Digital Imaging and Communications in Medicine (DICOM)

Supplement 233

Patient Model Gender Enhancements

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**Table of Contents**

Document History 5

Open Issues 5

Closed Issues 5

Part 3 5

C.2.3 Patient Demographic Module 5

C.4.13 Performed Procedure Step Relationship 8

C.7.1 Common Patient IE Modules 12

C.7.1.1 Patient Module 12

C.7.2.2 Patient Study Module 12

C.7.2.2.1.x1 Patient's Gender and Sex Attributes 15

C.7.2.2.1.x2 Sex for Clinical Use Sequence 16

C.7.2.2.1.y Patient's Gender Identity Sequence 16

C.7.2.2.1.a Name to Use Sequence 16

C.7.2.2.1.b Recorded Sex and Gender Sequence 16

C.30.4 Unified Procedure Step Relationship Module 17

Part 4 20

C.6.1 Patient Root SOP Class Group 20

C.6.2 Study Root SOP Class Group 20

F.7.2 Operations 22

F.7.2.1.1 Modality Performed Procedure Step Subset Specification 22

F.8.2 Operations 24

K.6.1 Modality Worklist SOP Class 27

Q.4.3 Relevant Patient Information Model SOP Classes 29

V.6.2 Substance Approval Query SOP Class 31

CC.2.5 Create a Unified Procedure Step (N-CREATE) 33

Part 6 37

Part 15 38

E.1 APPLICATION LEVEL CONFIDENTIALITY PROFILES 38

Part 16 39

CIDxxx1 Person Gender 39

CIDxxx2 Sex for Clinical Use 40

CIDxxx3 International Equivalent Sexes 41

CIDxxx4 Third Person Pronouns 41

Part 17 42

Annex XX Sex and Gender Examples 42

XX.1 Pet/CT Use Case 42

XX.1.1 Note to Balloters 42

XX.1.2 Use Case Description: 43

XX.1.2.1 Actors: 43

XX.1.2.1.1 People 43

XX.1.2.1.2 Systems, (using IHE Actor names) 43

XX.1.2.2 Scope Statement: 43

XX.1.2.3 Precondition(s): 43

XX.1.2.4 Postcondition(s): 44

XX.1.2.5 Workflow/Storyboard: 44

XX.1.2.6 Arrival and check-in: 44

XX.1.2.7 Patient Preparation 45

XX.1.2.8 Examination 45

XX.1.2.9 Analysis 45

XX.1.2.10 Reporting 46

XX.1.2.11 Examples 46

XX.1.2.11.1 Example 01: Imaging Order 46

XX.1.2.11.2 Example 02: Patient Name Update 48

XX.1.2.11.6 Example 03: FHIR Mapping 50

XX.1.2.11.7 Example 04: Imaging Report 52

XX.1.2.11.8 Example 05: CDA Release 2 Imaging Report 53

XX.2 Find Relevant Priors 72

# Document History

|  |  |  |  |
| --- | --- | --- | --- |
| 2019/02/21 | Version 3 | DAC | Updated to reflect conventions in DocBook publishing |
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|  |  |  |  |

# Open Issues

|  |  |
| --- | --- |
| 1. | Is more substantive content needed? |
|  |  |
|  |  |

# Closed Issues

|  |  |
| --- | --- |
| 1. | List styles have been removed since no longer used. |
|  |  |
|  |  |

# Scope and Field

Further explanatory information can be found in the article “*Gender harmony: improved standards to support affirmative care of gender-marginalized people through inclusive gender and sex representation*” in Journal of the American Medical Informatics Association (JAMIA) (<https://doi.org/10.1093/jamia/ocab196>).

# Part 3 PP

### 

Update Part 3, Table C.2-3. Patient Demographic Module Attributes

### C.2.3 Patient Demographic Module

Table C.2-3 defines the Attributes relevant to generally describing a Patient at a specific point in time, e.g., at the time of admission.

Table C.2-3. Patient Demographic Module Attributes

|  |  |  |
| --- | --- | --- |
| Attribute Name | Tag | Attribute Description |
| Patient's Sex | (0010,0040) | Sex of the named Patient.  Enumerated Values:  **M** male  **F** female  **O** other  **See section C.7.2.2.1.x2** |
| **Gender Identity Sequence** | **(0010,xxxx)** | **Patient Gender Identities that apply to this patient.**  **One or more items are permitted in this Sequence.** |
| **>Gender Code Sequence** | **(0010,xxx4)** | **A specific gender code.**  **See also section C.7.2.2.1.x**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID CIDxxx1 Person Gender** |
| **>Start DateTime** | **(0010,xxx6)** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Gender Comment** | **(0010,xxx8)** | **Description of gender identity** |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **Sex for Clinical Use that apply to this patient.**  **See also section C.7.2.2.1.x2**  **One or more items are permitted in this Sequence.** |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **A specific sex for clinical use**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID CIDxxx2 Sex for Clinical Use** |
| **>Start DateTime** | **(0010,xxx6)** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>SFCU Comment** | **(0010,xxx1)** | **Further description of clinical implications and reasons for the selected code.** |
| **>SFCU Reference** | **(0010,xx10)** | **URI reference that explains, extends, or justifies the SFCU** |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **Names to be used or that have been used when talking with or discussing this person.**  **One or more items are permitted in this Sequence.** |
| **>Name to use** | **(0010,xx12)** | **A name to be used when talking with or discussing this person.**  **This need not be an official name nor comply with any particular name structure.** |
| **>Start DateTime** | **(0010,xxx6)** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Name to Use Comment** | **(0010,xx13)** | **Further explanation of proper name usage** |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **Sex determined at birth or during infancy.**  **Only a single item is permitted in this Sequence.** |
| **>*Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID CIDxxx2 Sex for Clinical Use** |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **Sex or Gender records that apply to this patient.**  **One or more items are permitted in this Sequence.** |
| **>Recorded Value** | **(0010,xx15)** | **A recorded value for this patient.** |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **The international equivalent code for this value.**  **Only a single item is permitted in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID CIDxxx3 International Equivalent Sexes** |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **The kind of sex or gender for this value. E.g., “sex assigned at birth.”**  **Only a single item is permitted in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID (match HL7 value set for Identity type value)** |
| **>Acquisition Datetime** | **(0010,xx17)** | **The datetime when this record was acquired.** |
| **>Start DateTime** | **(0010,xxx6)** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Jurisdiction** | **(0010,xx18)** | **The jurisdiction or organization that issued this record.** |
| **>Source Field Name** | **(0010,xx19)** | **The name of the field on the document record.** |
| **>Source Field Definition** | **(0010,xx20)** | **The jurisdiction or issuing organization’s definition of this field.** |
| **>Source Document Reference** | **(0010,xx26)** | **A reference to the specific document or record.** |
| **Third person pronoun Sequence** | **(0010,xx21)** | **Pronoun(s) to be used for this person**  **One or more items are permitted in this sequence.** |
| **>Pronoun Code sequence** | **(0010,xx22)** | **Pronoun**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID CIDxxx4 Third Person Pronouns.** |
| **>Start DateTime** | **(0010,xxx6)** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Pronoun Comment** | **(0010,xx23)** | **Further explanation of pronoun usage** |

