

Digital Imaging and Communications in Medicine (DICOM)

Supplement 26: OB-GYN Ultrasound Procedure Reports

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DICOM Standards Committee, Working Group 12 Ultrasound

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Scope and Field of Application

128 This supplement to the DICOM standard defines templates for OB-GYN ultrasound procedure reports.
Ultrasound procedure reports provide evidence for diagnostic interpretation: not the output, which is the physician report.

132

132 Add the new Annex X to PS 3.3

ANNEX X ULTRASOUND TEMPLATES (INFORMATIVE)

X.1 SR Content Tree Structure

136 The templates for ultrasound reports are defined in PS 3.16, Annex A, DCMR Templates. The following figure is an outline of the common elements of ultrasound structured reports.

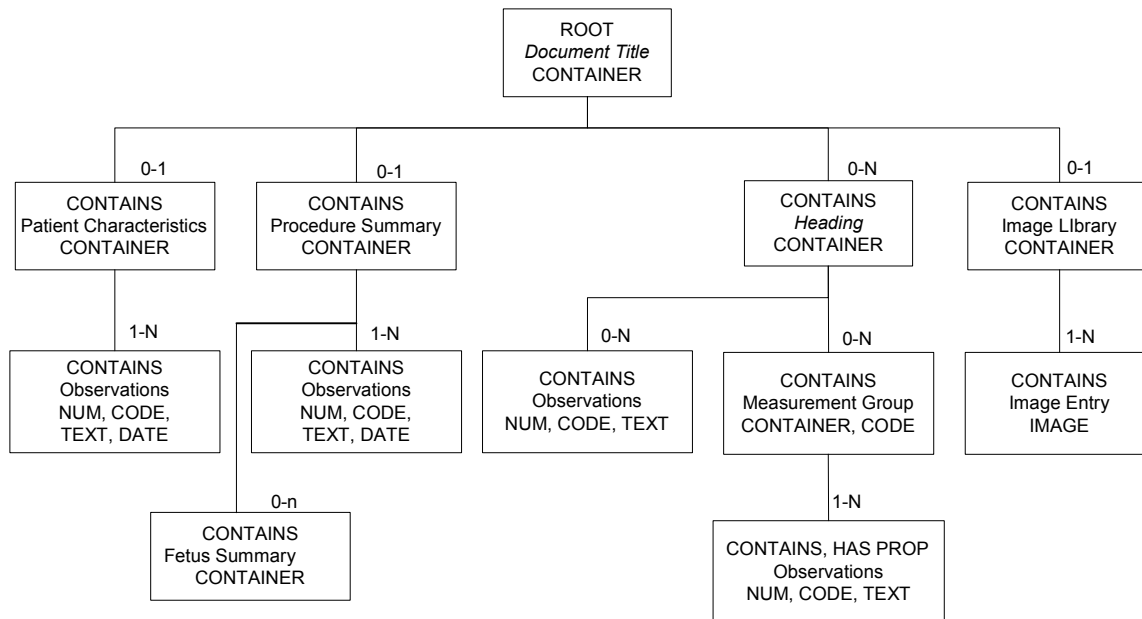


Figure X.1-1 Top Level Structure of Content Tree

140 The Patient Characteristics Section is for medical data of immediate relevance to administering the procedure and interpreting the results. This information may originate outside the procedure.

The Procedure Summary Section contains exam observations of immediate or primary significance. This is key information a physician typically expects to see first in the report.

144 Measurements typically reside in a measurement group container within a Section. Measurement groups share context such as anatomical location, protocol or type of analysis. The grouping may be specific to a product implementation or even to a user configuration. OB-GYN measurement groups have related measurements, averages and other derived results.

148 If present, the Image Library contains a list of images from which observations were derived. These are referenced from the observations with by-reference relationships.

X.2 Procedure Summary

The Procedure Summary Section contains the observations of most immediate interest. Observations in the procedure summary may have by-reference relationships to other content items.

152 X.3 Multiple Fetuses

156 Where multiple fetuses exist, the observations specific to each fetus must reside under separate section headings. The section heading must specify the fetus observation context and designate so using Subject ID (121030,DCM, "Subject ID") and/or numerical designation (121037,DCM, "Fetus Number") as shown below. See TID 1008 Subject Context, Fetus.

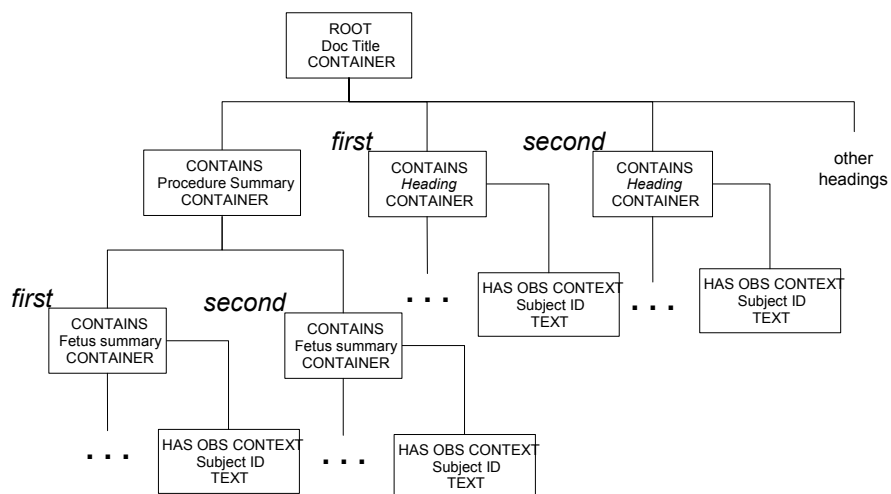


Figure X.3-1 Multiple Fetuses

X.4 Explicitly Specifying Calculation Dependencies

160 Reports may specify dependencies of a calculation on its dependent observations using by-reference relationships. This relationship must be present for the report reader to know the inputs of the derived value.

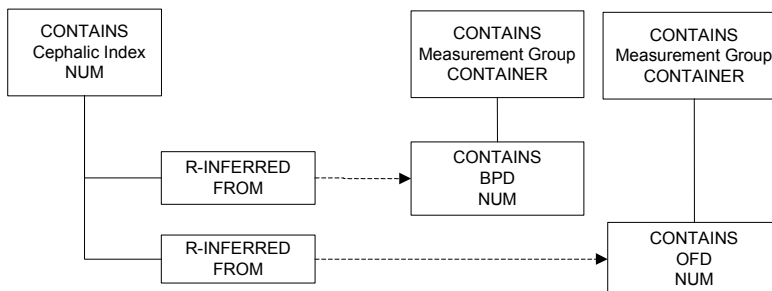


Figure X.4-1 Explicit Dependencies

X.5 Linking Measurements to Images, Coordinates

168 Optionally, the relationship of an observation to its image and image coordinates can be encoded with by-reference content items as the following figure shows. For conciseness, the by-reference relationship points to the content item in the Image Library, rather than directly to the image.

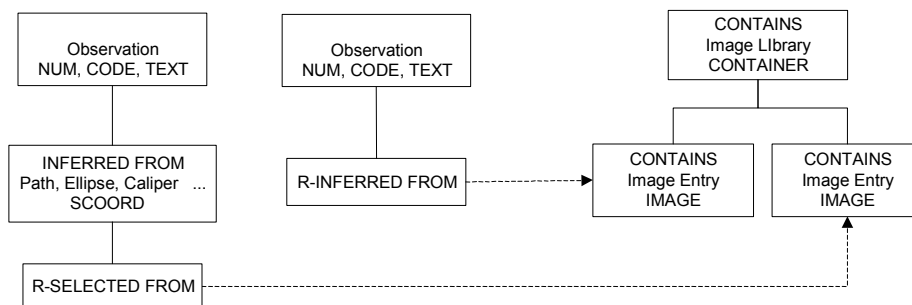


Figure X.5-1 Relationships to Images and Coordinates

172 R-INFERRED FROM relationships to IMAGE content items specify that the image supports the
 observation. A purpose of reference in an SCOORD content item may specify an analytic operation
 (performed on that image) that supports or produces the observation.

X.6 OB Patterns

176 A common OB-GYN pattern is that of several instances of one measurement type (e.g. BPD), the
 calculated average of those values, and derived values such as a gestational age calculated according to
 an equation or table. The measurements and calculations are all siblings in the measurement group. A
 180 child content item specifies the equation or table used to calculate the gestational age. All measurement
 types must relate to the same biometric type. For example, it is not allowed to mix a BPD and a Nuchal
 Fold Thickness measurement in the same biometry group.

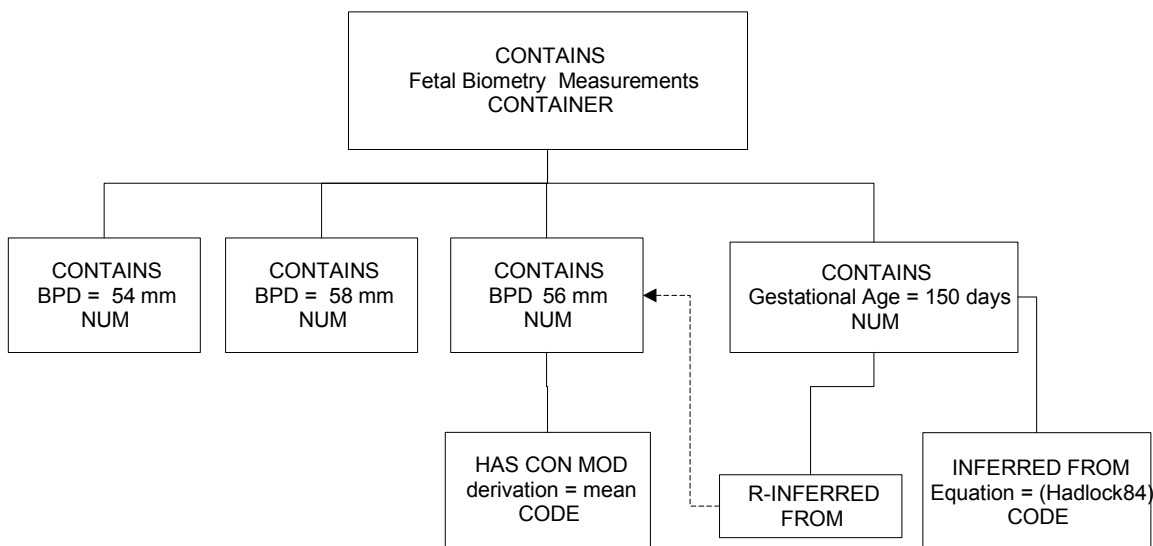


Figure X.6-1 OB Numeric Biometry Measurement group Example

184 The example above is a gestational age calculated from the measured value. The relationship is to an
 equation or table. The inferred from relationship identifies equation or table in the Concept Name. Codes
 from Context Group CID 12013 Gestational Age Equations and Tables identify the specific equation or
 table.

188 Another use case is the calculation of a growth parameter's relationship to that of a referenced
 distribution and a known or assumed gestational age. Context Group CID 12015 Fetal Growth Equations
 and Tables identify the growth table. The figure below shows the assignment of a percentile for the

192 measured BPD, against the growth of a referenced population. The dependency relationship to the
gestational age is a by-reference relationship to the established gestational age. Though the percentile
rank is derived from the BPD measurement, a by-reference relationship is not essential if one BPD has a
concept modifier indicating that it is the mean or has selection status (see TID 300). A variation of this
196 pattern is the use of Z-score instead of percentile rank. Not shown is the expression of the normal
distribution mean, standard deviation, or confidence limits.

