

DICOM Correction Proposal Form

Correction Number CP-328	
Log Summary: Add Related Series Sequence to General Series Module	
Type of Modification Addition	Name of Standard PS 3.3, PS 3.6, PS 3.16 2003
<p>Rationale for Correction</p> <p>In multi-modality acquisitions (e.g., simultaneous CT / PET), there is a need for the objects of each modality to reference the objects of the other modality, so that they can be presented together to a “fusion” display application. Although we could use the Referenced Image Sequence in the General Image Module, that would require listing all the images of the CT series in each PET image, and all the images of the PET series in each CT image. This is not a clean approach - we really need to reference a Series at the Series level of the information model. [In contrast, if the CT and PET objects were multiframe, cross-reference at the Image level would be appropriate.]</p> <p>It is proposed to add a new Related Series Sequence attribute to the General Series Module, including the Purpose of Reference Code Sequence (following the lead of Supplement 49 which included the Purpose of Reference Code Sequence in the Referenced Image Sequence).</p>	
<p>Sections of documents affected</p> <p>PS 3.3 Section C.7.3.1, PS 3.6, PS 3.16 Annexes B and D</p>	
Correction Wording:	

Add attributes to Part 3 Table C.7-4

**Table C.7-4
 GENERAL SERIES MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
...			

<u>Related Series Sequence</u>	<u>(0008,1250)</u>	<u>3</u>	<u>Identification of Series significantly related to this Series. Zero or more Items may be present.</u> <u>Notes:</u> <ol style="list-style-type: none"> <u>1. For example, for a combined CT and PET acquisition, the CT images and PET images would be in separate series that could cross-reference each other with multiple purpose of reference codes meaning same anatomy, simultaneously acquired and same indication.</u> <u>2. The related series may have different Frames of Reference and hence require some sort of registration before spatial coordinates can be directly compared.</u> <u>3. This attribute is not intended for conveying localizer reference information, for which Referenced Image Sequence (0008,1140) should be used.</u>
<u>>Study Instance UID</u>	<u>(0020,000D)</u>	<u>1</u>	<u>Instance UID of Study to which the related Series belongs</u>
<u>> Series Instance UID</u>	<u>(0020,000E)</u>	<u>1</u>	<u>Instance UID of Related Series</u>
<u>> Purpose of Reference Code Sequence</u>	<u>(0040,A170)</u>	<u>2</u>	<u>Describes the purpose for which the reference is made. Zero or more Items may be present.</u> <u>When absent, implies that the reason for the reference is unknown.</u>
<u>>> Include Code Sequence Macro</u>			<u>DCID 7210</u>

Add Data Element to PS 3.6 Section 6

(0008,1250) Related Series Sequence SQ 1

Add new context group to Part 16 Annex B

Context Group 7210 Related Series Purposes Of Reference

Type: Extensible

Version: 20030619

CID 7210

RELATED SERIES PURPOSES OF REFERENCE

Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)
DCM	122400	Simultaneously Acquired
DCM	122401	Same Anatomy
DCM	122402	Same Indication

Add new codes to Part 16 Annex D

DICOM Code Definitions (Coding Scheme Designator "DCM" Coding Scheme Version "01")

Code Value	Code Meaning	Definition
.....		
122400	Simultaneously Acquired	The referenced information was acquired simultaneously with the information in the object in which the reference occurs.
122401	Same Anatomy	Information acquired for the same anatomic region.
122402	Same Indication	Information acquired for the same indication (e.g. to elucidate the same diagnostic question).