

### DICOM Correction Proposal Form

Correction Number		CP-281	
Log Summary: Clarify use of Referenced Study Sequence in MWL			
Type of Modification		Name of Standard	
Clarification		PS 3.4 2001	
<p><b>Rationale for Correction</b></p> <p>Table K.6-1 states that the Modality Worklist query and response may contain all attributes from a number of normalized modules, in particular, from Requested Procedure, Visit Relationship and Patient Relationship modules.</p> <p>Apparently, each of these modules contains Referenced Study Sequence, with different meaning in each of the modules. Although this attribute is explicitly named only once (among Requested Procedure module's attribute), there is a possibility for someone to use it according to definitions in Visit Relationship module ("Uniquely identifies the Study SOP Instances associated with the Visit SOP Instance") or Patient Relationship module ("Uniquely identifies the Study SOP Instances associated with the Patient SOP Instance").</p> <p>Similar situation happens in the General Purpose Worklist class as well, where Referenced Study Sequence is included explicitly inside the Referenced Request Sequence, and implicitly, through the Patient Relationship module.</p> <p>Unfortunately, rules for overriding the attribute meaning (if only on the level of attribute's Type) are determined for attributes defined in multiple modules of composite objects, but such rules are not defined for normalized objects or worklists.</p> <p>With IHE recently proposing very specific use of Referenced Study Sequence in Modality Worklist, it is desirable to resolve this issue to explicitly specify what meaning shall the Sequence have.</p> <p>There are three possible ways to deal with it: (a) Generic rule that applies to all normalized modules; (b) Explicitly call out the attributes of Visit Relationship and Patient Relationship modules and omit Referenced Study Sequence from both; (c) Add a note to exclude the Referenced Study Sequence from both modules for a purpose of MWL. This proposal suggests exclusion of these attributes. It also corrects call-out of the Referenced Patient Sequence in Visit Relationship (attributes in the sequence are Type 2, not Type 1C).</p>			
Sections of documents affected			
PS 3.4 Section K.6.1			
Correction Wording:			

Amend Table K.6-1 in Section 6 of PS 3.4:

**Table K.6-1  
 ATTRIBUTES FOR THE MODALITY WORKLIST INFORMATION MODEL**

Description / Module	Tag	Match- ing Key Type	Return Key Type	Remark/Matching Type

<b>SOP Common</b>				
...	...	...	...	...
<b>Requested Procedure</b>				
Requested Procedure ID	(0040,1001)	O	1	
Requested Procedure Description	(0032,1060)	O	1C	The Requested Procedure Description (0032,1060) or the Requested Procedure Code Sequence (0032,1064) or both shall be supported by the SCP.
Requested Procedure Code Sequence	(0032,1064)	O	1C	The Requested Procedure Description (0032,1060) or the Requested Procedure Code Sequence (0032,1064) or both shall be supported by the SCP. The Requested Procedure Code Sequence shall contain only a single Item.
>Code Value	(0008,0100)	O	1C	Required if a Sequence Item is present.
>Coding Scheme Designator	(0008,0102)	O	1C	Required if a Sequence Item is present.
>Coding Scheme Version	(0008,0103)	O	3	
>Code Meaning	(0008,0104)	O	3	
Study Instance UID	(0020,000D)	O	1	
Referenced Study Sequence	(0008,1110)	O	2	
>Referenced SOP Class UID	(0008,1150)	O	1C	Required if a Sequence Item is present.
>Referenced SOP Instance UID	(0008,1155)	O	1C	Required if a Sequence Item is present.
...	...	...	...	...
<b>Visit Status</b>				
Current Patient Location	(0038,0300)	O	2	
All other Attributes from the Visit Status Module		O	3	
<b>Visit Relationship</b>				
Referenced Patient Sequence	(0008,1120)	O	2	
>Referenced SOP Class UID	(0008,1150)	O	1C2	<b>Required if a Sequence Item is present.</b>
>Referenced SOP Instance UID	(0008,1155)	O	1C2	<b>Required if a Sequence Item is present.</b>

