

DICOM Correction Proposal Form

Tracking Information - Administration Use Only	
Correction Proposal Number	CP-272
STATUS	Proposed
Date of Last Update	107/2526 /2001
Person Assigned	Al Belden
Submitter Name	Al Belden
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Correction Number	CP-272
Log Summary: Addition of attribute to distinguish change/add cases in MPPS	
Type of Modification	Name of Standard
Addition	PS 3.3, 3.4, 3.6, <u>3.16</u> , 2000

Rationale for Correction

There are a variety of attributes that describe what is requested and scheduled to be performed with respect to a procedure including:

- Scheduled Procedure Step Description (0040, 0007)
- Schedule Protocol Code Sequence (0040, 0008)
- Requested Procedure Description (0032, 1060)
- Requested Procedure Code Sequence (0032, 1064)

There is an equal wealth of attributes to describe what is actually performed including:

- Procedure Code Sequence (0008, 1032)
- Performed Procedure Step Description (0040, 0254)
- Performed Procedure Type Description (0040, 0255)
- Performed Protocol Code Sequence (0040, 0260)
- Protocol Name (0018, 1030)

Considering that some of these attributes are text and others codes from arbitrarily variant coding schemes, it is difficult for an SCP to determine from the MPPS dataset whether what has been performed is different from what was scheduled. It is proposed that an additional optional attribute be added to the Performed Procedure Step Information Module to allow the SCU to explicitly state the variance of the performed from the scheduled. The following cases are considered significant:

1. Normal Completion – What was scheduled and requested has been performed
2. Procedure Changed – What was scheduled/requested has been changed, e.g. Instead of performing the procedure with contrast it was done without, etc
3. Procedure Added – An additional procedure has been performed that was not scheduled/requested, e.g. The patient complained of headache and an MR of the head was performed. When nothing was found a scan of the neck was done
4. Procedure Changed/Added Not Significant – This could cover the redo case, for example. ~~When a different procedure from what was requested or an additional procedure related to the requested has been performed the Procedure Code Sequence (0008, 1032) and Performed Procedure Type Description (0040, 0255) will have different values from the Requested Procedure Code Sequence (0032, 1064) and Requested Procedure Description (0032, 1060), respectively. An additional attribute that will distinguish the Add case from the Change case would provide clarity here. It is proposed that an additional optional attribute be added to the Performed Procedure Step Information Module for this purpose.~~

Brad Erickson of Mayo Clinic has furnished some relevant use cases of procedures that were partially completed and then changed as follows:

1. Other scenarios are that a lesion is seen on CT, and the patient immediately goes to ultrasound (or MR) to confirm it is cystic rather than a solid neoplasm.
2. Or in head MR, you see a possible aneurysm on imaging, so you add an angio.
3. Another case is CT/myelography where sometimes we do plain film tomograms rather than CT, though very few places in the US do this (it is only used for a rare disease called a spinal dural AV fistula).
4. We occasionally also add tomograms onto plain film exams in musculoskeletal, at the discretion of the radiologist.

In these cases, our RIS issues an email notification to the ordering doc, saying that he must reply to 'deny' ordering the exam, in which case the patient isn't charged. Our legal department interprets the HCFA rules that it is OK to this, and that this can be done up until the time the bill is sent.

Sections of documents affected PS 3.3 PS 3.4 PS 3.6 PS 3.16
Correction Wording:

[Add the following lines to PS 3.3, Table C.4-14](#)

PERFORMED PROCEDURE STEP INFORMATION MODULE ATTRIBUTES

Attribute Name	Tag	Attribute Description
...
Requested/Performed Procedure Change Status Clarification Code Sequence	(0040, 0285xxxx)	<p>The variance between what was scheduled/requested and what has been performed.</p> <p>When a different or additional procedure is performed than what was requested this attribute distinguishes these cases.</p> <p>Defined Terms: ADD CHANGE</p>
>>Include 'Code Sequence Macro' Table 8.8-1		<i>Baseline Context ID is 9301</i>

[Add the following line to PS 3.4, Table F.7.2-1](#)

**Table F.7.2-1
 MODALITY PERFORMED PROCEDURE STEP SOP CLASS N-CREATE, N-SET AND FINAL STATE ATTRIBUTES**

Attribute Name	Tag	Req. Type N-CREATE (SCU/SCP)	Req. Type N-SET (SCU/SCP)	Requirement Type Final State
...
Requested/Performed Procedure Change Clarification Status Code Sequence	(0040, 0285xxxx)	3/3	3/3	
...

[Add the following line to PS 3.6, Section 6](#)

(0040, 0285xxxx) Requested/Performed Procedure Change Clarification Status Code Sequence SQL 1

Add the following Context ID Table to PS 3.16, Annex E

Context ID 9301 – Procedure Change/Add Statuses

<u>Coding Scheme Designator (0008,0102)</u>	<u>Code Value (0008,0100)</u>	<u>Code Meaning (0008,0104)</u>
<u>DCM</u>	<u>110530</u>	<u>Performed As Requested</u>
<u>DCM</u>	<u>110531</u>	<u>Procedure Changed</u>
<u>DCM</u>	<u>110532</u>	<u>Procedure Added</u>
<u>DCM</u>	<u>110533</u>	<u>Procedure Change/Add Not Significant</u>