Digital Imaging and Communications in Medicine (DICOM)

Supplement 249: Ultrasound Fetal Anatomy Survey Structured Report Extensions

DICOM Standards Committee – Working Group 12

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# Scope and Field

This supplement to the DICOM Standard introduces new SR template content to address fetal anatomy survey assessments in ultrasound reports. Specifically, a sub-template is added to TID 5000 along with corresponding CIDs to address the anatomy of interest and assessments for each.

Clinical guidelines from the International Society of Ultrasound in Obstetrics and Gynecology (ISUOG) call for a survey of fetal anatomy in the first, second, and third trimesters to identify structural anomalies. In Japan, JSUM guidelines call for first and second trimester anatomy surveys. The guidelines identify specific lists of anatomy to consider. E.g.

* <https://www.isuog.org/static/f465db45-655c-42eb-96a196bcd2d34547/ISUOG-Practice-Guidelines-Updated-performance-of-11-14-week-ultrasound-scan.pdf>
* <https://www.isuog.org/static/4e2ed89e-fa8a-42c2-9c0929cd89cb58ff/ISUOG-Practice-Guidelines-routine-mid-trimester-fetal-ultrasound.pdf>
* <https://www.isuog.org/static/47b32c42-6727-4888-b4fe349005111180/Ultrasound-in-Obstet-Gyne-2024-Khalil-ISUOG-Practice-Guidelines-performance-of-thirdtrimester-obstetric.pdf>
* <https://journals.sagepub.com/doi/epub/10.1177/8756479314532221>

## Open Issues:

Q1. Would it be useful to add subsections (e.g. Head/Brain, Neck, Chest, Heart, Abdomen) to the structure of the template and is there international agreement on what those subsections would be?

Currently the anatomy survey is a flat list of assessments (with no subsections). If the system doing the display wants to group them, it could do that based on having its own table of what codes go together and what to call the subgroups. If we decided to model this in the DICOM structure, then implementations would have to navigate the structure. This might have implications for processing and display.

Q2. In newtid1, should Row 4 (Comment) be made a child of Row 3 (Fetal Anatomy Survey Assessment)?

Making it a child would force each comment to be associated with a specific anatomic observation. This might facilitate data mining but might also result in duplication of information. Keeping them as peers, would allow for an “umbrella comment” that discusses multiple abnormal observations. Could also consider having two comment lines, one as a child and one at the top level.

Q3. Should we incorporate the code (122288, DCM, "Not Visualized"), either adding it to CID 242 or creating a new CID that has Normal, Abnormal, Not Visualized)?

If there is a clear distinction between (371934000, SCT, “Normality Undetermined”) and (122288, DCM, "Not Visualized") (or perhaps (373121007 ,SCT, “Not Evaluated”)) in this context, then it might make sense to add it.

Q4. in newtid1, should we add a row in for (272741003, SCT,​ "Laterality")?

Currently, laterality is pre-coordinated if needed. Other OB/GYN reports are inconsistent about pre-coordinating or post-coordinating laterality. Coding laterality would allow use of (51440002​, SCT, “Bilateral”) to encode assessments of both left and right which seems common in fetal anatomy surveys.

Q5. Should we change all the anatomy codes to use children of (367570001, SCT, “Fetal part”)?

Didn’t stumble across this code sub-tree until final PC preparation. On the one hand, they are specific to our application domain. On the other hand, there might be some value to using anatomy codes that are already familiar/supported, perhaps making it easier to database and correlate pediatric and fetal measurements of the same structure in the same subject.

Q6. Can we just use codes for singular body parts even when both are being assessed as a pair?

SNOMED has fewer codes for body part pairs/sets. Again, may be simpler for searching if we don’t introduce additional plural codes.

## Closed Issues:

Q1. Is there a need to encode the criteria used by the operator to assess the normality of each piece of anatomy? (E.g. the spine was assessed in terms of shape, continuity, and lack of defects).