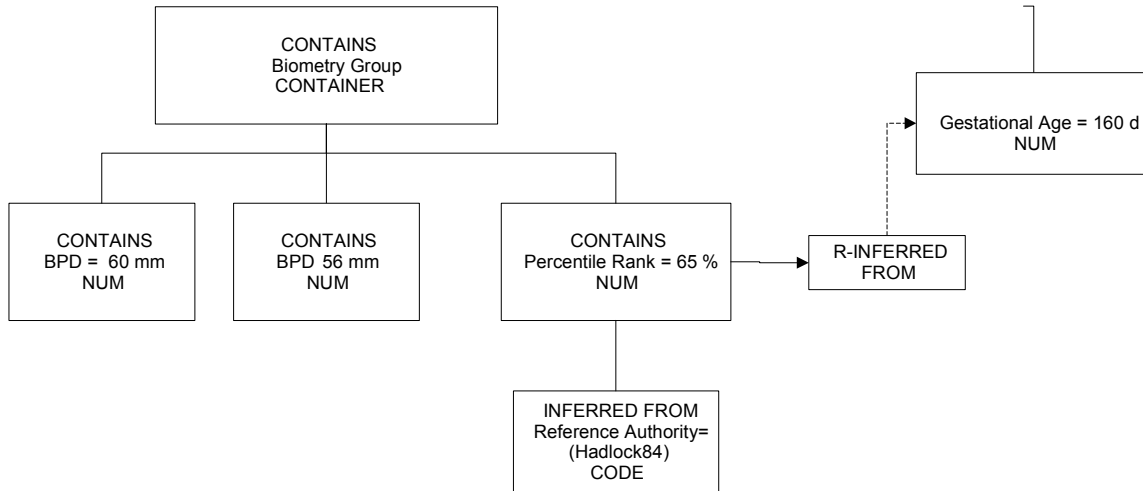


Figure X.6-2 Percentile Rank or Z-score Example

200 Estimated fetal weight (EFW) is a fetus summary item as shown below. It is calculated from one or more
growth parameters (the inferred from relationships are not shown). The Equation or Table Template TID
315 allows specifying how the value was derived. Terms from Context Group CID 12014 specify the table
or equation that yields the EFW from growth parameters.

204 "EFW percentile rank" is another summary term. By definition, this term depends upon the EFW and the
population distribution of the ranking. A Reference Authority content item identifies the distribution.
Context Group CID12016 is list of established reference authorities.

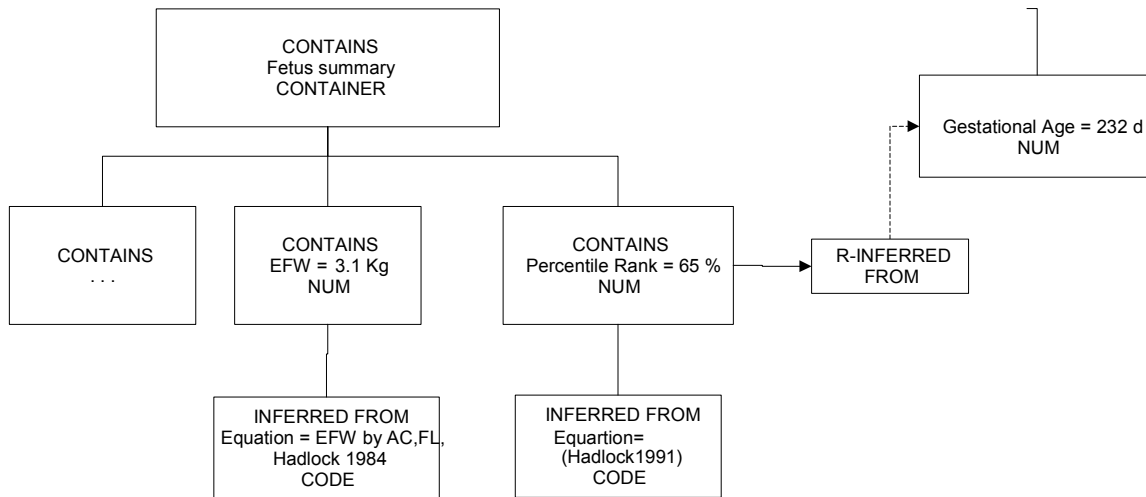


Figure X.6-3 Estimated Fetal Weight

208 **X.7 Selected Value**

When multiple observations of the same type exist, one of these may be the selected value. Typically, this value is the average of the others, or it may be the last entered, or user chosen. The Measurement Properties Template TID 310 provides a content item with concept name of (121404, DCM, "Selection Status") and a value set specified by DCID 224 Selection Method.

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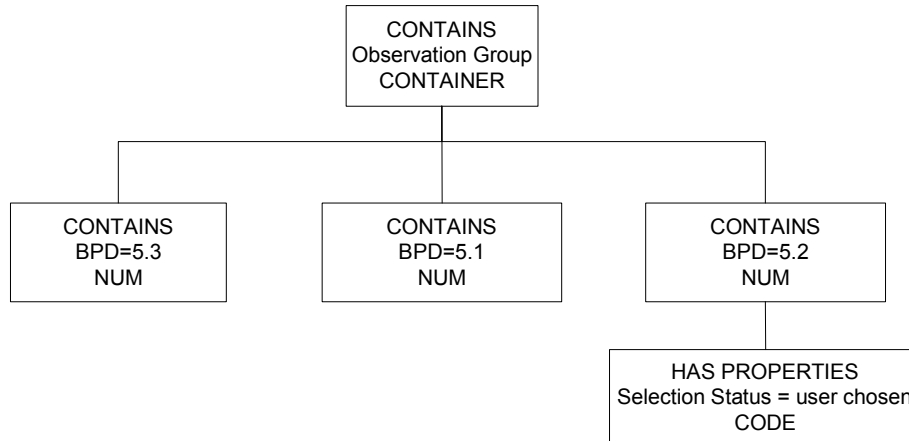


Figure X.7-1 Selected Value Example

There are multiple ways that a measurement may originate. The measurement value may result as an output of an image interactive, system tool. Alternatively, the user may directly enter the value, or the system may create a value automatically as the mean of multiple measurement instances. The Measurement Template TID 300 provides that a concept modifier of the numeric content item specify the derivation of the measurement. The concept name of the modifier is (121401, DCM, "Derivation"). CID 3627 Measurement Type provides concepts of appropriate measurement modifiers. The figure below illustrates such a case.

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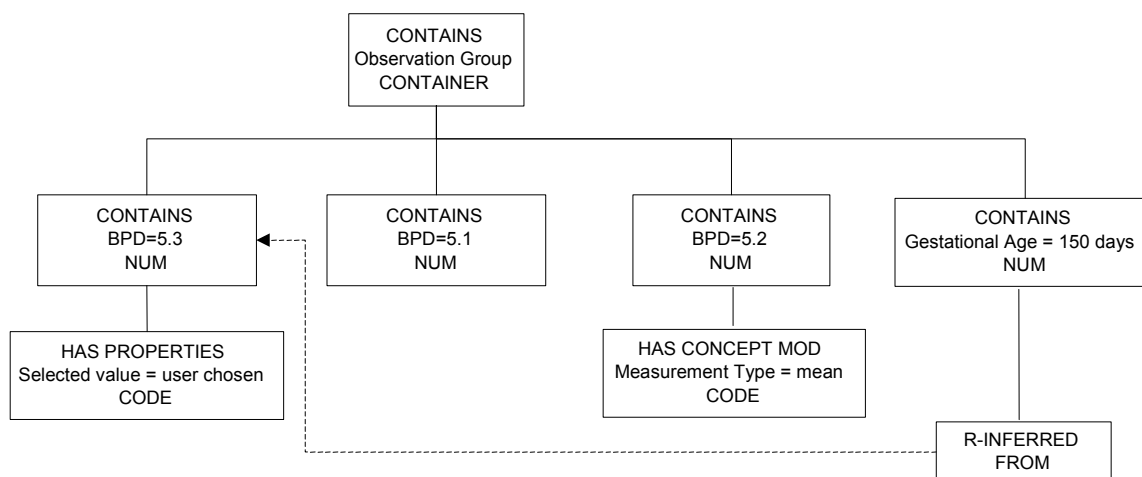


Figure X.7-2 Selected Value with Mean Example

224 **X.8 OB-GYN Examples**

The following are simple, non-comprehensive illustrations of report sections.

Example 1: OB-GYN Root with Observation Context

The following example shows the highest level of content items for a second or third trimester OB exam. Subsequent examples show details of section content,

228

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.1	Language of Content Item and Descendants	English	1204
1.2	Subject Name	Jane Doe	1007
1.3	Subject ID	123-45-6789	1007
1.4	Procedure Study Instance UID	1.2.842.111724.7678.32.34	1005
1.5	Procedure Study Component UID	1.2.842.111724.7678.55.34	1005
1.6	Procedure Accession Number	20011007-21	1005
1.7	Image Library		5000
1.7.1		IMAGE 1	5000
1.7.2		IMAGE 2	5000
1.7.n		IMAGE N	5000
1.8	Patient Characteristics		5001
1.8.n			5001
1.9	Procedure Summary		5002
1.9.n			5002
1.10	Fetal Biometry Ratios		5004
1.10.n			5004
1.11	Long Bones		5006
1.11.n			5006
1.12	Fetal Cranium		5007
1.12.n			5007

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1.13	Biophysical Profile		5009
1.13.n			5009
1.14	Amniotic Sac		5010
1.14.n			5010

The following example shows the highest level of content items for a GYN exam. Subsequent examples show details of section content.

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.1	Subject Name	Jane Doe	1007
1.2	Subject ID	123-45-6789	1007
1.3	Image Library		5000
1.3.1		IMAGE 1	5000
1.3.2		IMAGE 2	5000
1.3.n		IMAGE N	5000
1.4	Patient Characteristics		5001
1.4.n			5001
1.5	Findings		5012
1.5.1	Scope of Findings	Ovaries	5012
1.5.n			5012
1.6	Findings		5013
1.6.1	Scope of Findings	Follicles	5013
1.6.2	Laterality	Left	5013
1.6.n			5013
1.7	Findings		5013
1.7.1	Scope of Findings	Follicles	5013
1.7.2	Laterality	Right	5013
1.7.n			5013
1.8	Pelvis and Uterus		5015
1.8.n			5015

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Example 2: OB-GYN Patient Characteristics and Procedure Summary

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
	....		5000
1.8	Patient Characteristics		5001
1.8.1	Gravida	5	5001

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1.8.2	Para	3	5001
1.8.3	Aborta	2	5001
1.8.4	Ectopic	1	5001
1.9	Procedure Summary		5002
1.9.1	LMP	20010101	5002
1.9.2	EDD	20010914	5002
1.9.3	EDD from LMP	20010914	5002
1.9.4	EDD from average ultrasound age	20010907	5002
1.9.5	GA by LMP	185 d	5002
1.9.6	Fetus Summary		5003
1.9.6.1	EFW	2222 g	300
1.9.6.1.2	+/- range of estimation uncertainty	200 g	311
1.9.6.1.1	Equation	EFW by AC, BPD, Hadlock 1984	315
1.9.6.2	Comment	Enlarged cisterna magna	5003
1.9.6.3	Comment	Choroid plexus cyst	5003

236 **Example 3: OB-GYN Multiple Fetus**

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.n	....		5000
1.5	Procedure Summary		5002
1.5.1	EDD from LMP	20020325	5002
1.5.2	Fetus Summary		5003
1.5.2.1	Fetus ID	A	1008
1.5.2.2	EFW	1.6 Kg	300
1.5.2.2.1	Equation	EFW by AC, BPD, Hadlock 1984	315
1.5.2.2.2	+/- range of estimation uncertainty	160g	310
1.5.2.3	Fetal Heart Rate	120 {H.B.}/min	300
1.5.3	Fetus Summary		5003
1.5.3.1	Fetus ID	B	1008
1.5.3.2	Comment	Choroid plexus cyst	5003
1.5.3.3	EFW	1.4 kg	300
1.5.3.3.1	Equation	EFW by AC, BPD, Hadlock 1984	315
1.5.3.3.2	+/- range of estimation uncertainty	140 g	310
1.5.3.4	Fetal Heart Rate	135 {H.B.}/min	300
1.6	Biophysical Profile		
1.6.1	Fetus ID	A	1008

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1.6.n	...		
1.7	Biophysical Profile		
1.7.1	Fetus ID	B	1008
1.7.n	...		

