

DICOM Correction Item

Correction Number	CP-584
Log Summary: Make evidence sequence mandatory in all SR	
Type of Modification	Name of Standard
Clarification	PS 3.3 2006
<p>Rationale for Correction</p> <p>The Current Requested Procedure Evidence Sequence contains a list of instances with their Study and Series UIDs. This serves two purposes, the first to enumerate the evidence used to generate the report, and the second to provide the hierarchy necessary to retrieve instances referenced in the content tree (where the full hierarchy is not encoded, just the SOP Instance UID).</p> <p>Unfortunately, because of the first use, the attribute is conditional on the report being COMPLETE and generated in response to a request; yet the predominant use of the information by report consumers has turned out to be the second use. But, creators of, for example evidence documents, may send them with a Completion Status of PARTIAL, and by not sending the evidence sequence (even though it may be present otherwise, and they possess the necessary information), the ability of consumers to obtain reference instances is limited or made considerably more complicated.</p> <p>Further, the condition on the Current Requested Procedure Evidence Sequence directly contradicts the later normative text describing its use, which specifically refers to the contents of the sequence always being present.</p> <p>Given this contradiction, is proposed to correct the condition to make the sequence required if instance references are present, using language similar to that present in the Key Object Document Module.</p>	
Sections of documents affected	
PS 3.3 C.17.2	
Correction Wording:	

C.17.2 SR Document General Module

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**Table C.17-2
 SR DOCUMENT GENERAL MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
...
Completion Flag	(0040,A491)	1	<p>The estimated degree of completeness of this SR Document with respect to externally defined criteria in a manner specified in the Conformance Statement.</p> <p>Note: It may be desirable to make these criteria adaptable to local policies or user decisions.</p> <p>Enumerated Values: PARTIAL = Partial content. COMPLETE = Complete content.</p>
...
Current Requested Procedure Evidence Sequence	(0040,A375)	1C	<p>Full set of Composite SOP Instances, of which the creator is aware, that were created to satisfy the current Requested Procedure(s) for which this SR Document is generated or that are referenced in the content tree. One or more Items may be included in this sequence.</p> <p>Required if the creator is aware of Composite Objects were acquired in order to satisfy the Requested Procedure(s) for which the SR Document is generated, and Completion Flag (0040,A491) value is COMPLETE or if instances are referenced in the content tree. May be present otherwise.</p> <p>See C.17.2.3 for further explanation.</p>
<i>>Include 'SOP Instance Reference Macro' Table C.17-3</i>			
Pertinent Other Evidence Sequence	(0040,A385)	1C	<p>Other Composite SOP Instances that are considered to be pertinent evidence by the creator of this SR Document. This evidence must have been acquired in order to satisfy Requested Procedures other than the one(s) for which this SR Document is generated. One or more Items may be included in this sequence.</p> <p>Required if pertinent evidence from other Requested Procedures needs to be recorded.</p> <p>See C.17.2.3 for further explanation.</p>
<i>>Include 'SOP Instance Reference Macro' Table C.17-3</i>			

C.17.2.1 SOP Instance Reference Macro

Table C.17-3 specifies the Attributes that reference a SOP Instance.

**Table C.17-3
 SOP INSTANCE REFERENCE MACRO ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Study Instance UID	(0020,000D)	1	Unique identifier for the Study
Referenced Series Sequence	(0008,1115)	1	Sequence of Repeating Items where each Item includes the Attributes of a Series containing referenced Composite Object(s). One or more Items may be included in this sequence
>Series Instance UID	(0020,000E)	1	Unique identifier of a Series that is part of this Study and contains the referenced Composite Object(s).
>Retrieve AE Title	(0008,0054)	3	Title of the DICOM Application Entity where the Composite Object(s) may be retrieved on the network.
>Storage Media File-Set ID	(0088,0130)	3	The user or implementation specific human readable identifier that identifies the Storage Media on which the Composite Object (s) reside.
>Storage Media File-Set UID	(0088,0140)	3	Uniquely identifies the Storage Media on which the Composite Object (s) reside.
>Referenced SOP Sequence	(0008,1199)	1	References to Composite Object SOP Class/SOP Instance pairs that are part of the Study defined by Study Instance UID and the Series defined by Series Instance UID (0020,000E). One or more Items may be included in this sequence
>>Referenced SOP Class UID	(0008,1150)	1	Uniquely identifies the referenced SOP Class.
>>Referenced SOP Instance UID	(0008,1155)	1	Uniquely identifies the referenced SOP Instance.

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C.17.2.3 Current Requested Procedure Evidence Sequence and Pertinent Other Evidence Sequence

The intent of the Current Requested Procedure Evidence Sequence is to reference all evidence created in order to satisfy the current Requested Procedure(s) for this SR Document. This shall include, but is not limited to, all current evidence referenced in the content tree.

For a completed SR Document satisfying (i.e., being the final report for) the current Requested Procedure(s), this sequence shall list the full set of Composite SOP Instances created for the current Requested Procedure(s). For other SOP Instances that include the SR Document General Module, this sequence shall contain at minimum the set of Composite SOP Instances from the current Requested Procedure(s) that are referenced in the content tree.

The Pertinent Other Evidence Sequence attribute is used to reference all other evidence considered pertinent for this SR Document that is not listed in the Current Requested Procedure Evidence Sequence.

This requires that the same SOP Instance shall not be referenced in both of these Sequences.