A. No. The guidelines provide some guidance (which will vary over time and country) but the operator may look at a variety of things which may go beyond the guidance. Anything of interest will be noted in the Comments.

Q2. Is it OK if a couple of the codes in the CID are not strictly pieces of anatomy (e.g. “four chamber view” (of heart))?

A. Yes. That’s OK. They are an assessment conducted during a Fetal Anatomy Survey.

Q3. Should qualitative assessments that are not normal/abnormal go in newtid1?

A. No. Keep this survey uniform. Do a CP to add things like Placenta Location (marginal, partial, complete previa, low lying, etc), Placenta Grade (0 to 3), Placenta Cord Insertion Abnormalities (Velamentous, vasa previa, etc), Cardiac Size (mild/mod/severe increased/decreased), Cardiac function (mild/mod/severe impairment of contractility), Cardiac position, Fetal Position (breech, oblique, etc), Presence of Funneling or Cerclage, Cervix description, etc to existing or other new sections.

# Changes to NEMA Standards Publication PS3.6

Part 6: Data Dictionary

*Add the following UID Values to Part 6 Annex A Table A-3:*

## Table A-3 CONTEXT GROUP UID VALUES

|  |  |  |
| --- | --- | --- |
| **Context UID** | **Context Identifier** | **Context Group Name** |
| ... | ... | … |
| **1.2.840.10008.6.1.newcidUID1** | **newcid1** | **Fetal Anatomy Survey Assessment** |
|  |  |  |

# Changes to NEMA Standards Publication PS3.16

Part 16: Content Mapping Resource

*Modify PS3.16 TID 5000 as shown*

### 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**

**Order: Significant**

**Root: Yes**

Table TID 5000. OB-GYN Ultrasound Procedure Report

|  | **NL** | **Rel with Parent** | **VT** | **Concept Name** | **VM** | **Req Type** | **Condition** | **Value Set Constraint** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 |  |  | CONTAINER | BCID 12024 “OB-GYN Ultrasound Report Document Title” | 1 | M |  | Root node |
| … |  |  |  |  |  |  |  |  |
| 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 “Fetal Long Bones Section” | 1-n | U |  |  |
| 11 | > | CONTAINS | INCLUDE | DTID 5007 “Fetal Cranium Section” | 1-n | U |  |  |
| 12 | > | CONTAINS | INCLUDE | DTID 5009 “Fetal Biophysical Profile Section” | 1-n | U |  |  |
| **12a** | **>** | **CONTAINS** | **INCLUDE** | **DTID newtid1 “Fetal Anatomy Survey Section”** | **1-n** | **U** |  |  |
| 12 | > | CONTAINS | INCLUDE | DTID 5011 “Early Gestation Section” | 1-n | U |  |  |
| … |  |  |  |  |  |  |  |  |

**Content Item Descriptions**

|  |  |
| --- | --- |
| Row 6 | No purpose of reference is specified.​ |
| **Row 12a** | **The Fetal Anatomy Survey is qualitative, not quantitative. Any measurements and quantitative assessments will appear in other sections, such as the Fetal Biometry Section.** |

***Create*** *PS3.16 TID newtid1 as shown*

### TID newtid1 Fetal Anatomy Survey Section

This Template contains assessments of fetal anatomy. ​

**Type: Extensible**

**Order: Non-Significant**

**Root: No**

Table TID newtid1. Fetal Anatomy Survey Section

|  | **NL** | **Rel with Parent** | **VT** | **Concept Name** | **VM** | **Req Type** | **Condition** | **Value Set Constraint** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 |  |  | CONTAINER | EV [(newcode0, DCM, "Fetal Anatomy Survey")](#DCM_111005) | 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 | CODE | DCID newcid1 “Fetal Anatomy Survey Assessment” | 1-n | U |  | DCID 242 “Normal-Abnormal”​ |
| 4 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment")​ | 1-n | MC | IF any entries in Row 3 have a value of (263654008, SCT, ”Abnormal”) |  |