Update Part 3, Table C.4-13. Performed Procedure Step Relationship Module Attributes

### C.4.13 Performed Procedure Step Relationship

Table C.4-13 specifies the Attributes used to reference other SOP Classes and other Information Entities of the DICOM real-world model as defined in Section 7.3.1.6.

Table C.4-13. Performed Procedure Step Relationship Module Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Tag** | **Attribute Description** |
| Patient's Sex | (0010,0040) | Sex of the named Patient.  Enumerated Values:  **M** male  **F** female  **O** other  **See section C.7.2.2.1.x2** |
| **Gender Identity Sequence** | **(0010,xxxx)** | **Patient Gender Identities that apply to this patient.**  **One or more items are permitted in this Sequence.** |
| **>Gender Code Sequence** | **(0010,xxx4)** | **A specific gender code.**  **See also section C.7.2.2.1.x**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID CIDxxx1 Person Gender** |
| **>Start DateTime** | **(0010,xxx6)** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Gender Comment** | **(0010,xxx8)** | **Description of gender identity** |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **Sex for Clinical Use that apply to this patient.**  **See also section C.7.2.2.1.x2**  **One or more items are permitted in this Sequence.** |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **A specific sex for clinical use**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID CIDxxx2 Sex for Clinical Use** |
| **>Start DateTime** | **(0010,xxx6)** | **Valid after this time. If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **Valid before this time. If missing, it is valid for all times after the Stop DateTime (0010,xxx6)** |
| **>SFCU Comment** | **(0010,xxx1)** | **Further description of clinical implications and reasons for the selected code.** |
| **>SFCU Reference** | **(0010,xx10)** | **URI reference that explains, extends, or justifies the SFCU** |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **Names to be used or that have been used when talking with or discussing this person.**  **One or more items are permitted in this Sequence.** |
| **>Name to use** | **(0010,xx12)** | **A name to be used when talking with or discussing this person.**  **This need not be an official name nor comply with any particular name structure.** |
| **>Start DateTime** | **(0010,xxx6)** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Name to Use Comment** | **(0010,xx13)** | **Further explanation of proper name usage** |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **Code sequence for Sex determined at birth or during infancy.**  **Only a single item is permitted in this Sequence.** |
| **>*Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID CIDxxx2 Sex for Clinical Use** |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **Sex or Gender records that apply to this patient.**  **One or more items are permitted in this Sequence.** |
| **>Recorded Value** | **(0010,xx15)** | **A recorded value for this patient.** |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **The international equivalent code for this value.**  **Only a single item is permitted in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID CIDxxx3 International Equivalent Sexes** |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **The kind of sex or gender for this value. E.g., “sex assigned at birth.”**  **Only a single item is permitted in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID (match HL7 value set for Identity type value)** |
| **>Acquisition Datetime** | **(0010,xx17)** | **The datetime when this record was acquired.** |
| **>Start DateTime** | **(0010,xxx6)** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Jurisdiction** | **(0010,xx18)** | **The jurisdiction or organization that issued this record.** |
| **>Source Field Name** | **(0010,xx19)** | **The name of the field on the document record.** |
| **>Source Field Definition** | **(0010,xx20)** | **The jurisdiction or issuing organization’s definition of this field.** |
| **>Source Document Reference** | **(0010,xx26)** | **A reference to the specific document or record.** |
| **Third person pronoun Sequence** | **(0010,xx21)** | **Pronoun(s) to be used for this person**  **One or more items are permitted in this sequence.** |
| **>Pronoun Code sequence** | **(0010,xx22)** | **A Pronoun to be used.**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | **DCID CIDxxx4 Third Person Pronouns.** |
| **>Start DateTime** | **(0010,xxx6)** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Pronoun Comment** | **(0010,xx23)** | **Further explanation of pronoun usage** |

Update Part 3, Table C.7-1 Patient Module Attributes

### C.7.1 Common Patient IE Modules

#### C.7.1.1 Patient Module

Table C.7-1 specifies the Attributes of the Patient that describe and identify the Patient who is the subject of a Study. This Module contains Attributes of the Patient that are needed for interpretation of the Composite Instances and are common for all Studies performed on the Patient. It contains Attributes that are also included in the Patient Modules in Section C.2.

Table C.7-1. Patient Module Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Tag | Type | Attribute Description |
| Patient's Sex | (0010,0040) | 2 | Sex of the named Patient.  Enumerated Values:  **M** male  **F** female  **O** other  **See also section C.7.2.2.1.x2** |

Update Part 3, Table C.7-4a Patient Study Module Attributes – add attributes

#### C.7.2.2 Patient Study Module

Table C.7-4a defines Attributes that provide information about the Patient at the time the Study started.

Note In the case of imaging a group of small animals simultaneously, the Attributes in this Module can only have values that apply to the entire group

Discuss: Patient’s Sex is at Patient Level despite its variability study to study. Should any of these new attributes use that same approach? This has implications for C-FIND in particular.

Discuss: Do we define the mapping for all of the Logical Model even though some parts are unlikely to be useful except in very special circumstances?

