

## DICOM Correction Proposal

STATUS	Assigned
Date of Last Update	2013/08/30
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Correction Number	CP-1345
Log Summary:	Add Related UPS Sequence
Name of Standard	PS 3.3 2011, PS 3.4 2011
Rationale for Correction:	<p>Unified Worklist an Procedure Step is going to be strongly used in Radiotherapy and certainly other modalities. Many Use Cases will require, that several UPS are needed to accomplish a procedure, e.g. a Radiotherapy treatment or a surgery. There are groups of UPS, which are related to each other However they are still separate Unified Procedure Steps, since the Input and Output sequences are specific, progress and final status maybe different etc. . The rich model of UPS allows a very good representation of such sub-steps – but there is no facility of grouping.</p> <p>That facility has been present for a long time in revision of Supplement 96, but has been dropped in the late phases. This CP introduces that capability.</p>
Correction Wording:	

*In PS 3.3, section 'C.30.4 Unified Procedure Step Relationship Module', add the following:*

### **C.30.4 Unified Procedure Step Relationship Module**

Table C.30.4-1 specifies the Attributes that describe the relationship of a Unified Procedure Step (UPS).

**Table C.30.4-1  
Unified Procedure Step Relationship Module Attributes**

<b>Attribute Name</b>	<b>Tag</b>	<b>Attribute Description</b>
Patient's Name	(0010,0010)	Patient's full legal name.
Patient ID	(0010,0020)	Primary hospital identification number or code for the patient. See C.30.4.1
<i>Include Issuer of Patient ID Macro Table 10-18</i>		
Other Patient IDs Sequence	(0010,1002)	Identification numbers or codes used to identify the patient, which may or may not be human readable, and may or may not have been obtained from an implanted or attached device such as an RFID or barcode.  Zero or more Items shall be included in this sequence.

>Patient ID	(0010,0020)	An identification number or code used to identify the patient.
<i>&gt;Include Issuer of Patient ID Macro Table 10-18</i>		
Patient's Birth Date	(0010,0030)	Date of birth of the named patient.
Patient's Sex	(0010,0040)	Sex of the named Patient. Enumerated Values: M = male F = female O = other
Admission ID	(0038,0010)	Identification number of the visit as assigned by the healthcare provider
Issuer of Admission ID Sequence	(0038,0014)	Identifier of the Assigning Authority that issued the Admission ID. Only a single Item shall be permitted in this sequence.
<i>&gt;Include HL7v2 Hierarchic Designator Macro Table 10-17</i>		
Admitting Diagnoses Description	(0008,1080)	Description of admitting diagnosis (diagnoses) for the patient.
Admitting Diagnoses Code Sequence	(0008,1084)	Coded admitting diagnosis (diagnoses) for the patient. One or more Items shall be included in this Sequence.
<i>&gt;Include 'Code Sequence Macro' Table 8.8-1</i>		
<i>No Baseline Context ID is defined.</i>		
Referenced Request Sequence	(0040,A370)	Requested Procedures to which the Procedure Step contributes. Zero or more Items shall be included in the sequence.
>Study Instance UID	(0020,000D)	Unique identifier for the Study.
>Accession Number	(0008,0050)	An identifier of the order for the Study.
>Issuer of Accession Number Sequence	(0008,0051)	Identifier of the Assigning Authority that issued the Accession Number. Only a single Item shall be permitted in this sequence.
<i>&gt;&gt;Include HL7v2 Hierarchic Designator Macro Table 10-17</i>		
>Requested Procedure Code Sequence	(0032,1064)	Procedure Type of the Requested Procedure. Zero or one Item shall be included in this sequence.
<i>&gt;&gt;Include Code Sequence Macro Table 8.8-1</i>		
<i>No Baseline Context ID is defined.</i>		
>Placer Order Number / Imaging Service Request	(0040,2016)	The order number assigned to the Service Request by the party placing the order.
>Order Placer Identifier Sequence	(0040,0026)	Identifier of the Assigning Authority that issued the Placer Order Number. Only a single Item shall be permitted in this sequence.
<i>&gt;&gt;Include HL7v2 Hierarchic Designator Macro Table 10-17</i>		