**Content Item Descriptions**

|  |  |
| --- | --- |
| Row 3 | The code (371934000, SCT, “Normality Undetermined”) from CID 242 can be used to represent “Not Visualized”. |
| Row 4 | Descriptive text about any abnormal findings in the anatomy survey. |

*Modify PS3.16 CID 242 as shown*

### CID 242 Normal-Abnormal​

This Context Group is a subset of CID 222 “Normality”.​

**Resources:** [**HTML**](http://dicom.nema.org/medical/dicom/current/output/chtml/part16/sect_CID_6005.html) **|** [**FHIR JSON**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/json/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.json) **|** [**FHIR XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/xml/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.xml) **|** [**IHE SVS XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/ihe/svs/1.2.840.10008.6.1.335.xml)

**Type: Non-Extensible**

**Keyword: NormalAbnormal​**

**FHIR Keyword: dicom-cid-242-NormalAbnormal**

**Version: 20170914**

**UID: 1.2.840.10008.6.1.36**

Table CID 242. Normal-Abnormal

| **Coding Scheme Designator** | **Code Value** | **Code Meaning** | **SNOMED-RT ID** | **UMLS Concept Unique ID** |
| --- | --- | --- | --- | --- |
| SCT | 17621005 | Normal | G-A460​ | C0205307​ |
| SCT | 263654008​ | Abnormal | R-42037 | C0205161​ |
| SCT | 371934000​ | Normality Undetermined | R-0039B​ | C1299401​ |

***Create*** *PS3.16 newCIDs as shown*

**Reviewer Notes**:

1) In several of the following CIDs a few codes have *(text in italics and parentheses)* below the Code Value. This text indicates the reference code meaning from SNOMED CT. Reviewers are requested to comment on whether that text is sufficiently aligned with the intended DICOM Code Meaning shown in the third column, or whether a different SNOMED or DICOM code should be used instead.

2) In several of the following CIDs a few codes have **SCT** shown as bold/underline. This can be ignored as it is purely for the DICOM editor (to signal to the editor that these codes have not previously been part of the DICOM-SNOMED code set and will need to be added)

### CID newcid1 Fetal Anatomy Survey Assessment ​

**Resources:** [**HTML**](http://dicom.nema.org/medical/dicom/current/output/chtml/part16/sect_CID_6005.html) **|** [**FHIR JSON**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/json/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.json) **|** [**FHIR XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/xml/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.xml) **|** [**IHE SVS XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/ihe/svs/1.2.840.10008.6.1.335.xml)

**Keyword: FetalAnatomySurveyAssessment ​**

**FHIR Keyword: dicom-cid-newcid1-FetalAnatomySurveyAssessment**

**Type: Extensible**

**Version: yyyymmdd**

**UID: 1.2.840.10008.6.1.newuid1**

Table CID newcid1. Fetal Anatomy Survey Assessment

| **Coding Scheme Designator** | **Code Value** | **Code Meaning** | **SNOMED-RT ID** | **UMLS Concept Unique ID** |
| --- | --- | --- | --- | --- |
| *Include CID newcid2 “Fetal Anatomy Survey Assessment - Head”​* | | | | |
| *Include CID newcid3 “Fetal Anatomy Survey Assessment - Face and Neck”​* | | | | |
| *Include CID newcid5 “Fetal Anatomy Survey Assessment - Thorax”​* | | | | |
| *Include CID newcid6 “Fetal Anatomy Survey Assessment - Heart”​* | | | | |
| *Include CID newcid7 “Fetal Anatomy Survey Assessment - Abdomen”​* | | | | |
| *Include CID newcid8 “Fetal Anatomy Survey Assessment - Extremities”​* | | | | |
| **SCT** | 55460000 | Fetal Structure |  |  |
| SCT | 71934003 | Genitalia |  |  |
| SCT | 78067005​ | Placenta | T-F1100​ | C0032043​ |
| **SCT** | 29493001 | Structure of placental attachment of umbilical cord |  |  |
| SCT | 29870000​ | Umbilical Cord | T-F1800​ | C0041633*​  Insertion into fetal abdomen* |
| SCT | 70847004 *(Amnion/ Amniotic Sac)* | Amniotic membrane |  |  |
| SCT | 71252005​ | Cervix | T-83200 |  |