Table C.7-4a. Patient Study Module Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Tag | Type | Attribute Description |
| … |  |  |  |
| **Gender Identity Sequence** | **(0010,xxxx)** | **3** | **Patient Gender Identities that apply to this patient.**  **One or more items are permitted in this Sequence.** |
| **>Gender Code Sequence** | **(0010,xxx4)** | **1** | **A specific gender code.**  **See also section C.7.2.2.1.x**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID CIDxxx1 Person Gender** |
| **>Start DateTime** | **(0010,xxx6)** | **3** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **3** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Gender Comment** | **(0010,xxx8)** | **3** | **Description of gender identity** |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **3** | **Observations related to Sex for Clinical Use that apply to this patient.**  **See section C.7.2.2.1.x2**  **One or more items are permitted in this Sequence.** |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **1** | **A specific SFCU observation code for clinical use**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID CIDxxx2 Sex for Clinical Use** |
| **>Start DateTime** | **(0010,xxx6)** | **3** | **This observation applies after this date time.**  **If missing valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **3** | **This observation applies before this date time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>SFCU Comment** | **(0010,xxx1)** | **3** | **Further description of clinical implications and reasons for the selected code.** |
| **>SFCU Reference** | **(0010,xx10)** | **3** | **URI reference that explains, extends, or justifies the SFCU observation.** |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **3** | **Names to be used or that have been used when talking with or discussing this person.**  **One or more items are permitted in this Sequence.** |
| **>Name to use** | **(0010,xx12)** | **1** | **A name to be used when talking with or discussing this person.**  **This need not be an official name nor comply with any particular name structure.** |
| **>Start DateTime** | **(0010,xxx6)** | **3** | **Valid after this time. If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **3** | **Valid before this time. If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Name to Use Comment** | **(0010,xx13)** | **3** | **Further explanation of appropriate name usage** |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **3** | **Sex determined at birth or during infancy.**  **Only a single item is permitted in this Sequence.** |
| **>*Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID CIDxxx2 Sex for Clinical Use** |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **3** | **Sex or Gender records that apply to this patient.**  **See section C.7.2.2.1.b.**  **One or more items are permitted in this Sequence.** |
| **>Recorded Value** | **(0010,xx15)** | **1** | **A recorded value for this patient.** |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **3** | **The international equivalent code for this value.**  **Only a single item is permitted in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID CIDxxx3 International Equivalent Sexes** |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **3** | **The kind of sex or gender for this value. E.g., “sex assigned at birth.”**  **Only a single item is permitted in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID (match HL7 value set for Identity type value)** |
| **>Acquisition Datetime** | **(0010,xx17)** | **3** | **The datetime when this record was acquired.** |
| **>Start DateTime** | **(0010,xxx6)** | **3** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **3** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Jurisdiction** | **(0010,xx18)** | **3** | **The jurisdiction or organization that issued this record.** |
| **>Source Field Name** | **(0010,xx19)** | **3** | **The name of the field on the document record.** |
| **>Source Field Definition** | **(0010,xx20)** | **3** | **The jurisdiction or issuing organization’s definition of this field.** |
| **>Source Document Reference** | **(0010,xx26)** | **3** | **A reference to the specific document or record.** |
| **Third person pronoun Sequence** | **(0010,xx21)** | **3** | **Pronoun(s) to be used for this person**  **One or more items are permitted in this sequence.** |
| **>Pronoun Code sequence** | **(0010,xx22)** | **1** | **Pronoun**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID CIDxxx4 Third Person Pronouns.** |
| **>Start DateTime** | **(0010,xxx6)** | **3** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **3** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Pronoun Comment** | **(0010,xx23)** | **3** | **Further explanation of pronoun usage** |

Add sections to C.7.2.2 Patient Study Module

###### C.7.2.2.1.x1 Patient's Gender and Sex Attributes

The Gender and Sex Attributes are concrete instantiations of the HL7 Gender Harmony logical model (<http://www.hl7.org/implement/standards/product_brief.cfm?product_id=564>. These are expected to support social interactions between patient, staff, care givers, family, and others.

**TODO, switch to stable references here and section 2 when the ballot is approved by HL7.**

###### C.7.2.2.1.x2 Sex for Clinical Use Sequence

Sex for Clinical Use Sequence (0010,xxx2) provides codes for observations that are related to a clinically relevant biological distinction between male and female. They can be used for purposes such as algorithm selection, normal limits, etc. Multiple codes are possible. It is possible that for some purposes the patient should be treated as part of a male population, in others as part of a female population, and in others with patient specific or unknown characteristics.

Note: Patient's Sex (0010,0040) reflects the sex assignment policies of the local administration. It is related to the Sex for Clinical Use Sequence (0010,xxx2) and might be used as a substitute when the Sex for Clinical Use Sequence (0010,xxx2) is not present

Sex for Clinical Use Sequence (0010,xxx2) is intended for use such as computing dose and diagnostic parameters. For example, the formula for SUVlbm depends upon the patient’s phenotypic sex, see PS3.16, CID 85 notes. Most of these are empirical results such as nomographs, formulae, and phenotypical values from referenced publications.

Each individual sequence item shall have an SFCU code (0010,xxx9).

Each individual sequence item may have a Validity Period Sequence (0010,xxx5) specifying the time interval during which this code applies.

Each individual sequence item may have an SFCU Comment (0010,xxx1) to further explain the use of the SFCU code (0010,xxx9).

Each individual sequence item may have one or more SFCU References (0010,xx10) to other observations or reports that further explain the use of the SFCU Code (0010,xxx9).

###### C.7.2.2.1.y Patient's Gender Identity Sequence

The Gender Identity Sequence (0010,xxxx) describes elements of an individual's personal sense of being a man, woman, or something else. Each item describes one gender identity that applies to this person.

Note: 1. Patient's Sex (0010,0040) reflects the sex assignment policies of the local administration. It is related to the Gender Identity Sequence (0010,xxx1) and might be used as a substitute when the Gender Identity Sequence (0010,xxx1) is not present.

2. If the patient (such as a fetus or infant) is unable to express a personal sense of being a man, woman, boy, girl or any point on the gender spectrum, gender identity might be recorded as unknown or might be missing.

###### C.7.2.2.1.a Name to Use

The Name to Use (0010,xx12) is a name to be used when talking with the patient or others about the patient. This name need not be an official name of any sort, nor does it need to comply with any standard naming structure. The name need not match the person’s name for official records purposes. It is the name chosen for social interactions.

Note: This is encoded as a text string rather than a person name (PN) value to avoid confusion about the proper combination of elements. The person name value representation does not provide a mechanism to indicate whether a person wants to be addressed as “John Doe”, “Mr. Doe”, “Sergeant Doe”, or “John” when all of these elements are part of the PN value.