Example 4: Biophysical Profile

240

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.n	....		5000
1.9	Biophysical Profile		5009
1.9.1	Gross Body Movement	2 {0:2}	5009
1.9.2	Fetal Breathing	2 {0:2}	5009
1.9.3	Fetal Tone	2 {0:2}	5009
1.9.4	Fetal Heart Reactivity	2 {0:2}	5009
1.9.5	Amniotic Fluid Volume	2 {0:2}	5009
1.9.6	Biophysical Profile Sum Score	10 {0:10}	5009

Example 5: Biometry Ratios

Optionally, but not shown, the ratios may have by-reference, inferred-from relationships to the content items holding the numerator and denominator values.

244

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.n	....		5000
1.9	Fetal Biometry Ratios		5004
1.9.1	HC/AC	77%	5004
1.9.2	FL/AC	22 %	5004
1.9.2.1	Normal Range Lower Limit	20 %	312
1.9.2.2	Normal Range Upper Limit	24 %	312
1.9.2.3	Normal Range Authority	Hadlock, AJR 1983	312
1.9.3	FL/BPD	79 %	5004
1.9.3.1	Normal Range Lower Limit	71 %	312
1.9.3.2	Normal Range Upper Limit	81 %	312
1.9.3.3	Normal Range Authority	Hohler, Am J of Ob and Gyn 1981	312
1.9.4	Cephalic Index	82 %	5004
1.9.4.1	Normal Range Lower Limit	70 %	312
1.9.4.2	Normal Range Upper Limit	86 %	312

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1.9.4.3	Normal Range Authority	Hadlock, AJR 1981	312

Example 6: Biometry

This example shows measurements and estimated gestational age.

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.n	....		5000
1.8	Fetal Biometry		5005
1.8.1	Biometry Group		5008
1.8.1.1	Biparietal Diameter	5.5 cm	300
1.8.1.2	Biparietal Diameter	5.3 cm	300
1.8.1.3	Biparietal Diameter	5.4 cm	300
1.8.1.3.1	Derivation	Mean	300
1.8.1.4	Gestational Age	190 d	5008
1.8.1.4.1	Equation	Jeanty, 1982	5008
1.8.1.4.2	5 th Percentile Value of population	131 d	5008
1.8.1.4.3	95 th Percentile Value of population	173 d	5008
1.8.2	Biometry Group		5008
1.8.2.1	Occipital Frontal Diameter	18.1 cm	300
1.8.3	Biometry Group		5008
1.8.3.1	Head Circumference	34.3 cm	300
1.8.3.1.1	Derivation	Estimated	300
1.8.4	Biometry Group		5008
1.8.4.1	Abdominal Circumference	34.9 cm	300
1.8.4.2	Abdominal Circumference	34.3 cm	300
1.8.4.3	Abdominal Circumference	34.3 cm	300
1.8.4.4	Abdominal Circumference	34.5 cm	300
1.8.4.4.1	Derivation	Mean	300
1.8.4.5	Gestational Age	190 d	5008
1.8.4.5.1	Equation	Hadlock, 1984	5008
1.8.4.5.2	Confidence Interval Lower Limit	184 d	5008
1.8.4.5.2.1	Confidence Interval type	2 sigma	5008
1.8.4.5.3	Confidence Interval Upper Limit	196 d	5008
1.8.4.5.3.1	Confidence Interval type	2 sigma	5008
1.8.5	Biometry Group		5008
1.8.5.1	Femur Length	4.5 cm	300
1.8.5.n	...		300

This example shows measurements and with percentile ranking.

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.n	....		5000
1.8	Fetal Biometry		5005
1.8.1	Biometry Group		5008
1.8.1.1	Biparietal Diameter	5.5 cm	300
1.8.1.2	Biparietal Diameter	5.3 cm	300
1.8.1.3	Biparietal Diameter	5.4 cm	300
1.8.1.3.1	Derivation	Mean	300
1.8.1.4	Growth Percentile Rank	63 %	5008
1.8.1.4.1	Reference Authority	BPD, Jeanty 1982	311
1.8.1.4.2	Mean value of population	149 days	311
1.8.1.4.3	2 sigma deviation of population	21 days	311
1.8.2	Biometry Group		5008
1.8.2.n	...		300

Example 7: Amniotic Sac

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Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.n	....		5000
1.6	Amniotic Sac		5010
1.6.1	Amniotic Fluid Index	11 cm	300
1.6.2	First Quadrant Diameter	10 cm	300
1.6.3	Second Quadrant Diameter	12 cm	300
1.6.4	Third Quadrant Diameter	11 cm	300
1.6.5	Fourth Quadrant Diameter	12 cm	300

Example 8: OB-GYN Ovaries

The content structure in the example below conforms to TID 5012. The example shows the volume derived from three perpendicular diameters.

256

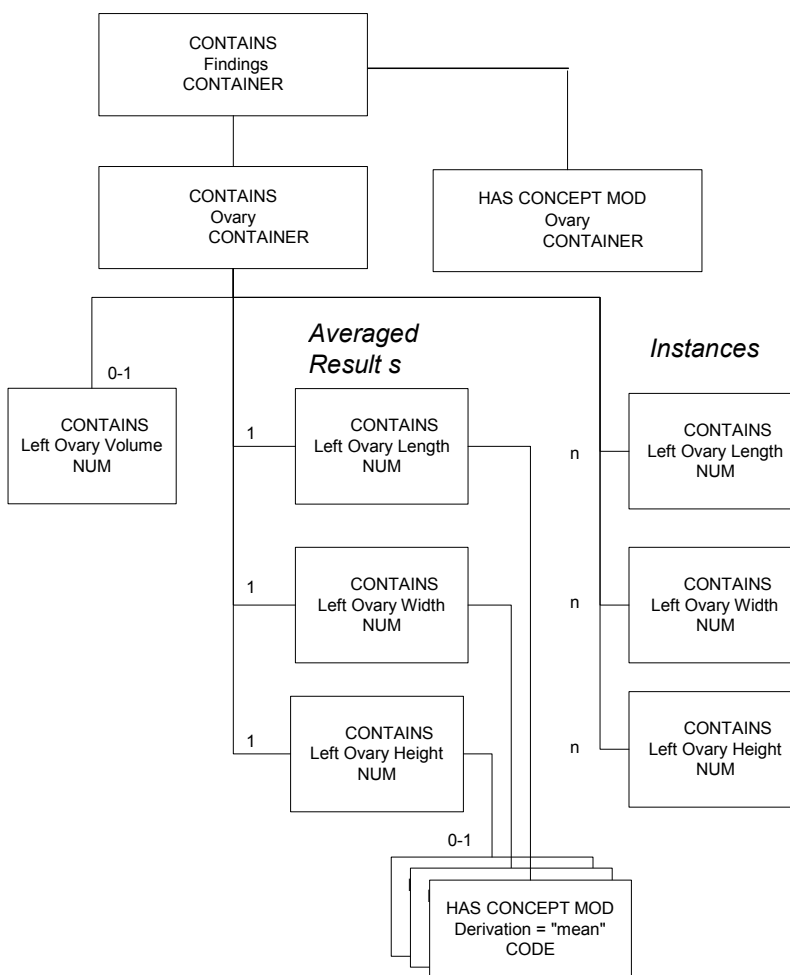


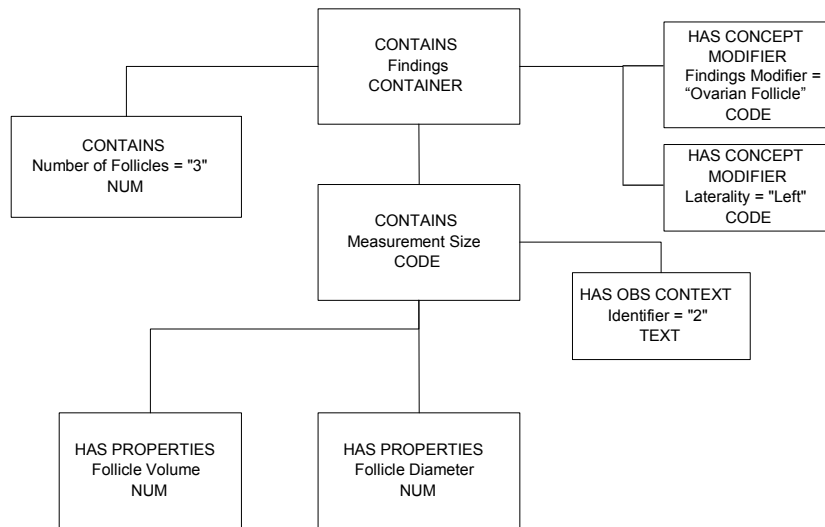
Figure X.8-1 Ovaries Example

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.n	....		5000
1.9	Findings		5012
1.9.1	Scope of Findings	Ovary	5012
1.9.2	Ovary		5016
1.9.2.1	Left Ovary Volume	6 cm3	300
1.9.2.2	Left Ovary Length	3 cm	300
1.9.2.3	Left Ovary Length	3 cm	300
1.9.2.4	Left Ovary Length	3 cm	300
1.9.2.4.1	Derivation	Mean	300
1.9.2.3	Left Ovary Width	2 cm	300
1.9.2.3.1	Derivation	Mean	300
1.9.2.4	Left Ovary Height	2 cm	300
1.9.2.4.1	Derivation	Mean	300

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1.9.3	Ovary		5016
1.9.3.1	Right Ovary Volume	7 cm3	300
1.9.3.2	...		300

260 **Example 9: OB-GYN Follicles**

The content structure in the example below conforms to TID 5013. It uses multiple measurements and derived averages for each of the perpendicular diameters.



