Gyn Findings Normality Codes

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|----------------------------|
| 99GEK | | 99702-1 | normal |
| 99GEK | | 99702-2 | abnormal |
| 99GEK | | 99702-3 | optimal |
| 99GEK | | 99702-4 | suboptimal |
| 99GEK | | 99702-5 | visualized |
| 99GEK | | 99702-6 | not visualized |
| 99GEK | | 99702-7 | not examined |
| 99GEK | | 99702-21 | U0 (normal) |
| 99GEK | | 99702-22 | a: T-shaped |
| 99GEK | | 99702-23 | b: infantilis |
| 99GEK | | 99702-24 | c: others |
| 99GEK | | 99702-25 | a: partial |
| 99GEK | | 99702-26 | b: complete |
| 99GEK | | 99702-27 | a: partial |
| 99GEK | | 99702-28 | b: complete |
| 99GEK | | 99702-29 | c: bicorporeal septate |
| 99GEK | | 99702-30 | a: with rudimentary cavity |

Table A.0–125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|----------------------------------|
| 99GEK | | 99702-31 | b: without rudimentary cavity |
| 99GEK | | 99702-32 | a: with rudimentary cavity |
| 99GEK | | 99702-33 | b: without rudimentary cavity |
| 99GEK | | 99702-34 | U6 (unclassified) |
| 99GEK | | 99702-35 | Vaginal |
| 99GEK | | 99702-36 | Cervical |
| 99GEK | | 99702-37 | Fundal |
| 99GEK | | 99702-38 | Combined |
| 99GEK | | 99702-39 | Tubal |
| 99GEK | | 99702-40 | Communicating |
| 99GEK | | 99702-41 | Non Communicating |
| 99GEK | | 99702-42 | anteverted |
| 99GEK | | 99702-43 | anteflexed |
| 99GEK | | 99702-44 | mid-position |
| 99GEK | | 99702-45 | retroverted |
| 99GEK | | 99702-46 | retroflexed |
| 99GEK | | 99702-47 | echogenic |
| 99GEK | | 99702-48 | asymmetrically thickened |
| 99GEK | | 99702-49 | suspicion of adenomyosis |
| 99GEK | | 99702-50 | three-layer pattern |
| 99GEK | | 99702-51 | hypoechoogenic |
| 99GEK | | 99702-52 | hyperechoogenic |
| 99GEK | | 99702-53 | isoechoogenic |
| 99GEK | | 99702-54 | without cystic areas |
| 99GEK | | 99702-55 | with regular cystic areas |
| 99GEK | | 99702-56 | with irregular cystic areas |
| 99GEK | | 99702-57 | with regular cystic areas |
| 99GEK | | 99702-58 | with irregular cystic areas |
| 99GEK | | 99702-59 | linear |
| 99GEK | | 99702-60 | non-linear |
| 99GEK | | 99702-61 | irregular |
| 99GEK | | 99702-62 | synechiae |
| 99GEK | | 99702-63 | 'bright edge' |
| 99GEK | | 99702-64 | not defined |
| 99GEK | | 99702-65 | regular |
| 99GEK | | 99702-66 | irregular |
| 99GEK | | 99702-67 | interrupted |
| 99GEK | | 99702-68 | not defined |
| 99GEK | | 99702-69 | 'mixed' echogenicity |
| 99GEK | | 99702-70 | 'groundglass' appearance |
| 99GEK | | 99702-71 | 'low level' echogenicity |
| 99GEK | | 99702-72 | colour score 1 (no colour) |
| 99GEK | | 99702-73 | colour score 2 (minimal colour) |
| 99GEK | | 99702-74 | colour score 3 (moderate colour) |
| 99GEK | | 99702-75 | colour score 4 (abundant colour) |
| 99GEK | | 99702-76 | with branching |
| 99GEK | | 99702-77 | without branching |
| 99GEK | | 99702-78 | focal origin |
| 99GEK | | 99702-79 | multifocal origin |
| 99GEK | | 99702-80 | scattered vessels |

Table A.0–125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99702-81 | circular flow |
| 99GEK | | 99702-82 | vessels not visualized |
| 99GEK | | 99702-83 | cystic lesions (Nabothian cysts) |
| 99GEK | | 99702-84 | polyp noted |
| 99GEK | | 99702-85 | myoma noted |
| 99GEK | | 99702-86 | paracervical varicosis |
| 99GEK | | 99702-87 | enlarged |
| 99GEK | | 99702-88 | small (postmenopausal) |
| 99GEK | | 99702-89 | small (prepubertal) |
| 99GEK | | 99702-90 | midline echo intact |
| 99GEK | | 99702-91 | midline echo disrupted |
| 99GEK | | 99702-92 | IUCD placed correctly at the fundus of the uterus |
| 99GEK | | 99702-93 | IUCD placed incorrectly, too low in the cavity |
| 99GEK | | 99702-94 | IUCD seen within the myometrium |
| 99GEK | | 99702-95 | No IUCD seen in the endometrial cavity |
| 99GEK | | 99702-96 | subtotal hysterectomy noted |
| 99GEK | | 99702-97 | total hysterectomy noted |
| 99GEK | | 99702-98 | transvaginal |
| 99GEK | | 99702-99 | transabdominal |
| 99GEK | | 99702-100 | probably normal |
| 99GEK | | 99702-101 | slightly prominent |
| 99GEK | | 99702-102 | left oophorectomy noted |
| 99GEK | | 99702-103 | right oophorectomy noted |
| 99GEK | | 99702-104 | C0: normal cervix |
| 99GEK | | 99702-105 | C1: septate cervix |
| 99GEK | | 99702-106 | C2: double "normal" cervix |
| 99GEK | | 99702-107 | C3: unilateral cervical aplasia |
| 99GEK | | 99702-108 | C4: cervical aplasia |
| 99GEK | | 99702-109 | V0: normal vagina |
| 99GEK | | 99702-110 | V1: longitudinal non-obstructing vaginal septum |
| 99GEK | | 99702-111 | V2: longitudinal obstructing vaginal septum |
| 99GEK | | 99702-112 | V3: transverse vaginal septum and/or imperforate hymen |
| 99GEK | | 99702-113 | V4: vaginal aplasia |
| 99GEK | | 99702-114 | Transabdominal ultrasound examination |
| 99GEK | | 99702-115 | Transvaginal ultrasound examination |
| 99GEK | | 99702-116 | Transabdominal and transvaginal ultrasound examination |
| 99GEK | | 99702-117 | increased vascularity |
| 99GEK | | 99702-118 | poorly vascularized |
| 99GEK | | 99702-119 | shortened |
| 99GEK | | 99702-120 | yes |
| 99GEK | | 99702-121 | no |
| 99GEK | | 99702-122 | smooth |
| 99GEK | | 99702-123 | irregular |
| 99GEK | | 99702-124 | postmenopausal atrophic |
| 99GEK | | 99702-125 | premenopausal normal follicular |
| 99GEK | | 99702-126 | premenopausal polycystic |
| 99GEK | | 99702-127 | premenopausal with dominant follicle |
| 99GEK | | 99702-128 | purely cystic |
| 99GEK | | 99702-129 | cystic with fine diffuse internal echoes |

Table A.0–125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------------------|
| 99GEK | | 99702-130 | hemorrhagic |
| 99GEK | | 99702-131 | Hydrosalpinx |
| 99GEK | | 99702-132 | Tubo-ovarian mass |
| 99GEK | | 99702-133 | Fimbrial cyst |
| 99GEK | | 99702-134 | Salpingectomy noted |
| 99GEK | | 99702-135 | Anechoic |
| 99GEK | | 99702-136 | Mixed echogenicity |
| 99GEK | | 99702-137 | Adhesions present |
| 99GEK | | 99702-138 | Obliterated |
| 99GEK | | 99702-139 | ascites |
| 99GEK | | 99702-140 | pelvic infection |
| 99GEK | | 99702-141 | haematoperitoneum |
| 99GEK | | 99702-142 | recent cyst rupture |
| 99GEK | | 99702-143 | mucinous fluid in the pelvis |
| 99GEK | | 99702-144 | physiologic changes (e.g. ovulation) |
| 99GEK | | 99702-145 | Free fluid visualized |
| 99GEK | | 99702-146 | No free fluid visualized |
| 99GEK | | 99702-147 | anechogenic |
| 99GEK | | 99702-148 | No Cavity |
| 99GEK | | 99702-149 | No horn |
| 99GEK | | 99702-150 | III Didelphus |
| 99GEK | | 99702-151 | IV Complete |
| 99GEK | | 99702-152 | IV Partial |
| 99GEK | | 99702-153 | VI Arcuate |
| 99GEK | | 99702-154 | VII DES drug related |
| 99GEK | | 99702-155 | V Complete |
| 99GEK | | 99702-156 | V Partial |
| 99GEK | | 99702-1001 | not measureable |
| 99GEK | | 99702-1002 | measureable |
| 99GEK | | 99702-1003 | 3-layer pattern |
| 99GEK | | 99702-1004 | hyper-echoic |
| 99GEK | | 99702-1005 | hypo-echoic |
| 99GEK | | 99702-1006 | iso-echoic |
| 99GEK | | 99702-1007 | with regular cystic areas |
| 99GEK | | 99702-1008 | with irregular cystic areas |
| 99GEK | | 99702-1009 | without cystic areas |
| 99GEK | | 99702-1010 | with regular cystic areas |
| 99GEK | | 99702-1011 | with irregular cystic areas |
| 99GEK | | 99702-1012 | linear |
| 99GEK | | 99702-1013 | non linear |
| 99GEK | | 99702-1014 | irregular |
| 99GEK | | 99702-1015 | not defined |
| 99GEK | | 99702-1016 | no |
| 99GEK | | 99702-1017 | yes |
| 99GEK | | 99702-1018 | regular |
| 99GEK | | 99702-1019 | irregular |
| 99GEK | | 99702-1020 | interrupted |
| 99GEK | | 99702-1021 | not defined |
| 99GEK | | 99702-1022 | no |
| 99GEK | | 99702-1023 | yes |

Table A.0-125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99702-1024 | no |
| 99GEK | | 99702-1025 | anechoic / low level echogenicity |
| 99GEK | | 99702-1026 | ground glass |
| 99GEK | | 99702-1027 | 'mixed' echogenicity |
| 99GEK | | 99702-1028 | 1 (no flow) |
| 99GEK | | 99702-1029 | 2 (minimal flow) |
| 99GEK | | 99702-1030 | 3 (moderate flow) |
| 99GEK | | 99702-1031 | 4 (abundant flow) |
| 99GEK | | 99702-1032 | no vessels seen |
| 99GEK | | 99702-1033 | single 'dominant' vessel WITHOUT branching |
| 99GEK | | 99702-1034 | single 'dominant' vessel WITH branching |
| 99GEK | | 99702-1035 | multiple vessels - focal origin |
| 99GEK | | 99702-1036 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1037 | scattered vessels |
| 99GEK | | 99702-1038 | circular flow |
| 99GEK | | 99702-1040 | optimal |
| 99GEK | | 99702-1041 | suboptimal |
| 99GEK | | 99702-1042 | failed |
| 99GEK | | 99702-1043 | not measureable |
| 99GEK | | 99702-1044 | measureable |
| 99GEK | | 99702-1045 | not measureable |
| 99GEK | | 99702-1046 | measureable |
| 99GEK | | 99702-1047 | not measureable |
| 99GEK | | 99702-1048 | measureable |
| 99GEK | | 99702-1049 | smooth |
| 99GEK | | 99702-1050 | endometrial folds |
| 99GEK | | 99702-1051 | polypoid |
| 99GEK | | 99702-1052 | irregular |
| 99GEK | | 99702-1053 | 0 |
| 99GEK | | 99702-1054 | 1 |
| 99GEK | | 99702-1055 | 2 |
| 99GEK | | 99702-1056 | 3 |
| 99GEK | | 99702-1057 | 4 |
| 99GEK | | 99702-1058 | 5 |
| 99GEK | | 99702-1059 | measureable |
| 99GEK | | 99702-1060 | not measureable |
| 99GEK | | 99702-1061 | localized (<25%) |
| 99GEK | | 99702-1062 | extended (>=25%) |
| 99GEK | | 99702-1063 | not assessable |
| 99GEK | | 99702-1064 | pedunculated |
| 99GEK | | 99702-1065 | sessile |
| 99GEK | | 99702-1066 | not applicable |
| 99GEK | | 99702-1067 | not assessable |
| 99GEK | | 99702-1068 | hyper-echoic |
| 99GEK | | 99702-1069 | hypo-echoic |
| 99GEK | | 99702-1070 | iso-echoic |
| 99GEK | | 99702-1071 | without cystic areas |
| 99GEK | | 99702-1072 | with regular cystic areas |
| 99GEK | | 99702-1073 | with irregular cystic areas |
| 99GEK | | 99702-1074 | regular |

Table A.0–125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99702-1075 | irregular |
| 99GEK | | 99702-1076 | uniform |
| 99GEK | | 99702-1077 | non-uniform |
| 99GEK | | 99702-1078 | G0 (within the cavity) |
| 99GEK | | 99702-1079 | G1 (endocavitary part $\geq 50\%$) |
| 99GEK | | 99702-1080 | G2 (endocavitary part $\leq 50\%$) |
| 99GEK | | 99702-1081 | 1 (no flow) |
| 99GEK | | 99702-1082 | 2 (minimal flow) |
| 99GEK | | 99702-1083 | 3 (moderate flow) |
| 99GEK | | 99702-1084 | 4 (abundant flow) |
| 99GEK | | 99702-1085 | no vessels seen |
| 99GEK | | 99702-1086 | single dominant vessel without branching |
| 99GEK | | 99702-1087 | single dominant vessel with branching |
| 99GEK | | 99702-1088 | multiple vessels - focal origin |
| 99GEK | | 99702-1089 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1090 | scattered vessels |
| 99GEK | | 99702-1091 | circular flow |
| 99GEK | | 99702-1092 | measureable |
| 99GEK | | 99702-1093 | not measureable |
| 99GEK | | 99702-1094 | localized ($\leq 25\%$) |
| 99GEK | | 99702-1095 | extended ($\geq 25\%$) |
| 99GEK | | 99702-1096 | not assessable |
| 99GEK | | 99702-1097 | pedunculated |
| 99GEK | | 99702-1098 | sessile |
| 99GEK | | 99702-1099 | not applicable |
| 99GEK | | 99702-1100 | not assessable |
| 99GEK | | 99702-1101 | hyper-echoic |
| 99GEK | | 99702-1102 | hypo-echoic |
| 99GEK | | 99702-1103 | iso-echoic |
| 99GEK | | 99702-1104 | without cystic areas |
| 99GEK | | 99702-1105 | with regular cystic areas |
| 99GEK | | 99702-1106 | with irregular cystic areas |
| 99GEK | | 99702-1107 | regular |
| 99GEK | | 99702-1108 | irregular |
| 99GEK | | 99702-1109 | uniform |
| 99GEK | | 99702-1110 | non-uniform |
| 99GEK | | 99702-1111 | G0 (within the cavity) |
| 99GEK | | 99702-1112 | G1 (endocavitary part $\geq 50\%$) |
| 99GEK | | 99702-1113 | G2 (endocavitary part $\leq 50\%$) |
| 99GEK | | 99702-1114 | 1 (no flow) |
| 99GEK | | 99702-1115 | 2 (minimal flow) |
| 99GEK | | 99702-1116 | 3 (moderate flow) |
| 99GEK | | 99702-1117 | 4 (abundant flow) |
| 99GEK | | 99702-1118 | no vessels seen |
| 99GEK | | 99702-1119 | single dominant vessel without branching |
| 99GEK | | 99702-1120 | single dominant vessel with branching |
| 99GEK | | 99702-1121 | multiple vessels - focal origin |
| 99GEK | | 99702-1122 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1123 | scattered vessels |
| 99GEK | | 99702-1124 | circular flow |

Table A.0-125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99702-1125 | measureable |
| 99GEK | | 99702-1126 | not measureable |
| 99GEK | | 99702-1127 | localized (<25%) |
| 99GEK | | 99702-1128 | extended (>=25%) |
| 99GEK | | 99702-1129 | not assessable |
| 99GEK | | 99702-1130 | pedunculated |
| 99GEK | | 99702-1131 | sessile |
| 99GEK | | 99702-1132 | not applicable |
| 99GEK | | 99702-1133 | not assessable |
| 99GEK | | 99702-1134 | hyper-echoic |
| 99GEK | | 99702-1135 | hypo-echoic |
| 99GEK | | 99702-1136 | iso-echoic |
| 99GEK | | 99702-1137 | without cystic areas |
| 99GEK | | 99702-1138 | with regular cystic areas |
| 99GEK | | 99702-1139 | with irregular cystic areas |
| 99GEK | | 99702-1140 | regular |
| 99GEK | | 99702-1141 | irregular |
| 99GEK | | 99702-1142 | uniform |
| 99GEK | | 99702-1143 | non-uniform |
| 99GEK | | 99702-1144 | G0 (within the cavity) |
| 99GEK | | 99702-1145 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99702-1146 | G2 (endocavitary part <50%) |
| 99GEK | | 99702-1147 | 1 (no flow) |
| 99GEK | | 99702-1148 | 2 (minimal flow) |
| 99GEK | | 99702-1149 | 3 (moderate flow) |
| 99GEK | | 99702-1150 | 4 (abundant flow) |
| 99GEK | | 99702-1151 | no vessels seen |
| 99GEK | | 99702-1152 | single dominant vessel without branching |
| 99GEK | | 99702-1153 | single dominant vessel with branching |
| 99GEK | | 99702-1154 | multiple vessels - focal origin |
| 99GEK | | 99702-1155 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1156 | scattered vessels |
| 99GEK | | 99702-1157 | circular flow |
| 99GEK | | 99702-1158 | measureable |
| 99GEK | | 99702-1159 | not measureable |
| 99GEK | | 99702-1160 | localized (<25%) |
| 99GEK | | 99702-1161 | extended (>=25%) |
| 99GEK | | 99702-1162 | not assessable |
| 99GEK | | 99702-1163 | pedunculated |
| 99GEK | | 99702-1164 | sessile |
| 99GEK | | 99702-1165 | not applicable |
| 99GEK | | 99702-1166 | not assessable |
| 99GEK | | 99702-1167 | hyper-echoic |
| 99GEK | | 99702-1168 | hypo-echoic |
| 99GEK | | 99702-1169 | iso-echoic |
| 99GEK | | 99702-1170 | without cystic areas |
| 99GEK | | 99702-1171 | with regular cystic areas |
| 99GEK | | 99702-1172 | with irregular cystic areas |
| 99GEK | | 99702-1173 | regular |
| 99GEK | | 99702-1174 | irregular |

Table A.0–125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99702-1175 | uniform |
| 99GEK | | 99702-1176 | non-uniform |
| 99GEK | | 99702-1177 | G0 (within the cavity) |
| 99GEK | | 99702-1178 | G1 (endocavitary part $\geq 50\%$) |
| 99GEK | | 99702-1179 | G2 (endocavitary part $\leq 50\%$) |
| 99GEK | | 99702-1180 | 1 (no flow) |
| 99GEK | | 99702-1181 | 2 (minimal flow) |
| 99GEK | | 99702-1182 | 3 (moderate flow) |
| 99GEK | | 99702-1183 | 4 (abundant flow) |
| 99GEK | | 99702-1184 | no vessels seen |
| 99GEK | | 99702-1185 | single dominant vessel without branching |
| 99GEK | | 99702-1186 | single dominant vessel with branching |
| 99GEK | | 99702-1187 | multiple vessels - focal origin |
| 99GEK | | 99702-1188 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1189 | scattered vessels |
| 99GEK | | 99702-1190 | circular flow |
| 99GEK | | 99702-1191 | measureable |
| 99GEK | | 99702-1192 | not measureable |
| 99GEK | | 99702-1193 | localized ($\leq 25\%$) |
| 99GEK | | 99702-1194 | extended ($\geq 25\%$) |
| 99GEK | | 99702-1195 | not assessable |
| 99GEK | | 99702-1196 | pedunculated |
| 99GEK | | 99702-1197 | sessile |
| 99GEK | | 99702-1198 | not applicable |
| 99GEK | | 99702-1199 | not assessable |
| 99GEK | | 99702-1200 | hyper-echoic |
| 99GEK | | 99702-1201 | hypo-echoic |
| 99GEK | | 99702-1202 | iso-echoic |
| 99GEK | | 99702-1203 | without cystic areas |
| 99GEK | | 99702-1204 | with regular cystic areas |
| 99GEK | | 99702-1205 | with irregular cystic areas |
| 99GEK | | 99702-1206 | regular |
| 99GEK | | 99702-1207 | irregular |
| 99GEK | | 99702-1208 | uniform |
| 99GEK | | 99702-1209 | non-uniform |
| 99GEK | | 99702-1210 | G0 (within the cavity) |
| 99GEK | | 99702-1211 | G1 (endocavitary part $\geq 50\%$) |
| 99GEK | | 99702-1212 | G2 (endocavitary part $\leq 50\%$) |
| 99GEK | | 99702-1213 | 1 (no flow) |
| 99GEK | | 99702-1214 | 2 (minimal flow) |
| 99GEK | | 99702-1215 | 3 (moderate flow) |
| 99GEK | | 99702-1216 | 4 (abundant flow) |
| 99GEK | | 99702-1217 | no vessels seen |
| 99GEK | | 99702-1218 | single dominant vessel without branching |
| 99GEK | | 99702-1219 | single dominant vessel with branching |
| 99GEK | | 99702-1220 | multiple vessels - focal origin |
| 99GEK | | 99702-1221 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1222 | scattered vessels |
| 99GEK | | 99702-1223 | circular flow |
| 99GEK | | 99702-1224 | measureable |

