

Supplement 233

PATIENT MODEL GENDER ENHANCEMENTS

WG-06

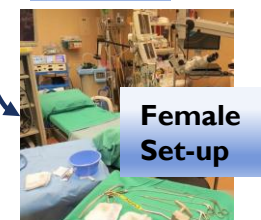
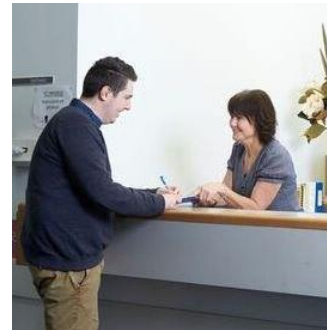
ROBERT HORN

29 AUG 2023

Use Case

F->M transgender patient presents for imaging and admit.
Anatomic Female but undergoing hormone transition.

- Gender Identity = M
- Sex for Imaging Use = F
- Sex for Lab = M or more complicated
- Sex for clinical devices (for OR set-up) = F



Birth Sex, Administrative Sex, Sex, Gender Identity are not consistently used or understood

HL7 Logical Model



- Background
- Current State overview
- Impact on clinical care
- Sex and Gender in:
 - Quality measurement
 - Reporting in Payment for Care
 - Data Analysis
- Model
- Implementation Guidance
- Appendices

HL7_GENDER_R1_INFORM_2021AUG



HL7 Informative Document:
Gender Harmony -
Modeling Sex and Gender Representation,
Release 1

August 2021

Sponsored by:
HL7 Vocabulary Work Group

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GH Element Specifics



Gender Identity (GI)

- Source:
 - Patient *only*
- May change between studies
- Use:
 - Appropriate clinical interactions
- Not intended for clinical assessments or payment functions
- May, or may not, be aligned with the proper value for a clinical, administrative or legal based decision
 - IE: this is not administrative, legal, or clinical

Sex Parameters for Clinical Use (SPCU)

- Source:
 - Clinician
 - Clinical rules system
 - Clinical observations
- May be a Patient level but are often specific to a particular use (order, procedure, etc.) or study
- May change between studies
- Use when patient physiology determines appropriate:
 - Tests, drugs, procedures
 - Reference ranges, methods, algorithms, pathways
 - Analysis and diagnostic methods
 - selecting and describing subjects for clinical trial and other research activities

GH Element Specifics-3



Name to Use (NtU)

- Source:
 - Patient
- May change between studies
- Use:
 - All clinical interactions
 - Establish therapeutic relationship
 - Use in reports, instructions, guidance, etc.
 - If “legal” name needed, send NtU *in addition*

Pronouns

- Source:
 - Patient
- May change between studies
- Use:
 - Where appropriate in clinical interactions
 - Establish therapeutic relationship
 - Use in reports, instructions, guidance, etc.

Proposed HL7 Minimum Value Sets



Gender Identity

Term	Definition
Female	Identifies as female gender. UMLS 446141000124107
Male	Identifies as male gender. UMLS 446151000124109
Nonbinary	Identifies as nonbinary gender. UMLS 33791000087105

- Gender Identity should allow many other phrases but these are the minimum required.
- Expect local extensions. E.g., Canada has a national SNOMED extension for “two spirit”.
- UMLS and SNOMED codes have been established.
- Corresponding DICOM CID xxx1 Person Gender Identity

Sex Parameters for Clinical Use (SPCU)

Term	Definition
Female-typical	Available data indicates that diagnostics, analytics, and treatments should consider best practices associated with female reference populations.
Male-typical	Available data indicates that diagnostics, analytics, and treatments should consider best practices associated with male reference populations.
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 typical male or female parameters, reference ranges, etc.
Unknown	No information can be provided.

- SPCU of “Specified” will often be accompanied by comments and/or URI to provide the specified ranges to used, procedures, to follow, etc. URIs may reference clinical reports, hospital policies, etc.
- Corresponding DICOM CIDxxx2 Sex Parameters for Clinical Use

