

1	Status	Assigned
2	Date of Last Update	2022/03/21
3	Person Assigned	David Clunie
4		mailto:dclunie@dclunie.com
5	Submitter Name	Imaging Data Commons (IDC)
6	Submission Date	2022/02/11
7	Correction Number CP-2215	
8	Log Summary: Measurements and Categorical Statements on Patients, Studies and Series	
9	Name of Standard	
10	PS3.16	
11	Rationale for Correction:	
12	Some AI/ML and other image processing applications as well as human observers make categorical and numerical statements about	
13	patients, studies and series rather than images, frames or ROIs. It is useful to be able to include these in TID 1500 reports.	
14	Update TID 1501 to allow references to patients, studies and series.	
15	Correction Wording:	

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Amend PS3.16 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

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TID 1501 Measurement and Qualitative Evaluation Group

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This Template groups measurements and/or qualitative evaluations into a Measurement Group.

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Each Measurement Group is identified by Tracking ID and UIDs, and may be described as having being made at a particular time point.

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Measurement groups may contain various common measurement modifiers that are shared by all measurements in the group, such as method and finding site.

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Table TID 1501. Measurement and Qualitative Evaluation Group

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	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1		CONTAINS	CONTAINER	EV (125007, DCM, "Measurement Group")	1	M		
...								
10	>	CONTAINS	INCLUDE	D???	1-n	U		\$Measurement = \$Measurement \$Units = \$Units \$ModType = \$ModType \$ModValue = \$ModValue \$Method = \$Method \$Derivation = \$Derivation \$TargetSite = \$TargetSite \$TargetSiteMod = \$TargetSiteMod \$Equation = \$Equation \$ImagePurpose = \$ImagePurpose \$WavePurpose = \$WavePurpose \$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority \$DerivationParameter = \$DerivationParameter \$DerivationParameterUnits = \$DerivationParameterUnits
10b	>	CONTAINS	IMAGE	\$ImagePurpose	1-n	U		
10c	>	CONTAINS	SCOORD	\$ImagePurpose	1-n	U		
10d	>>	SELECTED FROM	IMAGE		1	M		
10e	>	CONTAINS	SCOORD3D	\$ImagePurpose	1-n	U		
10f	>	CONTAINS	WAVEFORM	\$WavePurpose	1-n	U		

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	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
10g	>	CONTAINS	TCOORD	\$WavePurpose	1-n	U		
10h	>>	SELECTED FROM	WAVEFORM		1	M		
11	>	CONTAINS	CODE	\$QualType	1-n	U		\$QualValue
11b	>>	HAS CONCEPT MOD	CODE	\$QualModType	1-n	U		\$QualModValue
12	>	CONTAINS	TEXT	\$QualType	1-n	U		
13	≥	<u>CONTAINS</u>	<u>CODE</u>	<u>EV (ddd001, DCM, "Observation Reference Scope")</u>	<u>1</u>	<u>U</u>		<u>BCID ccc1 "Observation Reference Scope"</u>
14	≥	<u>CONTAINS</u>	<u>UIDREF</u>	<u>EV (110180, DCM, "Study Instance UID")</u>	<u>1-n</u>	<u>C</u>	<u>IFF Row 13 = (113014, DCM, "Study")</u>	
15	≥	<u>CONTAINS</u>	<u>UIDREF</u>	<u>EV (112002, DCM, "Series Instance UID")</u>	<u>1-n</u>	<u>C</u>	<u>IFF Row 13 = (113015, DCM, "Series")</u>	

20 Content Item Descriptions

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...	
<u>Rows 13, 14, 15</u>	<u>Allows the scope of the reference to the source of the observation to be constrained, and if it is to one or more Studies or Series, the identity conveyed. If the scope is the entire Patient, then the current Section TID 1006 Subject Context specifies that Patient; it defaults to the Attributes of the Patient Module.</u>

26 CID ccc1 Observation Reference Scope

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Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML
Type: Non-Extensible
Version: yyyymmdd
UID: 1.2.840.10008.6.1.uuu1

35 Table CID ccc1. Observation Reference Scope

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
DCM	121025	Patient		
DCM	113014	Study		
DCM	113015	Series		
NCIt	C48179	Image		C1704922
NCIt	C85402	Imaging Region of Interest		C0807727

43 D DICOM Controlled Terminology Definitions (Normative)

44 Table D-1. DICOM Controlled Terminology Definitions (Coding Scheme Designator "DCM" Coding
45 Scheme Version "01")

Code Value	Code Meaning	Definition	Notes
112002	Series Instance UID	A unique identifier for a series of DICOM SOP instances.	