Table A.0–125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99702-1225 | not measureable |
| 99GEK | | 99702-1226 | localized (<25%) |
| 99GEK | | 99702-1227 | extended (>=25%) |
| 99GEK | | 99702-1228 | not assessable |
| 99GEK | | 99702-1229 | pedunculated |
| 99GEK | | 99702-1230 | sessile |
| 99GEK | | 99702-1231 | not applicable |
| 99GEK | | 99702-1232 | not assessable |
| 99GEK | | 99702-1233 | hyper-echoic |
| 99GEK | | 99702-1234 | hypo-echoic |
| 99GEK | | 99702-1235 | iso-echoic |
| 99GEK | | 99702-1236 | without cystic areas |
| 99GEK | | 99702-1237 | with regular cystic areas |
| 99GEK | | 99702-1238 | with irregular cystic areas |
| 99GEK | | 99702-1239 | regular |
| 99GEK | | 99702-1240 | irregular |
| 99GEK | | 99702-1241 | uniform |
| 99GEK | | 99702-1242 | non-uniform |
| 99GEK | | 99702-1243 | G0 (within the cavity) |
| 99GEK | | 99702-1244 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99702-1245 | G2 (endocavitary part <50%) |
| 99GEK | | 99702-1246 | 1 (no flow) |
| 99GEK | | 99702-1247 | 2 (minimal flow) |
| 99GEK | | 99702-1248 | 3 (moderate flow) |
| 99GEK | | 99702-1249 | 4 (abundant flow) |
| 99GEK | | 99702-1250 | no vessels seen |
| 99GEK | | 99702-1251 | single dominant vessel without branching |
| 99GEK | | 99702-1252 | single dominant vessel with branching |
| 99GEK | | 99702-1253 | multiple vessels - focal origin |
| 99GEK | | 99702-1254 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1255 | scattered vessels |
| 99GEK | | 99702-1256 | circular flow |
| 99GEK | | 99702-1257 | measureable |
| 99GEK | | 99702-1258 | not measureable |
| 99GEK | | 99702-1259 | localized (<25%) |
| 99GEK | | 99702-1260 | extended (>=25%) |
| 99GEK | | 99702-1261 | not assessable |
| 99GEK | | 99702-1262 | pedunculated |
| 99GEK | | 99702-1263 | sessile |
| 99GEK | | 99702-1264 | not applicable |
| 99GEK | | 99702-1265 | not assessable |
| 99GEK | | 99702-1266 | hyper-echoic |
| 99GEK | | 99702-1267 | hypo-echoic |
| 99GEK | | 99702-1268 | iso-echoic |
| 99GEK | | 99702-1269 | without cystic areas |
| 99GEK | | 99702-1270 | with regular cystic areas |
| 99GEK | | 99702-1271 | with irregular cystic areas |
| 99GEK | | 99702-1272 | regular |
| 99GEK | | 99702-1273 | irregular |
| 99GEK | | 99702-1274 | uniform |

Table A.0–125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99702-1275 | non-uniform |
| 99GEK | | 99702-1276 | G0 (within the cavity) |
| 99GEK | | 99702-1277 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99702-1278 | G2 (endocavitary part <50%) |
| 99GEK | | 99702-1279 | 1 (no flow) |
| 99GEK | | 99702-1280 | 2 (minimal flow) |
| 99GEK | | 99702-1281 | 3 (moderate flow) |
| 99GEK | | 99702-1282 | 4 (abundant flow) |
| 99GEK | | 99702-1283 | no vessels seen |
| 99GEK | | 99702-1284 | single dominant vessel without branching |
| 99GEK | | 99702-1285 | single dominant vessel with branching |
| 99GEK | | 99702-1286 | multiple vessels - focal origin |
| 99GEK | | 99702-1287 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1288 | scattered vessels |
| 99GEK | | 99702-1289 | circular flow |
| 99GEK | | 99702-1290 | measureable |
| 99GEK | | 99702-1291 | not measureable |
| 99GEK | | 99702-1292 | localized (<25%) |
| 99GEK | | 99702-1293 | extended (>=25%) |
| 99GEK | | 99702-1294 | not assessable |
| 99GEK | | 99702-1295 | pedunculated |
| 99GEK | | 99702-1296 | sessile |
| 99GEK | | 99702-1297 | not applicable |
| 99GEK | | 99702-1298 | not assessable |
| 99GEK | | 99702-1299 | hyper-echoic |
| 99GEK | | 99702-1300 | hypo-echoic |
| 99GEK | | 99702-1301 | iso-echoic |
| 99GEK | | 99702-1302 | without cystic areas |
| 99GEK | | 99702-1303 | with regular cystic areas |
| 99GEK | | 99702-1304 | with irregular cystic areas |
| 99GEK | | 99702-1305 | regular |
| 99GEK | | 99702-1306 | irregular |
| 99GEK | | 99702-1307 | uniform |
| 99GEK | | 99702-1308 | non-uniform |
| 99GEK | | 99702-1309 | G0 (within the cavity) |
| 99GEK | | 99702-1310 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99702-1311 | G2 (endocavitary part <50%) |
| 99GEK | | 99702-1312 | 1 (no flow) |
| 99GEK | | 99702-1313 | 2 (minimal flow) |
| 99GEK | | 99702-1314 | 3 (moderate flow) |
| 99GEK | | 99702-1315 | 4 (abundant flow) |
| 99GEK | | 99702-1316 | no vessels seen |
| 99GEK | | 99702-1317 | single dominant vessel without branching |
| 99GEK | | 99702-1318 | single dominant vessel with branching |
| 99GEK | | 99702-1319 | multiple vessels - focal origin |
| 99GEK | | 99702-1320 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1321 | scattered vessels |
| 99GEK | | 99702-1322 | circular flow |
| 99GEK | | 99702-1323 | measureable |
| 99GEK | | 99702-1324 | not measureable |

Table A.0–125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99702-1325 | localized (<25%) |
| 99GEK | | 99702-1326 | extended (>=25%) |
| 99GEK | | 99702-1327 | not assessable |
| 99GEK | | 99702-1328 | pedunculated |
| 99GEK | | 99702-1329 | sessile |
| 99GEK | | 99702-1330 | not applicable |
| 99GEK | | 99702-1331 | not assessable |
| 99GEK | | 99702-1332 | hyper-echoic |
| 99GEK | | 99702-1333 | hypo-echoic |
| 99GEK | | 99702-1334 | iso-echoic |
| 99GEK | | 99702-1335 | without cystic areas |
| 99GEK | | 99702-1336 | with regular cystic areas |
| 99GEK | | 99702-1337 | with irregular cystic areas |
| 99GEK | | 99702-1338 | regular |
| 99GEK | | 99702-1339 | irregular |
| 99GEK | | 99702-1340 | uniform |
| 99GEK | | 99702-1341 | non-uniform |
| 99GEK | | 99702-1342 | G0 (within the cavity) |
| 99GEK | | 99702-1343 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99702-1344 | G2 (endocavitary part <50%) |
| 99GEK | | 99702-1345 | 1 (no flow) |
| 99GEK | | 99702-1346 | 2 (minimal flow) |
| 99GEK | | 99702-1347 | 3 (moderate flow) |
| 99GEK | | 99702-1348 | 4 (abundant flow) |
| 99GEK | | 99702-1349 | no vessels seen |
| 99GEK | | 99702-1350 | single dominant vessel without branching |
| 99GEK | | 99702-1351 | single dominant vessel with branching |
| 99GEK | | 99702-1352 | multiple vessels - focal origin |
| 99GEK | | 99702-1353 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1354 | scattered vessels |
| 99GEK | | 99702-1355 | circular flow |
| 99GEK | | 99702-1356 | measureable |
| 99GEK | | 99702-1357 | not measureable |
| 99GEK | | 99702-1358 | localized (<25%) |
| 99GEK | | 99702-1359 | extended (>=25%) |
| 99GEK | | 99702-1360 | not assessable |
| 99GEK | | 99702-1361 | pedunculated |
| 99GEK | | 99702-1362 | sessile |
| 99GEK | | 99702-1363 | not applicable |
| 99GEK | | 99702-1364 | not assessable |
| 99GEK | | 99702-1365 | hyper-echoic |
| 99GEK | | 99702-1366 | hypo-echoic |
| 99GEK | | 99702-1367 | iso-echoic |
| 99GEK | | 99702-1368 | without cystic areas |
| 99GEK | | 99702-1369 | with regular cystic areas |
| 99GEK | | 99702-1370 | with irregular cystic areas |
| 99GEK | | 99702-1371 | regular |
| 99GEK | | 99702-1372 | irregular |
| 99GEK | | 99702-1373 | uniform |
| 99GEK | | 99702-1374 | non-uniform |

Table A.0–125: Context ID 99124 Gyn Findings Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99702-1375 | G0 (within the cavity) |
| 99GEK | | 99702-1376 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99702-1377 | G2 (endocavitary part <50%) |
| 99GEK | | 99702-1378 | 1 (no flow) |
| 99GEK | | 99702-1379 | 2 (minimal flow) |
| 99GEK | | 99702-1380 | 3 (moderate flow) |
| 99GEK | | 99702-1381 | 4 (abundant flow) |
| 99GEK | | 99702-1382 | no vessels seen |
| 99GEK | | 99702-1383 | single dominant vessel without branching |
| 99GEK | | 99702-1384 | single dominant vessel with branching |
| 99GEK | | 99702-1385 | multiple vessels - focal origin |
| 99GEK | | 99702-1386 | multiple vessels - multifocal origin |
| 99GEK | | 99702-1387 | scattered vessels |
| 99GEK | | 99702-1388 | circular flow |
| 99GEK | | 99702-1700 | 6 |
| 99GEK | | 99702-1701 | 7 |
| 99GEK | | 99702-1702 | 8 |
| 99GEK | | 99702-1703 | 9 |
| 99GEK | | 99702-1704 | 10 |

Table A.0–126: Context ID 99125 Gyn Findings Item Details

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---------------------------------------|
| 99GEK | | 99703-1-D | Device/Procedure Details |
| 99GEK | | 99703-2-D | Uterine malformations (ESHRE) Details |
| 99GEK | | 99703-3-D | Uterine malformations (ASRM) Details |
| 99GEK | | 99703-4-D | Cervical malformations Details |
| 99GEK | | 99703-5-D | Vaginal malformations Details |
| 99GEK | | 99703-6-D | Associated malformations Details |
| 99GEK | | 99703-7-D | Uterus Details |
| 99GEK | | 99703-8-D | Uterus Desc. Details |
| 99GEK | | 99703-9-D | Position Details |
| 99GEK | | 99703-10-D | Myometrium Details |
| 99GEK | | 99703-11-D | Endometrium Details |
| 99GEK | | 99703-12-D | Cervix Details |
| 99GEK | | 99703-13-D | Uterine Doppler Details |
| 99GEK | | 99703-14-D | Approach Details |
| 99GEK | | 99703-15-D | Left Ovary Details |
| 99GEK | | 99703-16-D | Left Ovary Desc. Details |
| 99GEK | | 99703-17-D | Right Ovary Details |
| 99GEK | | 99703-18-D | Right Ovary Desc. Details |
| 99GEK | | 99703-19-D | Outline Details |
| 99GEK | | 99703-20-D | Morphology Details |
| 99GEK | | 99703-21-D | Corpus Luteum Details |
| 99GEK | | 99703-22-D | Cyst(s) Details |
| 99GEK | | 99703-23-D | Follicle(s) Details |

Table A.0–126: Context ID 99125 Gyn Findings Item Details (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--------------------------------|
| 99GEK | | 99703-24-D | Doppler Details |
| 99GEK | | 99703-25-D | Right Tube Details |
| 99GEK | | 99703-26-D | Right Tube Desc. Details |
| 99GEK | | 99703-27-D | Outline Details |
| 99GEK | | 99703-28-D | Morphology Details |
| 99GEK | | 99703-29-D | Corpus Luteum Details |
| 99GEK | | 99703-30-D | Cyst(s) Details |
| 99GEK | | 99703-31-D | Follicle(s) Details |
| 99GEK | | 99703-32-D | Doppler Details |
| 99GEK | | 99703-33-D | Left Tube Details |
| 99GEK | | 99703-34-D | Left Tube Desc. Details |
| 99GEK | | 99703-35-D | Cul de Sac Details |
| 99GEK | | 99703-36-D | Cul de Sac Desc. Details |
| 99GEK | | 99703-37-D | Free fluid Details |
| 99GEK | | 99703-38-D | Pouch of Douglas Other Details |

Table A.0–127: Context ID 99127 IETA Item

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99705-1 | Thickness of endometrium |
| 99GEK | | 99705-2 | Endometrial echogenicity and pattern |
| 99GEK | | 99705-3 | Endometrial midline |
| 99GEK | | 99705-4 | Bright Edge |
| 99GEK | | 99705-5 | Endo-myometrial junction |
| 99GEK | | 99705-6 | Synechiae |
| 99GEK | | 99705-7 | Intracavity fluid |
| 99GEK | | 99705-8 | Color Doppler Assessment |
| 99GEK | | 99705-9 | Sonohysterography |
| 99GEK | | 99705-10 | Sym. Endometrial thickness |
| 99GEK | | 99705-11 | Asym. Endometrial thickness |
| 99GEK | | 99705-12 | Endometrial outline |
| 99GEK | | 99705-13 | Intracavity Lesion |
| 99GEK | | 99705-14 | Lesion #1 Endometrial lesion |
| 99GEK | | 99705-15 | Lesion #1 Lesion arising from the Myometrium |
| 99GEK | | 99705-16 | Lesion #1 Color Doppler assessment of the lesion |
| 99GEK | | 99705-17 | Lesion #2 Endometrial lesion |
| 99GEK | | 99705-18 | Lesion #2 Lesion arising from the Myometrium |
| 99GEK | | 99705-19 | Lesion #2 Color Doppler assessment of the lesion |
| 99GEK | | 99705-20 | Lesion #3 Endometrial lesion |
| 99GEK | | 99705-21 | Lesion #3 Lesion arising from the Myometrium |
| 99GEK | | 99705-22 | Lesion #3 Color Doppler assessment of the lesion |
| 99GEK | | 99705-23 | Lesion #4 Endometrial lesion |
| 99GEK | | 99705-24 | Lesion #4 Lesion arising from the Myometrium |
| 99GEK | | 99705-25 | Lesion #4 Color Doppler assessment of the lesion |
| 99GEK | | 99705-26 | Lesion #5 Endometrial lesion |
| 99GEK | | 99705-27 | Lesion #5 Lesion arising from the Myometrium |

Table A.0–127: Context ID 99127 IETA Item (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---|
| 99GEK | | 99705-28 | Lesion #5 Color Doppler assessment of the lesion |
| 99GEK | | 99705-29 | Lesion #6 Endometrial lesion |
| 99GEK | | 99705-30 | Lesion #6 Lesion arising from the Myometrium |
| 99GEK | | 99705-31 | Lesion #6 Color Doppler assessment of the lesion |
| 99GEK | | 99705-32 | Lesion #7 Endometrial lesion |
| 99GEK | | 99705-33 | Lesion #7 Lesion arising from the Myometrium |
| 99GEK | | 99705-34 | Lesion #7 Color Doppler assessment of the lesion |
| 99GEK | | 99705-35 | Lesion #8 Endometrial lesion |
| 99GEK | | 99705-36 | Lesion #8 Lesion arising from the Myometrium |
| 99GEK | | 99705-37 | Lesion #8 Color Doppler assessment of the lesion |
| 99GEK | | 99705-38 | Lesion #9 Endometrial lesion |
| 99GEK | | 99705-39 | Lesion #9 Lesion arising from the Myometrium |
| 99GEK | | 99705-40 | Lesion #9 Color Doppler assessment of the lesion |
| 99GEK | | 99705-41 | Lesion #10 Endometrial lesion |
| 99GEK | | 99705-42 | Lesion #10 Lesion arising from the Myometrium |
| 99GEK | | 99705-43 | Lesion #10 Color Doppler assessment of the lesion |

Table A.0–128: Context ID 99128 IETA Normality Codes

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------------|
| 99GEK | | 99705-45 | not measureable |
| 99GEK | | 99705-46 | measureable |
| 99GEK | | 99705-47 | 3-layer pattern |
| 99GEK | | 99705-48 | hyper-echoic |
| 99GEK | | 99705-49 | hypo-echoic |
| 99GEK | | 99705-50 | iso-echoic |
| 99GEK | | 99705-51 | with regular cystic areas |
| 99GEK | | 99705-52 | with irregular cystic areas |
| 99GEK | | 99705-53 | without cystic areas |
| 99GEK | | 99705-54 | with regular cystic areas |
| 99GEK | | 99705-55 | with irregular cystic areas |
| 99GEK | | 99705-56 | linear |
| 99GEK | | 99705-57 | non linear |
| 99GEK | | 99705-58 | irregular |
| 99GEK | | 99705-59 | not defined |
| 99GEK | | 99705-60 | no |
| 99GEK | | 99705-61 | yes |
| 99GEK | | 99705-62 | regular |
| 99GEK | | 99705-63 | irregular |
| 99GEK | | 99705-64 | interrupted |
| 99GEK | | 99705-65 | not defined |
| 99GEK | | 99705-66 | no |
| 99GEK | | 99705-67 | yes |
| 99GEK | | 99705-68 | no |
| 99GEK | | 99705-69 | anechoic / low level echogenicity |
| 99GEK | | 99705-70 | ground glass |

Table A.0–128: Context ID 99128 IETA Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99705-71 | 'mixed' echogenicity |
| 99GEK | | 99705-72 | 1 (no flow) |
| 99GEK | | 99705-73 | 2 (minimal flow) |
| 99GEK | | 99705-74 | 3 (moderate flow) |
| 99GEK | | 99705-75 | 4 (abundant flow) |
| 99GEK | | 99705-76 | no vessels seen |
| 99GEK | | 99705-77 | single 'dominant' vessel WITHOUT branching |
| 99GEK | | 99705-78 | single 'dominant' vessel WITH branching |
| 99GEK | | 99705-79 | multiple vessels - focal origin |
| 99GEK | | 99705-80 | multiple vessels - multifocal origin |
| 99GEK | | 99705-81 | scattered vessels |
| 99GEK | | 99705-82 | circular flow |
| 99GEK | | 99705-83 | optimal |
| 99GEK | | 99705-84 | suboptimal |
| 99GEK | | 99705-85 | failed |
| 99GEK | | 99705-86 | not measureable |
| 99GEK | | 99705-87 | measureable |
| 99GEK | | 99705-88 | not measureable |
| 99GEK | | 99705-89 | measureable |
| 99GEK | | 99705-90 | not measureable |
| 99GEK | | 99705-91 | measureable |
| 99GEK | | 99705-92 | smooth |
| 99GEK | | 99705-93 | endometrial folds |
| 99GEK | | 99705-94 | polypoid |
| 99GEK | | 99705-95 | irregular |
| 99GEK | | 99705-96 | 0 |
| 99GEK | | 99705-97 | 1 |
| 99GEK | | 99705-98 | 2 |
| 99GEK | | 99705-99 | 3 |
| 99GEK | | 99705-100 | 4 |
| 99GEK | | 99705-101 | 5 |
| 99GEK | | 99705-102 | measureable |
| 99GEK | | 99705-103 | not measureable |
| 99GEK | | 99705-104 | localized (<25%) |
| 99GEK | | 99705-105 | extended (>=25%) |
| 99GEK | | 99705-106 | not assessable |
| 99GEK | | 99705-107 | pedunculated |
| 99GEK | | 99705-108 | sessile |
| 99GEK | | 99705-109 | not applicable |
| 99GEK | | 99705-110 | not assessable |
| 99GEK | | 99705-111 | hyper-echoic |
| 99GEK | | 99705-112 | hypo-echoic |
| 99GEK | | 99705-113 | iso-echoic |
| 99GEK | | 99705-114 | without cystic areas |
| 99GEK | | 99705-115 | with regular cystic areas |
| 99GEK | | 99705-116 | with irregular cystic areas |
| 99GEK | | 99705-117 | regular |
| 99GEK | | 99705-118 | irregular |
| 99GEK | | 99705-119 | uniform |
| 99GEK | | 99705-120 | non-uniform |