Proposed HL7 Minimum Value Sets



Pronouns

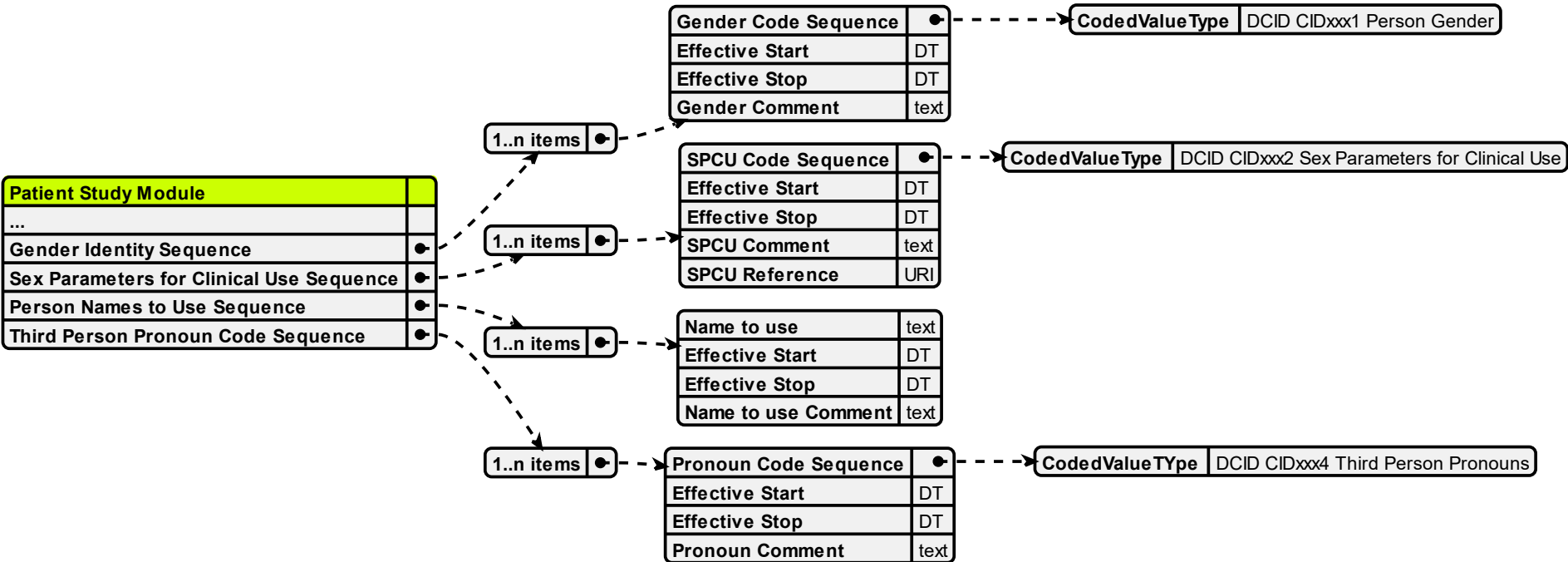
Term	Definition
He, Him, His, Himself	English personal pronouns, typically associated with masculinity, that are requested by a person to be used by them.
She, Her, Hers, Herself	English personal pronouns, typically associated with femininity, that are requested by a person to be used by them.
They, Them, Their, Theirs, Themselves	English personal pronouns, typically not associated with masculinity or femininity, that are requested by a person to be used by them.

- Based on LOINC answer list for [Personal Pronouns - Reported, LL5144-2 Personal pronouns / Answers: 10; Scale: Nom; Code: -; Score: -.](#)
- Corresponding DICOM CIDxxx4 Third Person Pronouns

DICOM Summary



- Add optional attributes to the Patient Study Module and to various normalized services. These optional attributes match those in the HL7 logical model and FHIR.
- Updates and adds some CIDs. New codes are defined by DICOM for SPCU. (WG-06 change and open issue.)
- Clarifies use of Patient's Sex (0010,0040) so that it matches the definition used by HL7v2. Current attribute definition only lists the enumerated values.
- Provides examples of use of the optional attributes, and examples of some of the workflow and implementation considerations. These are accompanied by links to the related portions of HL7 v2, CDA, and FHIR published standards.



Structure of the additions to Patient Study Module

Modules Modified



- The modifications add the same optional sex and gender attributes to the following modules:
 - Patient Demographics Module (Normalized)
 - Performed Procedure Step Relationship (Normalized)
 - Patient Study Module (Composite)
 - Unified Procedure Step Relationship Module (Normalized)
- The definition of Patient's Sex (0010,0040) is updated. The original definition only specified the enumerated codes to be used. It is updated to match HL7 v2 PID-8 updates. (Summary: this attribute is set according to hospital policy.)

Services Modified



- The modified modules result in updates to the following services:
 - Study Root SOP Class Group (C-FIND)
 - Modality Performed Procedure Step
 - Modality Worklist
 - Relevant Patient Information Model
 - Substance Approval Query
 - Unified Procedure Step

Other Modifications



- Application level confidentiality profiles updated
- New and updated CID
 - CID 7455 Sex
 - New CID Person Gender Identity
 - New CID Sex Parameters for Clinical Use (SPCU)
 - New CID Third Person Pronouns
- New DICOM codes for SPCU