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Figure X.8-2 Follicles Example

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.n	....		5000
1.8	Findings		5013
1.8.1	Scope of Findings	Ovarian Follicle	5013
1.8.2	Laterality	Right	5013
1.8.3	Number of follicles in right ovary	2	5013
1.8.4	Measurement Group		5014
1.8.4.1	Identifier	#1	5014
1.8.4.2	Volume	3 cm3	300
1.8.4.3	Follicle Diameter	15 mm	300
1.8.4.4	Follicle Diameter	13 mm	300
1.8.4.5	Follicle Diameter	14 mm	300
1.8.4.5.1	Derivation	Mean	300
1.8.5	Measurement Group		5014
1.8.5.1	Identifier	#2	5014
1.8.5.2	Volume	4 cm3	300

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1.8.5.3	Follicle Diameter	18 mm	300
1.9	Findings		5013
1.9.1	Scope of Findings	Ovarian Follicle	5013
1.9.2	Laterality	Left	5013
1.9.3	Number of follicles in left ovary	1	5013
1.9.4	Follicle Measurement Group		5014
1.9.4.1	Identifier	#1	5014
1.9.4.2	Volume	3 cm ³	300
1.9.4.3	Follicle Diameter	15 mm	300

Example 10: Pelvis and Uterus

Nest	Code Meaning of Concept Name	Code Meaning or Example Value	TID
1	OB-GYN Ultrasound Procedure Report		5000
1.n	....	
1.9	Pelvis and Uterus		5015
1.9.1	Uterus		5016
1.9.1.1	Uterus Volume	136 cm ³	300
1.9.1.2	Uterus Length	9.5 cm	300
1.9.1.3	Uterus Width	5.9 cm	300
1.9.1.4	Uterus Height	4.2 cm	300
1.9.2	Endometrium Thickness	4 mm	5015
1.9.3	Cervix Length	5.3 cm	5015

268

Part 4 Addendum

Add to PS3.4 Annex C.

272 **C.6.1.1.5 Composite object instance Level**

Table C.6-4 defines the keys at the Composite object instance Information level of the Patient Root Query/Retrieve Information Model.

276

**Table C.6-4
COMPOSITE OBJECT INSTANCE LEVEL KEYS FOR THE PATIENT
ROOT QUERY/RETRIEVE INFORMATION MODEL**

Description	Tag	Type
Instance Number	(0020,0013)	R
Overlay Number	(0020,0022)	O
Curve Number	(0020,0024)	O
LUT Number	(0020,0026)	O
SOP Instance UID	(0008,0018)	U
SOP Class UID	(0008,0016)	O
<u>Concept Name Code Sequence</u>	<u>(0040,A043)</u>	<u>O</u>
<u>>Code Value</u>	<u>(0008,0100)</u>	<u>O</u>
<u>>Coding Scheme Designator</u>	<u>(0008,0102)</u>	<u>O</u>
<u>>Coding Scheme Version</u>	<u>(0008,0103)</u>	<u>O</u>
<u>>Code Meaning</u>	<u>(0008,0104)</u>	<u>O</u>
<u>Content Template Sequence</u>	<u>(0040,A504)</u>	<u>O</u>
<u>>Template Identifier</u>	<u>(0040,DB00)</u>	<u>O</u>
<u>>Mapping Resource</u>	<u>(0008,0105)</u>	<u>O</u>
All Other Attributes at composite object instance Level		O

- 280 Notes: 1. Ideally, Overlay Number (0020,0022), Curve Number (0020,0024), LUT Number (0020,0026) and
Report Number (0020,00AA) would be of Type R rather than Type O to require an SCP to match on
these keys. However for backward compatibility with SCPs that are not aware of the revised model, they
284 remain Type O. An SCP that is aware of the revised model can state in its Conformance Statement that
matching on these keys IS performed. Instance Number (0020,0013), if present in non-image objects is
the preferred key if present in revised objects.
2. SOP Class UID (0008,0016) is an optional key, but it is strongly recommended that it always be
returned by all SCPs, if matching is requested.
- 288 **3. The Concept Name Code Sequence (0040,A043) and Content Template Sequence (0040,A504)
are optional keys that are useful for identifying instances of various Structured Reporting Storage
SOP Classes. It is strongly recommended that these keys be supported by the SCP for query
against such instances.**

292

292

Add to PS3.4 Annex O.

O.4.1 Conformance Statement for an SCU

296

The following shall be documented in the Conformance Statement of any implementation claiming conformance to the Structured Reporting Storage SOP Classes as an SCU:

300

- The Image or other composite object Storage SOP Classes that are also supported by the SCU and which may be referenced by instances of Structured Reporting Storage SOP Class.
- The range of Value Types and Relationship Types that are supported by the SCU.
- The conditions under which a new SOP Instance UID is generated for an existing SR Document.
- **If the implementation provides Query/Retrieve of Structured Reporting SOP Instances stored by the implementation, whether it supports query of the Concept Name Code Sequence.**

304

...

Part 16 Addendum

308

Add the following to 6.1 Template Table Field Definition

6.1 TEMPLATE TABLE FIELD DEFINITION

References to coded concepts take the following form:

312

EV or DT (CV, CSD, "CM")

e.g. an Enumerated Value with only CV, CSD, and CM defined is represented as follows:
EV (CV, CSD, "CM"), for example EV (T-04000, SRT, "Breast").

MemberOf { BCID or DCID (CID) CNAME } MemberOf selects one term from the specified context group.

316

...

6.2.3.1 Template Parameters

...

320

The invoking Template may specify the value of the parameters in the included Template by name in the Value Set Constraint field of the INCLUDE row. The parameter in the included Template shall be replaced by the specified parameter value. Specification of a parameter value shall be of one of the following forms:

324

~~$\$parametername = EV \text{ or } DT (CV, CSD, "CM")$~~

~~$\$parametername = BCID \text{ or } DCID (CID) CNAME$~~

~~$\$parametername = (CV, CSD, "CM")$ [for parameters used in Condition field]~~

<u>Notation</u>	<u>Definition</u>
<u>\$parametername = EV or DT (CV, CSD, "CM")</u>	<u>The parameter passed to the template is the specified coded term.</u>
<u>\$parametername = (CV, CSD, "CM")</u>	<u>The parameter passed to the template is the specified coded term, used as a parameter in a Condition field of the included Template.</u>
<u>\$parametername = BCID or DCID (CID) CNAME</u>	<u>The parameter passed to the template is the Context Group.</u>
<u>\$parametername = MemberOf {BCID or DCID (CID) CNAME}</u>	<u>The parameter passed to the template is a single coded term from the Context Group in curly braces.</u>

Add the following Templates to Part 16 Annex A DCMR Templates (Normative):

332

Annex A DCMR Templates (Normative)

Add the following to PS3.16 Annex A:

TID 300MEASUREMENT

336

This Template provides a general structure for a numeric measurement, together with evaluations of its normality and/or significance, and the inference source(s) for its value. This structure is instantiated by inclusion of this Template with specific contextual parameters from a parent Template.

TID 300 Parameters

Parameter Name	Parameter Usage
\$Measurement	Coded term or Context Group for Concept Name of measurement
\$Units	Units of Measurement
\$ModType	Modifier Name for Concept Name of measurement
\$ModValue	Modifier Value for Concept Name of measurement
\$Method	Value for Measurement Method
\$Derivation	Value for Measurement Derivation
\$TargetSite	Value for Anatomic Location of measurement
\$TargetSiteMod	ModifierValue for Anatomic Location of measurement
\$Equation	Coded term or Context Group for the equation or table from which the measurement was derived or computed
\$ImagePurpose	Purpose of Reference for an image used as a source of the measurement
\$WavePurpose	Purpose of Reference for a waveform used as a source of the measurement
\$RefAuthority	Bibliographic reference or authority for statistical properties of a reference population
\$RangeAuthority	Bibliographic reference or authority for the normal range of the measurement

340

Type: Extensible

TID 300 Measurement

	NL	Relation with Parent	Value Type	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	U		\$Method
4	>	HAS CONCEPT MOD	CODE	EV (121401, DCM, "Derivation")	1	U		\$Derivation
5	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, "Finding Site")	1	U		\$TargetSite

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
6	>>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, "Laterality")	1	U		DCID (244) Laterality
7	>>	HAS CONCEPT MOD	CODE	DT (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		

344 **Content Item Descriptions**

Rows 2, 3, 4, 5 - The HAS CONCEPT MOD items allow the explicit definition of terms for post-coordination of the measurement concept name. Additional post-coordinated modifier terms may be included in a SOP Instance based on this template, in accordance with section 6.2.4.

348 Rows 9, 10 - The INFERRED FROM items allow the specification (by-value or by-reference) of numeric values that were used in the derivation of the numeric measurement of Row 1. The nature of the inference is not explicitly conveyed; it may be implicit in the Concept Names of the measurements. Inference by-reference is valid only in SOP Classes that permit the INFERRED FROM relationship by-
352 reference.

TID 310 MEASUREMENT PROPERTIES

356 This Template provides the properties of a numeric measurement, including evaluations of its normality and/or significance, its relationship to a reference population, and an indication of its selection from a set of measurements.

TID 310 Parameters

Parameter Name	Parameter Usage
\$RefAuthority	Bibliographic reference or authority for statistical properties of a reference population
\$RangeAuthority	Bibliographic reference or authority for the normal range of the measurement

360

Type: Extensible

**TID 310
Measurement Properties**

	NL	Relation with Parent	Value Type	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
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 (224) Selection Method

364

TID 311 MEASUREMENT STATISTICAL PROPERTIES

This Template provides the statistical properties of a reference population for a numeric measurement, and/or the position of a measurement in such a reference population.

368

TID 311 Parameters

Parameter Name	Parameter Usage
\$RefAuthority	Bibliographic reference or authority for statistical properties of a reference population

372 **Type: Extensible**

**TID 311
Measurement Statistical Properties**

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			NUM	DCID (221) Measurement Range Concepts	1-n	M		
2			TEXT	EV (121405, DCM, "Population description")	1	U		
3			TEXT	EV (121406, DCM, "Reference Authority")	1	UC	XOR row 4	
4			CODE	EV (121406, DCM, "Reference Authority")	1	UC	XOR row 3	\$RefAuthority

376

TID 312NORMAL RANGE PROPERTIES

This Template provides the normal range of values for a numeric measurement.

380

TID 312 Parameters

Parameter Name	Parameter Usage
\$RangeAuthority	Bibliographic reference or authority for the normal range of the measurement

Type: Extensible

384

**TID 312
Normal Range Properties**

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			NUM	DCID (223) Normal Range Values	1-n	M		
2			TEXT	EV (121407, DCM, "Normal Range description")	1	U		
3			TEXT	EV (121408, DCM, "Normal Range Authority")	1	UC	XOR row 4	
4			CODE	EV (121408, DCM, "Normal Range Authority")	1	UC	XOR row 3	\$RangeAuthority

TID 315EQUATION OR TABLE

388

TID 315 Parameters

Parameter Name	Parameter Usage
\$Equation	Coded term or Context Group for the equation or table from which a measurement was derived or computed

Type: Extensible

392

**TID 315
Equation or Table**

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CODE	DCID (228) Equation or Table	1	M		\$Equation
2	>	HAS PROPERTIES	NUM		1-n	U		
3	>	R-HAS PROPERTIES	NUM		1-n	U		

Content Item Descriptions

396 Row 2 - The HAS PROPERTIES allows the specification of the numeric values used as input to the equation or table identified in Row 1.

400 Row 3 - The HAS PROPERTIES allows the specification by-reference of the numeric values used as input to the equation or table. This row is valid only in SOP Classes that permit the HAS PROPERTIES relationship by-reference.

Note: For example, if Row 1 identifies a specific Body Surface Area equation, Rows 2 and 3 can be used to convey (by-value or by-reference) the Patient Height and Patient Weight numeric measurements used in the BSA computation.

404

TID 320IMAGE OR SPATIAL COORDINATES

408 This Template provides a general structure for inference from an image, either as a whole, or with specific spatial coordinates, as a single included Template in the invoking Template. If allowed by the IOD, the Image Content Item may be included by-reference.

