

DICOM Correction Item

Correction Number		CP-957
Log Summary: CT SR dose, extension for Exposure Modulation Type		
Type of Modification	Name of Standard	
Addition	PS3.16 – 2008	
Rationale for Correction		
<p>To be able to record, if exposure modulation has been used to reduce the dose applied to the patient, "Exposure Modulation Type (0018,9323)" shall also be included within the CT Dose SR report for information and evaluation.</p> <p>For the CT specialist or for the physicist it shall be possible to get an overview about measures used for dose saving.</p>		
Sections of documents affected		
PS 3.16, TID 10013		
Correction Wording: n.a.		

Add to PS 3.16, TID 10013

TID 10013
 CT IRRADIATION EVENT DATA
 Type: Extensible

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
...								
29	>>> >	HAS PROPERTI ES	NUM	EV (113840, DCM, "Effective Dose Conversion Factor")	1	MC	IF row 28 is present and equals (113800, DCM, "DLP to E conversion via MC computation") or equals (113802, DCM, "DLP to E conversion via measurement")	Units = EV (mSv/mGycm, UCUM, "mSv/mGycm")
30	>	CONTAINS	TEXT	EV (113842, DCM, "X-ray Modulation Type")	1	U		
301	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")	1	M		DCID (4052) Phantom Devices

Content Item Descriptions

Row 29	The Effective Dose Conversion Factor is the ratio of the Effective Dose to the DLP, expressed in units of mSv/mGycm, and it is used as a factor in one method of estimating Effective Dose. Monte Carlo Simulations (or dosimetric measurements in an anthropomorphic phantom, e.g., the Alderson-Rando phantom) may be used as a basis for the evaluation of Effective Dose Conversion Factors.
Row 30	<u>The type of exposure modulation. May use the value of Exposure Modulation Type (0018,9323) from CT Exposure Macro or from CT Image Module.</u>

Add to PS 3.16, Annex D DICOM Controlled Terminology Definitions

DICOM Code Definitions (Coding Scheme Designator "DCM" Coding Scheme Version "01")

Code Value	Code Meaning	Definition	Notes
...			
113842	X-ray Modulation Type	The type of exposure modulation used for the purpose of limiting the dose.	
....			