###### C.7.2.2.1.b Recorded Sex and Gender Sequence

The Recorded Sex or Gender Sequence (0010,xx14) provides a catalog of sex or gender information obtained from various documents or sources about this person. Each item may include an International Equivalent Code Sequence (0010,xx24) and an RSG Type Code Sequence (00x0,xx16) to provide equivalence information for records whose encoding or definition might not be known to the recipient.

Note: The Sex at Birth Code Sequence (0010,xx25) provides an alternative to the Recorded Sex and Gender Sequence (0010,xx14) for situations where the sex at birth is the only information provided or of interest. A history of visas, passports, national IDs, and other IDs is of interest for patient identity confirmation and administration but generally not of interest for clinical purposes.

Update Part 3, Table C.30.4-1. Unified Procedure Step Relationship Module Attributes

### C.30.4 Unified Procedure Step Relationship Module

Table C.30.4-1 specifies the Attributes that describe the relationship of a Unified Procedure Step (UPS).

Table C.30.4-1. Unified Procedure Step Relationship Module Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Tag | Type | Attribute Description |
| Patient's Sex | (0010,0040) | 2 | Sex of the named Patient.  Enumerated Values:  **M** male  **F** female  **O other**  **See also section C.7.2.2.1.x1** |
| **Gender Identity Sequence** | **(0010,xxxx)** | **3** | **Patient Gender Identities that apply to this patient.**  **One or more items are permitted in this Sequence.** |
| **>Gender Code Sequence** | **(0010,xxx4)** | **1** | **A specific gender code.**  **See also section C.7.2.2.1.x**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID CIDxxx1 Person Gender** |
| **>Start DateTime** | **(0010,xxx6)** | **3** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **3** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Gender Comment** | **(0010,xxx8)** | **3** | **Description of gender identity** |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **3** | **Sex for Clinical Use that apply to this patient.**  **See also section C.7.2.2.1.x2**  **One or more items are permitted in this Sequence.** |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **1** | **A specific sex for clinical use**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID CIDxxx2 Sex for Clinical Use** |
| **>Start DateTime** | **(0010,xxx6)** | **3** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **3** | **Valid before this time.**  **If missing, it is valid for all times after the Stop DateTime (0010,xxx6)** |
| **>SFCU Comment** | **(0010,xxx1)** | **3** | **Further description of clinical implications and reasons for the selected code.** |
| **>SFCU Reference** | **(0010,xx10)** | **3** | **URI reference that explains, extends, or justifies the SFCU** |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **3** | **Names to be used or that have been used when talking with or discussing this person.**  **One or more items are permitted in this Sequence.** |
| **>Name to use** | **(0010,xx12)** | **1** | **A name to be used when talking with or discussing this person.**  **This need not be an official name nor comply with any particular name structure.** |
| **>Start DateTime** | **(0010,xxx6)** | **3** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **3** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Name to Use Comment** | **(0010,xx13)** | **3** | **Further explanation of proper name usage** |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **3** | **Code sequence for Sex determined at birth or during infancy.**  **Only a single item is permitted in this Sequence.** |
| **>*Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID CIDxxx2 Sex for Clinical Use** |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **3** | **Sex or Gender records that apply to this patient.**  **One or more items are permitted in this Sequence.** |
| **>Recorded Value** | **(0010,xx15)** | **1** | **A recorded value for this patient.** |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **3** | **The international equivalent code for this value.**  **Only a single item is permitted in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID CIDxxx3 International Equivalent Sexes** |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **3** | **The kind of sex or gender for this value. E.g., “sex assigned at birth.”**  **Only a single item is permitted in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID (match HL7 value set for Identity type value)** |
| **>Acquisition Datetime** | **(0010,xx17)** | **3** | **The datetime when this record was acquired.** |
| **>Start DateTime** | **(0010,xxx6)** | **3** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **3** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Jurisdiction** | **(0010,xx18)** | **3** | **The jurisdiction or organization that issued this record.** |
| **>Source Field Name** | **(0010,xx19)** | **3** | **The name of the field on the document record.** |
| **>Source Field Definition** | **(0010,xx20)** | **3** | **The jurisdiction or issuing organization’s definition of this field.** |
| **>Source Document Reference** | **(0010,xx26)** | **3** | **A reference to the specific document or record.** |
| **Third person pronoun Sequence** | **(0010,xx21)** | **3** | **Pronoun(s) to be used for this person**  **One or more items are permitted in this sequence.** |
| **>Pronoun Code sequence** | **(0010,xx22)** | **1** | **Pronoun**  **Only a single item shall be included in this Sequence.** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | | **DCID CIDxxx4 Third Person Pronouns.** |
| **>Start DateTime** | **(0010,xxx6)** | **3** | **Valid after this time.**  **If missing, it is valid for all times before the Stop DateTime (0010,xxx7)** |
| **>Stop DateTime** | **(0010,xxx7)** | **3** | **Valid before this time.**  **If missing, it is valid for all times after the Start DateTime (0010,xxx6)** |
| **>Pronoun Comment** | **(0010,xx23)** | **3** | **Further explanation of pronoun usage** |
| … |  |  |  |

# Part 4

Issue: discuss considerations for patient root query with gender being at study level

### C.6.1 Patient Root SOP Class Group

…

Table C.6-1. Patient Level Attributes for the Patient Root Query/Retrieve Information Model

|  |  |  |
| --- | --- | --- |
| Attribute Name | Tag | Type |
| Patient's Sex | (0010,0040) | O |
| Other Patient IDs Sequence | (0010,1002) | O |