TID 320 Parameters

Parameter Name	Parameter Usage
\$Purpose	Purpose of Reference for an image used as a source of the measurement

412 **Type: Extensible**

**TID 320
Image or Spatial Coordinates**

	NL	Relation with Parent	Value Type	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 Row 5	
5	>	R-SELECTED FROM	IMAGE		1	MC	XOR Row 4	

416 **TID 321WAVEFORM OR TEMPORAL COORDINATES**

This Template provides a general structure for referencing a waveform, either as a whole, or with specific temporal coordinates, as a single included Template in the invoking Template. If allowed by the IOD, the Waveform Content Item may be included by-reference.

420

TID 321 Parameters

Parameter Name	Parameter Usage
\$Purpose	Purpose of Reference for a waveform used as a source of the measurement

Type: Extensible

424

TID 321
Waveform or Temporal Coordinates

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1		INFERRED FROM	WAVEFORM	\$Purpose	1	MC	XOR Rows 2, 3	
2		R-INFERRED FROM	WAVEFORM	\$Purpose	1	MC	XOR Rows 1, 3	
3		INFERRED FROM	TCOORD	\$Purpose	1	MC	XOR Rows 1, 2	
4	>	SELECTED FROM	WAVEFORM		1	MC	XOR Row 5	
5	>	R-SELECTED FROM	WAVEFORM		1	MC	XOR Row 4	

A.Y OB-GYN ULTRASOUND SR TEMPLATES

428 TID 5000 OB-GYN Ultrasound Procedure Report

This is the template for the root of the content tree for the OB-GYN ultrasound procedure report.

Type: Extensible

432 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		
3	>	HAS OBS CONTEXT	INCLUDE DTID (1001) Observation Context	1	M		
4	>	CONTAINS	INCLUDE DTID (5001) Patient Characteristics	1	U		
5	>	CONTAINS	CONTAINER DT (111028, DCM, "Image Library")	1	U		
6	>>	CONTAINS	IMAGE No purpose of reference	1-n	M		
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 (5009) Biophysical Profile Section	1-n	U		
13	>	CONTAINS	INCLUDE DTID (5011) Early Gestation Section	1-n	U		
14	>	CONTAINS	INCLUDE DTID (5010) Amniotic Sac Section	1	U		
15	>	CONTAINS	INCLUDE DTID (5015) Pelvis and Uterus Section	1	U		
16	>	CONTAINS	INCLUDE DTID (5012) Ovaries Section	1	U		
17	>	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")
18	>	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")

TID 5001 OB-GYN Patient Characteristics

436 Patient Characteristic concepts in this template, which may replicate attributes in the Patient Study Module, are included here as possible targets of by-reference relationships from other content items in the SR tree.

440 Note: Several of the concepts in this template duplicate concepts in TID 1007 "Subject Context, Patient". The difference in use is that this template has those concepts as primary observations of the patient, while in TID 1007 the concepts are used to set (or reset) the context for other observations.

Type: Extensible

444 **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		

TID 5002 OB-GYN Procedure Summary Section

448 Observations of the procedure of immediate clinical interest.

Type: Extensible

**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 (12001) 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	BTID (5003) OB-GYN Fetus Summary	1-n	UC	No more than 1 inclusion per fetus	

452

TID 5003 OB-GYN Fetus Summary

The Fetus Summary template is a container for summary data of a fetus.

Type: Extensible

456

**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 (12002) OB-GYN Fetus Summary \$Equation = DCID (12012) OB Equations and Tables

TID 5004 Fetal Biometry Ratio Section

460 The Fetal Biometry Section Ratio template is a container for common biometric ratios.

Type: Extensible

**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, "Fetal 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		

464

Content Item Descriptions

Row 3	Numeric ratio related to fetal growth
Row 4	Reference to the numerator and denominator of the ratio.

TID 5005 Fetal Biometry Section

468 The Fetal Biometry Section template is a container for common biometric groups.

Type: Extensible

**TID 5005
FETAL BIOMETRY SECTION**

NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
----	-----------------	----	--------------	----	----------	-----------	----------------------

NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1		CONTAINER	DT (125002, DCM, "Fetal 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	INCLUDE DTID (5008) Fetal Biometry Group	1-n	M		\$BiometryType = MemberOf {DCID (12005) Fetal Biometry Measurements}

472

Content Item Descriptions

Row 3	The group of measurements. Only one group per biometry type.
-------	--

TID 5006 Fetal Long Bones Section

476 The Long Bones template is a container for biometric data of long bones.

Type: Extensible**TID 5006****FETAL LONG BONES SECTION**

480

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}

Content Item Descriptions

Row 3	The group of measurements. Only one group per biometry type.
-------	--

484 **TID 5007 Fetal Cranium Section**

The Fetal Cranium template is a container for groups of biometric data of the fetal cranium.

Type: Extensible**TID 5007****FETAL CRANIUM SECTION**

488

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	

	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 = MemberOf {DCID (12007) Fetal Cranium}

Content Item Descriptions

Row 3	The group of measurements. Only one group per biometry type.
-------	--

492 **TID 5008 Fetal Biometry Group**

The Biometry Group template is container for a biometric value and its associated growth metrics.

TID 5008 Parameters

Parameter Name	Parameter Usage
\$BiometryType	The concept name of the biometry measurement

496 **Type: Extensible**

**TID 5008
FETAL BIOMETRY GROUP**

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT(125005, DCM, "Biometry Group")	1	M		
2	>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	MC	At least one of row 2 and 3 shall be present	\$Measurement = \$BiometryType \$Derivation = DCID (3627) Measurement Type
3	>	CONTAINS	NUM	EV (18185-9, LN, "Gestational Age")	1	MC	At least one of row 2 and 3 shall be present	Units= EV (d,UCUM, days)
4	>>	INFERRED FROM	CODE	DCID (228) Equation or Table	1	U		DCID (12013) Gestational Age Equations and Tables
5	>>	R-INFERRED FROM	NUM		1-n	U		
6	>>	HAS PROPERTIES	NUM	DCID (226) Population Statistical Descriptors	1-n	U		
7	>	CONTAINS	NUM	DCID (12017) Growth Distribution Rank	1	U		
8	>>	INFERRED FROM	CODE	DCID (228) Equation or Table	1	U		\$Equation = DCID (12015) Fetal Growth Equations and Tables

500 **Content Item Descriptions**

Row 1	Container to segregate biometry data by measurement type
Row 2	The discrete measurements of the biometry type including derived measurements such as mean. One of the measurements may be flagged as selected for derived measurements.

Row 3	The estimated gestational age derived from an equation or table based on the explicitly referenced R-INFERRED FROM content item, selected measurement or mean, in that order of preference.
Row 4	The reference that defines the equation or table of GA derivation
Row 6	The uncertainty/confidence limits of the gestational age
Row 7	Expresses the rank of the selected or mean measurement of row 2 relative to the distribution specified in row 8.
Row 8	This row specifies the CODE or NUM reference used to compute the percentile or Z-score.

TID 5009 Fetal Biophysical Profile Section

504 This template encodes scoring observations for fetal well-being evaluation as described by Manning, Antepartum Fetal Evaluation: Development of a Fetal Biophysical Profile Score, Am. J Obstet Gynecol, 1980;136:787.

Type: Extensible

**TID 5009
FETAL BIOPHYSICAL PROFILE SECTION**

508

	NL	Relation with Parent	Value Type	Concept Name	V M	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")
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		

Content Item Descriptions

Row 3-7	The numeric profile score of range 0-2
Row 8	The sum of rows 3-7. The range is from 0 to the maximum possible score according the items scored in rows 3-7.

512 **TID 5010 Amniotic Sac Section**

This template specifies a container for amniotic sac quadrant diameters and a derived index.

Type: Extensible

516

**TID 5010
AMNIOTIC SAC SECTION**

	NL	Relation with Parent	Value Type	Concept Name	V M	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-F1300, SRT, "Amniotic Sac")
3	>	CONTAINS	INCLUDE	DTID (300) Measurement	1	M		\$Measurement = DT (11627-7, LN, "Amniotic Fluid Index")
4	>	CONTAINS	INCLUDE	DTID (300) Measurement	4	U		\$Measurement = DCID (12008) OB-GYN Amniotic Sac

Content Item Descriptions

Row 3	The sum of the 4 quadrant diameters
Row 4	The four amniotic sac quadrant diameters

520 **TID 5011 Early Gestation Section**

The Early Gestation Section template is a container for common, first trimester biometric groups.

Type: Extensible

524

**TID 5011
EARLY GESTATION SECTION**

	NL	Relation with Parent	Value Type	Concept Name	V M	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	
3	>	CONTAINS	INCLUDE	DTID (5008) Fetal Biometry Group	1-n	M		\$BiometryType= DCID (12009) Early Gestation Biometry Measurements

TID 5012 Ovaries Section

This template contains metrics of ovary size.

528 Type: Extensible

**TID 5012
OVARIES SECTION**

	NL	Relation with Parent	Value Type	Concept Name	V M	Req Type	Condition	Value Set Constraint
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	NL	Relation with Parent	Value Type	Concept Name	V M	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")

532 **TID 5013 Follicles Section**

This template contains follicle metrics for left or right ovarian follicles.

TID 5013 Parameters

Parameter Name	Parameter Usage
\$Laterality	Ovary laterality
\$Number	The number of follicles

536 **Type: Extensible**

**TID 5013
FOLLICLES SECTION**

	NL	Relation with Parent	Value Type	Concept Name	V M	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	M		\$Laterality
4	>	CONTAINS	NUM	\$Number	1	U		
5	>	CONTAINS	INCLUDE	DTID (5014) Follicle Measurement Group	1-n	U		

540 **TID 5014 Follicle Measurement Group**

This template contains metrics for one ovarian follicle.

Type: Extensible

544

**TID 5014
FOLLICLE MEASUREMENT GROUP**

	NL	Relation with Parent	Value Type	Concept Name	V M	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 = (11793-7, LN, "Follicle diameter") \$Derivation = DCID (3627) Measurement Type

TID 5015 Pelvis and Uterus Section

This template contains general measurements in the pelvis and uterus.

548 **Type: Extensible**

**TID 5015
PELVIS AND UTERUS SECTION**

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

552 **TID 5016 LWH Volume Group**

This template is a container for a group of measurements that assess the size of an anatomical structure using a volume derived from perpendicular diameters.