Table A.0-128: Context ID 99128 IETA Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99705-121 | G0 (within the cavity) |
| 99GEK | | 99705-122 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99705-123 | G2 (endocavitary part <50%) |
| 99GEK | | 99705-124 | 1 (no flow) |
| 99GEK | | 99705-125 | 2 (minimal flow) |
| 99GEK | | 99705-126 | 3 (moderate flow) |
| 99GEK | | 99705-127 | 4 (abundant flow) |
| 99GEK | | 99705-128 | no vessels seen |
| 99GEK | | 99705-129 | single dominant vessel without branching |
| 99GEK | | 99705-130 | single dominant vessel with branching |
| 99GEK | | 99705-131 | multiple vessels - focal origin |
| 99GEK | | 99705-132 | multiple vessels - multifocal origin |
| 99GEK | | 99705-133 | scattered vessels |
| 99GEK | | 99705-134 | circular flow |
| 99GEK | | 99705-135 | measureable |
| 99GEK | | 99705-136 | not measureable |
| 99GEK | | 99705-137 | localized (<25%) |
| 99GEK | | 99705-138 | extended (>=25%) |
| 99GEK | | 99705-139 | not assessable |
| 99GEK | | 99705-140 | pedunculated |
| 99GEK | | 99705-141 | sessile |
| 99GEK | | 99705-142 | not applicable |
| 99GEK | | 99705-143 | not assessable |
| 99GEK | | 99705-144 | hyper-echoic |
| 99GEK | | 99705-145 | hypo-echoic |
| 99GEK | | 99705-146 | iso-echoic |
| 99GEK | | 99705-147 | without cystic areas |
| 99GEK | | 99705-148 | with regular cystic areas |
| 99GEK | | 99705-149 | with irregular cystic areas |
| 99GEK | | 99705-150 | regular |
| 99GEK | | 99705-151 | irregular |
| 99GEK | | 99705-152 | uniform |
| 99GEK | | 99705-153 | non-uniform |
| 99GEK | | 99705-154 | G0 (within the cavity) |
| 99GEK | | 99705-155 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99705-156 | G2 (endocavitary part <50%) |
| 99GEK | | 99705-157 | 1 (no flow) |
| 99GEK | | 99705-158 | 2 (minimal flow) |
| 99GEK | | 99705-159 | 3 (moderate flow) |
| 99GEK | | 99705-160 | 4 (abundant flow) |
| 99GEK | | 99705-161 | no vessels seen |
| 99GEK | | 99705-162 | single dominant vessel without branching |
| 99GEK | | 99705-163 | single dominant vessel with branching |
| 99GEK | | 99705-164 | multiple vessels - focal origin |
| 99GEK | | 99705-165 | multiple vessels - multifocal origin |
| 99GEK | | 99705-166 | scattered vessels |
| 99GEK | | 99705-167 | circular flow |
| 99GEK | | 99705-168 | measureable |
| 99GEK | | 99705-169 | not measureable |
| 99GEK | | 99705-170 | localized (<25%) |

Table A.0–128: Context ID 99128 IETA Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99705-171 | extended (>=25%) |
| 99GEK | | 99705-172 | not assessable |
| 99GEK | | 99705-173 | pedunculated |
| 99GEK | | 99705-174 | sessile |
| 99GEK | | 99705-175 | not applicable |
| 99GEK | | 99705-176 | not assessable |
| 99GEK | | 99705-177 | hyper-echoic |
| 99GEK | | 99705-178 | hypo-echoic |
| 99GEK | | 99705-179 | iso-echoic |
| 99GEK | | 99705-180 | without cystic areas |
| 99GEK | | 99705-181 | with regular cystic areas |
| 99GEK | | 99705-182 | with irregular cystic areas |
| 99GEK | | 99705-183 | regular |
| 99GEK | | 99705-184 | irregular |
| 99GEK | | 99705-185 | uniform |
| 99GEK | | 99705-186 | non-uniform |
| 99GEK | | 99705-187 | G0 (within the cavity) |
| 99GEK | | 99705-188 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99705-189 | G2 (endocavitary part <50%) |
| 99GEK | | 99705-190 | 1 (no flow) |
| 99GEK | | 99705-191 | 2 (minimal flow) |
| 99GEK | | 99705-192 | 3 (moderate flow) |
| 99GEK | | 99705-193 | 4 (abundant flow) |
| 99GEK | | 99705-194 | no vessels seen |
| 99GEK | | 99705-195 | single dominant vessel without branching |
| 99GEK | | 99705-196 | single dominant vessel with branching |
| 99GEK | | 99705-197 | multiple vessels - focal origin |
| 99GEK | | 99705-198 | multiple vessels - multifocal origin |
| 99GEK | | 99705-199 | scattered vessels |
| 99GEK | | 99705-200 | circular flow |
| 99GEK | | 99705-201 | measureable |
| 99GEK | | 99705-202 | not measureable |
| 99GEK | | 99705-203 | localized (<25%) |
| 99GEK | | 99705-204 | extended (>=25%) |
| 99GEK | | 99705-205 | not assessable |
| 99GEK | | 99705-206 | pedunculated |
| 99GEK | | 99705-207 | sessile |
| 99GEK | | 99705-208 | not applicable |
| 99GEK | | 99705-209 | not assessable |
| 99GEK | | 99705-210 | hyper-echoic |
| 99GEK | | 99705-211 | hypo-echoic |
| 99GEK | | 99705-212 | iso-echoic |
| 99GEK | | 99705-213 | without cystic areas |
| 99GEK | | 99705-214 | with regular cystic areas |
| 99GEK | | 99705-215 | with irregular cystic areas |
| 99GEK | | 99705-216 | regular |
| 99GEK | | 99705-217 | irregular |
| 99GEK | | 99705-218 | uniform |
| 99GEK | | 99705-219 | non-uniform |
| 99GEK | | 99705-220 | G0 (within the cavity) |

Table A.0-128: Context ID 99128 IETA Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99705-221 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99705-222 | G2 (endocavitary part <50%) |
| 99GEK | | 99705-223 | 1 (no flow) |
| 99GEK | | 99705-224 | 2 (minimal flow) |
| 99GEK | | 99705-225 | 3 (moderate flow) |
| 99GEK | | 99705-226 | 4 (abundant flow) |
| 99GEK | | 99705-227 | no vessels seen |
| 99GEK | | 99705-228 | single dominant vessel without branching |
| 99GEK | | 99705-229 | single dominant vessel with branching |
| 99GEK | | 99705-230 | multiple vessels - focal origin |
| 99GEK | | 99705-231 | multiple vessels - multifocal origin |
| 99GEK | | 99705-232 | scattered vessels |
| 99GEK | | 99705-233 | circular flow |
| 99GEK | | 99705-234 | measureable |
| 99GEK | | 99705-235 | not measureable |
| 99GEK | | 99705-236 | localized (<25%) |
| 99GEK | | 99705-237 | extended (>=25%) |
| 99GEK | | 99705-238 | not assessable |
| 99GEK | | 99705-239 | pedunculated |
| 99GEK | | 99705-240 | sessile |
| 99GEK | | 99705-241 | not applicable |
| 99GEK | | 99705-242 | not assessable |
| 99GEK | | 99705-243 | hyper-echoic |
| 99GEK | | 99705-244 | hypo-echoic |
| 99GEK | | 99705-245 | iso-echoic |
| 99GEK | | 99705-246 | without cystic areas |
| 99GEK | | 99705-247 | with regular cystic areas |
| 99GEK | | 99705-248 | with irregular cystic areas |
| 99GEK | | 99705-249 | regular |
| 99GEK | | 99705-250 | irregular |
| 99GEK | | 99705-251 | uniform |
| 99GEK | | 99705-252 | non-uniform |
| 99GEK | | 99705-253 | G0 (within the cavity) |
| 99GEK | | 99705-254 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99705-255 | G2 (endocavitary part <50%) |
| 99GEK | | 99705-256 | 1 (no flow) |
| 99GEK | | 99705-257 | 2 (minimal flow) |
| 99GEK | | 99705-258 | 3 (moderate flow) |
| 99GEK | | 99705-259 | 4 (abundant flow) |
| 99GEK | | 99705-260 | no vessels seen |
| 99GEK | | 99705-261 | single dominant vessel without branching |
| 99GEK | | 99705-262 | single dominant vessel with branching |
| 99GEK | | 99705-263 | multiple vessels - focal origin |
| 99GEK | | 99705-264 | multiple vessels - multifocal origin |
| 99GEK | | 99705-265 | scattered vessels |
| 99GEK | | 99705-266 | circular flow |
| 99GEK | | 99705-267 | measureable |
| 99GEK | | 99705-268 | not measureable |
| 99GEK | | 99705-269 | localized (<25%) |
| 99GEK | | 99705-270 | extended (>=25%) |

Table A.0–128: Context ID 99128 IETA Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99705-271 | not assessable |
| 99GEK | | 99705-272 | pedunculated |
| 99GEK | | 99705-273 | sessile |
| 99GEK | | 99705-274 | not applicable |
| 99GEK | | 99705-275 | not assessable |
| 99GEK | | 99705-276 | hyper-echoic |
| 99GEK | | 99705-277 | hypo-echoic |
| 99GEK | | 99705-278 | iso-echoic |
| 99GEK | | 99705-279 | without cystic areas |
| 99GEK | | 99705-280 | with regular cystic areas |
| 99GEK | | 99705-281 | with irregular cystic areas |
| 99GEK | | 99705-282 | regular |
| 99GEK | | 99705-283 | irregular |
| 99GEK | | 99705-284 | uniform |
| 99GEK | | 99705-285 | non-uniform |
| 99GEK | | 99705-286 | G0 (within the cavity) |
| 99GEK | | 99705-287 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99705-288 | G2 (endocavitary part <50%) |
| 99GEK | | 99705-289 | 1 (no flow) |
| 99GEK | | 99705-290 | 2 (minimal flow) |
| 99GEK | | 99705-291 | 3 (moderate flow) |
| 99GEK | | 99705-292 | 4 (abundant flow) |
| 99GEK | | 99705-293 | no vessels seen |
| 99GEK | | 99705-294 | single dominant vessel without branching |
| 99GEK | | 99705-295 | single dominant vessel with branching |
| 99GEK | | 99705-296 | multiple vessels - focal origin |
| 99GEK | | 99705-297 | multiple vessels - multifocal origin |
| 99GEK | | 99705-298 | scattered vessels |
| 99GEK | | 99705-299 | circular flow |
| 99GEK | | 99705-300 | measureable |
| 99GEK | | 99705-301 | not measureable |
| 99GEK | | 99705-302 | localized (<25%) |
| 99GEK | | 99705-303 | extended (>=25%) |
| 99GEK | | 99705-304 | not assessable |
| 99GEK | | 99705-305 | pedunculated |
| 99GEK | | 99705-306 | sessile |
| 99GEK | | 99705-307 | not applicable |
| 99GEK | | 99705-308 | not assessable |
| 99GEK | | 99705-309 | hyper-echoic |
| 99GEK | | 99705-310 | hypo-echoic |
| 99GEK | | 99705-311 | iso-echoic |
| 99GEK | | 99705-312 | without cystic areas |
| 99GEK | | 99705-313 | with regular cystic areas |
| 99GEK | | 99705-314 | with irregular cystic areas |
| 99GEK | | 99705-315 | regular |
| 99GEK | | 99705-316 | irregular |
| 99GEK | | 99705-317 | uniform |
| 99GEK | | 99705-318 | non-uniform |
| 99GEK | | 99705-319 | G0 (within the cavity) |
| 99GEK | | 99705-320 | G1 (endocavitary part >= 50%) |

Table A.0–128: Context ID 99128 IETA Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99705-321 | G2 (endocavitary part <50%) |
| 99GEK | | 99705-322 | 1 (no flow) |
| 99GEK | | 99705-323 | 2 (minimal flow) |
| 99GEK | | 99705-324 | 3 (moderate flow) |
| 99GEK | | 99705-325 | 4 (abundant flow) |
| 99GEK | | 99705-326 | no vessels seen |
| 99GEK | | 99705-327 | single dominant vessel without branching |
| 99GEK | | 99705-328 | single dominant vessel with branching |
| 99GEK | | 99705-329 | multiple vessels - focal origin |
| 99GEK | | 99705-330 | multiple vessels - multifocal origin |
| 99GEK | | 99705-331 | scattered vessels |
| 99GEK | | 99705-332 | circular flow |
| 99GEK | | 99705-333 | measureable |
| 99GEK | | 99705-334 | not measureable |
| 99GEK | | 99705-335 | localized (<25%) |
| 99GEK | | 99705-336 | extended (>=25%) |
| 99GEK | | 99705-337 | not assessable |
| 99GEK | | 99705-338 | pedunculated |
| 99GEK | | 99705-339 | sessile |
| 99GEK | | 99705-340 | not applicable |
| 99GEK | | 99705-341 | not assessable |
| 99GEK | | 99705-342 | hyper-echoic |
| 99GEK | | 99705-343 | hypo-echoic |
| 99GEK | | 99705-344 | iso-echoic |
| 99GEK | | 99705-345 | without cystic areas |
| 99GEK | | 99705-346 | with regular cystic areas |
| 99GEK | | 99705-347 | with irregular cystic areas |
| 99GEK | | 99705-348 | regular |
| 99GEK | | 99705-349 | irregular |
| 99GEK | | 99705-350 | uniform |
| 99GEK | | 99705-351 | non-uniform |
| 99GEK | | 99705-352 | G0 (within the cavity) |
| 99GEK | | 99705-353 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99705-354 | G2 (endocavitary part <50%) |
| 99GEK | | 99705-355 | 1 (no flow) |
| 99GEK | | 99705-356 | 2 (minimal flow) |
| 99GEK | | 99705-357 | 3 (moderate flow) |
| 99GEK | | 99705-358 | 4 (abundant flow) |
| 99GEK | | 99705-359 | no vessels seen |
| 99GEK | | 99705-360 | single dominant vessel without branching |
| 99GEK | | 99705-361 | single dominant vessel with branching |
| 99GEK | | 99705-362 | multiple vessels - focal origin |
| 99GEK | | 99705-363 | multiple vessels - multifocal origin |
| 99GEK | | 99705-364 | scattered vessels |
| 99GEK | | 99705-365 | circular flow |
| 99GEK | | 99705-366 | measureable |
| 99GEK | | 99705-367 | not measureable |
| 99GEK | | 99705-368 | localized (<25%) |
| 99GEK | | 99705-369 | extended (>=25%) |
| 99GEK | | 99705-370 | not assessable |

Table A.0–128: Context ID 99128 IETA Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99705-371 | pedunculated |
| 99GEK | | 99705-372 | sessile |
| 99GEK | | 99705-373 | not applicable |
| 99GEK | | 99705-374 | not assessable |
| 99GEK | | 99705-375 | hyper-echoic |
| 99GEK | | 99705-376 | hypo-echoic |
| 99GEK | | 99705-377 | iso-echoic |
| 99GEK | | 99705-378 | without cystic areas |
| 99GEK | | 99705-379 | with regular cystic areas |
| 99GEK | | 99705-380 | with irregular cystic areas |
| 99GEK | | 99705-381 | regular |
| 99GEK | | 99705-382 | irregular |
| 99GEK | | 99705-383 | uniform |
| 99GEK | | 99705-384 | non-uniform |
| 99GEK | | 99705-385 | G0 (within the cavity) |
| 99GEK | | 99705-386 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99705-387 | G2 (endocavitary part <50%) |
| 99GEK | | 99705-388 | 1 (no flow) |
| 99GEK | | 99705-389 | 2 (minimal flow) |
| 99GEK | | 99705-390 | 3 (moderate flow) |
| 99GEK | | 99705-391 | 4 (abundant flow) |
| 99GEK | | 99705-392 | no vessels seen |
| 99GEK | | 99705-393 | single dominant vessel without branching |
| 99GEK | | 99705-394 | single dominant vessel with branching |
| 99GEK | | 99705-395 | multiple vessels - focal origin |
| 99GEK | | 99705-396 | multiple vessels - multifocal origin |
| 99GEK | | 99705-397 | scattered vessels |
| 99GEK | | 99705-398 | circular flow |
| 99GEK | | 99705-399 | measureable |
| 99GEK | | 99705-400 | not measureable |
| 99GEK | | 99705-401 | localized (<25%) |
| 99GEK | | 99705-402 | extended (>=25%) |
| 99GEK | | 99705-403 | not assessable |
| 99GEK | | 99705-404 | pedunculated |
| 99GEK | | 99705-405 | sessile |
| 99GEK | | 99705-406 | not applicable |
| 99GEK | | 99705-407 | not assessable |
| 99GEK | | 99705-408 | hyper-echoic |
| 99GEK | | 99705-409 | hypo-echoic |
| 99GEK | | 99705-410 | iso-echoic |
| 99GEK | | 99705-411 | without cystic areas |
| 99GEK | | 99705-412 | with regular cystic areas |
| 99GEK | | 99705-413 | with irregular cystic areas |
| 99GEK | | 99705-414 | regular |
| 99GEK | | 99705-415 | irregular |
| 99GEK | | 99705-416 | uniform |
| 99GEK | | 99705-417 | non-uniform |
| 99GEK | | 99705-418 | G0 (within the cavity) |
| 99GEK | | 99705-419 | G1 (endocavitary part >= 50%) |
| 99GEK | | 99705-420 | G2 (endocavitary part <50%) |

Table A.0–128: Context ID 99128 IETA Normality Codes (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99705-421 | 1 (no flow) |
| 99GEK | | 99705-422 | 2 (minimal flow) |
| 99GEK | | 99705-423 | 3 (moderate flow) |
| 99GEK | | 99705-424 | 4 (abundant flow) |
| 99GEK | | 99705-425 | no vessels seen |
| 99GEK | | 99705-426 | single dominant vessel without branching |
| 99GEK | | 99705-427 | single dominant vessel with branching |
| 99GEK | | 99705-428 | multiple vessels - focal origin |
| 99GEK | | 99705-429 | multiple vessels - multifocal origin |
| 99GEK | | 99705-430 | scattered vessels |
| 99GEK | | 99705-431 | circular flow |
| 99GEK | | 99705-432 | 6 |
| 99GEK | | 99705-433 | 7 |
| 99GEK | | 99705-434 | 8 |
| 99GEK | | 99705-435 | 9 |
| 99GEK | | 99705-436 | 10 |