Update Part 4, Table C.6-5

### C.6.2 Study Root SOP Class Group

…

Table C.6-5. Study Level Keys for the Study Root Query/Retrieve Information Model

|  |  |  |
| --- | --- | --- |
| Attribute Name | Tag | Type |
| Patient's Sex | (0010,0040) | O |
| **Gender Identity Sequence** | **(0010,xxxx)** | **O** |
| **>Gender Code Sequence** | **(0010,xxx4)** | **O** |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | |
| **>Start DateTime** | **(0010,xxx6)** | **O** |
| **>Stop DateTime** | **(0010,xxx7)** | **O** |
| **>Gender Comment** | **(0010,xxx8)** | **O** |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **O** |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **O** |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | |
| **>Start DateTime** | **(0010,xxx6)** | **O** |
| **>Stop DateTime** | **(0010,xxx7)** | **O** |
| **>SFCU Comment** | **(0010,xxx1)** | **O** |
| **>SFCU Reference** | **(0010,xx10)** | **O** |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **O** |
| **>Name to use** | **(0010,xx12)** | **O** |
| **>Start DateTime** | **(0010,xxx6)** | **O** |
| **>Stop DateTime** | **(0010,xxx7)** | **O** |
| **>Name to Use Comment** | **(0010,xx13)** | **O** |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **O** |
| ***>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **O** |
| **>Recorded Value** | **(0010,xx15)** | **O** |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **O** |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **O** |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | |
| **>Acquisition Datetime** | **(0010,xx17)** | **O** |
| **>Start DateTime** | **(0010,xxx6)** | **O** |
| **>Stop DateTime** | **(0010,xxx7)** | **O** |
| **>Jurisdiction** | **(0010,xx18)** | **O** |
| **>Source Field Name** | **(0010,xx19)** | **O** |
| **>Source Field Definition** | **(0010,xx20)** | **O** |
| **>Source Document Reference** | **(0010,xx26)** | **O** |
| **Pronoun Code Sequence** | **(0010,xx22)** | **O** |
| **>Pronoun Code sequence** | **(0010,xx22)** | **O** |
| ***>>*** ***Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | |
| **>Start DateTime** | **(0010,xxx6)** | **O** |
| **>Stop DateTime** | **(0010,xxx7)** | **O** |
| **>Pronoun Comment** | **(0010,xx23)** | **O** |
| Other Patient IDs Sequence | (0010,1002) | O |

Update Part 4, Table F.7.2-1

### F.7.2 Operations

…

##### F.7.2.1.1 Modality Performed Procedure Step Subset Specification

Table F.7.2-1. Modality Performed Procedure Step SOP Class N-CREATE, N-SET and Final State Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute Name** | **Tag** | **Req. Type N-Create (SCU/SCP)** | **Req. Type N-SET (SCU/SCP)** | **Requirement Type Final State (see Note 1)** |
| … |  |  |  |  |
| Patient’s Sex | (0010,0040) | 2/2 | Not Allowed |  |
| **Gender Identity Sequence** | **(0010,xxxx)** | **3/3** | **Not Allowed** |  |
| **>Gender Code Sequence** | **(0010,xxx4)** | **3/3** | **Not Allowed** |  |
| ***>>Include Table F.7.2-1a. Modality Performed Procedure Step Enhanced Code Value Macro with no N-SET*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** | **Not Allowed** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** | **Not Allowed** |  |
| **>Gender Comment** | **(0010,xxx8)** | **3/3** | **Not Allowed** |  |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **3/3** | **Not Allowed** |  |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **3/3** | **Not Allowed** |  |
| ***>>Include Table F.7.2-1a. Modality Performed Procedure Step Enhanced Code Value Macro with no N-SET*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** | **Not Allowed** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** | **Not Allowed** |  |
| **>SFCU Comment** | **(0010,xxx1)** | **3/3** | **Not Allowed** |  |
| **>SFCU Reference** | **(0010,xx10)** | **3/3** | **Not Allowed** |  |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **3/3** | **Not Allowed** |  |
| **>Name to use** | **(0010,xx12)** | **3/3** | **Not Allowed** |  |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** | **Not Allowed** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** | **Not Allowed** |  |
| **>Name to Use Comment** | **(0010,xx13)** | **3/3** | **Not Allowed** |  |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **3/3** | **Not Allowed** |  |
| ***>>Include Table F.7.2-1a. Modality Performed Procedure Step Enhanced Code Value Macro with no N-SET*** | | | | |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **3/3** | **Not Allowed** |  |
| **>Recorded Value** | **(0010,xx15)** | **3/3** | **Not Allowed** |  |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **3/3** | **Not Allowed** |  |
| ***>>Include Table F.7.2-1a. Modality Performed Procedure Step Enhanced Code Value Macro with no N-SET Macro with Optional Keys”*** | | | | |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **3/3** | **Not Allowed** |  |
| ***>>Include Table F.7.2-1a. Modality Performed Procedure Step Enhanced Code Value Macro with no N-SET*** | | | | |
| **>Acquisition Datetime** | **(0010,xx17)** | **3/3** | **Not Allowed** |  |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** | **Not Allowed** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** | **Not Allowed** |  |
| **>Jurisdiction** | **(0010,xx18)** | **3/3** | **Not Allowed** |  |
| **>Source Field Name** | **(0010,xx19)** | **3/3** | **Not Allowed** |  |
| **>Source Field Definition** | **(0010,xx20)** | **3/3** | **Not Allowed** |  |
| **>Source Document Reference** | **(0010,xx26)** | **3/3** | **Not Allowed** |  |
| **Pronoun Code Sequence** | **(0010,xx22)** | **3/3** | **Not Allowed** |  |
| **>Pronoun Code sequence** | **(0010,xx22)** | **3/3** | **Not Allowed** |  |
| ***>>*** ***Include Table F.7.2-1a. Modality Performed Procedure Step Enhanced Code Value Macro with no N-SET*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** | **Not Allowed** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** | **Not Allowed** |  |
| **>Pronoun Comment** | **(0010,xx23)** | **3/3** | **Not Allowed** |  |
| Referenced Patient Sequence | (0008,1120) | 2/2 | Not Allowed |  |

Update Part 4, Table F.8.2-1 Modality Performed Procedure Step Retrieve SOP Class N-GET Attributes