### CID newcid2 Fetal Anatomy Survey Assessment - Head ​

**Resources:** [**HTML**](http://dicom.nema.org/medical/dicom/current/output/chtml/part16/sect_CID_6005.html) **|** [**FHIR JSON**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/json/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.json) **|** [**FHIR XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/xml/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.xml) **|** [**IHE SVS XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/ihe/svs/1.2.840.10008.6.1.335.xml)

**Keyword: FetalAnatomySurveyAssessmentHead ​**

**FHIR Keyword: dicom-cid-newcid2-FetalAnatomySurveyAssessmentHead**

**Type: Extensible**

**Version: yyyymmdd**

**UID: 1.2.840.10008.6.1.newuid2**

Table CID newcid2. Fetal Anatomy Survey Assessment - Head

| **Coding Scheme Designator** | **Code Value** | **Code Meaning** | **SNOMED-RT ID** | **UMLS Concept Unique ID** |
| --- | --- | --- | --- | --- |
| SCT | 89546000 | Cranium | T-11100 |  |
| SCT | 12738006 | Brain | T-A0100 | C0006104 |
| **SCT** | 80401008  *(Falx Cerebri)* | Midline Falx |  |  |
| SCT | 74968005  *(Cavum of septum pellucidum)* | Cavum septi pellucidi | T-A1630 | C0228158 |
| SCT | 80621003​ | Choroid Plexus | T-A1900 |  |
| SCT | 119406000​  *(Thalamus)* | Thalami | T-D0593​ | C0458271*​* |
| SCT | 119238007​ | Brain stem | T-D0558 | C1268144​ |
| **SCT** | 9000002 *(encompasses superior, mid, and inferior peduncles)* | Cerebral peduncles |  | *with aqueduct of Sylvius* |
| SCT | 66720007  *(lateral cerebral ventricle)* | Lateral cerebral ventricles | T-A1650​ | C0152279*​* |
| SCT | 49841001 | Third ventricle | T-A1740 | C0149555 |
| SCT | 35918002 | Fourth ventricle | T-A1820 | C0149556 |
| SCT | 11279006 | Circle of Willis | T-45520 |  |
| SCT | 113305005 | Cerebellum | T-A6000​ | C0007765​ |
| SCT | 88442005 | Corpus callosum | T-A2700 | C0010090 |
| **SCT** | 83678007 | Cerebrum |  |  |
| **SCT** | 314139009 | Cerebral lobe |  |  |
| **SCT** | 58501004 | Cerebellar vermis |  |  |
| SCT | 32361000 | Posterior fossa | T-D9310 |  |

### CID newcid3 Fetal Anatomy Survey Assessment – Face and Neck ​

**Resources:** [**HTML**](http://dicom.nema.org/medical/dicom/current/output/chtml/part16/sect_CID_6005.html) **|** [**FHIR JSON**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/json/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.json) **|** [**FHIR XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/xml/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.xml) **|** [**IHE SVS XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/ihe/svs/1.2.840.10008.6.1.335.xml)