TID 5016 Parameters

Parameter Name	Parameter Usage
\$GroupName	The name of the volume group
\$Volume	Concept name of volume measurement
\$Length	Concept name of length measurement
\$Width	Concept name of width measurement
\$Height	Concept name of height measurement

556

Type: Extensible

**TID 5016
LWH VOLUME GROUP**

	NL	Relation with Parent	Value Type	Concept Name	V M	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
3	>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	MC	At least one of row 2,3,4,5 shall be present	\$Measurement = \$Length \$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 \$Derivation = DCID (3627) Measurement Type
5	>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	MC	At least one of row 2,3,4,5 shall be present	\$Measurement = \$Height \$Derivation = DCID (3627) Measurement Type

560

Add the following Context Groups to Part 16 Annex B DCMR Context Groups (Normative):

Annex B DCMR Context Groups (Normative)

564 Add the following new Context Groups to PS3.16 Annex B.

CID 220 LEVEL OF SIGNIFICANCE

568 **Context ID 220**
Level of Significance
Type: Extensible **Version: 2003mddd**

Coding Scheme Designator	Code Value	Code Meaning
SRT	R-00333	Most significant
SRT	R-0030C	Highly significant
SRT	R-10045	Significant
SRT	R-00345	Not significant
SRT	R-10046	Significance Undetermined

572 CID 221 MEASUREMENT RANGE CONCEPTS

576 **Context ID 221**
Measurement Range Concepts
Type: Extensible **Version: 2003mddd**

Coding Scheme Designator	Code Value	Code Meaning
INCLUDE CID 226 Population Statistical Descriptors		
INCLUDE CID 227 Sample Statistical Descriptors		

CID 222 NORMALITY CODES

580 **Context ID 222**
Normality Codes
Type: Extensible **Version: 2003mddd**

Coding Scheme Designator	Code Value	Code Meaning
SRT	G-A460	Normal
SRT	R-42037	Abnormal
SRT	R-002C4	Abnormally High

SRT	R-002C5	Abnormally Low
SRT	G-A385	Normality Undetermined

584 **CID 223** **NORMAL RANGE VALUES**

Context ID 223
Normal Range Values

588 **Type: Extensible** **Version: 2003mmdd**

Coding Scheme Designator	Code Value	Code Meaning
SRT	R-0038B	Normal Range Upper Limit
SRT	R-10041	Normal Range Lower Limit

CID 224 **SELECTION METHOD**

Context ID 224
Selection Method

592 **Type: Extensible** **Version: 2003mmdd**

Coding Scheme Designator	Code Value	Code Meaning
DCM	121410	User chosen value
DCM	121411	Most recent value chosen
DCM	121412	Mean value chosen

596 **CID 225** **MEASUREMENT UNCERTAINTY CONCEPTS**

Context ID 225
Measurement Uncertainty Concepts

600 **Type: Extensible** **Version: 2003mmdd**

Coding Scheme Designator	Code Value	Code Meaning
SRT	R-00363	+/- , range of measurement uncertainty
SRT	R-00364	+ , range of upper measurement uncertainty
SRT	R-00362	- , range of lower measurement uncertainty

CID 226**POPULATION STATISTICAL DESCRIPTORS**

604

Context ID 226**Population Statistical Descriptors****Type: Extensible****Version: 2003mmdd**

Coding Scheme Designator	Code Value	Code Meaning
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

608

CID 227**SAMPLE STATISTICAL DESCRIPTORS****Context ID 227****Sample Statistical Descriptors****Type: Extensible****Version: 2003mmdd**

612

Coding Scheme Designator	Code Value	Code Meaning
DCM	121415	Percentile Ranking of measurement
DCM	121416	Z-Score of measurement

CID 228 EQUATION OR TABLE

616

Context ID 228
Equation or Table
Type: Extensible Version: 2003mmdd

Coding Scheme Designator	Code Value	Code Meaning
DCM	121420	Equation
DCM	121421	Equation Citation
DCM	121424	Table of Values
DCM	121422	Table of Values Citation
DCM	121423	Method Citation

620

CID 230 YES-NO

Context ID 230
Yes-No

624

Type: Non-extensible Version: 2003mmdd

Coding Scheme Designator	Code Value	Code Meaning
SRT	R-0038D	No
SRT	R-00339	Yes
SRT	R-0038A	Undetermined

CID 240 PRESENT-ABSENT

628

Context ID 240
Present-Absent
Type: Non-extensible Version: 2003mmdd

Coding Scheme Designator	Code Value	Code Meaning
DCM	121053	Present
DCM	121054	Absent
DCM	121059	Presence Undetermined

632

CID 242 NORMAL-ABNORMAL

This Context Group is a subset of CID 222 Normality Codes.

636

**Context ID 242
Normal-Abnormal**

Type: Extensible Version: 2003mmdd

Coding Scheme Designator	Code Value	Code Meaning
SRT	G-A460	Normal
SRT	R-42037	Abnormal
SRT	G-A385	Normality Undetermined

640

CID 3627 MEASUREMENT TYPE

**Context ID 3627
Measurement Type**

Type: Extensible Version: 2003mmdd

Coding Scheme Designator	Code Value	Code Meaning
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

644

OB-GYN ULTRASOUND CONTEXT GROUPS

CONTEXT GROUP 12001 – OB-GYN Summary

648

Type: Extensible Version: 2003mmdd

**Context ID 12001
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

652

CONTEXT GROUP 12002 – OB-GYN Fetus Summary

Type: Extensible Version: 2003mmdd

656

**Context ID 12002
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

CONTEXT GROUP 12003– OB-GYN Dates

660

Type: Extensible Version: 2003mmdd

**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

664

CONTEXT GROUP 12004 – Fetal Biometry Ratios

Type: Extensible Version: 2003mmdd

668

Context ID 12004**Fetal Biometry Ratios**

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

CONTEXT GROUP 12005 – Fetal Biometry Measurements

672

Type: Extensible**Version: 2003mmdd****Context ID 12005****Fetal Biometry Measurements**

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
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
LN		33068-8	Thoracic Area
LN		11862-0	Transverse Abdominal Diameter
LN		11863-8	Trans Cerebellar 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
LN		33191-8	APAD * TAD

676 **CONTEXT GROUP 12006 – Fetal Long Bones Biometry Measurements****Type: Extensible****Version: 2003mmdd****Context ID 12006**

680

Fetal Long Bones Measurements

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
LN		11966-9	Humerus length
LN		11967-7	Radius length
LN		11969-3	Ulna length
LN		11968-5	Tibia length
LN		11964-4	Fibula length
LN		11962-8	Clavicle length
LN		11963-6	Femur Length

CONTEXT GROUP 12007 – Fetal Cranium**Type: Extensible****Version: 2003mmdd****Context ID 12007**

684

Fetal Cranium

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
LN		12171-5	Lateral Ventricular width
LN		11860-4	Cisterna Magna length
LN		12146-7	Nuchal Fold thickness
LN		33070-4	Inner Orbital Diameter
LN		11629-3	Outer Orbital Diameter
LN		11863-8	Trans Cerebellar Diameter
LN		33069-6	Nuchal Translucency
LN		33197-5	Anterior Horn Lateral ventricular width
LN		33196-7	Posterior Horn Lateral ventricular width
LN		12170-7	Width of Hemisphere

CONTEXT GROUP 12008 – OB-GYN Ultrasound Amniotic Sac

688

Type: Extensible**Version: 2003mmdd**

Context ID 12008

OB-GYN Ultrasound Amniotic Sac

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

692

CONTEXT GROUP 12009 – Early Gestation Biometry Measurements

Type: Extensible

Version: 2003mmdd

Context ID 12009

Early Gestation Biometry Measurements

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

696

CONTEXT GROUP 12010 – OB-GYN Ultrasound Ovary Measurements

Type: Extensible

Version: 2003mmdd

Context ID 12010

OB-GYN Ultrasound Ovary Measurements

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
LN		12164-0	Left Ovary Volume
LN		11840-6	Left Ovary Length
LN		11829-9	Left Ovary Width
LN		11857-0	Left Ovary Height
LN		12165-7	Right Ovary Volume
LN		11841-4	Right Ovary Length
LN		11830-7	Right Ovary Width
LN		11858-8	Right Ovary Height

700

704 **CONTEXT GROUP 12011 – OB-GYN Ultrasound Pelvis and Uterus**

Type: Extensible

Version: 2003mmdd

Context ID 12011

OB-GYN Ultrasound Pelvis and Uterus

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
LN		11961-0	Cervix Length
LN		12145-9	Endometrium Thickness

708

CONTEXT GROUP 12012 – OB Equations and Tables

Type: Extensible

Version: 2003mmdd

Context ID 12012

OB Equations and Tables

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
INCLUDE CID 12013 Gestational Age Equations and Tables			
INCLUDE CID 12014 OB Fetal Body Weight Equations and Tables			
INCLUDE CID 12015 Fetal Growth Equations and Tables			
INCLUDE CID 12016 Estimated Fetal Weight Percentile Equations and Tables			

712

CONTEXT GROUP 12013 – Gestational Age Equations and Tables

716 These terms define a functional relationship of the gestational age from a biometric measurement.

Type: Extensible

Version: 2003mmdd

Context Group 12013

Gestational Age Equations and Tables

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
LN		11885-1	Gestational Age by LMP
LN		11884-4	Average Ultrasound Age
LN		33072-0	AC, ASUM 2000
LN		11889-3	AC, Campbell 1975
LN		11892-7	AC, Hadlock 1984

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LN		33073-8	AC, Hansmann1985
LN		33537-2	AC, Jeanty 1982
LN		11893-5	AC, Jeanty 1984
LN		33077-9	AC, Lessoway 1998
LN		33075-3	AC, Mertz 1988
LN		33076-1	AC, Shinozuka 1996
LN		33077-9	Abdominal Diameter, Lessoway 1998
LN		33078-7	AxT, Shinozuka 1996
LN		33079-5	BPD, ASUM 1989
LN		11900-8	BPD, Doubilet 1993
LN		11902-4	BPD, Hadlock 1984
LN		11903-2	BPD, Hansmann 1985
LN		33538-0	BPD, Hansmann 1986
LN		33539-8	BPD, Jeanty 1982
LN		11906-5	BPD, Kurtz 1980
LN		33080-3	BPD, Lessoway 1998
LN		33081-1	BPD, Mertz 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
LN		11901-6	BPDa, Hadlock 1982
LN		33086-0	BPD-oi, Chitty 1997
LN		33087-8	BPD-oo, Chitty 1997
LN		33088-6	Clavical length, Yarkoni 1985
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		11911-5	CRL, Hansmann 1985
LN		33540-6	CRL, Hansmann 1986
LN		33092-8	CRL, Jeanty 1982
LN		11917-2	CRL, Jeanty 1984
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
LN		33097-7	Fibula, Jeanty 1983
LN		11918-0	Fibula, Merz 1987
LN		33098-5	FL, Chitty 1997

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LN		11920-6	FL, Hadlock 1984
LN		11921-4	FL, Hansmann 1985
LN		33541-4	FL, Hansmann 1986
LN		11922-2	FL, Hohler 1982
LN		33099-3	FL, Jeanty 1982
LN		11923-0	FL, Jeanty 1984
LN		33100-9	FL, Lessoway 1998
LN		11924-8	FL, Merz 1987
LN		33542-2	FL, Merz 1988
LN		33101-7	FL, Osaka 1989
LN		33102-5	FL, Shinozuka 1996
LN		33103-3	FL, Tokyo 1986
LN		11926-3	Foot Length, Mercer 1987
LN		33104-1	GS, Daya 1991
LN		33105-8	GS, Hansmann 1979
LN		33106-6	GS, Hansmann 1982
LN		11928-9	GS, Hellman 1969
LN		33107-4	GS, Nyberg 1992
LN		11929-7	GS, Rempen 1991
LN		33108-2	GS, Tokyo 1986
LN		33109-0	HC, ASUM 2000
LN		33110-8	HC measured, Chitty 1997
LN		33111-6	HC derived, Chitty 1997
LN		11932-1	HC, Hadlock 1984
LN		33112-4	HC, Hansmann 1985
LN		33543-0	HC, Hansmann 1986
LN		33113-2	HC, Jeanty 1982
LN		11934-7	HC, Jeanty 1984
LN		33114-0	HC, Lessoway 1998
LN		33115-7	HC Merz, 1988
LN		33116-5	Humerus Length, ASUM 2000
LN		11936-2	Humerus, Jeanty 1984
LN		11937-0	Humerus, Merz 1987
LN		33117-3	Humerus Length, Osaka 1989
LN		33118-1	Length of Vertebra, Tokyo 1986
LN		33119-9	OFD, ASUM 2000
LN		33544-8	OFD, Hansmann 1985
LN		33120-7	OFD, Hansmann 1986
LN		33121-5	OFD, Lessoway 1998
LN		33122-3	IOD, Mayden 1982
LN		33123-1	IOD, Trout 1994
LN		33545-5	BD, Jeanty 1982
LN		33124-9	OOD, Mayden, 1982

LN		33125-6	OOD, Trout 1994
LN		33126-4	Radius, Jeanty 1983
LN		11939-6	Radius, Merz 1987
LN		33127-2	Spine Length, Tokyo, 1989
LN		11941-2	Tibia, Jeanty 1984
LN		33128-0	TAD, Eriksen 1985
LN		33129-8	TAD Hansmann, 1979
LN		33130-6	TAD, Tokyo 1986
LN		33131-4	ThC, Chitkara 1987
LN		33132-2	TCD, Chitty 1994
LN		33133-0	TCD, Goldstein 1987
LN		33134-8	TCD, Hill 1990
LN		33135-5	TCD, Nimrod 1986
LN		33136-3	Transverse Thoracic Diameter, Hansmann 1985
LN		33137-1	Transverse Thoracic Diameter, Lessoway 1998
LN		33138-9	Fetal Trunk Cross-Sectional Area, Osaka 1989
LN		11944-6	Ulna, Jeanty 1984
LN		11945-3	Ulna, Merz 1987

720

CONTEXT GROUP 12014 – OB Fetal Body Weight Equations and Tables

These terms define a functional relationship to estimated fetal body mass from a biometric measurement.