All other Attributes from the Visit Relationship Module <b>except those explicitly included in this table (see Note 3)</b>		O	3	
<b>Visit Admission</b>				
All Attributes from the Visit Admission Module		O	3	
<b>Patient Relationship</b>				
All Attributes from the Patient Relationship Module <b>except those explicitly included in this Table (see Note 3)</b>		O	3	
<b>Patient Identification</b>				
Patient's Name	(0010,0010)	R	1	Patient Name shall be retrieved with Single Value Matching or Wild Card Matching.
Patient ID	(0010,0020)	R	1	Patient ID shall be retrieved with Single Value Matching.
All other Attributes from the Patient Identification Module		O	3	
<b>Patient Demographic</b>				
Patients Birth Date	(0010,0030)	O	2	
Patient's Sex	(0010,0040)	O	2	
Patient's Weight	(0010,1030)	O	2	
Confidentiality constraint on patient data	(0040,3001)	O	2	
All other Attributes from the Patient Demographic Module		O	3	
<b>Patient Medical</b>				
Patient State	(0038,0500)	O	2	
Pregnancy Status	(0010,21C0)	O	2	
Medical Alerts	(0010,2000)	O	2	
Contrast Allergies	(0010,2110)	O	2	
Special Needs	(0038,0050)	O	2	
All other Attributes from the Patient Medical Module		O	3	

Notes: ...

**3. The reason for this exclusion is to assure that the attributes that may be present in multiple modules are included only once with the meaning pertaining to only one module**

(for example, Referenced Study Sequence (0008,1110) shall be included once with the meaning as defined in the Requested Procedure Module).

Amend Table 6-2 in Section 6 of PS 3.4:

**Table K.6-2 Attributes for the General Purpose Worklist Information Model**

Description / Module	Tag	Match- ing Key Type	Return Key Type	Remark / Matching Type
<b>SOP Common</b>				
...	...	...	...	...
<b>General Purpose Scheduled Procedure Step Information</b>				
...	...	...	...	...
<b>General Purpose Scheduled Procedure Step Relationship</b>				
Referenced Request Sequence	(0040,A370)	O	1	
>Study Instance UID	(0020,000D)	O	1	This is the Study Instance UID that shall be used to identify an identical copy of an SR Object, in case multiple copies are created.
>Referenced Study Sequence	(0008,1110)	O	2	
>>Referenced SOP Class UID	(0008,1150)	O	1	
>>Referenced SOP Instance UID	(0008,1155)	O	1	
>Requested Procedure ID	(0040,1001)	O	1	
>Requested Procedure Description	(0032,1060)	O	1C	The Requested Procedure Description (0032,1060) or the Requested Procedure Code Sequence (0032,1064) or both shall be supported by the SCP.
>Requested Procedure Code Sequence	(0032,1064)	O	1C	The Requested Procedure Description (0032,1060) or the Requested Procedure Code Sequence (0032,1064) or both shall be supported by the SCP.  The Requested Procedure Code Sequence shall contain only a single Item.
>>Code Value	(0008,0100)	O	1	

>>Coding Scheme Designator	(0008,0102)	O	1	
>>Code Meaning	(0008,0104)	-	1	Code Meaning shall not be used as Matching Key.
>Accession Number	(0008,0050)	R	2	Accession Number shall be retrieved with Single Value Matching.
>Requesting Physician	(0032,1032)	O	2	
>All other Attributes relating to the Requested Procedure and the Imaging Service Request in the General Purpose Scheduled Procedure Step Relationship Module		O	3	
<b>Patient Relationship</b>				
All Attributes from the Patient Relationship Module <b>except those explicitly included in this Table (see Note)</b>		O	3	
<b>Patient Identification</b>				
Patient's Name	(0010,0010)	R	1	Patient's Name shall be retrieved with Single Value Matching or Wild Card Matching.
Patient ID	(0010,0020)	R	1	Patient ID shall be retrieved with Single Value Matching.
All other Attributes from the Patient Identification Module		O	3	
<b>Patient Demographic</b>				
Patient's Birth Date	(0010,0030)	O	2	
Patient's Sex	(0010,0040)	O	2	
All other Attributes from the Patient Demographic Module		O	3	
<b>Patient Medical</b>				
All Attributes from the Patient Medical Module		O	3	

**Note:** The reason for this exclusion is to assure that the attributes that may be present in multiple modules are included only once with the meaning pertaining to only one module (for example, Referenced Study Sequence (0008,1110) shall be included once with the meaning as defined in the Requested Procedure Module).