

DICOM Correction Item

Correction Number		CP-611
Log Summary: Add Irradiation Event Functional Group to Enhanced CT IOD		
Type of Modification	Name of Standard	
Addition	PS 3.3 – 2004 + Supplement 83	
<p>Rationale for Correction</p> <p>Supplement 94 (X-Ray Diagnostic Irradiation Dose Report) defines the Irradiation Event UID to link the Dose Report SR SOP Instance with the related (Image) SOP Instances. It is defined in the General Image Module as Type 1.</p> <p>Supplement 83 (Enhanced XA/XRF) defines the Irradiation Event Identification Functional Group that includes the Irradiation Event UID as a Type 1 attribute.</p> <p>This CP includes this FG as mandatory functional group for Enhanced CT.</p> <p>In Supplement 83 the FG is included in the modality specific modules section (C.8.x) but because it general used it need to be in the general module section (C.7.x)</p> <p>This new module is can be introduced in the final text version of Enhanced CT Storage SOP Class because of the fact that the new CT SOP Class is not yet implemented.</p> <p>Also correct missing indent in Table C.8.X6-15.</p>		
Sections of documents affected		
PS 3.3 Section A.38.1.4, Supplement 83 Section A.X.4, A.Y.4 and C.8.X.6		
Correction Wording:		

Item #1: Add Irradiation Event FG to CT IOD

A.38.1.4 Enhanced CT Image Functional Group Macros

Table A.38-2 specifies the use of the Functional Group macros used in the Multi-frame Functional Group Module for the Enhanced CT Image IOD.

**Table A.38-2
 ENHANCED CT IMAGE FUNCTIONAL GROUP MACROS**

Function Group Macro	Section	Usage
...		
CT Pixel Value Transformation	C.8.15.3.10	M
<u>Irradiation Event Identification</u>	<u>C.7.6.16.2.X6</u>	<u>M</u>

Item #2: Move Irradiation Event FG Macro from C.8 to C.7 section in Supplement 83

A.X.4 Enhanced XA Image Functional Group Macros

Table A.X-2 specifies the use of the Functional Group macros used in the Multi-frame Functional Groups Module for the Enhanced XA Image IOD.

**Table A.X-2
 ENHANCED XA IMAGE FUNCTIONAL GROUP MACROS**

Functional Group Macro	Section	Usage
...		
Frame Display Shutter	C.7.6.16.2.X5	U
<u>Irradiation Event Identification</u>	<u>C.7.6.16.2.X6</u>	<u>M</u>
...		
<u>Irradiation Event Identification</u>	<u>C.8.19.6.15</u>	<u>M</u>

A.Y.4 Enhanced XRF Image Functional Group Macros

Table A.Y-2 specifies the use of the Functional Group macros used in the Multi-frame Functional Groups Module for the Enhanced XRF Image IOD.

**Table A.Y-2
 ENHANCED XRF IMAGE FUNCTIONAL GROUP MACROS**

Functional Group Macro	Section	Usage
...		
Frame Display Shutter	C.7.6.16.2.X5	U
<u>Irradiation Event Identification</u>	<u>C.7.6.16.2.X6</u>	<u>M</u>
...		
<u>Irradiation Event Identification</u>	<u>C.8.19.6.15</u>	<u>M</u>

~~C.8.19.6-15.7.6.16.2.X6~~ Irradiation Event Identification Macro

Table **~~C.8.19.6-15.C.7.6.16-X7~~** specifies the attributes containing the Irradiation Event Identification Functional Group macro.

**~~Table C.8.19.6-15.C.7.6.16-X7~~
IRRADIATION EVENT IDENTIFICATION MACRO ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Irradiation Event Identification Sequence	(0018,9477)	1	Sequence containing the Irradiation Event Identification for this frame. Only a single Item shall be permitted in this sequence.
≥Irradiation Event UID	(0008,3010)	1	Unique identification of the irradiation event(s) associated with the acquisition of this image.