**Keyword: FetalAnatomySurveyAssessmentFaceAndNeck ​**

**FHIR Keyword: dicom-cid-newcid3-FetalAnatomySurveyAssessmentFaceAndNeck**

**Type: Extensible**

**Version: yyyymmdd**

**UID: 1.2.840.10008.6.1.newuid3**

Table CID newcid3. Fetal Anatomy Survey Assessment - Face and Neck

| **Coding Scheme Designator** | **Code Value** | **Code Meaning** | **SNOMED-RT ID** | **UMLS Concept Unique ID** |
| --- | --- | --- | --- | --- |
| SCT | 54165005​ | Cisterna magna | T-A1520 | C0008841​ |
| **SCT** | 52795006 | Forehead |  |  |
| SCT | 363654007​ *(Orbit)* | Orbits | T-D14AE | C0029180​ |
| SCT | 79652003​ *(Eyeball)* | Bulbi | T-AA770​ | C0229242​ |
| DCM | Newcode4 | Midsagittal facial profile |  |  |
| SCT | 74386004​ | Nasal bone | T-11149​ | C0027422 |
| SCT | 45206002 | Nose | T-21000 |  |
| **SCT** | 1797002 | Nostril |  |  |
| **SCT** | 72914001 | Palate |  |  |
| SCT | 70925003​ | Maxilla | T-11170​ | C0024947 |
| DCM | Newcode03 | Retronasal triangle |  |  |
| **SCT** | 11681001 | Upper lip |  |  |
| SCT | 91609006 | Mandible | T-11180 | C0024687 |
| SCT | 21974007​ | Tongue | T-53000​ | C0040408 |
| SCT | 117590005 | Ears | T-AB001 |  |
| SCT | 45048000 | Neck | T-D1600 |  |
| DCM | Newcode5 | Jugular cyst observation |  |  |
| LN | 12102-0 | Nuchal fold observation |  |  |

### CID newcid5 Fetal Anatomy Survey Assessment - Thorax ​

**Resources:** [**HTML**](http://dicom.nema.org/medical/dicom/current/output/chtml/part16/sect_CID_6005.html) **|** [**FHIR JSON**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/json/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.json) **|** [**FHIR XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/xml/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.xml) **|** [**IHE SVS XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/ihe/svs/1.2.840.10008.6.1.335.xml)

**Keyword: FetalAnatomySurveyAssessmentThorax ​**

**FHIR Keyword: dicom-cid-newcid5-FetalAnatomySurveyAssessmentThorax**

**Type: Extensible**

**Version: yyyymmdd**

**UID: 1.2.840.10008.6.1.newuid5**

Table CID newcid5. Fetal Anatomy Survey Assessment - Thorax

| **Coding Scheme Designator** | **Code Value** | **Code Meaning** | **SNOMED-RT ID** | **UMLS Concept Unique ID** |
| --- | --- | --- | --- | --- |
| SCT | 78904004 | Thoracic wall | T-D3050​ | C0205076*​* |
| SCT | 816094009​ | Chest |  |  |
| **SCT** | 74101002 *(both lungs)* | Lung fields |  |  |
| SCT | 5798000 | Diaphragm | T-D3400 | C0011980 |
| SCT | 113197003​ *(Rib)* | Ribs | T-11300​ | C0035561*​* |
| SCT | 9875009​ | Thymus | T-C8000​ |  |
| SCT | 44567001 | Trachea | T-25000 | C0040578 |

### CID newcid6 Fetal Anatomy Survey Assessment - Heart ​

**Resources:** [**HTML**](http://dicom.nema.org/medical/dicom/current/output/chtml/part16/sect_CID_6005.html) **|** [**FHIR JSON**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/json/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.json) **|** [**FHIR XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/xml/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.xml) **|** [**IHE SVS XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/ihe/svs/1.2.840.10008.6.1.335.xml)