### F.8.2 Operations

Table F.8.2-1. Modality Performed Procedure Step Retrieve SOP Class N-GET Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Tag** | **Req. Type (SCU/SCP)** |
| … |  |  |
| Patient’s Sex | (0010,0040) | 3/2 |
| **Gender Identity Sequence** | **(0010,xxxx)** | **3/3** |
| **>Gender Code Sequence** | **(0010,xxx4)** | **3/3** |
| ***>>Include Table 8-2a. “Enhanced Coded Entry Macro with Optional Matching Key Support and Optional Meaning”*** | | |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** |
| **>Gender Comment** | **(0010,xxx8)** | **3/3** |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **3/3** |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **3/3** |
| ***>>Include Table 8-2a. “Enhanced Coded Entry Macro with Optional Matching Key Support and Optional Meaning”*** | | |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** |
| **>SFCU Comment** | **(0010,xxx1)** | **3/3** |
| **>SFCU Reference** | **(0010,xx10)** | **3/3** |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **3/3** |
| **>Name to use** | **(0010,xx12)** | **3/3** |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** |
| **>Name to Use Comment** | **(0010,xx13)** | **3/3** |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **3/3** |
| **>*Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **3/3** |
| **>Recorded Value** | **(0010,xx15)** | **3/3** |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **3/3** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **3/3** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | |
| **>Acquisition Datetime** | **(0010,xx17)** | **3/3** |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** |
| **>Jurisdiction** | **(0010,xx18)** | **3/3** |
| **>Source Field Name** | **(0010,xx19)** | **3/3** |
| **>Source Field Definition** | **(0010,xx20)** | **3/3** |
| **>Source Document Reference** | **(0010,xx26)** | **3/3** |
| **Pronoun Code Sequence** | **(0010,xx22)** | **3/3** |
| **>Pronoun Code sequence** | **(0010,xx22)** | **3/3** |
| ***>>Include Table 8.8-1 “Code Sequence Macro Attributes”*** | | |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** |
| **>Pronoun Comment** | **(0010,xx23)** | **3/3** |
| **…** |  |  |

Update Part 4, Table K.6-1. Attributes for the Modality Worklist Information Model

### K.6.1 Modality Worklist SOP Class

Table K.6-1. Attributes for the Modality Worklist Information Model

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description / Module** | **Tag** | **Matching Key Type** | **Return Key Type** | **Remark/Matching Type** |
| … |  |  |  |  |
| Patient’s Sex | (0010,0040) | O | 2 |  |
| **Gender Identity Sequence** | **(0010,xxxx)** | **O** | **2** |  |
| **>Gender Code Sequence** | **(0010,xxx4)** | **O** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **O** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **O** | **2** |  |
| **>Gender Comment** | **(0010,xxx8)** | **O** | **2** |  |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **O** | **2** |  |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **O** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **O** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **O** | **2** |  |
| **>SFCU Comment** | **(0010,xxx1)** | **O** | **2** |  |
| **>SFCU Reference** | **(0010,xx10)** | **O** | **2** |  |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **O** | **2** |  |
| **>Name to use** | **(0010,xx12)** | **O** | **2** |  |
| **>Start DateTime** | **(0010,xxx6)** | **O** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **O** | **2** |  |
| **>Name to Use Comment** | **(0010,xx13)** | **O** | **2** |  |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **O** | **2** |  |
| ***>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **O** | **2** |  |
| **>Recorded Value** | **(0010,xx15)** | **O** | **2** |  |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **O** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **O** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Acquisition Datetime** | **(0010,xx17)** | **O** | **2** |  |
| **>Start DateTime** | **(0010,xxx6)** | **O** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **O** | **2** |  |
| **>Jurisdiction** | **(0010,xx18)** | **O** | **2** |  |
| **>Source Field Name** | **(0010,xx19)** | **O** | **2** |  |
| **>Source Field Definition** | **(0010,xx20)** | **O** | **2** |  |
| **>Source Document Reference** | **(0010,xx26)** | **O** | **2** |  |
| **Pronoun Code Sequence** | **(0010,xx22)** | **O** | **2** |  |
| **>Pronoun Code sequence** | **(0010,xx22)** | **O** | **2** |  |
| ***>>*** ***Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **O** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **O** | **2** |  |
| **>Pronoun Comment** | **(0010,xx23)** | **O** | **2** |  |
| **…** |  |  |  |  |

Update Part 4, Table Q.4-1. Attributes for the Relevant Patient Information Model

### Q.4.3 Relevant Patient Information Model SOP Classes

…

Table Q.4-1. Attributes for the Relevant Patient Information Model

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description / Module** | **Tag** | **Matching Key Type** | **Return Key Type** | **Remark/Matching Type** |
| … |  |  |  |  |
| Patient’s Sex | (0010,0040) | - | 2 |  |
| **Gender Identity Sequence** | **(0010,xxxx)** | **O** | **2** |  |
| **>Gender Code Sequence** | **(0010,xxx4)** | **O** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **O** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **O** | **2** |  |
| **>Gender Comment** | **(0010,xxx8)** | **O** | **2** |  |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **O** | **2** |  |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **O** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **O** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **O** | **2** |  |
| **>SFCU Comment** | **(0010,xxx1)** | **O** | **2** |  |
| **>SFCU Reference** | **(0010,xx10)** | **O** | **2** |  |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **O** | **2** |  |
| **>Name to use** | **(0010,xx12)** | **O** | **2** |  |
| **>Start DateTime** | **(0010,xxx6)** | **O** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **O** | **2** |  |
| **>Name to Use Comment** | **(0010,xx13)** | **O** | **2** |  |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **O** | **2** |  |
| ***>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **O** | **2** |  |
| **>Recorded Value** | **(0010,xx15)** | **O** | **2** |  |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **O** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **O** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Acquisition Datetime** | **(0010,xx17)** | **O** | **2** |  |
| **>Start DateTime** | **(0010,xxx6)** | **O** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **O** | **2** |  |
| **>Jurisdiction** | **(0010,xx18)** | **O** | **2** |  |
| **>Source Field Name** | **(0010,xx19)** | **O** | **2** |  |
| **>Source Field Definition** | **(0010,xx20)** | **O** | **2** |  |
| **>Source Document Reference** | **(0010,xx26)** | **O** | **2** |  |
| **Pronoun Code Sequence** | **(0010,xx22)** | **O** | **2** |  |
| **>Pronoun Code sequence** | **(0010,xx22)** | **O** | **2** |  |
| ***>>*** ***Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **O** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **O** | **2** |  |
| **>Pronoun Comment** | **(0010,xx23)** | **O** | **2** |  |
| **…** |  |  |  |  |

Update Part 4, Table V.6-2. Attributes for the Substance Approval Query Information Model