>Filler Order Number / Imaging Service Request	(0040,2017)	The order number assigned to the Service Request by the party filling the order.
>Order Filler Identifier Sequence	(0040,0027)	Identifier of the Assigning Authority that issued the Filler Order Number. Only a single Item shall be permitted in this sequence.
<i>&gt;&gt;Include HL7v2 Hierarchic Designator Macro Table 10-17</i>		
>Requested Procedure ID	(0040,1001)	Identifier of the related Requested Procedure.
>Requested Procedure Description	(0032,1060)	Institution-generated description or classification of the Requested Procedure.
>Reason for the Requested Procedure	(0040,1002)	Reason for requesting this procedure.
> Reason for Requested Procedure Code Sequence	(0040,100A)	Coded reason for requesting this procedure. Zero or more Items shall be included in the sequence.
<i>&gt;&gt;Include 'Code Sequence Macro' Table 8.8-1</i>		
>Requested Procedure Comments	(0040,1400)	User-defined comments on the Requested Procedure.
>Confidentiality Code	(0040,1008)	Confidentiality Constraints on the Requested Procedure by the party filling the order.
>Names of Intended Recipients of Results	(0040,1010)	Names of the physicians, who are intended recipients of results.
>Imaging Service Request Comments	(0040,2400)	User-defined comments on the Service Request.
>Requesting Physician	(0032,1032)	Physician who requested the Service Request.
>Requesting Service	(0032,1033)	Institutional department where the request initiated.
>Issue Date of Imaging Service Request	(0040,2004)	Date on which the Service Request was issued by the requester.
>Issue Time of Imaging Service Request	(0040,2005)	Time at which the Service Request was issued by the requester.
>Referring Physician's Name	(0008,0090)	The physician who referred the Patient to the physician or service issuing the Service Request. Note: This is generally the recipient of any report generated by the Service Request.
<b><u>Related Procedure Step Sequence</u></b>	<b><u>(xxxx,yyyy)</u></b>	<b><u>Other Procedure Step Instances related to this Procedure Step Instance.</u></b> <b><u>Zero or more Items shall be included in the sequence.</u></b>
<b><u>&gt;Referenced SOP Class UID</u></b>	<b><u>(0008,1150)</u></b>	<b><u>Uniquely identifies the SOP Class of the referenced Instance</u></b>
<b><u>&gt;Referenced SOP Instance UID</u></b>	<b><u>(0008,1155)</u></b>	<b><u>Uniquely identifies the referenced SOP Instance</u></b>
<b><u>&gt;Purpose of Reference Code Sequence</u></b>	<b><u>(0040,A170)</u></b>	<b><u>Code describing the purpose of the reference to the Instance.</u></b> <b><u>Only a single Item shall be permitted in the sequence.</u></b>
<i>&gt;&gt;Include 'Code Sequence Macro' Table 8.8-1</i>		
<i>No Baseline Context ID is defined.</i>		

Replaced Procedure Step Sequence	(0074,1224)	Canceled procedure step(s) which are replaced by this procedure step. Zero or more Items shall be included in the sequence.
>Include 'SOP Instance Reference Macro' Table 10-11		

In PS 3.4, section 'CC.2.5.1.3 UPS Attribute Service Requirements', add the following:

**CC.2.5.1.3 UPS Attribute Service Requirements**

....

Unified Procedure Step Relationship Module								
Patient's Name	(0010,0010)	2/2	Not allowed	O	3/2	R	2	
Patient ID	(0010,0020)	1C/2	Not allowed	O	3/2	R	2	Required if the subject of the workitem requires identification or if the workitem is expected to result in the creation of objects that identify the subject. See PS 3.3 C.30.4.1
Referenced Request Sequence	(0040,A370)	2/2	Not allowed	O	3/2	O	2	Could be "changed" while SCHEDULED by canceling and re-creating with the "correct" values.
...								
>Referring Physician's Name	(0008,0090)	3/3	3/3	O	-/3	O	3	

<b>Related Procedure Step Sequence</b>	<b>(xxxx,yyyy)</b>	<b>3/3</b>	<b>3/3</b>	<b>O</b>	<b>3/3</b>	<b>O</b>	<b>3</b>	<b>The Attributes of the Related Procedure Step Sequence shall only be retrieved with Sequence Matching.</b>
<b>&gt;Referenced SOP Class UID</b>	<b>(0008,1150)</b>	<b>1/1</b>	<b>3/1</b>	<b>O</b>	<b>-/1</b>	<b>R</b>	<b>1</b>	<b>Referenced SOP Class UID shall be retrieved with Single Value Matching.</b>
<b>&gt;Referenced SOP Instance UID</b>	<b>(0008,1155)</b>	<b>1/1</b>	<b>3/1</b>	<b>O</b>	<b>-/1</b>	<b>R</b>	<b>1</b>	<b>Referenced SOP Instance UID shall be retrieved with Single Value Matching.</b>
<b>&gt;Purpose of Reference Code Sequence</b>	<b>(0040,A170)</b>	<b>1/1</b>	<b>3/1</b>	<b>O</b>	<b>-/1</b>	<b>-</b>	<b>1</b>	<b>The Attributes of the Related Procedure Step Sequence shall only be retrieved with Sequence Matching.</b>
<b>&gt;&gt;Include Code Sequence Macro Table F.X.3.5-2a</b>								
<b>Replaced Procedure Step Sequence</b>	<b>(0074,1224)</b>	<b>1C/1C</b>	<b>Not allowed</b>	<b>O</b>	<b>3/2</b>	<b>R</b>	<b>3</b>	<b>Required if the UPS replaces another Procedure Step.</b>
<b>&gt;Include 'SOP Instance Reference Macro' Table CC.2.5-2f</b>								

Add the following row to PS3.6, Section 6

<u>(xxxx,yyy)</u>	<u>Related Procedure Step Sequence</u>	<u>RelatedProcedureStepSequence</u>	<u>SQ</u>	<u>1</u>
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