Status	Letter Ballot
Date of Last Update	2024/03/21
Person Assigned	David Clunie
	mailto:dclunie@dclunie.com
Submitter Name	David Clunie
	mailto:dclunie@dclunie.com
Submission Date	2023/03/14

Correction Number CP-2357
Log Summary: Clarify that in SR, the Referenced Instance Sequence content shall not overlap with the Current Requested Procedure or Pertinent Other Evidence, Predecessor or Identical Documents Sequences
Name of Standard PS3.3
Rationale for Correction:
Correction Wording:

*Amend DICOM PS3.3 as follows (changes to existing text are bold and **underlined** for additions and ~~struckthrough~~ for removals):*

C.17.2 SR Document General Module

Table C.17-2. SR Document General Module Attributes

Attribute Name	Tag	Type	Attribute Description
...			
Predecessor Documents Sequence	(0040,A360)	1C	References to SOP Instances (e.g., prior or preliminary reports) whose content has been wholly or partially included in this document with or without modification. One or more Items shall be included in this Sequence. Required if this document includes content from other documents. **Note** The amendment process of an existing SR Document may be described using the Purpose of Reference Code Sequence.
>*Include Table C.17-3 "Hierarchical SOP Instance Reference Macro Attributes"*			*Purpose of Reference Code Sequence in the Hierarchical SOP Instance Reference Macro DCID 7009 "Purpose of Reference to Predecessor Report".*
Identical Documents Sequence	(0040,A525)	1C	Duplicates of this document, stored with different SOP Instance UIDs. One or more Items shall be included in this Sequence. Required if this document is stored with different SOP Instance UIDs in one or more other Studies. See Section C.17.2.2 for further explanation.
>*Include Table C.17-3 "Hierarchical SOP Instance Reference Macro Attributes"*			
...			
Current Requested Procedure Evidence Sequence	(0040,A375)	1C	Full set of Composite SOP Instances, of which the creator is aware, which 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 shall be included in this Sequence. Required if the creator is aware of Composite Objects acquired in order to satisfy the Requested Procedure(s) for which the SR Document is or if Instances are referenced in the content tree. May be present otherwise. See Section C.17.2.3 for further explanation.
>*Include Table C.17-3 "Hierarchical SOP Instance Reference Macro Attributes"*			

Attribute Name	Tag	Type	Attribute Description
Pertinent Other Evidence Sequence	(0040,A385)	1C	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 shall be included in this Sequence. Required if pertinent evidence from other Requested Procedures needs to be recorded. See Section C.17.2.3 for further explanation.
>*Include Table C.17-3 "Hierarchical SOP Instance Reference Macro Attributes"*			
Referenced Instance Sequence	(0008,114A)	1C	Sequence specifying SOP Instances significantly related to the current SOP Instance**, but which are not referenced in the Current Requested Procedure Evidence Sequence (0040,A375), Pertinent Other Evidence Sequence (0040,A385), Predecessor Documents Sequence (0040,A360) or Identical Documents Sequence (0040,A525)**. Such referenced Instances may include equivalent documents or renderings of this document. One or more Items shall be included in this Sequence. Required if the identity of a CDA Document equivalent to the current SOP Instance is known at the time of creation of this SOP Instance (see Section C.17.2.6). May be present otherwise.
>*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 ???*			*DCID 7006 "SR Document Purpose of Reference".*

C.17.2.1 Hierarchical SOP Instance Reference Macro

Table C.17-3. Hierarchical SOP Instance Reference Macro Attributes

Attribute Name	Tag	Type	Attribute Description
...			

C.17.2.2 Identical Documents Sequence

If identical copies of a document are to be included in multiple Studies then the entire document shall be duplicated with appropriate changes for inclusion into the different Studies (i.e., Study Instance UID, Series Instance UID, SOP Instance UID, Identical Documents Sequence etc.). The Identical Documents Sequence Attribute in each SOP Instance shall contain references to all other duplicate SOP Instances.

Note

If a document contains an Identical Documents Sequence then it will not be further duplicated without producing a new complete set of duplicate SOP Instances with re-generated Identical Documents Sequences. This is a consequence of the rules for modification of document content in PS3.4. For example, if there are two identical reports and an application is creating a third identical report, then the first two reports must be re-generated in order that their Identical Documents Sequence will reference the new duplicate document and all other identical documents.

If a new document is created using content from a document that contains an Identical Documents Sequence and is part of the same Requested Procedure, then the new document shall only contain a new Identical Documents Sequence if the new document is du-

plicated. The Predecessor Documents Sequence in all the new documents shall contain references to the original document and all its duplicates as well as any other documents from which content is included.

Note

It is up to an implementation to decide whether a new document is duplicated across multiple Studies. This may require user input to make the decision.

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

The intent of the Current Requested Procedure Evidence Sequence (0040,A375) 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 (0040,A385) 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 (0040,A375).

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

For the purposes of inclusion in the Current Requested Procedure Evidence Sequence (0040,A375) and the Pertinent Other Evidence Sequence (0040,A385), the set of Composite SOP Instances is defined to include not only the images and waveforms referenced in the content tree, but also all presentation states, Real World Value maps and other accompanying Composite Instances that are referenced from the Content Items.

C.17.2.6 Equivalent CDA Document

The Referenced Instance Sequence (0008,114A) with a Purpose of Reference Code Sequence value of (121331, DCM, "Equivalent CDA Document") identifies an HL7 Clinical Document Architecture (CDA) Document that contains clinical content equivalent to this SR Document SOP Instance. This referenced CDA Document may be a source document that was transformed to create this SR Document, or it may be a transcoding of the content created simultaneously for both the SR Document and the CDA Document.

Note

1. Reference to a CDA Document created as a transcoding of the SR Document subsequent to the creation of the SR SOP Instance would not be encodable in that SOP Instance.

2. There is no requirement that the transform or transcoding between DICOM SR and HL7 CDA be reversible. In particular, some Attributes of the DICOM Patient, Study, and Series IEs have no corresponding standard encoding in the HL7 CDA Header, and vice versa. Such Attributes, if transcoded, may need to be encoded in implementation-dependent "local markup" (in HL7 CDA) or Private Data Elements (in DICOM SR) in an implementation-dependent manner; some such Attributes may not be transcoded at all. It is a responsibility of the transforming application to ensure clinical equivalence.

3. Due to the inherent differences between DICOM SR and HL7 CDA, a transcoded document should have a different UID than the source document.

The Referenced SOP Instance UID (0008,1155) in Items of this Sequence is mapped to the native HL7 Instance Identifier through the HL7 Structured Document Reference Sequence (0040,A390) of the ???.

10.8 SOP Instance Reference Macro

Table 10-11. SOP Instance Reference Macro Attributes

Attribute Name	Tag	Type	Attribute Description