### V.6.2 Substance Approval Query SOP Class

…

Table V.6-2. Attributes for the Substance Approval Query Information Model

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description / Module** | **Tag** | **Matching Key Type** | **Return Key Type** | **Remark/Matching Type** |
| Patient’s Sex | (0010,0040) | - | 2 |  |
| **Gender Identity Sequence** | **(0010,xxxx)** | **-** | **2** |  |
| **>Gender Code Sequence** | **(0010,xxx4)** | **-** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **-** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **-** | **2** |  |
| **>Gender Comment** | **(0010,xxx8)** | **-** | **2** |  |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **-** | **2** |  |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **-** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **-** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **-** | **2** |  |
| **>SFCU Comment** | **(0010,xxx1)** | **-** | **2** |  |
| **>SFCU Reference** | **(0010,xx10)** | **-** | **2** |  |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **-** | **2** |  |
| **>Name to use** | **(0010,xx12)** | **-** | **2** |  |
| **>Start DateTime** | **(0010,xxx6)** | **-** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **-** | **2** |  |
| **>Name to Use Comment** | **(0010,xx13)** | **-** | **2** |  |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **-** | **2** |  |
| ***>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **-** | **2** |  |
| **>Recorded Value** | **(0010,xx15)** | **-** | **2** |  |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **-** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **-** | **2** |  |
| ***>>Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Acquisition Datetime** | **(0010,xx17)** | **-** | **2** |  |
| **>Start DateTime** | **(0010,xxx6)** | **-** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **-** | **2** |  |
| **>Jurisdiction** | **(0010,xx18)** | **-** | **2** |  |
| **>Source Field Name** | **(0010,xx19)** | **-** | **2** |  |
| **>Source Field Definition** | **(0010,xx20)** | **-** | **2** |  |
| **>Source Document Reference** | **(0010,xx26)** | **-** | **2** |  |
| **Pronoun Code Sequence** | **(0010,xx22)** | **-** | **2** |  |
| **>Pronoun Code sequence** | **(0010,xx22)** | **-** | **2** |  |
| ***>>*** ***Include Table C.6-2a “Enhanced Code Value Keys Macro with Optional Keys”*** | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **-** | **2** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **-** | **2** |  |
| **>Pronoun Comment** | **(0010,xx23)** | **-** | **2** |  |
| **…** |  |  |  |  |

Update Table CC.2.5-3. UPS SOP Class N-CREATE/N-SET/N-GET/C-FIND Attributes

### CC.2.5 Create a Unified Procedure Step (N-CREATE)

…

Table CC.2.5-3. UPS SOP Class N-CREATE/N-SET/N-GET/C-FIND Attributes

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Tag** | **Req. Type N-CREATE (SCU/SCP)** | **Req. Type N-SET (SCU/SCP)** | **Final State** | **Req. Type N-GET (SCU/SCP)** | **Match Key Type** | **Return Key Type** | **Remark/Matching Type** |
| … |  |  |  |  |  |  |  |  |
| Patient’s Sex | (0010,0040) | 2/2 | Not Allowed | O | 3/2 | R | 2 |  |
| **Gender Identity Sequence** | **(0010,xxxx)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Gender Code Sequence** | **(0010,xxx4)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| ***>>Include CC.2.5-2a. “UPS Code Sequence Macro”*** | | | | | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Gender Comment** | **(0010,xxx8)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>SFCU Code Sequence** | **(0010,xxx9)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| ***>>Include CC.2.5-2a. “UPS Code Sequence Macro”*** | | | | | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>SFCU Comment** | **(0010,xxx1)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>SFCU Reference** | **(0010,xx10)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **Person Names to Use Sequence** | **(0010,xxx3)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Name to use** | **(0010,xx12)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Name to Use Comment** | **(0010,xx13)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Include CC.2.5-2a. “UPS Code Sequence Macro”** | | | | | | | | |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Recorded Value** | **(0010,xx15)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>International Equivalent Code Sequence** | **(0010,xx24)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| ***>Include CC.2.5-2a. “UPS Code Sequence Macro”*** | | | | | | | | |
| **>RSG Type Code Sequence** | **(0010,xx16)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| ***>Include CC.2.5-2a. “UPS Code Sequence Macro”*** | | | | | | | | |
| **>Acquisition Datetime** | **(0010,xx17)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Jurisdiction** | **(0010,xx18)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Source Field Name** | **(0010,xx19)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Source Field Definition** | **(0010,xx20)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Source Document Reference** | **(0010,xx26)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **Pronoun Code Sequence** | **(0010,xx22)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Pronoun Code sequence** | **(0010,xx22)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| ***>>Include CC.2.5-2a. “UPS Code Sequence Macro”*** | | | | | | | | |
| **>Start DateTime** | **(0010,xxx6)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Stop DateTime** | **(0010,xxx7)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |
| **>Pronoun Comment** | **(0010,xx23)** | **3/3** | **Not Allowed** | **O** | **3/3** | **-** | **3** |  |

# Part 6

Update Part 6, Table 6-1. Registry of DICOM Data Elements

Table 6-1. Registry of DICOM Data Elements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tag | Name | Keyword | VR | VM |
| (0010,xxxx) | Gender Identity Sequence |  | SQ | 1 |
| (0010,xxx1) | SFCU Comment |  | LT | 1..n |
| (0010,xxx2) | Sex for Clinical Use Sequence |  | SQ | 1 |
| (0010,xxx3) | Patient Name to Use Sequence |  | SQ | 1 |
| (0010,xxx4) | Gender Code Sequence |  | SQ | 1 |
| (0010,xxx6) | Start Time |  | DT | 1 |
| (0010,xxx7) | Stop Time |  | DT | 1 |
| (0010,xxx8) | Gender Comment |  | LT | 1..n |
| (0010,xxx9) | SFCU Code Sequence |  | SQ | 1 |
| (0010,xx10) | SFCU Reference |  | URI | 1..n |
| (0010,xx11) | Patient Name to Use |  | LT | 1 |
| (0010,xx13) | Name to Use Comment |  | LT | 1..n |
| (0010,xx14) | Recorded Sex or Gender Sequence |  | SQ | 1 |
| (0010,xx15) | Recorded Value Code Sequence |  | SQ | 1 |
| (0010,xx16) | Identity Type Code Sequence |  | SQ | 1 |
| (0010,xx17) | Acquisition Datetime |  | DT | 1 |
| (0010,xx18) | Jurisdiction |  | LT | 1 |
| (0010,xx19) | Source Field Name |  | LT | 1 |
| (0010,xx20) | Source Field Definition |  | LT? URI? | 1 |
| (0010,xx21) | Third Person Pronouns Sequence |  | SQ | 1 |
| (0010,xx22) | Pronoun Code Sequence |  | SQ | 1 |
| (0010,xx23) | Pronoun Comment |  | LT | 1..n |
| (0010,xx24) | International Equivalent Code Sequence |  | SQ | 1 |
| (0010,xx25) | Sex at Birth Code Sequence |  | SQ | 1 |
| (0010,xx26) | Source Document Reference |  | URI | 1 |

Update Part 15 Table E.1-1. Application Level Confidentiality Profile Attributes

# Part 15

## E.1 APPLICATION LEVEL CONFIDENTIALITY PROFILES

….