**Keyword: FetalAnatomySurveyAssessmentHeart ​**

**FHIR Keyword: dicom-cid-newcid6-FetalAnatomySurveyAssessmentHeart**

**Type: Extensible**

**Version: yyyymmdd**

**UID: 1.2.840.10008.6.1.newuid6**

Table CID newcid6. Fetal Anatomy Survey Assessment - Heart

| **Coding Scheme Designator** | **Code Value** | **Code Meaning** | **SNOMED-RT ID** | **UMLS Concept Unique ID** |
| --- | --- | --- | --- | --- |
| SCT | 80891009 | Heart | T-32000 | C0018787 |
| **SCT** | 249044008 | Fetal Heart Rhythm |  |  |
| DCM | Newcode6 | Cardiac axis |  |  |
| DCM | Newcode7 | Cardiac size |  |  |
| SCT | 57034009​ | Aortic arch | T-42300​ | C0003489 |
| SCT | 48345005 | Superior vena cava | T-48610 | C0042459 |
| SCT | 64131007 | Inferior vena cava | T-48710 | C0042458 |
| SCT | 13418002​ | Left Ventricular Outflow Tract | T-32650 | C0225912​ |
| SCT | 44627009​ | Right Ventricular Outflow Tract | T-32550 | C0225892 |
| SCT | 111287006​ | Tricuspid regurgitation | D3-29042​ | C0040961​ |
| SCT | 589001 | Interventricular septum | T-32410 | C0225870 |
| DCM | Newcode10 | Antegrade ductus venosus |  |  |
| **SCT** | 91746003 | Cardiac Ventricles |  |  |
| DCM | 131029 | Four-chamber View |  |  |
| DCM | 131025 | Three vessel view |  |  |
| DCM | 131026 | Three vessel and trachea view |  |  |
| DCM | 131028 | Left ventricular outflow tract view |  |  |
| SCT | 399195005 | Right ventricular outflow tract view | G-039D​ | C1275831 |

### CID newcid7 Fetal Anatomy Survey Assessment - Abdomen ​

**Resources:** [**HTML**](http://dicom.nema.org/medical/dicom/current/output/chtml/part16/sect_CID_6005.html) **|** [**FHIR JSON**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/json/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.json) **|** [**FHIR XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/xml/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.xml) **|** [**IHE SVS XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/ihe/svs/1.2.840.10008.6.1.335.xml)

**Keyword: FetalAnatomySurveyAssessmentAbdomen ​**

**FHIR Keyword: dicom-cid-newcid7-FetalAnatomySurveyAssessmentAbdomen**

**Type: Extensible**

**Version: yyyymmdd**

**UID: 1.2.840.10008.6.1.newuid7**

Table CID newcid7. Fetal Anatomy Survey Assessment - Abdomen

| **Coding Scheme Designator** | **Code Value** | **Code Meaning** | **SNOMED-RT ID** | **UMLS Concept Unique ID** |
| --- | --- | --- | --- | --- |
| SCT | 52731004 | Abdominal cavity | T-D4010 |  |
| LN | 12030-3 | Abdominal wall observation |  |  |
| SCT | 69695003​ | Stomach | T-57000 | C0038351​ |
| SCT | 89837001​ | Bladder | T-74000 | C0005682*​* |
| DCM | Newcode8 | Bladder size |  |  |
| **SCT** | 113276009 | Bowel |  |  |
| SCT | 34402009 | Rectum | T-59600 | C0034896 |
| SCT | 134315000  *(Both Adrenal Glands)*  23451007​  *(Adrenal Gland)* | Adrenal glands | T-B3000 | C0001625 |
| SCT | 28231008 | Gallbladder | T-63000 | C0016976​ |
| SCT | 10200004 | Liver | T-62000 | C0023884​ |
| SCT | 50536004​  *(Umbilical Artery)* | Umbilical arteries | T-F1810 | C0041632*​* |
| SCT | 28463900 | Umbilical vein | T-48832 |  |
| **SCT** | 17373004  *(Both Kidneys)* | Kidneys |  |  |
| SCT | 2841007​  *(Renal Artery)* | Renal arteries | T-46600 | C0035065​ |
| SCT | 78961009​ | Spleen | T-C3000 | C0037993​ |
| SCT | 87953007 | Ureter | T-73000 | C0041951 |
| SCT | 421060004​ | Spine | T-D04FF​ | C0037949​ |
| SCT | 122494005 | Cervical Spine | T-11501 | C0728985 |
| SCT | 122494006 | Thoracic Spine | T-11502 | C0581269 |
| SCT | 122494007 | Lumbar Spine | T-11503 | C0024091 |