Type: Extensible**Version: 2003mmdd**

724

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 (0008,0104)
LN		11756-4	EFW by AC, Campbell 1975
LN		11738-2	EFW by AC, BPD, Hadlock 1984
LN		11734-1	EFW by AC, BPD, FL, Hadlock 1984
LN		11735-8	EFW by AC, BPD, FL, Hadlock 1985
LN		11732-5	EFW by AC, BPD, FL, HC, Hadlock 1985
LN		11750-7	EFW by AC, FL, Hadlock 1984
LN		11751-5	EFW by AC, FL, Hadlock 1985
LN		11746-5	EFW by AC, FL, HC, Hadlock 1985
LN		11754-9	EFW by AC, HC Hadlock 1984
LN		33139-7	EFW by BPD, TTD, Hansmann 1986
LN		11739-0	EFW by AC and BPD, Shepard 1982
LN		33140-5	EFW by BPD, FTA, FL, Osaka 1990
LN		33141-3	EFW1 by Shinozuka 1996
LN		33142-1	EFW2 by Shinozuka 1996

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
LN		33143-9	EFW3 by Shinozuka 1996
LN		33144-7	EFW by BPD, APAD, TAD, FL, Tokyo 1987

CONTEXT GROUP 12015 – Fetal Growth Equations and Tables

728 These terms specify biometric growth parameter of a population distribution as a function of gestational age. The term may also specify the population's distribution, and so enable calculating a percentile rank or Z-score relative to the distribution.

Type: Extensible**Version: 2003mmdd**

732

Context ID 12015**Fetal Growth Equations and Tables**

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
LN		33145-4	AC by GA, ASUM 2000
LN		33146-2	AC by GA, Hadlock 1984
LN		33147-0	AC (measured) by GA, Chitty 1994
LN		33546-3	AC (derived) by GA, Chitty 1994
LN		33148-8	AC by GA, Merz 1988
LN		33149-6	AC by GA, Shinozuka 1996
LN		33150-4	AxT by GA, Shinozuka 1996
LN		33151-2	BPD by GA, ASUM 2000
LN		33198-3	BPD by GA, Hadlock 1984
LN		33556-2	BPD outer-inner by GA, Chitty 1994
LN		33152-0	BPD outer-outer by GA, Chitty 1994
LN		33153-8	BPD by GA, Jeanty 1982
LN		33154-6	BPD by GA, Merz 1988
LN		33155-3	BPD by GA, Rempen 1991
LN		33156-1	BPD by GA, Shinozuka 1996
LN		33157-9	Cephalic Index by GA, Chitty 1994
LN		33158-7	Cephalic Index by GA, Hadlock 1981
LN		33159-5	CRL by GA ASUM 2000
LN		33160-3	CRL by GA, Rempen1991
LN		33161-1	CRL by GA, Shinozuka 1996
LN		33162-9	EFW by GA, Hadlock 1991
LN		33163-7	EFW by GA, Hansmann 1986
LN		33164-5	Fibula by GA, Jeanty 1983
LN		33165-2	FL by GA, ASUM 2000
LN		33166-0	FL by GA, Hadlock 1984
LN		33167-8	FL by GA, Chitty 1994

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
LN		33168-6	FL by GA, Jeanty 1982
LN		33169-4	FL by GA, Merz 1988
LN		33170-2	FL by GA, Shinozuka 1996
LN		33171-0	GS by GA, Rempen 1991
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
LN		33177-7	Humerus Length by GA, ASUM 2000
LN		33178-5	OFD by GA, ASUM 2000
LN		33179-3	OFD by GA, Chitty 1994
LN		33180-1	Radius by GA, Jeanty 1983
LN		33181-9	TCD by GA Goldstein 1987
LN		33182-7	HC/AC by GA, Campbell 1977

CONTEXT GROUP 12016 – Estimated Fetal Weight Equations and Tables

736 These terms specify the population distribution for use in Z-score and percentile rank.

Type: Extensible**Version: 2003mmdd****Context Group 12016****Estimated Fetal Weight Equations and Tables**

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
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		33186-8	Male Singleton BWP by GA, Arbuckle 1993
LN		33187-6	Female Singleton BWP by GA, Arbuckle 1993
LN		33199-1	Male Twins BWP by GA, Arbuckle 1993
LN		33188-4	Female Twins BWP by GA, Arbuckle 1993
LN		33189-2	FWP by GA, Brenner 1976
LN		33190-0	FWP by MA, Hadlock 1985

740

CONTEXT GROUP 12017 – Growth Distribution Rank**Type: Extensible****Version: 2003mmdd**

744

**Context Group 12017
Growth Distribution Rank**

Code Scheme	Code Value	Code Meaning
DCM	125012	Growth Percentile Rank
DCM	125013	Growth Z-score

Annex G English Code Meanings of Selected Code Values

748

Add the following codes to Annex G

Coding Scheme Designator (0008,0102)	Coding Scheme Version	Code Value (0008,0100)	Code Meaning (0008,0104)
LN		33065-4	Ectopic Pregnancy
LN		33066-2	Estimated Last Menstrual Period LMP
LN		33067-0	Conception Date
LN		33068-8	Thoracic Area FTA
LN		33069-6	Nuchal Translucency
LN		33070-4	Inner Orbital Diameter IOD
LN		33071-2	Spine Length
LN		33072-0	AC, ASUM 2000
LN		33073-8	AC, Hansmann1985
LN		33074-6	AC, Lessoway 1998
LN		33075-3	AC, Mertz 1988
LN		33076-1	AC, Shinozuka 1996
LN		33077-9	A-P Abdominal Diameter, Lessoway 1998
LN		33078-7	AxT, Shinozuka 1996
LN		33079-5	BPD, ASUM 1989
LN		33080-3	BPD, Lessoway 1998
LN		33081-1	BPD, Mertz 1988
LN		33082-9	BPD, Osaka 1989
LN		33083-7	BPD, Rempen 1991
LN		33084-5	BPD, Shinozuka 1996
LN		33085-2	BPD, Tokyo 1986
LN		33086-0	BPD-oi, Chitty 1997
LN		33087-8	BPD-oo, Chitty 1997
LN		33088-6	Clavical length, Yarkoni 1985

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LN		33089-4	CRL, ASUM 1991
LN		33090-2	CRL, ASUM 2000
LN		33091-0	CRL, Daya 1993
LN		33092-8	CRL, Jeanty 1982
LN		33093-6	CRL, Osaka 1989
LN		33094-4	CRL, Rempen 1991
LN		33095-1	CRL, Shinozuka 1996
LN		33096-9	CRL, Tokyo 1986
LN		33097-7	Fibula, Jeanty 1983
LN		33098-5	FL, Chitty 1997
LN		33099-3	FL, Jeanty 1982
LN		33100-9	FL, Lessoway 1998
LN		33101-7	FL, Osaka 1989
LN		33102-5	FL, Shinozuka 1996
LN		33103-3	FL, Tokyo 1986
LN		33104-1	GS, Daya 1991
LN		33105-8	GS, Hansmann 1979
LN		33106-6	GS, Hansmann 1982
LN		33107-4	GS, Nyberg 1992
LN		33108-2	GS, Tokyo 1986
LN		33109-0	HC, ASUM 2000
LN		33110-8	HC measured, Chitty 1997
LN		33111-6	HC derived, Chitty 1997
LN		33112-4	HC, Hansmann 1985
LN		33113-2	HC, Jeanty 1982
LN		33114-0	HC, Lessoway 1998
LN		33115-7	HC Merz, 1988
LN		33116-5	Humerus Length, ASUM 2000
LN		33117-3	Humerus Length, Osaka 1989
LN		33118-1	Length of Vertebra, Tokyo 1986
LN		33119-9	OFD, ASUM 2000
LN		33120-7	OFD, Hansmann 1986
LN		33121-5	OFD, Lessoway 1998
LN		33122-3	IOD, Mayden 1982
LN		33123-1	IOD, Trout 1994
LN		33124-9	OOD, Mayden, 1982
LN		33125-6	OOD, Trout 1994
LN		33126-4	Radius, Jeanty 1983
LN		33127-2	Spine Length, Tokyo, 1989
LN		33128-0	TAD, Eriksen 1985
LN		33129-8	TAD Hansmann, 1979
LN		33130-6	TAD, Tokyo 1986?
LN		33131-4	ThC, Chitkara 1987
LN		33132-2	TCD, Chitty 1994

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LN		33133-0	TCD, Goldstein 1987
LN		33134-8	TCD, Hill 1990
LN		33135-5	TCD, Nimrod 1986
LN		33136-3	Transverse Thoracic Diameter, Hansmann 1985
LN		33137-1	Transverse Thoracic Diameter, Lessoway 1998
LN		33138-9	Fetal Trunk Cross-Sectional Area, Osaka 1989
LN		33139-7	EFW by BPD, TTD, Hansmann 1986
LN		33140-5	EFW by BPD, FTA, FL, Osaka 1990
LN		33141-3	EFW1 by Shinozuka 1996
LN		33142-1	EFW2 by Shinozuka 1996
LN		33143-9	EFW3 by Shinozuka 1996
LN		33144-7	EFW by BPD, APAD, TAD, FL, Tokyo 1987
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
LN		33150-4	AxT by GA, Shinozuka 1996
LN		33151-2	BPD by GA, ASUM 2000
LN		33152-0	BPD outer-outer by GA, Chitty 1994
LN		33556-2	BPD outer-inner by GA, Chitty 1994
LN		33153-8	BPD by GA, Jeanty 1982
LN		33154-6	BPD by GA, Merz 1988
LN		33155-3	BPD by GA, Rempen 1991
LN		33156-1	BPD by GA, Shinozuka 1996
LN		33157-9	Cephalic Index, by GA Chitty 1994
LN		33158-7	Cephalic Index by GA, Hadlock 1981
LN		33159-5	CRL by GA, ASUM 2000
LN		33160-3	CRL by GA, Rempen1991
LN		33161-1	CRL, by GA, Shinozuka 1996
LN		33162-9	EFW by GA, Hadlock 1991
LN		33163-7	EFW by GA, Hansmann 1986
LN		33164-5	Fibula by GA, by GA Jeanty 1983
LN		33165-2	FL by GA, ASUM 2000
LN		33166-0	FL by GA, Hadlock 1984
LN		33167-8	FL by GA, Chitty 1994
LN		33168-6	FL by GA, Jeanty 1982
LN		33169-4	FL by GA, Merz 1988
LN		33170-2	FL by GA, Shinozuka 1996
LN		33171-0	GS by GA, Rempen 1991
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