Table E.1-1. Application Level Confidentiality Profile Attributes

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Attribute Name | Tag | Retd. (from [PS3.6](http://dicom.nema.org/medical/dicom/current/output/chtml/part06/PS3.6.html)) | In Std. Comp. IOD (from [PS3.3](http://dicom.nema.org/medical/dicom/current/output/chtml/part03/PS3.3.html)) | Basic Prof. | Rtn. Safe Priv. Opt. | Rtn. UIDs Opt. | Rtn. Dev. Id. Opt. | Rtn. Inst. Id. Opt | Rtn. Pat. Chars. Opt. | Rtn. Long. Full Dates Opt. | Rtn. Long. Modif. Dates Opt. | Clean Desc. Opt. | Clean Struct. Cont. Opt. | Clean Graph. Opt. |
| Patient’s Sex | (0010,0040) | N | Y | Z |  |  |  |  | K |  |  |  |  |  |
| **Gender Identity Sequence** | **(0010,xxxx)** | **N** | **Y** | **X** |  |  |  |  | **K** |  |  |  |  |  |
| **Sex for Clinical Use Sequence** | **(0010,xxx2)** | **N** | **Y** | **X** |  |  |  |  | **K** |  |  |  |  |  |
| **Person Names to Use Sequence** | **(0010,xx12)** | **N** | **Y** | **X** |  |  |  |  | **K** |  |  |  |  |  |
| **Sex at Birth Code Sequence** | **(0010,xx25)** | **N** | **Y** | **X** |  |  |  |  | **K** |  |  |  |  |  |
| **Recorded Sex or Gender Sequence** | **(0010,xx14)** | **N** | **Y** | **X** |  |  |  |  | **K** |  |  |  |  |  |
| **Third Person Pronoun Sequence** | **(0010,xx21)** | **N** | **Y** | **X** |  |  |  |  | **K** |  |  |  |  |  |

# Part 16

Add CID’s to PS 3.16

### CIDxxx1 Person Gender

**Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML**

**Type: Extensible**

**Version: 202xmmdd**

**UID: 1.2.840.TBD**

Table CID CIDxxx1. Person Gender

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Coding Scheme Designator | Code Value | Code Meaning |  | UMLS Concept ID |
| SCT | Female | Identifies as female gender | To be promoted May 2022 | 446141000124107 |
| SCT | Male | Identifies as male gender | To be promoted May 2022 | 446151000124109 |
| SCT | Nonbinary | Identifies as nonbinary gender | To be promoted May 2022 | 33791000087105 |
|  |  |  |  |  |

Note: 1. HL7 uses a variety of null flavors to encode various reasons that Person Gender may be missing or not known. ***Issue: Should DICOM try to capture reasons like “refused to answer” as distinct from missing with no reason provided.***

2. The person gender codes will be extended with local, regional, and national extensions. For example, Canada has chosen to add codes for “two spirit” and other gender identities.

### CIDxxx2 Sex for Clinical Use

**Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML**

**Type: Non-Extensible**

**Version: 202xmmdd**

**UID: 1.2.840.TBD**

Table CID CIDxxx2. Sex for Clinical Use

| Coding Scheme Designator | Code Value | Code Meaning | Code Definition (from FHIR) |
| --- | --- | --- | --- |
| FHIR 5.0 in ballot  fhir/StructureDefinition/patient-sexForClinicalUse | female | Female | Available data indicates that diagnostics, analytics, and treatments should consider best practices associated with female reference populations. |
| FHIR 5.0 in ballot  fhir/StructureDefinition/patient-sexForClinicalUse | male | Male | Available data indicates that diagnostics, analytics, and treatments should consider best practices associated with male reference populations. |
| FHIR 5.0 in ballot  fhir/StructureDefinition/patient-sexForClinicalUse | specified | Specified | Available data indicates that diagnostics, analytics, and treatment best practices may be undefined or not aligned with sex-derived reference populations. Additional information (usually, but not always, in the form of comments and/or observations) is available, but it does not align with male sex for clinical use or female sex for clinical use. |
| FHIR 5.0 in ballot  fhir/StructureDefinition/patient-sexForClinicalUse | unknown | Unknown | No information can be provided. |

Note: <https://build.fhir.org/ig/HL7/fhir-gender-harmony/branches/main/ValueSet-sex-for-clinical-use-category-vs.html> for current IG draft

### CIDxxx3 International Equivalent Sexes

**Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML**

**Type: Non-Extensible**

**Version: 202xmmdd**

**UID: 1.2.840.TBD**

Table CID CIDxxx3. International Equivalent Sexes

|  |  |  |
| --- | --- | --- |
| Coding Scheme Designator | Code Value | Code Meaning |
| ICAO 9303 | F | A value which corresponds to female (‘F’) has been recorded in some context. |
| ICAO 9303 | M | A value which corresponds to male (‘M’) has been recorded in some context. |
| ICAO 9303 | X | A value which corresponds to 'X' (any non-M or non-F value) has been recorded or the value is unspecified. |

Note: ICAO: International Civil Aviation Organization, Doc 9303 Machine Readable Travel Documents, Eighth Edition, 2021

### CIDxxx4 Third Person Pronouns

**Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML**

**Type: Extensible**

**Version: 202xmmdd**

**UID: 1.2.840.TBD**

Table CID CIDxxx4. Third Person Pronouns

|  |  |  |
| --- | --- | --- |
| Coding Scheme Designator | Code Value | Code Meaning |
| LOINC | LA29518-0 | He/him/his/his/himself |
| LOINC | LA29519-8 | She/her/her/hers/herself |
| LOINC | LA29520-6 | They/them/their/theirs/themselves |

Add annex with use case and examples to Part 17

# Part 17

# Annex XX Sex and Gender Examples

## XX.1 Pet/CT Use Case

(same case as HL7 Gender Harmony example for DICOM, but with examples of MWL, MPPS, PET image, etc.)

## XX.2 Find Relevant Priors