

DICOM Correction Proposal

Status	Final Text
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Correction Number	CP-1530
Log Summary: Add Purpose Code For RT Plan Positioning	
Name of Standard PS3.3, 3.6, 3.16 2016a	
Rationale for Correction: The proposal adds a new CID to annotate the reference to a specific RT Plan (or RT Ion Plan, or RT Radiation Set) so that it is possible to relate images acquired in the context of a radiotherapy treatment session. Alternatively it would also be possible to add this code to the existing CID 7201. This use case is specified in the IHE Profile TDIC ("Treatment Delivery Image Content") of the Radiation Oncology domain (IHE-RO). Note: cp1559 "Re-use reference mechanism from General Image Module in other context" deals with the referencing approach in a general sense.	
Correction Wording:	

In PS3.16, add the following context group in Appendix B.

CID 7022 Radiotherapy Purposes of Reference
Context ID 7022
Radiotherapy Purposes of Reference
Type: Extensible Version: 20160314

Coding Scheme Designator	Code Value	Code Meaning
DCM	121310	RT treatment plan for the position being verified

In PS3.16, add the following Code in Appendix D DICOM Controlled Terminology Definitions (Normative):

Table D-1. DICOM Controlled Terminology Definitions

Code Value	Code Meaning	Definition	Notes
121310	<u>RT treatment plan for the position being verified</u>	<u>The referenced instance is an RT treatment plan of some type, which contains treatment positioning information, which has been verified using the information in the referencing instance.</u>	<u>The referenced Instance typically will be an RT Plan, RT Ion Plan or RT Radiation Set.</u>

In PS3.3 add the following text.

C.7.6.1 General Image Module

Table C.7-9 specifies the Attributes that identify and describe an image within a particular series.

Table C.7-9. General Image Module Attributes

Attribute Name	Tag	Type	Attribute Description
Referenced Image Sequence	(0008,1140)	3	Other images significantly related to this image (e.g., post-localizer CT image or Mammographic biopsy or partial view images). One or more Items are permitted in this sequence.
>Include Table 10-3 'Image SOP Instance Reference Macro Attributes'			
>Purpose of Reference Code Sequence	(0040,A170)	3	Describes the purpose for which the reference is made. Only a single Item is permitted in this sequence.
>>Include Table 8.8-1 "Code Sequence Macro Attributes"			Defined CID 7201 "Referenced Image Purposes of Reference"
...			
Referenced Instance Sequence	(0008,114A)	3	Non-image composite SOP Instances that are significantly related to this Image, including waveforms that may or may not be temporally synchronized with this image. One or more Items are permitted in this sequence.
>Include Table 10-11 "SOP Instance Reference Macro Attributes"			
>Purpose of Reference Code Sequence	(0040,A170)	1	Code describing the purpose of the reference to the Instance(s). Only a single Item shall be included in this sequence.
>>Include Table 8.8-1 "Code Sequence Macro Attributes"			Defined CID 7004 "Waveform Purposes of Reference" for referenced waveforms. Defined CID 7022 "Radiotherapy Purposes of Reference" for referenced RT Instances.

In PS3.6, add the following context group UID:

**Table A-3
CONTEXT GROUP UID VALUES**

Context UID	Context Identifier	Context Group Name
1.2.840.10008.6.1.1115	7022	Radiotherapy Purposes of Reference