

DICOM Correction Proposal

STATUS	Letter Ballot
Date of Last Update	2024-01-14
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Correction Number	CP-2327
Log Summary:	Inconsistent meaning used for (113930, DCM, Size Specific Dose Estimate)
Name of Standard	PS3.16
Rationale for Correction:	<p>Part 16 contains inconsistencies.</p> <p>Table D-1. DICOM Controlled Terminology Definitions has DCM Code Value “113930” with Code Meaning “Size Specific Dose Estimate”.</p> <p>In Table TID 10013. CT Irradiation Event Data, line 30 it is same Code Meaning as in Table D-1.</p> <p>In Table TID 10042. Irradiation Event Summary Data, line 33, it is “(113930, DCM, "Size Specific Dose Estimation")” - “Estimation” instead of “Estimate”.</p> <p>The Code Meanings should be consistent throughout the DICOM standard.</p> <p>The term “Estimate” is favored as it is already listed in the table D-1 Definitions for “113930”, and same text “Estimate” is used multiple times in other Definitions, and used in TID 10013.</p>
Correction Wording:	

Update PS3.16 according to:

Table TID 10034. Radiation Dose Estimate Parameters

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (128434, DCM, "Radiation Dose Estimate Parameters")	1	M		
2	>	CONTAINS	NUM	DCID 10069 "Radiation Dose Estimation one Parameter"	1-n	MC	IF Row 4 absent	UNITS = DCID 82 "Measurement Unit"
4	>	CONTAINS	COMPOSITE	EV (128436, DCM, "Radiation Dose Composite Parameters")	1-n	MC	IF Row 2 absent	

Table TID 10042. Irradiation Event Summary Data

32	>>	CONTAINS	NUM	EV (113838, DCM, "DLP")	1	M		UNITS = EV (mGy.cm, UCUM, "mGy.cm")
33	>>	CONTAINS	NUM	EV (113930, DCM, "Size Specific Dose Estimation")	1-n	U		UNITS = EV (mGy, UCUM, "mGy")
34	>>>	HAS CONCEPT MOD	CODE	EV (370129005, SCT, "Measurement Method")	1	M		DCID 10023 "Size Specific Dose Estimation Method for CT"

Table D-1. DICOM Controlled Terminology Definitions (Coding Scheme Designator "DCM" Coding Scheme Version "01")

Code Value	Code Meaning	Definition	Notes
...			
113934	AAPM 204 Lateral Dimension	The Size Specific Dose Estimation is computed using Table 1B (32cm phantom) or Table 2B (16cm phantom) of [AAPM Report 204].	
113935	AAPM 204 AP Dimension	The Size Specific Dose Estimation is computed using Table 1C (32cm phantom) or Table 2C (16cm phantom) of [AAPM Report 204].	113935
113936	AAPM 204 Sum of Lateral and AP Dimension	The Size Specific Dose Estimation is computed using Table 1A (32cm phantom) or Table 2A (16cm phantom) of [AAPM Report 204].	
113937	AAPM 204 Effective Diameter Estimated From Patient Age	The Size Specific Dose Estimation is computed using Table 1D (32cm phantom) or Table 2D (16cm phantom) using an effective diameter estimated from the patient's age using Table 3 of [AAPM Report 204].	
...			