Table A.0–129: Context ID 99129 IETA Item Details

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|--|
| 99GEK | | 99705-1-D | Thickness of endometrium Details |
| 99GEK | | 99705-2-D | Endometrial echogenicity and pattern Details |
| 99GEK | | 99703-3-D | Endometrial midline Details |
| 99GEK | | 99703-4-D | Bright Edge Details |
| 99GEK | | 99703-5-D | Endo-myometrial junction Details |
| 99GEK | | 99703-6-D | Synechiae Details |
| 99GEK | | 99703-7-D | Intracavity fluid Details |
| 99GEK | | 99703-8-D | Color Doppler Assessment Details |
| 99GEK | | 99703-9-D | Sonohysterography Details |
| 99GEK | | 99703-10-D | Sym. Endometrial thickness Details |
| 99GEK | | 99703-11-D | Asym. Endometrial thickness Details |
| 99GEK | | 99703-12-D | Endometrial outline Details |
| 99GEK | | 99703-13-D | Intracavity Lesion Details |
| 99GEK | | 99703-14-D | Lesion #1 Endometrial lesion Details |
| 99GEK | | 99703-15-D | Lesion #1 Lesion arising from the Myometrium Details |
| 99GEK | | 99703-16-D | Lesion #1 Color Doppler assessment of the lesion Details |
| 99GEK | | 99703-17-D | Lesion #2 Endometrial lesion Details |
| 99GEK | | 99703-18-D | Lesion #2 Lesion arising from the Myometrium Details |
| 99GEK | | 99703-19-D | Lesion #2 Color Doppler assessment of the lesion Details |
| 99GEK | | 99703-20-D | Lesion #3 Endometrial lesion Details |
| 99GEK | | 99703-21-D | Lesion #3 Lesion arising from the Myometrium Details |
| 99GEK | | 99703-22-D | Lesion #3 Color Doppler assessment of the lesion Details |
| 99GEK | | 99703-23-D | Lesion #4 Endometrial lesion Details |

Table A.0–129: Context ID 99129 IETA Item Details (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|---|
| 99GEK | | 99703-24-D | Lesion #4 Lesion arising from the Myometrium Details |
| 99GEK | | 99703-25-D | Lesion #4 Color Doppler assessment of the lesion Details |
| 99GEK | | 99703-26-D | Lesion #5 Endometrial lesion Details |
| 99GEK | | 99703-27-D | Lesion #5 Lesion arising from the Myometrium Details |
| 99GEK | | 99703-28-D | Lesion #5 Color Doppler assessment of the lesion Details |
| 99GEK | | 99703-29-D | Lesion #6 Endometrial lesion Details |
| 99GEK | | 99703-30-D | Lesion #6 Lesion arising from the Myometrium Details |
| 99GEK | | 99703-31-D | Lesion #6 Color Doppler assessment of the lesion Details |
| 99GEK | | 99703-32-D | Lesion #7 Endometrial lesion Details |
| 99GEK | | 99703-33-D | Lesion #7 Lesion arising from the Myometrium Details |
| 99GEK | | 99703-34-D | Lesion #7 Color Doppler assessment of the lesion Details |
| 99GEK | | 99703-35-D | Lesion #8 Endometrial lesion Details |
| 99GEK | | 99703-36-D | Lesion #8 Lesion arising from the Myometrium Details |
| 99GEK | | 99703-37-D | Lesion #8 Color Doppler assessment of the lesion Details |
| 99GEK | | 99703-38-D | Lesion #9 Endometrial lesion Details |
| 99GEK | | 99703-39-D | Lesion #9 Lesion arising from the Myometrium Details |
| 99GEK | | 99703-40-D | Lesion #9 Color Doppler assessment of the lesion Details |
| 99GEK | | 99703-41-D | Lesion #10 Endometrial lesion Details |
| 99GEK | | 99703-42-D | Lesion #10 Lesion arising from the Myometrium Details |
| 99GEK | | 99703-43-D | Lesion #10 Color Doppler assessment of the lesion Details |

Table A.0–130: Context ID 99130 Fetal Heart Analysis Measurements

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------|
| 99GEK | | 99HQ005-1 | Global Sphericity Idx |
| 99GEK | | 99HQ005-2 | Basal Apical Length |
| 99GEK | | 99HQ005-3 | Transverse Width |
| 99GEK | | 99HQ005-4 | Heart Area (2 Dist) |
| 99GEK | | 99HQ005-5 | Cardiac Thoracic Area Ratio |
| 99GEK | | 99HQ006-1 | LV End Diastolic Area |
| 99GEK | | 99HQ006-2 | RV End Diastolic Area |
| 99GEK | | 99HQ006-3 | LV End Diastolic Length |
| 99GEK | | 99HQ006-4 | RV End Diastolic Length |
| 99GEK | | 99HQ006-5 | LV End Systolic Area |
| 99GEK | | 99HQ006-6 | RV End Systolic Area |
| 99GEK | | 99HQ006-7 | LV End Systolic Length |
| 99GEK | | 99HQ006-8 | RV End Systolic Length |
| 99GEK | | 99HQ006-9 | LV End Diastolic Volume |
| 99GEK | | 99HQ006-10 | RV End Diastolic Volume |

Table A.0–130: Context ID 99130 Fetal Heart Analysis Measurements (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|----------------------------------|
| 99GEK | | 99HQ006-11 | LV End Systolic Volume |
| 99GEK | | 99HQ006-12 | RV End Systolic Volume |
| 99GEK | | 99HQ006-13 | LV Global Strain |
| 99GEK | | 99HQ006-14 | RV Global Strain |
| 99GEK | | 99HQ006-15 | LV Fractional Area Change |
| 99GEK | | 99HQ006-16 | RV Fractional Area Change |
| 99GEK | | 99HQ006-17 | LV Free Wall Strain |
| 99GEK | | 99HQ006-18 | RV Free Wall Strain |
| 99GEK | | 99HQ006-19 | LV Ejection Fraction |
| 99GEK | | 99HQ006-20 | RV Ejection Fraction |
| 99GEK | | 99HQ006-21 | LV Stroke Volume |
| 99GEK | | 99HQ006-22 | RV Stroke Volume |
| 99GEK | | 99HQ006-23 | LV Stroke Volume per KG |
| 99GEK | | 99HQ006-24 | RV Stroke Volume per KG |
| 99GEK | | 99HQ006-25 | LV Cardiac Output |
| 99GEK | | 99HQ006-26 | RV Cardiac Output |
| 99GEK | | 99HQ006-27 | LV Cardiac Output per KG |
| 99GEK | | 99HQ006-28 | RV Cardiac Output per KG |
| 99GEK | | 99HQ007-1 | LV ED Diameter |
| 99GEK | | 99HQ007-2 | RV ED Diameter |
| 99GEK | | 99HQ007-3 | LV Fractional Shortening |
| 99GEK | | 99HQ007-4 | RV Fractional Shortening |
| 99GEK | | 99HQ007-5 | LV Sphericity Index |
| 99GEK | | 99HQ007-6 | RV Sphericity Index |
| 99GEK | | 99HQ007-7 | Z-Score ED Diameter |
| 99GEK | | 99HQ007-8 | Percentile ED Diameter |
| 99GEK | | 99HQ007-9 | Z-Score Fractional Shortening |
| 99GEK | | 99HQ007-10 | Percentile Fractional Shortening |
| 99GEK | | 99HQ007-11 | Z-Score Sphericity Index |
| 99GEK | | 99HQ007-12 | Percentile Sphericity Index |

Table A.0–131: Context ID 99131 Fetal Heart Analysis Equations

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-------------------------------------|
| 99GEK | | 99HQ001-LV1 | LV Z-Score by HC DeVore |
| 99GEK | | 99HQ001-LV2 | LV Percentile by HC DeVore |
| 99GEK | | 99HQ001-LV3 | LV Z-Score by BPD DeVore |
| 99GEK | | 99HQ001-LV4 | LV Percentile by BPD DeVore |
| 99GEK | | 99HQ001-LV5 | LV Z-Score by AC DeVore |
| 99GEK | | 99HQ001-LV6 | LV Percentile by AC DeVore |
| 99GEK | | 99HQ001-LV7 | LV Z-Score by FL DeVore |
| 99GEK | | 99HQ001-LV8 | LV Percentile by FL DeVore |
| 99GEK | | 99HQ001-LV9 | LV Z-Score by EFW DeVore |
| 99GEK | | 99HQ001-LV10 | LV Percentile by EFW DeVore |
| 99GEK | | 99HQ001-LV11 | LV Z-Score by Avg. US Age DeVore |
| 99GEK | | 99HQ001-LV12 | LV Percentile by Avg. US Age DeVore |

Table A.0–131: Context ID 99131 Fetal Heart Analysis Equations (continued)

| Coding Scheme Designator (0008,0102) | Coding Scheme Version (0008,0103) | Code Value (0008,0100) | Code Meaning (0008,0104) |
|--------------------------------------|-----------------------------------|------------------------|-------------------------------------|
| 99GEK | | 99HQ001-LV13 | LV Z-Score by GA DeVore |
| 99GEK | | 99HQ001-LV14 | LV Percentile by GA DeVore |
| 99GEK | | 99HQ001-RV1 | RV Z-Score by HC DeVore |
| 99GEK | | 99HQ001-RV2 | RV Percentile by HC DeVore |
| 99GEK | | 99HQ001-RV3 | RV Z-Score by BPD DeVore |
| 99GEK | | 99HQ001-RV4 | RV Percentile by BPD DeVore |
| 99GEK | | 99HQ001-RV5 | RV Z-Score by AC DeVore |
| 99GEK | | 99HQ001-RV6 | RV Percentile by AC DeVore |
| 99GEK | | 99HQ001-RV7 | RV Z-Score by FL DeVore |
| 99GEK | | 99HQ001-RV8 | RV Percentile by FL DeVore |
| 99GEK | | 99HQ001-RV9 | RV Z-Score by EFW DeVore |
| 99GEK | | 99HQ001-RV10 | RV Percentile by EFW DeVore |
| 99GEK | | 99HQ001-RV11 | RV Z-Score by Avg. US Age DeVore |
| 99GEK | | 99HQ001-RV12 | RV Percentile by Avg. US Age DeVore |
| 99GEK | | 99HQ001-RV13 | RV Z-Score by GA DeVore |
| 99GEK | | 99HQ001-RV14 | RV Percentile by GA DeVore |
| 99GEK | | 99HQ001-GH1 | Z-Score by HC DeVore |
| 99GEK | | 99HQ001-GH2 | Percentile by HC DeVore |
| 99GEK | | 99HQ001-GH3 | Z-Score by BPD DeVore |
| 99GEK | | 99HQ001-GH4 | Percentile by BPD DeVore |
| 99GEK | | 99HQ001-GH5 | Z-Score by AC DeVore |
| 99GEK | | 99HQ001-GH6 | Percentile by AC DeVore |
| 99GEK | | 99HQ001-GH7 | Z-Score by FL DeVore |
| 99GEK | | 99HQ001-GH8 | Percentile by FL DeVore |
| 99GEK | | 99HQ001-GH9 | Z-Score by EFW DeVore |
| 99GEK | | 99HQ001-GH10 | Percentile by EFW DeVore |
| 99GEK | | 99HQ001-GH11 | Z-Score by Avg. US Age DeVore |
| 99GEK | | 99HQ001-GH12 | Percentile by Avg. US Age DeVore |
| 99GEK | | 99HQ001-GH13 | Z-Score by GA DeVore |
| 99GEK | | 99HQ001-GH14 | Percentile by GA DeVore |
| 99GEK | | 99HQ001-1 | Z-Score DeVore |
| 99GEK | | 99HQ001-2 | Percentile DeVore |

B Standard Extended and Private Templates - EC350

Table B.0–132: TID 300 Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|------------|--|
| 1 | | | NUM | \$Measurement | 1 | M | | Units = \$Units |
| 2 | > | HAS CONCEPT MOD | CODE | \$ModType | 1-n | U | | \$ModValue |
| 3 | > | HAS CONCEPT MOD | CODE | EV(G-C036, SRT, "Measurement Method") | 1 | MC | | \$Method |
| 4 | > | HAS CONCEPT MOD | CODE | EV(121401, SRT, "Derivation") | 1 | U | | \$Derivation |
| 5 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1-n | U | | \$TargetSite |
| 6 | >> | HAS CONCEPT MOD | CODE | EV(G-C171, SRT, "Laterality") | 1-n | U | | DCID (244) Laterality |
| 7 | >> | HAS CONCEPT MOD | CODE | EV(G-A1F8, SRT, "Topographical modifier") | 1 | U | | \$TargetSiteMod |
| 8 | > | HAS PROPERTIES | INCLUDE | DTID 310 "Measurement Properties" | 1 | U | | \$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority |
| 9 | > | INFERRED FROM | NUM | | 1-n | U | | |
| 10 | > | R-INFERRED FROM | NUM | | 1-n | U | | |
| 11 | > | INFERRED FROM | INCLUDE | DTID 315 "Equation or Table" | 1 | UC | XOR Row 12 | \$Equation = \$Equation |
| 12 | > | INFERRED FROM | TEXT | DCID 228 "Equation or Table" | 1 | UC | XOR Row 11 | |
| 13 | > | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1-n | U | | \$Purpose = \$ImagePurpose |
| 14 | > | | INCLUDE | DTID 321 "Waveform or Temporal Coordinates" | 1-n | U | | \$Purpose = \$WavePurpose |
| 15 | > | | INCLUDE | DTID 1000 "Quotation" | 1 | U | | |

Table B.0–133: TID 310 Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|-----------|-------------------------------------|
| 1 | | | CODE | EV(121402, DCM, "Normality") | 1 | U | | DCID (222) Normality Codes |
| 2 | | | INCLUDE | DTID 311 "Measurement Statistical Properties" | 1 | U | | \$RefAuthority = \$RefAuthority |
| 3 | | | INCLUDE | DTID 312 "Normal Range Properties" | 1 | U | | \$RangeAuthority = \$RangeAuthority |

Table B.0–133: **TID 310 Measurement (continued)**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|-----|----------|-----------|----------------------------------|
| 4 | | | CODE | EV(121403, DCM, "Level of Significance") | 1 | U | | DCID (220) Level of Significance |
| 5 | | | NUM | DCID 225 "Measurement Uncertainty Concepts" | 1-n | U | | |
| 6 | | | CODE | EV(121404, DCM, "Selection Status") | 1 | U | | DCID (244) Laterality |

Table B.0–134: **TID 311 Measurement Statistical Properties**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|-----------|----------------------|
| 1 | | | NUM | DCID 221 "Measurement Range Concepts" | 1 | M | | |
| 2 | | | TEXT | EV(121405, DCM, "Population description") | 1 | U | | |
| 3 | | | TEXT | EV(121406, DCM, "Reference Authority") | 1 | UC | XOR row 3 | |
| 4 | | | CODE | EV(121406, DCM, "Reference Authority") | 1 | UC | XOR row 4 | \$RefAuthority |

Table B.0–135: **TID 312 Normal Range Properties**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|-----|----------|-----------|----------------------|
| 1 | | | NUM | DCID 223 "Normal Range Values" | 1-n | M | | |
| 2 | | | TEXT | EV(121407, DCM, "Procedure Context") | 1 | U | | |
| 3 | | | TEXT | EV(121408, DCM, "Subject Context") | 1 | UC | XOR row 4 | |
| 4 | | | CODE | EV(121408, DCM, "Normal Range Authority") | 1 | UC | XOR row 3 | |

Table B.0–136: **TID 315 Equation or Table**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|------------------|------|------------------------------|-----|----------|-----------|----------------------|
| 1 | | | CODE | DCID 228 "Equation or Table" | 1-n | M | | \$Equation |
| 2 | > | HAS PROPERTIES | NUM | | 1 | U | | |
| 3 | > | R-HAS PROPERTIES | NUM | | 1 | U | | |

Table B.0–137: TID 320 Image or Spatial Coordinates

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|--------------|----|----------|--------------|----------------------|
| 1 | | INFERRED FROM | IMAGE | \$Purpose | 1 | MC | XOR Rows 2,3 | |
| 2 | | R-INFERRED FROM | IMAGE | \$Purpose | 1 | MC | XOR Rows 1,3 | |
| 3 | | INFERRED FROM | SCoord | \$Purpose | 1 | MC | XOR Rows 1,2 | |
| 4 | > | SELECTED FROM | IMAGE | | 1 | MC | XOR Rows 5 | |
| 5 | > | R-SELECTED FROM | IMAGE | | 1 | MC | XOR Rows 4 | |

Table B.0–138: TID 321 Waveform or Temporal Coordinates

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------|----|----------|--------------|----------------------|
| 1 | | INFERRED FROM | WAVE-FORM | \$Purpose | 1 | MC | XOR Rows 2,3 | |
| 2 | | R-INFERRED FROM | WAVE-FORM | \$Purpose | 1 | MC | XOR Rows 1,3 | |
| 3 | | INFERRED FROM | TCoord | \$Purpose | 1 | MC | XOR Rows 1,2 | |
| 4 | > | SELECTED FROM | WAVE-FORM | | 1 | MC | XOR Rows 5 | |
| 5 | > | R-SELECTED FROM | WAVE-FORM | | 1 | MC | XOR Rows 4 | |

Table B.0–139: TID 1000 QUOTATION

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-----------------------------------|----|----------|--|--|
| 1 | | HAS OBS CONTEXT | CODE | EV(121001, DCM, "Quotation Mode") | 1 | M | | EV (121003, DCM, "Document") EV (121004, DCM, "Verbal") |
| 2 | | HAS OBS CONTEXT | COMPOSITE | EV(121002, DCM, "Quoted Source") | 1 | MC | Required if quoted material source is a DICOM composite object | |
| 3 | | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |

Table B.0–140: TID 1001 OBSERVATION CONTEXT

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------------------|-----|----------|--|----------------------|
| 1 | | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | MC | Required if all aspects of observer context are not inherited. | |
| 2 | | HAS OBS CONTEXT | INCLUDE | EV(1005, DCM, "Procedure Context") | 1-n | MC | Required if all aspects of observer context are not inherited. | |
| 3 | | HAS OBS CONTEXT | INCLUDE | EV(1006, DCM, "Subject Context") | 1-n | MC | Required if all aspects of observer context are not inherited. | |

Table B.0–141: TID 1002 OBSERVER CONTEXT

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|---|---|
| 1 | | HAS OBS CONTEXT | CODE | EV(121005, DCM, "Observer Type") | 1 | MC | IF Observer type is device | DCID (270) Observer Type Defaults to (121006,DCM, "Person") |
| 2 | | HAS OBS CONTEXT | INCLUDE | DTID 1003 "Person Observer identifying attributes" | 1 | MC | IFF Row 1 value = (121006,DCM, "Person") or Row 1 is absent | |
| 3 | | HAS OBS CONTEXT | INCLUDE | DTID 1004 "Device observer identifying attributes" | 1 | MC | IFF Row 1 value = (121007,DCM, "Device") | |

Table B.0–142: TID 1003 PERSON OBSERVER IDENTIFYING ATTRIBUTES

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-------|---|----|----------|-----------|--|
| 1 | | | PNAME | EV(121008, DCM, "Person Observer Name") | 1 | M | | |
| 2 | | | TEXT | EV(121009, DCM, "Person Observer's Organization Name") | 1 | U | | Defaults to Institution Name (0008,0080) of the General Equipment Module |
| 3 | | | CODE | EV(121010, DCM, "Person Observer's Role in the Organization") | 1 | U | | BCID(7452) Organizational Roles |
| 4 | | | CODE | EV(121011, DCM, "Person Observer's Role in this Procedure") | 1 | U | | BCID(7453) Performing Roles |

Table B.0–143: **TID 1004 DEVICE OBSERVER IDENTIFYING ATTRIBUTES**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|---|----|----------|-----------|--|
| 1 | | | UIDREF | EV(121012, DCM, "Device Observer UID") | 1 | M | | |
| 2 | | | TEXT | EV(121013, DCM, "Device Observer Name") | 1 | U | | Defaults to value of Station Name (0008,1010) in General Equipment Module |
| 3 | | | TEXT | EV(121014, DCM, "Device Observer Manufacturer") | 1 | U | | Defaults to value of Manufacturer (0008,0070) in General Equipment Module |
| 4 | | | TEXT | EV(121015, DCM, "Device Observer Model Name") | 1 | U | | Defaults to value of Manufacturer's Model Name (0008,1090) in General Equipment Module |
| 5 | | | TEXT | EV(121016, DCM, "Device Observer Serial Number") | 1 | U | | Defaults to value of Device Serial Number (0018,1000) in General Equipment Module |
| 6 | | | TEXT | EV(121017, DCM, "Device Observer Physical Location during observation") | 1 | U | | |

