

## DICOM Correction Item

Correction Number	CP-879
Log Summary: Reference Image Sequence restrictions on XA SOP Class	
Type of Modification	Name of Standard
Addition	PS 3.3 – 2008
Rationale for Correction	
<p>In previous editions of the Standard (i.e. 2003 and before), the items of the Referenced Image Sequence (0008,1140) contained only two attributes: the Referenced SOP Class UID (0008,1150) and the Referenced SOP Instance UID (0008,1150). In this sequence it was not possible to reference a set of frames of the Multi-frame Image SOP Instance. This sequence was used to relate to the corresponding plane of a Biplane acquisition, and in such case it was implicitly understood that the reference was applying to all the frames of the other plane.</p> <p>In further editions of the Standard, the Referenced Image Sequence (0008,1140) includes the 'Image SOP Instance Reference Macro' Table 10-3 which allows to reference also a set of frames of the Multi-frame Image SOP Instance. When this sequence is used to relate to the corresponding plane of a Biplane acquisition, it is specified that the first item shall have the Purpose of Reference value (121314, DCM, "Other image of biplane pair"), but there is no restriction on the usage of the Referenced Frame Number (0008,1160) in such item. This creates the possibility to restrict the reference to a set of frames of the other plane of the Biplane acquisition, but the interpretation of such restriction may be misleading and is meaningless from the practical standpoint.</p> <p>This Correction Proposal aims at clarifying the usage of the Referenced Image Sequence (0008,1140) in case of referencing the other plane of a Biplane acquisition, by removing the possibility to reference a set of frames of the other plane.</p>	
Sections of documents affected	
PS 3.3 Section C.8.7.1.1.13	
Correction Wording:	

### **C.8.7.1.1.13 Referenced Image Sequence**

When Image Type (0008,0008) Value 3 is BIPLANE A or BIPLANE B, Referenced Image Sequence (0008,1140) shall be used to identify the corresponding SOP Instance of the Biplane acquisition. In this case, either:

- only a single item shall be present, or
- multiple items may be present, each with the Purpose of Reference Code Sequence (0040,A170) present, and only the first item having the Purpose of Reference value (121314, DCM, "Other image of biplane pair").

**The Referenced Frame Number (0008,1160) attribute shall not be present in the Item that references the corresponding SOP Instance of the Biplane acquisition.**