### CID newcid8 Fetal Anatomy Survey Assessment - Extremities ​

**Resources:** [**HTML**](http://dicom.nema.org/medical/dicom/current/output/chtml/part16/sect_CID_6005.html) **|** [**FHIR JSON**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/json/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.json) **|** [**FHIR XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/fhir/xml/ValueSet-dicom-cid-6005-ShapeCharacteristicFromBIRADS.xml) **|** [**IHE SVS XML**](ftp://medical.nema.org/medical/dicom/resources/valuesets/ihe/svs/1.2.840.10008.6.1.335.xml)

**Keyword: FetalAnatomySurveyAssessmentExtremities**

**FHIR Keyword: dicom-cid-newcid8-FetalAnatomySurveyAssessmentExtremities**

**Type: Extensible**

**Version: yyyymmdd**

**UID: 1.2.840.10008.6.1.newuid8**

Table CID newcid8. Fetal Anatomy Survey Assessment - Extremities

| **Coding Scheme Designator** | **Code Value** | **Code Meaning** | **SNOMED-RT ID** | **UMLS Concept Unique ID** |
| --- | --- | --- | --- | --- |
| SCT | 53120007​  *(Upper Limb)* | Upper limbs | T-D8000 | C1140618 |
| SCT | 40983000 | Upper arm | T-D8200 |  |
| SCT | 14975008 | Forearm | T-D8500 |  |
| SCT | 85562004​  *(Hand)* | Hands | T-D8700​ | C0018563*​* |
| **SCT** | 70327001 | All Fingers |  |  |
| SCT | 61685007  *(Lower Limb)* | Lower limbs | T-D9000 | C0023216​ |
| SCT | 71341001 | Femur | T-12710​ |  |
| SCT | 30021000 | Lower Leg | T-D9400 |  |
| SCT | 56459004​ *(Foot)* | Feet | T-D9700​ | C0016504*​* |
| **SCT** | 8671006 | All Toes |  |  |

Add the following Definitions to Annex D

### DICOM Code Definitions (Coding Scheme Designator “DCM” Coding Scheme Version “01”)

|  |  |  |  |
| --- | --- | --- | --- |
| Code Value | Code Meaning | Definition | Notes |
| … |  |  |  |
| **Newcode0** | **Fetal Anatomy Survey** | **Report section for qualitative assessment of fetal anatomy** |  |
| **Newcode3** | **Retronasal triangle** | **A sonographic landmark comprised of the three echogenic lines formed by the two frontal processes of the maxilla and the palate visualized in the coronal view of the fetal face posterior to the nose. Relevant to early screening for cleft palate.** |  |
| **Newcode4** | **Midsagittal facial profile** | **A view of the face in a sagittal plane roughly on the left-right line of symmetry (i.e. centered on the nose).** |  |
| **Newcode5** | **Jugular cyst observation** | **An observation of whether masses are present in the neck.** | *Absence of masses in neck* |
| **Newcode6** | **Cardiac axis** | **A qualitative assessment of the orientation of the axis of the heart (i.e. the line roughly from the apex of the left ventricle to the aortic valve)** | *Typically to left 30-60deg* |
| **Newcode7** | **Cardiac size** | **A qualitative assessment of the size of the heart.** | *1/3 of thoracic space* |
| **Newcode8** | **Bladder size** | **A qualitative assessment of the size of the bladder.** | *Length/long diam <7mm* |
| **Newcode10** | **Antegrade ductus venosus** | **Antegrade blood flow in the ductus venosus.** |  |