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Code Value	Code Meaning	Definition	Notes
110180	Study Instance UID	ParticipantObjectID type: Study Instance UID.	
121025	Patient	A patient is the subject of observations.	
113014	Study	A study is a collection of one or more series of medical images, presentation states, and/or SR documents that are logically related for the purpose of diagnosing a patient. A study may include composite instances that are created by a single modality, multiple modalities or by multiple devices of the same modality. [From Section A.1.2.2 "Study IE" in PS3.3]	
113015	Series	A distinct logical set used to group composite instances. All instances within a Series are of the same modality, in the same Frame of Reference (if any), and created by the same equipment. [See Section A.1.2.3 "Series IE" in PS3.3]	
121024	Subject Class	Type of observation subject.	
ddd001	Observation Reference Scope	<u>The entity that is the specific subject of an observation, such as a measurement or qualitative evaluation. E.g., a region of interest, image, series of images, study or patient.</u> Note <u>This is distinct from the Observation Context Subject Class, which more generally specifies the entire subject, usually the patient.</u>	

PS3.16 for reference unchanged:

TID 1006 Subject Context

This Template contains identifying (and optionally descriptive) attributes of the subject of the observation.

Subject context identifies (and optionally) describes the subject of the observation, whether it be a patient (human or animal), a fetus (human or animal), a specimen, or a device.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 1006. Subject Context

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CODE	EV (121024, DCM, "Subject Class")	1	MC	IF subject is not the Patient	DCID 271 "Observation Subject Class" Defaults to (121025, DCM, "Patient")
2			INCLUDE	DTID 1007 "Subject Context, Patient"	1	UC	IFF Row 1 value = (121025, DCM, "Patient") or Row 1 is absent	May be used for human or animal patients
3			INCLUDE	D???	1	UC	IFF Row 1 value = (121026, DCM, "Fetus")	May be used for human or animal fetuses
4			INCLUDE	D???	1	UC	IFF Row 1 value = (121027, DCM, "Specimen")	
5			INCLUDE	D???	1	UC	IFF Row 1 value = (121192, DCM, "Device Subject")	

TID 1007 Subject Context, Patient

Identifies (and optionally describes) a patient who is the subject.

Type: Extensible
Order: Significant
Root: No

Table TID 1007. Subject Context, Patient

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			UIDREF	EV (121028, DCM, "Subject UID")	1	U		E.g., SOP Instance UID of Detached Patient Instance
2			PNAME	EV (121029, DCM, "Subject Name")	1	MC	Required if not inherited.	Defaults to value of Patient's Name (0010,0010) in Patient Module
3			CODE	EV (121030, DCM, "Subject ID")	1	MC	Required if not inherited.	Defaults to value of Patient ID (0010,0020) in Patient Module
4			DATE	EV (121031, DCM, "Subject Birth Date")	1	U		Defaults to value of Patient's Birth Date (0010,0030) in Patient Module
5			CODE	EV (121032, DCM, "Subject Sex")	1	U		Defaults to value equivalent to Patient's Sex (0010,0040) in Patient Module D???
6			NUM	EV (121033, DCM, "Subject Age")	1	U		Defaults to value of Patient's Age (0010,1010) in Patient Study Module UNITS = D???
7			CODE	EV (121034, DCM, "Subject Species")	1	MC	Required if not inherited.	D??? Defaults to value of Patient Species Code Sequence (0010,2202) in Patient Module, or if absent, (337915000, SCT, "Homo sapiens").
8			CODE	EV (121035, DCM, "Subject Breed")	1	U		Defaults to value of Patient Breed Code Sequence (0010,2293) in Patient Module D???
9			CODE	EV (415229000, SCT, "Racial group")	1	U		Defaults to the coded equivalent of the text value of Ethnic Group (0010,2160) in Patient Module, which is defined as "race or ethnic group" D???

CID 271 Observation Subject Class

Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML
Type: Non-Extensible
Version: 20071102
UID: 1.2.840.10008.6.1.41

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Table CID 271. Observation Subject Class

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Coding Scheme Designator	Code Value	Code Meaning
DCM	121025	Patient
DCM	121026	Fetus
DCM	121027	Specimen
DCM	121192	Device Subject