Table B.0–144: **TID 1005 PROCEDURE CONTEXT**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|--|----|----------|-----------|--|
| 1 | | | UIDREF | EV(121018, DCM, "Procedure Study Instance UID") | 1 | M | | Defaults to Study Instance UID (0020,000D) of General Study Module |
| 2 | | | TEXT | EV(121019, DCM, "Procedure Study Component UID") | 1 | U | | Defaults to Referenced SOP Instance UID (0008,1155) in Referenced Performed Procedure Step Sequence (0008,1111) of General Series Module |
| 3 | | | TEXT | EV(121020, DCM, "Device Observer Manufacturer") | 1 | U | | Defaults to (0040,2016) |

Table B.0–144: **TID 1005 PROCEDURE CONTEXT** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|-----------|---|
| 4 | | | TEXT | EV(121021, DCM, "Device Observer Model Name") | 1 | U | | Defaults to (0040,2017) |
| 5 | | | TEXT | EV(121022, DCM, "Device Observer Serial Number") | 1 | U | | Defaults to (0008,0050) |
| 6 | | | TEXT | EV(121023, DCM, "Device Observer Physical Location during observation") | 1 | U | | Defaults to Procedure Code Sequence (0008,1032) of General Study Module |

Table B.0–145: **TID 1006 SUBJECT CONTEXT**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|--|---|
| 1 | | | CODE | EV(121024, DCM, "Procedure Study Instance UID") | 1 | M | IF subject is not the Patient | DCID (271) Observation Subject Class Defaults to (121025, DCM, "Patient") |
| 2 | | | INCLUDE | DTID 1007 "Subject Context, Patient" | 1 | UC | IFF Row 1 value = (121025,DCM, "Patient") or Row 1 is absent | May be used for human or animal patients |
| 3 | | | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | UC | IFF Row 1 value = (121026,DCM, "Fetus") | May be used for human or animal fetuses |
| 4 | | | INCLUDE | DTID 1009 "Subject Context, Specimen" | 1 | UC | IFF Row 1 value = (121027, DCM, "Specimen") | |

Table B.0–146: **TID 1007 SUBJECT CONTEXT, PATIENT**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|---------------------------------|----|----------|----------------------------|---|
| 1 | | | UIDREF | EV(121028, DCM, "Subject UID") | 1 | U | | E.g. SOP Instance UID of Detached Patient Instance |
| 2 | | | PNAME | EV(121029, DCM, "Subject Name") | 1 | MC | Required if not inherited. | Defaults to value of Patient's Name (0010,0010) in Patient Module |
| 3 | | | CODE | EV(121030, DCM, "Subject ID") | 1 | MC | Required if not inherited. | Defaults to value of Patient ID (0010,0020) in Patient Module |

Table B.0–146: **TID 1007 SUBJECT CONTEXT, PATIENT** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---------------------------------------|----|----------|-----------|---|
| 4 | | | DATE | EV(121031, DCM, "Subject Birth Date") | 1 | U | | Defaults to value of Patient's Birth Date (0010,0030) in Patient Module |
| 5 | | | CODE | EV(121032, DCM, "Subject Sex") | | U | | Defaults to value equivalent to Patient's Sex (0010,0040) in Patient Module DCID (7455) Sex |
| 6 | | | NUM | EV(121033, DCM, "Subject Age") | | U | | Defaults to value of Patient's Age (0010,1010) in Patient Study Module Units DCID (7456) Units of Measure for Age |
| 7 | | | CODE | EV(121034, DCM, "Subject Species") | | MC | | DCID (7454) Species to define various animals or plants, e.g. veterinary or research. Defaults to (L-85B00, SNM3,"homo sapiens"). |

Table B.0–147: **TID 1008 SUBJECT CONTEXT, FETUS**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|------------------------------------|----|----------|--------------------|---|
| 1 | | | PNAME | EV(121036, DCM, "Mother of fetus") | 1 | U | | Defaults to an observation subject that is a patient prior to replacing the Observation Subject Class with Fetus. |
| 2 | | | UIDREF | EV(121028, DCM, "Subject UID") | 1 | U | | For longitudinal tracking of individual fetuses |
| 3 | | | TEXT | EV(121030, DCM, "Subject ID") | 1 | MC | IF row 4 is absent | For longitudinal tracking of individual fetuses (human readable value e.g. "A" or "1") |

Table B.0–147: TID 1008 SUBJECT CONTEXT, FETUS (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--------------------------------------|----|----------|--------------------|--|
| 4 | | | TEXT | EV(11951-1, LN, "Fetus ID") | 1 | MC | IF row 3 is absent | For separation of multiple fetuses during this procedure e.g. fetus '1' of '2' ...not for longitudinal comparisons.; ie. the *m* of fetus *m* of *n* |
| 5 | | | NUM | EV(11878-6, LN, "Number of Fetuses") | 1 | U | | i.e. the "n" of fetus "m" of "n" Units EV (1,UCUM,"no units") |

Table B.0–148: TID 1009 SUBJECT CONTEXT, SPECIMEN

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|---|---|
| 1 | | | UIDREF | EV(121039, DCM, "Specimen UID") | 1 | U | | |
| 2 | | | TEXT | EV(121040, DCM, "Specimen Accession Number") | 1 | U | | Defaults to value of Specimen Accession Number (0040,050A) in Specimen Identification Module |
| 3 | | | INCLUDE | DTID 1007 "patient subject context" | 1 | UC | IFF the source of the specimen is a human or animal patient | |
| 4 | | | TEXT | EV(121041, DCM, "Specimen Identifier") | 1 | U | | Defaults to value of Specimen Identifier (0040,0551) if a single item of Specimen Sequence (0040,0550) is present in Specimen Identification Module |

Table B.0-148: **TID 1009 SUBJECT CONTEXT, SPECIMEN** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|-------------------------------------|----|----------|-----------|---|
| 5 | | | CODE | EV(121042, DCM, "Specimen Type") | 1 | U | | Defaults to value of Specimen Type Code Sequence (0040,059A) if a single item of Specimen Sequence (0040,0550) is present in Specimen Identification Module |
| 6 | | | TEXT | EV(121043, DCM, "Slide Identifier") | 1 | U | | Defaults to value of Slide Identifier (0040,06FA) if a single item of Specimen Sequence (0040,0550) is present in Specimen Identification Module |
| 7 | | | UIDREF | EV(121044, DCM, "Slide UID") | 1 | U | | |

Table B.0-149: **TID 5000 OB-GYN Ultrasound Procedure Report**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV(125000, DCM, "OB-GYN Ultrasound Procedure Report") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | not used | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 5001 "Patient Characteristics" | 1 | U | | |
| 5 | > | CONTAINS | CONTAINER | DT(111028, DCM, "Image Library") | 1 | U | not used | |
| 6 | >> | CONTAINS | IMAGE | No purpose of Reference | 1-n | M | not used | |
| 7 | > | CONTAINS | INCLUDE | DTID 5002 "OB-GYN Procedure Summary Section" | 1 | U | | |
| 8 | > | CONTAINS | INCLUDE | DTID 5004 "Fetal Biometry Ratio Section" | 1-n | U | | |
| 9 | > | CONTAINS | INCLUDE | DTID 5005 "Fetal Biometry Section" | 1-n | U | | |
| 10 | > | CONTAINS | INCLUDE | DTID 5006 "Long Bones Section" | 1-n | U | | |
| 11 | > | CONTAINS | INCLUDE | DTID 5007 "Fetal Cranium Section" | 1-n | U | | |
| 12 | > | CONTAINS | INCLUDE | DTID 99004 "Fetal Anatomy" | 1-n | U | | |
| 13 | > | CONTAINS | INCLUDE | DTID 5009 "Fetal Biophysical Profile Section" | 1-n | U | | |

Table B.0-149: TID 5000 OB-GYN Ultrasound Procedure Report (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|-----------|---|
| 14 | > | CONTAINS | INCLUDE | DTID 5011 "Early Gestation Section" | 1-n | U | | |
| 15 | > | CONTAINS | INCLUDE | DTID 5010 "Amniotic Sac Section" | 1-n | U | | |
| 16 | > | CONTAINS | INCLUDE | DTID 99005 "Amniotic Sac Section old" | 1-n | U | | |
| 17 | > | CONTAINS | INCLUDE | DTID 99006 "SonoVCADLabor" | 1-n | U | | |
| 18 | > | CONTAINS | INCLUDE | DTID 5015 "Pelvis and Uterus Section" | 1 | U | | |
| 19 | > | CONTAINS | INCLUDE | DTID 5012 "Ovaries Section" | 1 | U | | |
| 20 | > | CONTAINS | INCLUDE | DTID 5013 "Follicles Section" | 1 | U | | \$Laterality = EV (G-A101, SRT, "Left") \$Number = EV (11879-4, LN, "Number of follicles in left ovary") |
| 21 | > | CONTAINS | INCLUDE | DTID 5013 "Follicles Section" | 1 | U | | \$Laterality = EV (G-A100, SRT, "Right") \$Number = EV (11880-2, LN, "Number of follicles in right ovary") |
| 22 | > | CONTAINS | INCLUDE | DTID 99008 "Follicles SonoAVC Section" | 1 | U | | \$Laterality = EV (G-A101, SRT, "Left") \$Number = EV (11879-4, LN, "Number of follicles in left ovary") |
| 23 | > | CONTAINS | INCLUDE | DTID 99008 "Follicles SonoAVC Section" | 1 | U | | \$Laterality = EV (G-A100, SRT, "Right") \$Number = EV (11880-2, LN, "Number of follicles in right ovary") |
| 24 | > | CONTAINS | INCLUDE | EV(121070, DCM, "Findings") | 1-n | U | not used | |
| 25 | >> | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | not used | EV (T-F6800, SRT, "Embryonic Vascular Structure") |
| 26 | >> | CONTAINS | INCLUDE | DTID 5025 "OB-GYN Fetal Vascular Measurement Group" | 1 | M | | \$AnatomyGroup = DCID (12141) Fetal Vasculature |
| 27 | > | CONTAINS | INCLUDE | EV(121070, DCM, "Findings") | 1-n | U | not used | |
| 28 | >> | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | EV (T-D6007, SRT, "Pelvic Vascular Structure") |

Table B.0-149: TID 5000 OB-GYN Ultrasound Procedure Report (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|--|
| 29 | >> | CONTAINS | INCLUDE | DTID 5026 "OB-GYN Pelvic Vascular Measurement Group" | 1 | M | | \$AnatomyGroup = DCID (12140) Pelvic Vasculature Anatomical Location |
| 30 | > | CONTAINS | INCLUDE | DTID 99000 "Fetus Doppler Measurements" | 1-n | U | | \$Laterality \$FindingSite |
| 31 | > | CONTAINS | INCLUDE | DTID 99001 "Maternal Doppler Measurement" | 1-n | U | | \$Laterality \$FindingSite |
| 32 | > | CONTAINS | INCLUDE | DTID 99002 "Fibroid Section" | 1 | U | | \$Number = EV (99703-0, GEK, "Number of fibroids") |
| 33 | > | CONTAINS | INCLUDE | DTID 99010 "Fetal Echo Section" | 1 | U | | |
| 34 | > | CONTAINS | INCLUDE | DTID 99012 "Pelvic Floor Section" | 1 | U | | |
| 35 | > | CONTAINS | INCLUDE | DTID 99013 "Pelvic Floor Finding Section" | 1 | U | | |
| 36 | > | CONTAINS | INCLUDE | DTID 99014 "Cardiovascular Profile Score Section" | 1 | U | | |
| 37 | > | CONTAINS | INCLUDE | DTID 99015 "GYN Kidney Section" | 1 | U | | |
| 38 | > | CONTAINS | INCLUDE | DTID 99016 "Fetal Placenta Section" | 1 | U | | |
| 39 | > | CONTAINS | INCLUDE | DTID 99018 "GYN Onco Section" | 1 | U | | |
| 40 | > | CONTAINS | INCLUDE | DTID 99019 "MVP Section" | 1 | U | | |
| 41 | > | CONTAINS | INCLUDE | DTID 99020 "Ovarian Cyst section" | 1 | U | | \$Laterality = EV (G-A101, SRT, "Left") |
| 42 | > | CONTAINS | INCLUDE | DTID 99020 "Ovarian Cyst section" | 1 | U | | \$Laterality = EV (G-A100, SRT, "Right") |
| 43 | > | CONTAINS | INCLUDE | DTID 99021 "Adnexal Cyst section" | 1 | U | | \$Laterality = EV (G-A101, SRT, "Left") |
| 44 | > | CONTAINS | INCLUDE | DTID 99021 "Adnexal Cyst section" | 1 | U | | \$Laterality = EV (G-A100, SRT, "Right") |
| 45 | > | CONTAINS | INCLUDE | DTID 99022 "Generic Cyst section" | 1 | U | | |
| 46 | > | CONTAINS | INCLUDE | DTID 99023 "Adnexal Mass section" | 1 | U | | \$Laterality = EV (G-A101, SRT, "Left") |
| 47 | > | CONTAINS | INCLUDE | DTID 99023 "Adnexal Mass section" | 1 | U | | \$Laterality = EV (G-A100, SRT, "Right") |
| 48 | > | CONTAINS | INCLUDE | DTID 99024 "Generic Mass section" | 1 | U | | |
| 49 | > | CONTAINS | INCLUDE | DTID 99025 "Ovarian Mass section" | 1 | U | | \$Laterality = EV (G-A101, SRT, "Left") |
| 50 | > | CONTAINS | INCLUDE | DTID 99025 "Ovarian Mass section" | 1 | U | | \$Laterality = EV (G-A100, SRT, "Right") |
| 51 | > | CONTAINS | INCLUDE | DTID 99026 "Bladder section" | 1 | U | | |
| 52 | > | CONTAINS | INCLUDE | DTID 99030 "IOTA Simple Rules" | 1 | U | | |
| 53 | > | CONTAINS | INCLUDE | DTID 99031 "Fetus Z-Score Calculations Section" | 1-n | U | | |

Table B.0-149: TID 5000 OB-GYN Ultrasound Procedure Report (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|--|
| 54 | > | CONTAINS | INCLUDE | DTID 99032 "User Defined Measurements OB Biometry" | 1-n | U | | |
| 55 | > | CONTAINS | INCLUDE | DTID 99033 "User Defined Measurements" | 1-n | U | | |
| 56 | > | CONTAINS | INCLUDE | DTID 99034 "GYN Findings" | 1 | U | | |
| 58 | > | CONTAINS | INCLUDE | DTID 99037 "Ieta Findings" | 1 | U | | |
| 59 | > | CONTAINS | INCLUDE | DTID 99038 "IOTA ADNEX Section" | 1 | U | | |
| 60 | > | CONTAINS | INCLUDE | DTID 99039 "Myoma" | 1 | U | | \$Number = EV (99704-1, 99GEK, "Number of myomas") |
| 61 | > | CONTAINS | INCLUDE | DTID 99041 "Fetal Heart Analysis section" | 1-n | U | | |

Table B.0-150: TID 5001 OB-GYN PATIENT CHARACTERISTICS

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV(121118, DCM, ""Patient Characteristics"") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV(121106, DCM, ""Comment"") | 1 | U | | |
| 3 | > | CONTAINS | NUM | EV(8302-2, LN, ""Patient Height"") | 1 | U | | |
| 4 | > | CONTAINS | NUM | EV(29463-7, LN, ""Patient Weight"") | 1 | U | | |
| 5 | > | CONTAINS | NUM | EV(11996-6, LN, ""Gravida"") | 1 | U | | |
| 6 | > | CONTAINS | NUM | EV(11977-6, LN, ""Para"") | 1 | U | | |
| 7 | > | CONTAINS | NUM | EV(11612-9, LN, ""Aborta"") | 1 | U | | |
| 8 | > | CONTAINS | NUM | EV(33065-4, LN, ""Ectopic Pregnancies"") | 1 | U | | |

Table B.0-151: TID 5002 OB-GYN PROCEDURE SUMMARY SECTION

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|------------------------------------|---|
| 1 | | | CONTAINER | DT(121111, DCM, "Summary") | 1 | M | | |
| 2 | > | CONTAINS | DATE | DCID 12003 "OB-GYN Dates" | 1-n | U | | |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = BCID (12018) OB-GYN Summary |
| 4 | > | CONTAINS | TEXT | EV(121106, DCM, "Comment") | 1-n | U | | |
| 5 | >> | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1-n | U | | |
| 6 | > | CONTAINS | INCLUDE | DTID 5003 "OB-GYN Fetus Summary" | 1-n | UC | No more than 1 inclusion per fetus | |

Table B.0–152: **TID 5003 OB-GYN PROCEDURE FETUS SUMMARY**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|--|--|
| 1 | | | CONTAINER | DT(125008, DCM, "Fetus Summary") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | TEXT | EV(121106, DCM, "Comment") | 1-n | U | | |
| 4 | >> | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID (12019) OB-GYN Fetus Summary, (12003) OB-GYN DATES, \$Equation = DCID (12012) OB Equations and Tables |

Table B.0–153: **TID 5004 FETAL BIOMETRY RATIO SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|--|----------------------|
| 1 | | | CONTAINER | DT(125001, DCM, "Fetus Biometry Ratios") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | NUM | DCID 12004 "Fetal Biometry Ratios" | 1-n | M | | |
| 4 | >> | R-INFERRED FROM | NUM | | 2 | U | | |
| 5 | > | HAS PROPERTIES | INCLUDE | DTID 312 "Normal Range Properties" | 1 | U | | |

Table B.0–154: **TID 5005 FETAL BIOMETRY SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|----|----------|--|----------------------|
| 1 | | | CONTAINER | DT(125002, DCM, "Fetus Biometry") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |

Table B.0–154: **TID 5005 FETAL BIOMETRY SECTION** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|----------------------------------|-----|----------|-----------|--|
| 3 | > | CONTAINS | NUM | DTID 5008 "Fetal Biometry Group" | 1-n | M | | \$BiometryType = MemberOf DCID (12005) Fetal Biometry Measurements |

Table B.0–155: **TID 5006 FETAL LONG BONES SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------------|-----|----------|--|---|
| 1 | | | CONTAINER | DT(125003, DCM, "Fetal Long Bones") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | INCLUDE | DTID 5008 "Fetal Biometry Group" | 1-n | M | | \$BiometryType = MemberOf DCID (12006) Fetal Long Bones Biometry Measurements |

Table B.0–156: **TID 5007 FETAL CRANIUM SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|-----|----------|--|--|
| 1 | | | CONTAINER | DT(125004, DCM, "Fetal Cranium") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | INCLUDE | DTID 5008 "Fetal Biometry Group" | 1-n | M | | \$BiometryType = MemberOf DCID (12007) Fetal Cranium |

Table B.0–157: **TID 5008 FETAL BIOMETRY GROUP**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|----------------------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | DT(125005, DCM, "BiometryGroup") | 1 | M | | |

Table B.0-157: **TID 5008 FETAL BIOMETRY GROUP (continued)**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|---------|---|-----|----------|--|--|
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | MC | At least one of 2 and 3 shall be present | \$Measurement = \$BiometryType \$Derivation = DCID (3627) Measurement Type |
| 3 | > | CONTAINS | NUM | EV(18185-9, DCM, "Gestational Age") | 1 | MC | At least one of 2 and 3 shall be present | Units= EV(d,UCUM,days) |
| 4 | >> | INFERRED FROM | CODE | DCID 228 "Equation or Table" | 1 | U | | DCID (12013) Gestational Age Equations and Tables |
| 5 | >> | INFERRED FROM | NUM | EV(121414, DCM, "Standard deviation of Population") | 1 | U | | |
| 6 | >>> | HAS PROPERTIES | CODE | EV(121402, DCM, "Normality") | 1 | UC | If row 5 | (SRT, R-002C4, Abnormally High), (SRT, R-002C5, Abnormally Low), (SRT, G-A460, Normal) |
| 7 | >> | R-INFERRED FROM | NUM | | 1-n | U | | |
| 8 | >> | HAS PROPERTIES | NUM | DCID 226 "Population Statistical Descriptors" | 1-n | U | | |
| 9 | > | CONTAINS | NUM | DCID 12017 "Growth Distribution Rank" | 1 | U | | |
| 10 | >> | INFERRED FROM | CODE | DCID 228 "Equation or Table" | 1 | U | | DCID (12015) Fetal Growth Equations and Tables |