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LN		33176-9	HC by GA, Merz 1988
LN		33177-7	Humerus Length by GA, ASUM 2000
LN		33178-5	OFD by GA, ASUM 2000
LN		33179-3	OFD by GA, Chitty 1994
LN		33180-1	Radius,by GA, Jeanty 1983
LN		33181-9	TCD by GA, Goldstein 1987
LN		33182-7	HC/AC by GA, Campbell 1977
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		33186-8	Male Singleton BWP by GA, Arbuckle 1993
LN		33187-6	Female Singleton BWP by GA, Arbuckle 1993
LN		33188-4	Female Twins BWP by GA, Arbuckle 1993
LN		33189-2	FWP by GA, Brenner 1976
LN		33190-0	FWP by MA, Hadlock 1985
LN		33191-8	APAD * TAD
LN		33192-6	Uterus Volume
LN		33196-7	Posterior Horn Lateral ventricular width
LN		33197-5	Anterior Horn Lateral ventricular width
LN		33198-3	BPD by GA, Hadlock 1984
LN		33199-1	Male Twins BWP by GA, Arbuckle 1993
LN		8302-2	Patient Height
LN		29463-7	Patient Weight
LN		11996-6	Gravida
LN		11977-6	Para
LN		11612-9	Aborta
LN		11878-6	Number of Fetuses
LN		11886-9	Gestational Age by ovulation date
LN		18185-9	Gestational Age
LN		11888-5	Composite Ultrasound Age
LN		11885-1	Gestational Age by LMP
LN		11727-5	Estimated Weight
			EFW
LN		11767-1	EFW percentile rank
LN		11948-7	Fetal Heart Rate
			HR
LN		11778-8	Estimated Date of Delivery
			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	Last Menstrual Period
			LMP
LN		11976-8	Ovulation date

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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
LN		11979-2	Abdominal Circumference
			AC
LN		11818-2	Anterior-Posterior Abdominal Diameter
			APAD
LN		11819-0	Anterior-Posterior Trunk Diameter
LN		11820-8	Biparietal Diameter
			BPD
LN		11824-0	BPD area corrected
			BPDa
LN		11860-4	Cisterna Magna
LN		11963-6	Femur Length
			FL
LN		11965-1	Foot length
LN		11984-2	Head Circumference
			HC
LN		11851-3	Occipital-Frontal Diameter
			OFD
LN		11988-3	Thoracic Circumference
			TC
LN		11862-0	Transverse Abdominal Diameter
			TAD
LN		11863-8	Trans Cerebellar Diameter
			TCD
LN		11864-6	Transverse Thoracic Diameter
			TTD
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
LN		11966-9	Humerus length
LN		11967-7	Radius length
LN		11969-3	Ulna length
LN		11968-5	Tibia length
LN		11964-4	Fibula length
LN		11962-8	Clavicle length
LN		12171-5	Lateral Ventricular width
LN		11860-4	Cisterna Magna length

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LN		12146-7	Nuchal Fold thickness
LN		11629-3	Outer Orbital Diameter
			OOD
LN		11863-8	Trans Cerebellar Diameter
			TDC
LN		12170-7	Width of Hemisphere
LN		11624-4	First Quadrant Diameter
LN		11626-9	Second Quadrant Diameter
LN		11625-1	Third Quadrant Diameter
LN		11623-6	Fourth Quadrant Diameter
LN		11957-8	Crown Rump Length (CRL)
LN		11850-5	Gestational Sac Diameter
LN		11816-6	Yolk Sac length
LN		12164-0	Left Ovary Volume
LN		11840-6	Left Ovary Length
LN		11829-9	Left Ovary Width
LN		11857-0	Left Ovary Height
LN		12165-7	Right Ovary Volume
LN		11841-4	Right Ovary Length
LN		11830-7	Right Ovary Width
LN		11858-8	Right Ovary Height
LN		11961-0	Cervix Length
LN		12145-9	Endometrium Thickness
LN		11885-1	Gestational Age by LMP
LN		11884-4	Average Ultrasound Age
LN		11889-3	AC, Campbell 1975
LN		11892-7	AC, Hadlock 1984
LN		11893-5	AC, Jeanty 1984
LN		11900-8	BPD, Doubilet 1993
LN		11902-4	BPD, Hadlock 1984
LN		11903-2	BPD, Hansmann 1985
LN		11903-2	BPD, Hansmann 1986
LN		11905-7	BPD, Jeanty 1982
LN		11906-5	BPD, Kurtz 1980
LN		11907-3	BPD, Sabbagha 1978
LN		11901-6	BPDa, Hadlock 1982
LN		11910-7	CRL, Hadlock 1992
LN		11911-5	CRL, Hansmann 1985
LN		11917-2	CRL, Jeanty 1984
LN		11913-1	CRL, Nelson 1981
LN		11914-9	CRL, Robinson 1975
LN		11918-0	Fibula, Merz 1987
LN		11920-6	FL, Hadlock 1984
LN		11921-4	FL, Hansmann 1985

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LN		11922-2	FL, Hohler 1982
LN		33099-3	FL, Jeanty 1982
LN		11923-0	FL, Jeanty 1984
LN		33100-9	FL, Lessoway 1998
LN		11924-8	FL, Merz 1987
LN		33101-7	FL, Osaka 1989
LN		33102-5	FL, Shinozuka 1996
LN		33103-3	FL, Tokyo 1986
LN		11926-3	Foot Length, Mercer 1987
LN		33104-1	GS, Daya 1991
LN		33105-8	GS, Hansmann 1979
LN		33106-6	GS, Hansmann 1982
LN		11928-9	GS, Hellman 1969
LN		33107-4	GS, Nyberg 1992
LN		11929-7	GS, Rempen 1991
LN		11932-1	HC, Hadlock 1984
LN		11934-7	HC, Jeanty 1984
LN		11936-2	Humerus, Jeanty 1984
LN		11937-0	Humerus, Merz 1987
LN		33545-5	BD, Jeanty 1982
LN		11939-6	Radius, Merz 1987
LN		11941-2	Tibia, Jeanty 1984
LN		11944-6	Ulna, Jeanty 1984
LN		11945-3	Ulna, Merz 1987
LN		11756-4	EFW by AC, Campbell 1975
LN		11738-2	EFW by AC, BPD, Hadlock 1984
LN		11734-1	EFW by AC, BPD, FL, Hadlock 1984
LN		11735-8	EFW by AC, BPD, FL, Hadlock 1985
LN		11732-5	EFW by AC, BPD, FL, HC, Hadlock 1985
LN		11750-7	EFW by AC, FL, Hadlock 1984
LN		11751-5	EFW by AC, FL, Hadlock 1985
LN		11746-5	EFW by AC, FL, HC, Hadlock 1985
LN		11754-9	EFW by AC, HC Hadlock 1984
LN		11739-0	EFW by AC and BPD, Shepard 1982
LN		33130-6	TAD, Tokyo 1986
LN		33131-4	ThC, Chitkara 1987
LN		33537-2	AC, Jeanty 1982
LN		33538-0	BPD, Hansmann 1986
LN		33539-8	BPD, Jeanty 1982
LN		33540-6	CRL, Hansmann 1986
LN		33541-4	FL, Hansmann 1986
LN		33542-2	FL, Merz 1988
LN		33543-0	HC, Hansmann 1986
LN		33544-8	OFD, Hansmann 1985

LN		33545-5	BD, Jeanty 1982
LN		33147-0	AC (measured) by GA, Chitty 1994
LN		33546-3	AC (derived), Chitty 1994

Add the following definitions to Part 16 Annex D DICOM Controlled Terminology Definitions.

Annex D DICOM Controlled Terminology Definitions (Normative)

Appendix: New Terms

Code Value	Code Meaning	Definition	Notes
121106	Comment	Comment	
121111	Summary	Summary of a procedure, including most significant findings	
121118	Patient Characteristics	Patient Characteristics (findings)	
121401	Derivation	Method of deriving or calculating a measured value (e.g., mean, or maximum of set)	
121402	Normality	Assessment of a measurement relative to a normal range of values; may be considered subtype of term (G-C0F2, SRT, "has interpretation")	
121403	Level of Significance	Significance of a measurement	
121404	Selection Status	Status of selection of a measurement for further processing or use	
121405	Population description	Description of a population of measurements	
121406	Reference Authority	Bibliographic or clinical reference for a Description of a population of measurements	
121407	Normal Range description	Description of a normal range of values for a measurement concept	
121408	Normal Range Authority	Bibliographic or clinical reference for a Description of a normal range of values	

121410	User chosen value	Observation value selected by user for further processing or use, or as most representative	
121411	Most recent value chosen	Observation value is the recently obtained, and has been selected for further processing or use	
121412	Mean value chosen	Observation value is the mean of several measurements, and has been selected for further processing or use	
121414	Standard deviation of population	Standard deviation of a measurement in a reference population	
121415	Percentile Ranking of measurement	Percentile Ranking of an observation value with respect a reference population	
121416	Z-Score of measurement	Z-score of an observation value with respect a reference population, expressed as the dimensionless quantity $(x-m)/s$, where $(x-m)$ is the deviation of the observation value (x) from the population mean (m), and s is the standard deviation of the population.	
121417	2 Sigma deviation of population	2 Sigma deviation of a measurement in a reference population	
121420	Equation	Formula used to compute a derived measurement	
121421	Equation Citation	Bibliographic reference to a formula used to compute a derived measurement; reference may be to a specific equation in a journal article	
121422	Table of Values Citation	Bibliographic reference to a Table of Values used to look up a derived measurement	
121423	Method Citation	Bibliographic reference to a method used to compute a derived measurement	
121424	Table of Values	A Table of Values used to look up a derived measurement	
121427	Estimated	Measurement obtained by observer estimation, rather than with a measurement tool or by calculation	
121428	Calculated	Measurement obtained by calculation	
121059	Presence Undetermined	Presence or absence of a property is undetermined	

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125000	OB-GYN Ultrasound Procedure Report	Document Title of OB-GYN procedure report	
125001	Fetal Biometry Ratios	Report section for assessment of fetal growth using ratios and indexes	
125002	Fetal Biometry	Report section for assessment of fetal growth	
125003	Fetal Long Bones	Report section for assessment of fetal growth by long bone measurements	
125004	Fetal Cranium	Report section for assessment of fetal cranium growth	
125005	Biometry Group	Biometric assessment of	
125006	Biophysical Profile	Report section for assessment of biophysical observations that evaluate fetal well-being according to Manning, Antepartum Fetal Evaluation: Development of a Fetal Bbiophysical Profile Score, Am. J Obsetet Gynecol, 1980;136:787.	
125007	Measurement Group	A grouping of related measurements and calculations that share a common context	
125008	Fetus Summary	Report section for fetus specific prodedure summary observations	
125009	Early Gestation	Report section for assessment of early gestation fetus	
125010	Identifier	A name to differentiate between multiple instances of some item	
125011	Pelvis and Uterus	Report section for assessment of pelvis and uterus	
125012	Growth Percentile rank	The rank of a measured growth indicator relative to a normal distribution expressed as a percentage.	
125013	Growth Z-score	The rank of a measured growth indicator relative to a normal distribution expressed as the dimensionless quantity $z = (x-m)/s$ where $(x-m)$ is the deviation of the value x , from from the distribution mean, m , and s is the standard deviation of the distribution.	