Table B.0-158: **TID 5009 FETAL BIOPHYSICAL PROFILE SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|--|---------------------------------------|
| 1 | | | CONTAINER | DT(125006, DCM, "Biophysical Profile") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | NUM | EV(11631-9, LN, "Gross Body Movement") | 1 | MC | At least one of row 3-7 shall be present | Units = DT ("0:2", UCUM, "range 0:2") |
| 4 | > | CONTAINS | NUM | EV(11632-7, LN, "Fetal Breathing") | 1 | MC | At least one of row 3-7 shall be present | Units = DT ("0:2", UCUM, "range 0:2") |

Table B.0–158: **TID 5009 FETAL BIOPHYSICAL PROFILE SECTION** (continued)

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

Table B.0–159: **TID 5010 AMNIOTIC SAC SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|----|----------|--|--|
| 1 | | | CONTAINER | DT(125070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-F1300, SRT, "Amniotic Sac") |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = DT (11627-7, LN, "Amniotic Fluid Index") |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 4 | U | | \$Measurement = DCID (12008) OB-GYN Amniotic Sac |

Table B.0–160: **TID 5011 EARLY GESTATION SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|----|----------|--|----------------------|
| 1 | | | CONTAINER | DT(125009, DCM, "Early Gestation") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |

Table B.0–160: TID 5011 EARLY GESTATION SECTION (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|----------------------------------|-----|----------|-----------|--|
| 3 | > | CONTAINS | INCLUDE | DTID 5008 "Fetal Biometry Group" | 1-n | M | | \$BiometryType= Member of DCID (12009) Early Gestation Biometry Measurements |

Table B.0–161: TID 5012 OVARIES SECTION

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------------|----|----------|-----------|---|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-87000, SRT, "Ovary") |
| 3 | > | CONTAINS | INCLUDE | DTID 5016 "LWH Volume Group" | 1 | U | | \$GroupName = EV (T-87000, SRT, "Ovary") \$Width =EV (11829-9, LN, "Left Ovary Width") \$Length =EV (11840-6, LN, "Left Ovary Length") \$Height =EV (11857-0 , LN,"Left Ovary Height") \$Volume=EV (12164-0, LN, "Left Ovary Volume") |
| 4 | > | CONTAINS | INCLUDE | DTID 5016 "LWH Volume Group" | 1 | U | | \$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") |

Table B.0-162: TID 5013 FOLLICLES SECTION

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|---------------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-87600, SRT, "Ovarian Follicle") |
| 3 | > | HAS CONCEPT MOD | CODE | EV(G-C171, SRT, "Laterality") | 1 | U | | \$Laterality |
| 4 | > | CONTAINS | NUM | \$Number | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 5014 "Follicle Measurement Group" | 1-n | U | | |

Table B.0-163: TID 5014 FOLLICLE MEASUREMENT GROUP

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV(125007, DCM, "Measurement Group") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | TEXT | EV(12510, DCM, "Identifier") | 1 | U | | Unique among all groups of same laterality |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (GD705, SRT, "Volume") |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (11793-7, LN, "Follicle Diameter") \$Derivation = DCID (3627) Measurement Type |

Table B.0-164: TID 5015 PELVIS AND UTERUS SECTION

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | DT(125011, DCM, "Pelvis and Uterus") | 1 | M | | |

Table B.0–164: TID 5015 PELVIS AND UTERUS SECTION (continued)

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

Table B.0–165: TID 5016 LWH VOLUME GROUP

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------|-----|----------|--|--|
| 1 | | | CONTAINER | \$GroupName | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | MC | At least one of row 2,3,4,5 shall be present | \$Measurement = \$Volume (DCID 12011) |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | MC | At least one of row 2,3,4,5 shall be present | \$Measurement = \$Length (DCID 12011) \$Derivation = DCID (3627) Measurement Type |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | MC | At least one of row 2,3,4,5 shall be present | \$Measurement = \$Width (DCID 12011) \$Derivation = DCID (3627) Measurement Type |

Table B.0–165: **TID 5016 LWH VOLUME GROUP (continued)**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------|-----|----------|--|---|
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | MC | At least one of row 2,3,4,5 shall be present | \$Measurement = \$Height (DCID 12011) \$Derivation = DCID (3627) Measurement Type |

Table B.0–166: **TID 5025 OB-GYN FETAL VASCULAR ULTRASOUND MEASUREMENT GROUP**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|-----|----------|--|---|
| 1 | | | CONTAINER | \$AnatomyGroup | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | HAS OBS CONTEXT | CODE | EV(G-C171, SRT, "Laterality") | 1 | MC | IFF anatomy has laterality | DCID (244) Laterality |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$MeasType = DCID (12119) Vascular Ultrasound Property \$Derivation = DCID (3627) Measurement Type |

Table B.0–167: **TID 5026 OB-GYN PELVIC VASCULAR ULTRASOUND MEASUREMENT GROUP**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|----------------------------|---|
| 1 | | | CONTAINER | \$AnatomyGroup | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | EV(G-C171, SRT, "Laterality") | 1 | MC | IFF anatomy has laterality | DCID (244) Laterality |
| 3 | > | HAS OBS CONTEXT | TEXT | EV(112050, DCM, "Anatomic Identifier") | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$MeasType = DCID (12119) Vascular Ultrasound Property \$Derivation = DCID (3627) Measurement Type |

Table B.0–168: TID 5100 VASCULAR ULTRASOUND REPORT

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV(125100, DCM, "Vascular Ultrasound Procedure Report") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | CODE | EV(R-40FB8, SRT, "Temporal periods Relating to Procedure") | 1 | U | not used | DCID (12102) Intervention Phase |
| 3 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | not used | |
| 4 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 5101 "Vascular Patient Characteristics" | 1 | U | | |
| 6 | > | CONTAINS | CONTAINER | DT(111028, DCM, "Image Library") | 1 | U | not used | |
| 7 | >> | CONTAINS | IMAGE | No purpose of Reference | 1-n | M | not used | |
| 8 | > | CONTAINS | INCLUDE | DTID 5102 "Vascular Procedure Summary Section" | 1 | U | | |
| 9 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-40501, SRT, "Blood Vessel of Head"); \$SectionLaterality = EV (G-A101, SRT, "Left"); \$Anatomy = DCID (12105) Intracranial Cerebral Vessels |
| 10 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-40501, SRT, "Blood Vessel of Head"); \$SectionLaterality = EV (G-A100, SRT, "Right"); \$Anatomy = DCID (12105) Intracranial Cerebral Vessels |
| 11 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-40501, SRT, "Blood Vessel of Head"); \$SectionLaterality = EV (G-A103, SRT, "Unilateral"); \$Anatomy = DCID (12106) Intracranial Cerebral Vessels (unilateral); |

Table B.0–168: TID 5100 VASCULAR ULTRASOUND REPORT (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|-----------|--|
| 12 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-45005, SRT, "Artery of neck"); \$SectionLaterality = EV (G-A101, SRT, "Left"); \$Anatomy = DCID (12104) Extracranial Arteries; \$AnatomyRatio = DCID (12123) Carotid Ratios |
| 13 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-45005, SRT, "Artery of neck"); \$SectionLaterality = EV (G-A100, SRT, "Right"); \$Anatomy = DCID (12104) Extracranial Arteries; \$AnatomyRatio = DCID (12123) Carotid Ratios |
| 14 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-47040, SRT, "Artery of Lower Extremity"); \$SectionLaterality = EV (G-A101, SRT, "Left"); \$Anatomy = DCID (12109) Lower Extremity Arteries |
| 15 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-47040, SRT, "Artery of Lower Extremity"); \$SectionLaterality = EV (G-A100, SRT, "Right"); \$Anatomy = DCID (12109) Lower Extremity Arteries |

Table B.0-168: TID 5100 VASCULAR ULTRASOUND REPORT (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|-----------|---|
| 16 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-49403, SRT, "Vein of Lower Extremity"); \$SectionLaterality = EV (G-A101, SRT, "Left"); \$Anatomy = DCID (12110) Lower Extremity Veins |
| 17 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-49403, SRT, "Vein of Lower Extremity"); \$SectionLaterality = EV (G-A100, SRT, "Right"); \$Anatomy = DCID (12110) Lower Extremity Veins |
| 18 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity"); \$SectionLaterality = EV (G-A101, SRT, "Left"); \$Anatomy = DCID (12107) Upper Extremity Arteries |
| 19 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity"); \$SectionLaterality = EV (G-A100, SRT, "Right"); \$Anatomy = DCID (12107) Upper Extremity Arteries |
| 20 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity"); \$SectionLaterality = EV (G-A101, SRT, "Left"); \$Anatomy = DCID (12108) Upper Extremity Veins |

Table B.0-168: TID 5100 VASCULAR ULTRASOUND REPORT (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|-----------|---|
| 21 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity"); \$SectionLaterality = EV (G-A100, SRT, "Right"); \$Anatomy = DCID (12108) Upper Extremity Veins |
| 22 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$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 |
| 23 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$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 |
| 24 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-46002, SRT, "Artery of Abdomen"); \$SectionLaterality = EV (G-A101, SRT, "Left"); \$Anatomy = DCID (12111) Abdominal Arteries (lateral) |

Table B.0-168: TID 5100 VASCULAR ULTRASOUND REPORT (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|-----------|---|
| 25 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-46002, SRT, "Artery of Abdomen"); \$SectionLaterality = EV (G-A100, SRT, "Right"); \$Anatomy = DCID (12111) Abdominal Arteries (lateral) |
| 26 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-46002, SRT, "Artery of Abdomen"); \$SectionLaterality = EV (G-A103, SRT, "Unilateral"); \$Anatomy = DCID (12112) Abdominal Arteries (unilateral) |
| 27 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-487A0, SRT, "Vein of Abdomen"); \$SectionLaterality = EV (G-A101, SRT, "Left"); \$Anatomy = DCID (12113) Abdominal Veins (lateral) |
| 28 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-487A0, SRT, "Vein of Abdomen"); \$SectionLaterality = EV (G-A100, SRT, "Right"); \$Anatomy = DCID (12113) Abdominal Veins (lateral) |
| 29 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-487A0, SRT, "Vein of Abdomen"); \$SectionLaterality = EV (G-A103, SRT, "Unilateral"); \$Anatomy = DCID (12114) Abdominal Veins (unilateral) |
| 30 | > | CONTAINS | INCLUDE | DTID 5105 "Ultrasound Graft Section" | 1 | U | | |

Table B.0–168: **TID 5100 VASCULAR ULTRASOUND REPORT** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|-----------|----------------------|
| 31 | > | CONTAINS | INCLUDE | DTID 99101 "Voluson Ultrasound Graft Section" | 1 | U | | |

Table B.0–169: **TID 5102 VASCULAR PROCEDURE SUMMARY SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | DT(121111, DCM, "Summary") | 1 | M | | |
| 2 | > | | TEXT | DCID 12101 "Vascular Summary" | 1 | M | | |

Table B.0–170: **TID 5103 VASCULAR ULTRASOUND SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|--------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | \$SectionScope |
| 3 | > | HAS CONCEPT MOD | CODE | EV(G-C171, SRT, "Laterality") | 1 | U | | \$SectionLaterality |
| 4 | > | HAS CONCEPT MOD | INCLUDE | DTID 5104 "Vascular Measurement Group" | 1-n | U | | \$AnatomyGroup = \$Anatomy |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = \$AnatomyRatio |

Table B.0–171: **TID 5104 VASCULAR ULTRASOUND MEASUREMENT GROUP**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|---------------------------------------|
| 1 | | | CONTAINER | \$AnatomyGroup | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-A1F8, SRT, "Topographical Modifier") | 1 | U | | DCID (12116) Vessel Segment Modifiers |
| 3 | > | HAS CONCEPT MOD | CODE | EV(125101, DCM, "Vessel Branch") | 1 | U | | DCID (12117) Vessel Branch Modifiers |

Table B.0–171: **TID 5104 VASCULAR ULTRASOUND MEASUREMENT GROUP** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------|-----|----------|-----------|--|
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = DCID (12119) Vascular Ultrasound Property; \$Derivation = DCID (3627) Measurement Type |

Table B.0–172: **TID 5200 ECHOCARDIOGRAPHY ULTRASOUND REPORT**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV(125200, DCM, "Adult Echocardiography Procedure Report") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | not used | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 5201 "Echocardiography Patient Characteristics" | 1 | U | | |
| 5 | > | CONTAINS | CONTAINER | DT(111028, DCM, "Image Library") | 1 | U | not used | |
| 6 | >> | CONTAINS | IMAGE | No purpose of Reference | 1-n | M | not used | |
| 7 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-32600,, SRT, "Left Ventricle"); \$MeasType = DCID (12200) Echocardiography Left Ventricle |
| 8 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-32500, SRT, "Right Ventricle"); \$MeasType = DCID (12204) Echocardiography Right Ventricle |
| 9 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-32300, SRT, "Left Atrium"); \$MeasType = DCID (12205) Echocardiography Left Atrium |

Table B.0-172: TID 5200 ECHOCARDIOGRAPHY ULTRASOUND REPORT (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--------------------------|----|----------|-----------|---|
| 10 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-32200, SRT, "Right Atrium"); \$MeasType = DCID (12206) Echocardiography Right Atrium |
| 11 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-35400, SRT, "Aortic Valve"); \$MeasType = DCID (12211) Echocardiography Aortic Valve |
| 12 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-35300, SRT, "Mitral Valve"); \$MeasType = DCID (12207) Echocardiography Mitral Valve |
| 13 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-35200, SRT, "Pulmonic Valve"); \$MeasType = DCID (12209) Echocardiography Pulmonic Valve |
| 14 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-35100, SRT, "Tricuspid Valve"); \$MeasType = DCID (12208) Echocardiography Tricuspid Valve |
| 15 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-42000, SRT, "Aorta"); \$MeasType = DCID (12212) Echocardiography Aorta |

Table B.0-172: TID 5200 ECHOCARDIOGRAPHY ULTRASOUND REPORT (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|----------------------------------|-----|----------|-----------|---|
| 16 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-44000, SRT, "Pulmonary artery"); \$MeasType = DCID (12210) = Echocardiography Pulmonary Artery |
| 17 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-48600, SRT, "Vena Cava"); \$MeasType = DCID (12215) Echocardiography Vena Cavae |
| 18 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-48581, SRT, "Pulmonary Venous Structure"); \$MeasType = DCID (12214) Echocardiography Pulmonary Veins |
| 19 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (P5-30031, SRT, "Cardiac Shunt Study"); \$MeasType = DCID (12217) Echocardiography Cardiac Shunt |
| 20 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (D4-30000, SRT, "Congenital Anomaly of Cardiovascular System"); \$MeasType = DCID (12218) Echocardiography Congenital |
| 21 | > | CONTAINS | INCLUDE | DTID 5204 "Wall Motion Analysis" | 1-n | U | | \$Procedure = DT (P5-B3121, SRT, "Echocardiography for Determining Ventricular Contraction") |

Table B.0–172: **TID 5200 ECHOCARDIOGRAPHY ULTRASOUND REPORT** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--------------------------|----|----------|-----------|---|
| 22 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (8867-4, LN, "Heart Rate"); \$MeasType = DCID (12220) Echocardiography Common Measurements |

Table B.0–173: **TID 5201 ECHOCARDIOGRAPHY PATIENT CHARACTERISTICS**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV(121118, DCM, "Patient Characteristics") | 1 | M | | |
| 2 | > | CONTAINS | NUM | EV(121033, DCM, "Subject Age") | 1 | U | | Units = DCID (7456) Units of Measure for Age |
| 3 | > | CONTAINS | CODE | EV(121032, DCM, "Subject Sex") | 1 | U | | DCID (7455) Sex |
| 4 | > | CONTAINS | NUM | EV(8867-4, LN, "Heart Rate") | 1 | U | | |
| 5 | > | CONTAINS | NUM | EV(F-008EC, SRT, "Systolic Blood Pressure") | 1 | U | | |
| 6 | > | CONTAINS | NUM | EV(F-008ED, SRT, "Diastolic Blood Pressure") | 1 | U | | |
| 7 | > | CONTAINS | NUM | EV(8277-6, LN, "Body Surface Area") | 1 | M | | |
| 8 | >> | INFERRED FROM | CODE | EV(8278-4, LN, "Body Surface Area Formula") | 1 | U | | BCID (3663) Body Surface Area Equations |
| 9 | > | CONTAINS | NUM | EV(8302-2, LN, "Patient Height") | 1 | U | | |
| 10 | > | CONTAINS | NUM | EV(29463-7, LN, "Patient Weight") | 1 | U | | |

Table B.0–174: **TID 5202 ECHO SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | \$SectionSubject |
| 3 | > | CONTAINS | CONTAINER | DT(125007, DCM, "Measurement Group") | 1-n | M | | |
| 4 | >> | HAS CONCEPT MOD | CODE | EV(G-0373, SRT, "Image Mode") | 1 | U | | BCID (12224) Ultrasound Image Modes |
| 5 | >> | HAS CONCEPT MOD | CODE | DT(125203, DCM, "Acquisition Protocol") | 1 | U | | |

Table B.0–174: TID 5202 ECHO SECTION (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------------|-----|----------|-----------|--|
| 6 | >> | HAS ACQ CONTEXT | CODE | EV(18139-6, LN, "Stage") | 1 | U | | BCID (12002) Ultrasound Protocol Stage Types |
| 7 | > | CONTAINS | INCLUDE | DTID 5203 "Echo Measurement" | 1-n | U | | \$Measurement = \$MeasType; \$Method=CID (12227) Echocardiography Measurement Method |

Table B.0–175: TID 5203 ECHO MEASUREMENT

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|-----------|--|
| 1 | | | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = \$Measurement; \$Method = \$Method; \$TargetSite = BCID (12236) Echo Anatomic Sites; \$TargetSiteMod = BCID (12237) Echocardiography Anatomic Site Modifiers |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C048, SRT, "Flow Direction") | 1 | U | | BCID (12221) Flow Direction |
| 3 | > | HAS CONCEPT MOD | CODE | EV(R-40899, SRT, "Respiratory Cycle Point") | 1 | U | | DCID (12234) Respiration State |
| 3 | > | HAS CONCEPT MOD | CODE | EV(R-4089A, SRT, "Cardiac Cycle Point") | 1 | U | | DCID (12233) Cardiac Phase |
| 5 | > | HAS ACQ CONTEXT | CODE | EV(G-0373, SRT, "Image Mode") | 1 | U | | BCID (12224) Ultrasound Image Modes |
| 6 | > | HAS ACQ CONTEXT | CODE | EV(111031, DCM, "Image View") | 1 | U | | BCID (12226) Echocardiography Image View |
| 7 | > | HAS ACQ CONTEXT | CODE | EV(18139-6, LN, "Stage") | 1 | U | | BCID (12002) Ultrasound Protocol Stage Types |

Table B.0-176: TID 99000 Fetus Doppler Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------------------|-----|----------|--|---|
| 1 | | | CONTAINER | DT(99000, DCM, "Fetal Doppler") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus ID" | 1 | MC | If this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1-n | M | | \$FindingSite = EV(T-45510, SNM3 "Cerebral artery") \$Laterality= EV(G-A101, SRT, "Right") \$TargetSiteMod = EV(G-A109, SNM3, "Medial") \$MeasType = MemberOf DCID(9900) |
| 4 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-45510, SNM3 "Cerebral artery") \$Laterality=EV(G-A100, SRT, "Left") \$TargetSiteMod = EV(G-A109, SNM3, "Medial") \$MeasType = MemberOf DCID(9900) |
| 5 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-45510, SNM3 "Cerebral artery") \$Laterality= EV(G-A101, SRT, "Right") \$TargetSiteMod = EV(G-A113, SNM3, "Internal") \$MeasType = MemberOf DCID(9900) |

Table B.0–176: TID 99000 Fetus Doppler Measurements (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|----------------------------|----|----------|-----------|--|
| 6 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-45510, SNM3, "Cerebral artery") \$Laterality=EV(G-A100, SRT, "Left") \$TargetSiteMod = EV(G-A113, SNM3, "Internal") \$MeasType = MemberOf DCID(9900) |
| 7 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-46420, SNM3, "Hepatic Artery") \$MeasType = MemberOf DCID(9900) |
| 8 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-48720, SNM3, "Hepatic Vein") \$MeasType = MemberOf DCID(9901) |
| 9 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-48710, SNM3, "Inferior Vena Cava") \$MeasType = MemberOf DCID(9901) |
| 10 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-46600, SNM3, "Renal artery") \$Laterality = EV(G-A100, SRT, "Left") \$MeasType = MemberOf DCID(9900) |
| 11 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-46600, SNM3, "Renal artery") \$Laterality = EV(G-A101, SRT, "Right") \$MeasType = MemberOf DCID(9900) |

Table B.0-176: TID 99000 Fetus Doppler Measurements (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|----------------------------|----|----------|-----------|--|
| 12 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-46460, SNM3, "Splenic artery") \$MeasType = MemberOf DCID(9900) |
| 13 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-42070, SNM3, "Thoracic aorta") \$MeasType = MemberOf DCID(9900) |
| 14 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-F1810, SNM3, "Umbilical artery") \$MeasType = MemberOf DCID(12111) |
| 15 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-48817, SNM3, "Umbilical vein") \$MeasType = MemberOf DCID(9902) |
| 16 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(VP-0001, 99VP, "Ductus venosus vein") \$MeasType = MemberOf DCID(9901) |
| 17 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(T-45010, SNM3, "Carotid artery") \$Laterality = EV(G-A100, SRT, "Left") \$MeasType = MemberOf DCID(12140) |
| 18 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(T-45010, SNM3, "Carotid artery") \$Laterality = EV(G-A100, SRT, "Right") \$MeasType = MemberOf DCID(12140) |

Table B.0–176: TID 99000 Fetus Doppler Measurements (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|----------------------------|----|----------|-----------|--|
| 19 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(T-F1412, SRT, "Vitelline Artery of Placenta") \$MeasType = MemberOf DCID(12140) |
| 20 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-F1810, SNM3, "Umbilical artery") \$Laterality = EV(G-A100, SRT, "Left") \$MeasType = MemberOf DCID(12111) |
| 21 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-F1810, SNM3, "Umbilical artery") \$Laterality = EV(G-A100, SRT, "Right") \$MeasType = MemberOf DCID(12111) |
| 22 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-45600, SRT, "Middle Cerebral Artery") \$Laterality = EV(G-A100, SRT, "Left") \$MeasType = MemberOf DCID(12141) |
| 23 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-45600, SRT, "Middle Cerebral Artery") \$Laterality = EV(G-A100, SRT, "Right") \$MeasType = MemberOf DCID(12141) |
| 24 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-42000, SRT, "Aorta") \$MeasType = MemberOf DCID(12141) |

Table B.0–176: TID 99000 Fetus Doppler Measurements (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|----------------------------|----|----------|-----------|---|
| 25 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-46400, SRT, "Celiac Axis") \$MeasType = MemberOf DCID(12112) |
| 26 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(T-46510, SRT, "Superior Mesenteric Artery") \$MeasType = MemberOf DCID(12112) |
| 27 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(99918-1, GEK, "Umbilical artery") \$MeasType = MemberOf DCID(12111) |
| 28 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$FindingSite = EV(99918-2, GEK, "Inferior Vena Cava") \$MeasType = MemberOf DCID(9901) |

Table B.0–177: TID 99001 Maternal Doppler Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|--|
| 1 | | | CONTAINER | DT(99001, DCM, "Maternal Doppler Measurements") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(VP-0002, 99VP, "Uterine artery") \$Laterality = EV(G-A100, SRT, "Left") \$MeasType = MemberOf DCID(12111) |
| 3 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(VP-0002, 99VP, "Uterine artery") \$Laterality = EV(G-A101, SRT, "Right") \$MeasType = MemberOf DCID(12111) |

Table B.0-177: TID 99001 Maternal Doppler Measurements (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|----------------------------|----|----------|-----------|--|
| 4 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(VP-0003, 99VP, "Ovarian artery") \$Laterality = EV(G-A100, SRT, "Left") \$MeasType = MemberOf DCID(12111) |
| 5 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(VP-0003, 99VP, "Ovarian artery") \$Laterality = EV(G-A101, SRT, "Right") \$MeasType = MemberOf DCID(12111) |
| 6 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(VP-0001, 99VP, "Ductus Venosus") \$MeasType = MemberOf DCID(12140) |
| 7 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(T-40003, SRT, "Entire Vessel") \$MeasType = MemberOf DCID(12140) |
| 8 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(T-45010, SNM3, "Carotid artery") \$Laterality = EV(G-A100, SRT, "Left") \$MeasType = MemberOf DCID(12111) |
| 9 | > | CONTAINS | INCLUDE | DTID 99100 "Doppler Group" | 1 | M | | \$TargetSite = EV(T-45010, SNM3, "Carotid artery") \$Laterality = EV(G-A100, SRT, "Left") \$MeasType = MemberOf DCID(12111) |

Table B.0–178: **TID 99002 FIBROID SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|--------------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (99008-0, GEK, "Ovarian Fibroid") |
| 3 | > | CONTAINS | NUM | \$Number | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 99003 "Fibroid Measurement Group" | 1-n | U | | |

Table B.0–179: **TID 99003 FIBROID MEASUREMENT GROUP**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV(125007, DCM, "Measurement Group") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | TEXT | EV(12510, DCM, "Identifier") | 1 | U | | Unique among whole group |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (GD705, SRT, "Volume") |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (99706-0, GEK, "Fibroid Diameter") \$Derivation = DCID (3627) Measurement Type |

Table B.0–180: **TID 99004 Fetal Anatomy**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------------------|----|----------|--|----------------------|
| 1 | | | CONTAINER | DT(99801-0, GEK, "Fetal Anatomy") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | NUM | EV(99801-1, GEK, "Abd Cord Insert") | 1 | MC | | OB_FA_AbdWall |
| 4 | > | CONTAINS | NUM | EV(99801-2, GEK, "Stomach") | 1 | MC | | OB_FA_Stomach |
| 5 | > | CONTAINS | NUM | EV(99801-3, GEK, "Right Kidney") | 1 | MC | | OB_FA_RKidney |
| 6 | > | CONTAINS | NUM | EV(99801-4, GEK, "Upper Extremities") | 1 | MC | | OB_FA_UpExtr |
| 7 | > | CONTAINS | NUM | EV(99801-5, GEK, "Spine") | 1 | MC | | OB_FA_Spine |
| 8 | > | CONTAINS | NUM | EV(99801-6, GEK, "Left Kidney") | 1 | MC | | OB_FA_LKidney |
| 9 | > | CONTAINS | NUM | EV(99801-7, GEK, "Bladder") | 1 | MC | | OB_FA_Bladder |

Table B.0–180: TID 99004 Fetal Anatomy (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|----|----------|-----------|----------------------|
| 10 | > | CONTAINS | NUM | EV(99801-8, GEK, "Lower Extremities") | 1 | MC | | OB_FA.LowExtrem |
| 11 | > | CONTAINS | NUM | EV(99801-9, GEK, "Diaphragm") | 1 | MC | | OB_FA.Diaphragm |
| 12 | > | CONTAINS | NUM | EV(99801-10, GEK, "Lateral Ventricles") | 1 | MC | | OB_FB.LatVent |
| 13 | > | CONTAINS | NUM | EV(99801-11, GEK, "Cerebellum") | 1 | MC | | OB_FB.Cereb |
| 14 | > | CONTAINS | NUM | EV(99801-12, GEK, "Cist Magna") | 1 | MC | | OB_FB.CistMagna |
| 15 | > | CONTAINS | NUM | EV(99801-13, GEK, "4 Chamber") | 1 | MC | | OB_FH.4Chamber |
| 16 | > | CONTAINS | NUM | EV(99801-14, GEK, "Left Outflow Tract") | 1 | MC | | OB_FH.LOT |
| 17 | > | CONTAINS | NUM | EV(99801-15, GEK, "Right Outflow Tract") | 1 | MC | | OB_FH.ROT |
| 18 | > | CONTAINS | NUM | EV(99801-16, GEK, "3 Vessel") | 1 | MC | | OB_FH.3Vessel |
| 19 | > | CONTAINS | NUM | EV(99801-17, GEK, "Aortic Arch") | 1 | MC | | OB_FH.AoArch |
| 20 | > | CONTAINS | NUM | EV(99801-18, GEK, "Cardiac Rhythm") | 1 | MC | | OB_FH.CardRh |
| 21 | > | CONTAINS | NUM | EV(99801-19, GEK, "Ductal Arch") | 1 | MC | | OB_FH.DuctArch |
| 22 | > | CONTAINS | NUM | EV(99801-20, GEK, "Fetal Position") | 1 | MC | | OB_FD.FetPos |
| 23 | > | CONTAINS | NUM | EV(99801-21, GEK, "Fetal Spine") | 1 | MC | | OB_FD.FetSpine |
| 24 | > | CONTAINS | NUM | EV(99801-22, GEK, "Placenta Grade") | 1 | MC | | OB_FD.PlacGrade |
| 25 | > | CONTAINS | NUM | EV(99801-23, GEK, "Cord Insertion") | 1 | MC | | OB_FD.CordIns |
| 26 | > | CONTAINS | NUM | EV(99801-24, GEK, "Face") | 1 | MC | | OB_FD.Face |
| 27 | > | CONTAINS | NUM | EV(99801-25, GEK, "Fetal Head") | 1 | MC | | OB_FD.FetHead |
| 28 | > | CONTAINS | NUM | EV(99801-26, GEK, "Placenta Location") | 1 | MC | | OB_FD.PlacLoc |
| 29 | > | CONTAINS | NUM | EV(99801-27, GEK, "3 V Cord") | 1 | MC | | OB_FD.3VCord |
| 30 | > | CONTAINS | NUM | EV(99801-28, GEK, "Amniotic Fluid") | 1 | MC | | OB_FD.AmnFluid |
| 31 | > | CONTAINS | INCLUDE | DTID 99029 "Fetal Anatomy Findings" | 1 | MC | | |

Table B.0–181: TID 99005 AMNIOTIC SAC SECTION OLD

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|----|----------|--|--|
| 1 | | | CONTAINER | DT(125070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-F1300, SRT, "Amniotic Sac") |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = DT (11627-7, LN, "Amniotic Fluid Index") |

Table B.0–181: **TID 99005 AMNIOTIC SAC SECTION OLD** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------|----|----------|-----------|--|
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 4 | U | | \$Measurement = DCID (99102) OB-GYN Amniotic Sac Old |

Table B.0–182: **TID 99006 SonoVCADLabor SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|-----|----------|--|-------------------------------------|
| 1 | | | CONTAINER | DT(125070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (99016-0, GEK, "SonoVCAD-Labor") |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 5 | > | CONTAINS | INCLUDE | DTID 99007 "Measurement Group" | 1-n | U | | |

Table B.0–183: **TID 99007 SonoVCADLabor MEASUREMENT GROUP**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|----|----------|-----------|---|
| 1 | | | CONTAINER | EV(125007, DCM, "Measurement Group") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | TEXT | EV(12510, DCM, "Identifier") | 1 | U | | Unique among all groups of same laterality |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID (99103) SonoVCAD-Labor |

Table B.0–184: **TID 99008 FOLLICLES SonoAVC SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------------|----|----------|-----------|---|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (99015-9, GEK, "Ovarian Follicle SonoAVC") |

Table B.0–184: **TID 99008 FOLLICLES SonoAVC SECTION** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|----------------------|
| 3 | > | HAS CONCEPT MOD | CODE | EV(G-C171, SRT, "Laterality") | 1 | U | | \$Laterality |
| 4 | > | CONTAINS | NUM | \$Number | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 99009 "Follicle SonoAVC Measurement Group" | 1-n | U | | |

Table B.0–185: **TID 99009 FOLLICLE SonoAVC MEASUREMENT GROUP**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV(125007, DCM, "Measurement Group") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | TEXT | EV(12510, DCM, "Identifier") | 1 | U | | Unique among all groups of same laterality |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID (99104") |

Table B.0–186: **TID 99010 Fetal Echo Section**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------------------|-----|----------|--|----------------------|
| 1 | | | CONTAINER | DT(99901-0, GEK, "Fetal Echo") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus ID" | 1 | MC | If this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | INCLUDE | DTID 99011 "Fetal Echo Group" | 1-n | M | | |

Table B.0–187: **TID 99011 Fetal Echo GROUP**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------------------|----|----------|-----------|---|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | MC | | MemberOf DCID (99107) Fetal Echo Finding Site |
| 3 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Measurement Method") | 1 | MC | | MemberOf DCID (99106) Fetal Echo Measurement Method |

Table B.0–187: **TID 99011 Fetal Echo GROUP** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------|-----|----------|-----------|---|
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID (99105) Fetal Echo Measurement |

Table B.0–188: **TID 99012 Pelvic Floor SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-----------------------------|-----|----------|-----------|-------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID (99104") |

Table B.0–189: **TID 99013 Pelvic Floor Finding Section**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-----------------------------|-----|----------|-----------|-------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID (99104") |

Table B.0–190: **TID 99014 Cardiovascular Profile Score**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|--|---------------------------------------|
| 1 | | | CONTAINER | DT(99802-0, GEK, "Cardiovascular Profile Score") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | NUM | EV(99802-1, GEK, "Hydrops") | 1 | MC | At least one of row 3-7 shall be present | Units = DT ("0:2", UCUM, "range 0:2") |
| 4 | > | CONTAINS | NUM | EV(99802-2, GEK, "Heart Size") | 1 | MC | At least one of row 3-7 shall be present | Units = DT ("0:2", UCUM, "range 0:2") |
| 5 | > | CONTAINS | NUM | EV(99802-3, GEK, "Cardiac Function") | 1 | MC | At least one of row 3-7 shall be present | Units = DT ("0:2", UCUM, "range 0:2") |

Table B.0–190: **TID 99014 Cardiovascular Profile Score (continued)**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|--|----|----------|--|---------------------------------------|
| 6 | > | CONTAINS | NUM | EV(99802-4, GEK, "Venous Doppler") | 1 | MC | At least one of row 3-7 shall be present | Units = DT ("0:2", UCUM, "range 0:2") |
| 7 | > | CONTAINS | NUM | EV(99802-5, GEK, "Arterial Doppler") | 1 | MC | At least one of row 3-7 shall be present | Units = DT ("0:2", UCUM, "range 0:2") |
| 8 | > | CONTAINS | NUM | DT(99802-6, GEK, "Cardiovascular Profile Score Sum") | 1 | U | | |

Table B.0–191: **TID 99015 GYN Kidney Section**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------|-----|----------|-----------|-------------------------------|
| 1 | | | CONTAINER | DT(99030-0, GEK, "GYN Kidney") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID (99110") |

Table B.0–192: **TID 99016 Fetal Placenta Section**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|-----|----------|--|---|
| 1 | | | CONTAINER | DT(99032-0, GEK, "Fetal Placenta") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | NUM | DTID 99017 "Fetal Placenta Group" | 1-n | M | | \$MeasurementType = MemberOf DCID (99111) Fetal Placenta Measurements |

Table B.0–193: **TID 99017 FETAL Placenta GROUP**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-----------------------------------|-----|----------|-----------|-------------------------------|
| 1 | | | CONTAINER | DT(99032-0, DCM, "PlacentaGroup") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID (99111") |
| 7 | >> | R-INFERRED FROM | NUM | | 1-n | U | | |

Table B.0–193: **TID 99017 FETAL Placenta GROUP (continued)**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|-----|----------|-----------|--|
| 8 | >> | HAS PROPERTIES | NUM | DCID 226 "Population Statistical Descriptors" | 1-n | U | | |
| 9 | > | CONTAINS | NUM | DCID 12017 "Growth Distribution Rank" | 1 | U | | |
| 10 | >> | INFERRED FROM | CODE | DCID 228 "Equation or Table" | 1 | U | | DCID (12015) Fetal Growth Equations and Tables |

Table B.0–194: **TID 99018 GYN Onco Section**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|---------------------------------|--|
| 1 | | | CONTAINER | DT(99810-0, GEK, "GYN Onco") | 1 | U | | |
| 2 | > | CONTAINS | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 3 | >> | CONTAINS | TEXT | EV(99810-1, GEK, "Patient age") | 1 | U | | Units DCID (7456) Units of Measure for Age |
| 4 | >> | CONTAINS | TEXT | EV(99810-2, GEK, "Ascites presence") | 1 | U | | Units = DT ("0:1", UCUM, "range 0:1") |
| 5 | >> | CONTAINS | TEXT | EV(99810-3, GEK, "Blood flow") | 1 | U | | Units = DT ("0:1", UCUM, "range 0:1") |
| 6 | >> | CONTAINS | TEXT | EV(99810-4, GEK, "Max. dia solid component") | 1 | U | | Units = \$Units |
| 7 | >> | CONTAINS | TEXT | EV(99810-5, GEK, "Irregular internal cyst walls") | 1 | U | | Units = DT ("0:1", UCUM, "range 0:1") |
| 8 | >> | CONTAINS | TEXT | EV(99810-6, GEK, "Acoustic shadow") | 1 | U | | Units = DT ("0:1", UCUM, "range 0:1") |
| 9 | >> | CONTAINS | TEXT | DT(99810-7, GEK, "Malignant Value") | 1 | UC | all of row 3-8 shall be present | Units = \$Units |

Table B.0–195: **TID 99019 MVP SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|----|----------|--|----------------------|
| 1 | | | CONTAINER | DT(99811-0, DCM, "MVP") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |

Table B.0–195: **TID 99019 MVP SECTION** (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|----------------------------------|-----|----------|-----------|--|
| 3 | > | CONTAINS | NUM | DTID 5008 "Fetal Biometry Group" | 1-n | M | | \$BiometryType = MemberOf DCID (12005) Fetal Biometry Measurements |

Table B.0–196: **TID 99020 Ovarian Cyst SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------------|-----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (99812-1, 99GEK, "Ovarian Cyst") |
| 3 | > | HAS CONCEPT MOD | CODE | EV(G-C171, SRT, "Laterality") | 1 | M | | \$Laterality |
| 4 | > | CONTAINS | INCLUDE | DTID 99027 "Cyst Measurement Group" | 1-n | U | | |

Table B.0–197: **TID 99021 Adnexal Cyst SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------------|-----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (99812-7, 99GEK, "Adnexal Cyst") |
| 3 | > | HAS CONCEPT MOD | CODE | EV(G-C171, SRT, "Laterality") | 1 | M | | \$Laterality |
| 4 | > | CONTAINS | INCLUDE | DTID 99027 "Cyst Measurement Group" | 1-n | U | | |

Table B.0–198: **TID 99022 Generic Cyst SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------------|-----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (99812-5, 99GEK, "Generic Cyst") |
| 4 | > | CONTAINS | INCLUDE | DTID 99027 "Cyst Measurement Group" | 1-n | U | | |

Table B.0–199: **TID 99023 Adnexal Mass SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------------|-----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (99812-6, 99GEK, "Adnexal Mass") |
| 3 | > | HAS CONCEPT MOD | CODE | EV(G-C171, SRT, "Laterality") | 1 | M | | \$Laterality |
| 4 | > | CONTAINS | INCLUDE | DTID 99028 "Mass Measurement Group" | 1-n | U | | |

Table B.0–200: **TID 99024 Generic Mass SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------------|-----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (99812-0, 99GEK, "Generic Mass") |
| 4 | > | CONTAINS | INCLUDE | DTID 99028 "Mass Measurement Group" | 1-n | U | | |

Table B.0–201: **TID 99025 Ovarian Mass SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------------|-----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (99812-2, 99GEK, "Ovarian Mass") |
| 3 | > | HAS CONCEPT MOD | CODE | EV(G-C171, SRT, "Laterality") | 1 | M | | \$Laterality |
| 4 | > | CONTAINS | INCLUDE | DTID 99028 "Mass Measurement Group" | 1-n | U | | |

Table B.0–202: **TID 99026 Bladder SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | CONTAINS | Container | DT(99813-0, 99GEK, "Bladder") | 1 | M | | |

Table B.0–202: TID 99026 Bladder SECTION (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------------|----|----------|-----------|--|
| 3 | >> | CONTAINS | INCLUDE | DTID 5016 "LWH Volume Group" | 1 | U | | \$GroupName = EV (99813-0, 99GEK, "Bladder") \$Width = EV (99813-3, 99GEK, "Bladder Width") \$Length = EV (99813-2, 99GEK, "Bladder Length") \$Height = EV (99813-4, 99GEK, "Bladder Height") \$Volume = EV (99813-1, 99GEK, "Bladder Volume") |

Table B.0–203: TID 99027 CYST MEASUREMENT GROUP

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV(125007, DCM, "Measurement Group") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | TEXT | EV(12510, DCM, "Identifier") | 1 | U | | Unique among all groups of same laterality |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (G-D705, SRT, "Volume") |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (99812-3, 99GEK, "Cyst Diameter") \$Derivation = DCID (3627) Measurement Type |

Table B.0–204: TID 99028 MASS MEASUREMENT GROUP

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV(125007, DCM, "Measurement Group") | 1 | M | | |

Table B.0–204: **TID 99028 MASS MEASUREMENT GROUP (continued)**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------------|-----|----------|-----------|---|
| 2 | > | HAS OBS CONTEXT | TEXT | EV(12510, DCM, "Identifier") | 1 | U | | Unique among all groups of same laterality |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (G-D705, SRT, "Volume") |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (99812-4, 99GEK, "Mass Diameter") \$Derivation = DCID (3627) Measurement Type |

Table B.0–205: **TID 99029 Fetal Anatomy Findings**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|--|
| 1 | | | CODE | EV(99700-0, 99GEK, "Fetal Anatomy Findings") | 1 | M | | |
| 2 | > | HAS PROPERTIES | CODE | DCID 99115 "Fetal Anatomy Item" | 1-n | U | | DCID 99116 Fetal Anatomy Normality Codes |
| 3 | > | HAS PROPERTIES | TEXT | DCID 99117 "Fetal Anatomy Item Detail" | 1-n | U | | |

Table B.0–206: **TID 99030 IOTA Simple Rules Findings**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|--------------------------|
| 1 | | | CONTAINER | DT(99810-20, 99GEK, "Fetal Anatomy") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV(99810-22, 99GEK, "IOTA Simple Rules Findings") | 1 | M | | |
| 3 | >> | HAS PROPERTIES | CODE | DCID 99118 "IOTA SR Item" | 1-n | U | | DCID 99119 IOTA SR Codes |
| 3 | > | HAS PROPERTIES | TEXT | DCID 99118 "IOTA SR Item" | 1-n | U | | |

Table B.0–207: **TID 99031 Fetus Z-Score Calculations SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | DT(99928-0, 99GEK, "Fetus Z-Score Calculations") | 1 | M | | |

Table B.0-207: **TID 99031 Fetus Z-Score Calculations SECTION (continued)**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|--|--------------------------------|
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | NUM | DCID 99120 " Fetus Z-Score Calculations" | 1-n | M | | |
| 4 | >> | R-INFERRED FROM | NUM | DCID 228 "Equation or Table" | 1 | U | | DCID (99121) Z-Score Equations |

Table B.0-208: **TID 99032 User Defined Measurements OB Biometry SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|--|--|
| 1 | | | CONTAINER | DT(99999-1, 99GEK, "User Defined Measurements OB Biometry") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | NUM | DTID 5008 "Fetal Biometry Group" | 1-n | M | | \$BiometryType = MemberOf DCID (99122) User Defined Measurements |

Table B.0-209: **TID 99033 User Defined Measurements SECTION**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | DT(99999-0, 99GEK, "User Defined Measurements") | 1 | M | | |
| 3 | > | CONTAINS | NUM | DT(99999-2, 99GEK, "User Defined Measurement Group") | 1-n | M | | \$BiometryType = MemberOf DCID (99122) User Defined Measurements |
| 3 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID (99122) User Defined Measurements \$Derivation = DCID (3627) Measurement Type |

Table B.0–210: **TID 99034 Gyn Findings**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | | CONTAINER | DT(99703-1, 99GEK, "Findings") | 1 | M | | |
| | > | HAS PROPERTIES | CODE | DCID 99123 "Gyn Findings Item" | 1-n | U | | DCID 99124 Gyn Findings Normality Codes |
| | > | HAS PROPERTIES | TEXT | DCID 99125 "Gyn Findings Item Details" | 1-n | U | | |

Table B.0–211: **TID 99037 IETA Findings**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------|-----|----------|-----------|---|
| 1 | | | CONTAINER | DT(99705-0, 99GEK, "IETA") | 1 | M | | |
| | > | HAS PROPERTIES | CODE | DCID 99127 "IETA Item" | 1-n | U | | DCID 99128 Gyn Findings Normality Codes |
| | > | HAS PROPERTIES | TEXT | DCID 99129 "IETA Item Details" | 1-n | U | | |

Table B.0–212: **TID 99038 IOTA ADNEX Section**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | DT(99814-0, 99GEK, "IOTA ADNEX Model") | 1 | U | | |
| 2 | > | CONTAINS | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 3 | >> | CONTAINS | TEXT | EV(99814-1, 99GEK, "IOTA ADNEX Patient age [years]") | 1 | U | | Units DCID (7456) Units of Measure for Age |
| 4 | >> | CONTAINS | TEXT | EV(99814-2, 99GEK, "IOTA ADNEX Max. lesion dia. [mm]") | 1 | U | | Units = \$Units |
| 5 | >> | CONTAINS | TEXT | EV(99814-3, 99GEK, "IOTA ADNEX max solid component Dia. [mm]") | 1 | U | | Units = \$Units |
| 6 | >> | CONTAINS | TEXT | EV(99814-4, 99GEK, "More than 10 locules") | 1 | U | | Units = DT ("0:1", UCUM, "range 0:1") |
| 7 | >> | CONTAINS | TEXT | EV(99814-5, 99GEK, "Number of papillations (papillary projections)") | 1 | U | | Units = DT ("0:4", UCUM, "range 0:4") |
| 8 | >> | CONTAINS | TEXT | EV(99814-6, 99GEK, "Acoustic shadows present") | 1 | U | | Units = DT ("0:1", UCUM, "range 0:1") |
| 9 | >> | CONTAINS | TEXT | EV(99814-7, 99GEK, "Ascites (fluid outside pelvis) present") | 1 | U | | Units = DT ("0:1", UCUM, "range 0:1") |

Table B.0–212: TID 99038 IOTA ADNEX Section (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|----|----------|---------------------------------|---------------------------------------|
| 10 | >> | CONTAINS | TEXT | EV(99814-8, 99GEK, "Serum CA-125 [U/ml]") | 1 | U | | Units = DT ("0:1", UCUM, "range 0:1") |
| 11 | >> | CONTAINS | TEXT | DT(99814-9, 99GEK, "Patient Specific Risk Values: Benign;Malignancy;Borderline;StageI;SatgeII-IV;Metastatic") | 1 | UC | all of row 3-9 shall be present | Units = \$Units |

Table B.0–213: TID 99039 Myoma SECTION

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|-----|----------|-----------|-----------------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT 99704-4, 99GEK, "Myoma") |
| 3 | > | CONTAINS | NUM | \$Number | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 99040 "Myoma Measurement Group" | 1-n | U | | |

Table B.0–214: TID 99040 Myoma MEASUREMENT GROUP

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV(125007, DCM, "Measurement Group") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | TEXT | EV(12510, DCM, "Identifier") | 1 | U | | Unique among whole group |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (GD705, SRT, "Volume") |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (99704-3, 99GEK, "Myoma Diameter") \$Derivation = DCID (3627) Measurement Type |

Table B.0–215: TID 99041 Fetal Heart Analysis Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|--|----------------------|
| 1 | | | CONTAINER | DT(99HQ000-1, 99GEK, "Fetal Heart Analysis (based on Speckle Tracking)") | 1 | U | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | CONTAINER | DT(99HQ000-2, 99GEK, "Global Size") | 1-n | U | | |
| 4 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1-n | U | | |
| 5 | > | CONTAINS | CONTAINER | DT(99HQ000-3, 99GEK, "Global Shape") | 1-n | U | | |
| 6 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1-n | U | | |
| 7 | > | CONTAINS | CONTAINER | DT(99HQ000-4, 99GEK, "Ventricular Size") | 1-n | U | | |
| 8 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1-n | U | | |
| 9 | > | CONTAINS | CONTAINER | DT(99HQ000-5, 99GEK, "Ventricular Contractility") | 1-n | U | | |
| 10 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1-n | U | | |
| 11 | > | CONTAINS | CONTAINER | DT(99HQ000-6, 99GEK, "24SegmentAnalysis LV") | 1 | U | | |
| 12 | >> | CONTAINS | INCLUDE | DTID 99043 "24Segment Group" | 1-n | U | | |
| 13 | > | CONTAINS | CONTAINER | DT(99HQ000-7, 99GEK, "24SegmentAnalysis RV") | 1 | U | | |
| 14 | >> | CONTAINS | INCLUDE | DTID 99043 "24Segment Group" | 1-n | U | | |

Table B.0–216: TID 99042 Fetal Heart Measurement Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV(125007, DCM, "Measurement Group") | 1 | M | | |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement =DCID (99130) Fetal Heart Analysis Measurements |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement =DCID (99130) Fetal Heart Analysis Measurements \$Derivation = DCID (99131) Fetal Heart Analysis Equations |

Table B.0–217: **TID 99043 24Segment Group**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | CONTAINS | CONTAINER | DT(99HQ000-8, 99GEK, "LV Seg1") | 1 | U | | |
| 2 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 3 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 4 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 5 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 6 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 7 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 8 | | CONTAINS | CONTAINER | DT(99HQ000-9, 99GEK, "LV Seg2") | 1 | U | | |
| 9 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 10 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 11 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 12 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 13 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 14 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 15 | | CONTAINS | CONTAINER | DT(99HQ000-10, 99GEK, "LV Seg3") | 1 | U | | |
| 16 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 17 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 18 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 19 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 20 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 21 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 22 | | CONTAINS | CONTAINER | DT(99HQ000-11, 99GEK, "LV Seg4") | 1 | U | | |
| 23 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 24 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 25 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 26 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 27 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 28 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 29 | | CONTAINS | CONTAINER | DT(99HQ000-12, 99GEK, "LV Seg5") | 1 | U | | |

Table B.0–217: TID 99043 24Segment Group (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 30 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 31 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 32 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 33 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 34 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 35 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 36 | | CONTAINS | CONTAINER | DT(99HQ000-13, 99GEK, "LV Seg6") | 1 | U | | |
| 37 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 38 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 39 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 40 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 41 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 42 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 43 | | CONTAINS | CONTAINER | DT(99HQ000-14, 99GEK, "LV Seg7") | 1 | U | | |
| 44 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 45 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 46 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 47 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 48 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 49 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 50 | | CONTAINS | CONTAINER | DT(99HQ000-15, 99GEK, "LV Seg8") | 1 | U | | |
| 51 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 52 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 53 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 54 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 55 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 56 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 57 | | CONTAINS | CONTAINER | DT(99HQ000-16, 99GEK, "LV Seg9") | 1 | U | | |
| 58 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |

Table B.0–217: TID 99043 24Segment Group (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 59 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 60 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 61 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 62 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 63 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 64 | | CONTAINS | CONTAINER | DT(99HQ000-17, 99GEK, "LV Seg10") | 1 | U | | |
| 65 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 66 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 67 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 68 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 69 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 70 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 71 | | CONTAINS | CONTAINER | DT(99HQ000-18, 99GEK, "LV Seg11") | 1 | U | | |
| 72 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 73 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 74 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 75 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 76 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 77 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 78 | | CONTAINS | CONTAINER | DT(99HQ000-19, 99GEK, "LV Seg12") | 1 | U | | |
| 79 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 80 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 81 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 82 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 83 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 84 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 85 | | CONTAINS | CONTAINER | DT(99HQ000-20, 99GEK, "LV Seg13") | 1 | U | | |
| 86 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 87 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |

Table B.0–217: TID 99043 24Segment Group (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 88 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 89 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 90 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 91 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 92 | | CONTAINS | CONTAINER | DT(99HQ000-21, 99GEK, "LV Seg14") | 1 | U | | |
| 93 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 94 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 95 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 96 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 97 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 98 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 99 | | CONTAINS | CONTAINER | DT(99HQ000-22, 99GEK, "LV Seg15") | 1 | U | | |
| 100 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 101 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 102 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 103 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 104 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 105 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 106 | | CONTAINS | CONTAINER | DT(99HQ000-23, 99GEK, "LV Seg16") | 1 | U | | |
| 107 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 108 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 109 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 110 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 111 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 112 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 113 | | CONTAINS | CONTAINER | DT(99HQ000-24, 99GEK, "LV Seg17") | 1 | U | | |
| 114 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 115 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 116 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |

Table B.0–217: TID 99043 24Segment Group (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 117 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 118 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 119 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 120 | | CONTAINS | CONTAINER | DT(99HQ000-25, 99GEK, "LV Seg18") | 1 | U | | |
| 121 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 122 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 123 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 124 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 125 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 126 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 127 | | CONTAINS | CONTAINER | DT(99HQ000-26, 99GEK, "LV Seg19") | 1 | U | | |
| 128 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 129 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 130 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 131 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 132 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 133 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 134 | | CONTAINS | CONTAINER | DT(99HQ000-27, 99GEK, "LV Seg20") | 1 | U | | |
| 135 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 136 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 137 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 138 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 139 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 140 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 141 | | CONTAINS | CONTAINER | DT(99HQ000-28, 99GEK, "LV Seg21") | 1 | U | | |
| 142 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 143 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 144 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 145 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |

Table B.0–217: TID 99043 24Segment Group (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 146 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 147 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 148 | | CONTAINS | CONTAINER | DT(99HQ000-29, 99GEK, "LV Seg22") | 1 | U | | |
| 149 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 150 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 151 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 152 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 153 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 154 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 155 | | CONTAINS | CONTAINER | DT(99HQ000-30, 99GEK, "LV Seg23") | 1 | U | | |
| 156 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 157 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 158 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 159 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 160 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 161 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 162 | | CONTAINS | CONTAINER | DT(99HQ000-31, 99GEK, "LV Seg24") | 1 | U | | |
| 163 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 164 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 165 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 166 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 167 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 168 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 169 | | CONTAINS | CONTAINER | DT(99HQ000-32, 99GEK, "RV Seg1") | 1 | U | | |
| 170 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 171 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 172 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 173 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 174 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |

Table B.0–217: TID 99043 24Segment Group (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 175 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 176 | | CONTAINS | CONTAINER | DT(99HQ000-33, 99GEK, "RV Seg2") | 1 | U | | |
| 177 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 178 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 179 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 180 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 181 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 182 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 183 | | CONTAINS | CONTAINER | DT(99HQ000-34, 99GEK, "RV Seg3") | 1 | U | | |
| 184 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 185 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 186 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 187 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 188 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 189 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 190 | | CONTAINS | CONTAINER | DT(99HQ000-35, 99GEK, "RV Seg4") | 1 | U | | |
| 191 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 192 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 193 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 194 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 195 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 196 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 197 | | CONTAINS | CONTAINER | DT(99HQ000-36, 99GEK, "RV Seg5") | 1 | U | | |
| 198 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 199 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 200 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 201 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 202 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 203 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |

Table B.0–217: TID 99043 24Segment Group (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 204 | | CONTAINS | CONTAINER | DT(99HQ000-37, 99GEK, "RV Seg6") | 1 | U | | |
| 205 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 206 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 207 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 208 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 209 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 210 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 211 | | CONTAINS | CONTAINER | DT(99HQ000-38, 99GEK, "RV Seg7") | 1 | U | | |
| 212 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 213 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 214 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 215 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 216 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 217 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 218 | | CONTAINS | CONTAINER | DT(99HQ000-39, 99GEK, "RV Seg8") | 1 | U | | |
| 219 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 220 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 221 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 222 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 223 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 224 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 225 | | CONTAINS | CONTAINER | DT(99HQ000-40, 99GEK, "RV Seg9") | 1 | U | | |
| 226 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 227 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 228 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 229 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 230 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 231 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 232 | | CONTAINS | CONTAINER | DT(99HQ000-41, 99GEK, "RV Seg10") | 1 | U | | |

Table B.0–217: TID 99043 24Segment Group (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 233 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 234 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 235 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 236 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 237 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 238 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 239 | | CONTAINS | CONTAINER | DT(99HQ000-42, 99GEK, "RV Seg11") | 1 | U | | |
| 240 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 241 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 242 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 243 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 244 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 245 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 246 | | CONTAINS | CONTAINER | DT(99HQ000-43, 99GEK, "RV Seg12") | 1 | U | | |
| 247 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 248 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 249 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 250 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 251 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 252 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 253 | | CONTAINS | CONTAINER | DT(99HQ000-44, 99GEK, "RV Seg13") | 1 | U | | |
| 254 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 255 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 256 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 257 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 258 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 259 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 260 | | CONTAINS | CONTAINER | DT(99HQ000-45, 99GEK, "RV Seg14") | 1 | U | | |
| 261 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |

Table B.0–217: TID 99043 24Segment Group (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 262 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 263 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 264 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 265 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 266 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 267 | | CONTAINS | CONTAINER | DT(99HQ000-46, 99GEK, "RV Seg15") | 1 | U | | |
| 268 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 269 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 270 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 271 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 272 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 273 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 274 | | CONTAINS | CONTAINER | DT(99HQ000-47, 99GEK, "RV Seg16") | 1 | U | | |
| 275 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 276 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 277 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 278 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 279 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 280 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 281 | | CONTAINS | CONTAINER | DT(99HQ000-48, 99GEK, "RV Seg17") | 1 | U | | |
| 282 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 283 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 284 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 285 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 286 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 287 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 288 | | CONTAINS | CONTAINER | DT(99HQ000-49, 99GEK, "RV Seg18") | 1 | U | | |
| 289 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 290 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |

Table B.0–217: TID 99043 24Segment Group (continued)

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 291 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 292 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 293 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 294 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 295 | | CONTAINS | CONTAINER | DT(99HQ000-50, 99GEK, "RV Seg19") | 1 | U | | |
| 296 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 297 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 298 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 299 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 300 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 301 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 302 | | CONTAINS | CONTAINER | DT(99HQ000-51, 99GEK, "RV Seg20") | 1 | U | | |
| 303 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 304 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 305 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 306 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 307 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 308 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 309 | | CONTAINS | CONTAINER | DT(99HQ000-52, 99GEK, "RV Seg21") | 1 | U | | |
| 310 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 311 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 312 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 313 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 314 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 315 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 316 | | CONTAINS | CONTAINER | DT(99HQ000-53, 99GEK, "RV Seg22") | 1 | U | | |
| 317 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 318 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 319 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |

Table B.0–217: **TID 99043 24Segment Group (continued)**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 320 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 321 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 322 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 323 | | CONTAINS | CONTAINER | DT(99HQ000-54, 99GEK, "RV Seg23") | 1 | U | | |
| 324 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 325 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 326 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 327 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 328 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 329 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 330 | | CONTAINS | CONTAINER | DT(99HQ000-55, 99GEK, "RV Seg24") | 1 | U | | |
| 331 | > | CONTAINS | CONTAINER | DT(99HQ000-ED, 99GEK, "24 Seg. ED Diameter") | 1 | U | | |
| 332 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 333 | > | CONTAINS | CONTAINER | DT(99HQ000-FS, 99GEK, "24 Seg. Fractional Shortening") | 1 | U | | |
| 334 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |
| 335 | > | CONTAINS | CONTAINER | DT(99HQ000-SI, 99GEK, "24 Seg. Sphericity Index") | 1 | U | | |
| 336 | >> | CONTAINS | INCLUDE | DTID 99042 "Fetal Heart Measurement Group" | 1 | U | | |

Table B.0–218: **TID 99100 Doppler Group**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|----------------------------|-----|----------|-----------|----------------------------|
| 1 | | | CONTAINER | DTID 99100 "Doppler Group" | 1-n | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = \$MeasType |

Table B.0–219: **TID 99101 Voluson Ultrasound Graft Section**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-----------------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | DT(121070, DCM, "Findings") | 1 | M | | |

Table B.0–219: **TID 99101 Voluson Ultrasound Graft Section (continued)**

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------------|---------|---|-----|----------|-----------|--|
| 2 | > | HAS CONCEPT MOD | CODE | EV(G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-D000F, SRT, "Vascular Graft") |
| 3 | > | HAS CONCEPT MOD | CODE | EV(G-C171, SRT, "Laterality") | 1 | U | | DCID(244) Laterality |
| 4 | > | HAS CONCEPT MOD | CODE | EV(G-A1F8, SRT, "Topographical Modifier") | 1 | U | | DCID (12116) Vessel Segment Modifiers |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = DCID (12119) Vascular Ultrasound Property |