

# DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2024-03-24
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Submission Date	2023-08-24

Correction Number	CP-2327
Log Summary:	Inconsistent meaning used for (113930, DCM, Size Specific Dose Estimate)
Name of Standard	PS3.16 2024a
Rationale for Correction:	<p>Part 16 contains inconsistencies.</p> <p><b>Table D-1. DICOM Controlled Terminology Definitions</b> has DCM Code Value “113930” with Code Meaning “Size Specific Dose Estimate”.</p> <p>In <b>Table TID 10013. CT Irradiation Event Data</b>, line 30 it is same Code Meaning as in Table D-1.</p> <p>In <b>Table TID 10042. Irradiation Event Summary Data</b>, 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> <p>When the term is used to describe the method, rather than the parameter, “estimation” is used.</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 <b>iong</b> 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"

**Content Item Descriptions**

Row 33	More than one Size Specific Dose Estimation may be included, for example if different computation methods are used.
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**CID 10069 Radiation Dose Estimation Parameter**

**Keyword:** RadiationDoseEstimationParameter

**FHIR Keyword:** dicom-cid-10069-RadiationDoseEstimationParameter

**Table CID 10069. Radiation Dose Estimation Parameter**

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
...				

**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].	

Code Value	Code Meaning	Definition	Notes
...			
113935	AAPM 204 AP Dimension	The Size Specific Dose <b>Estimation</b> is computed using Table 1C (32cm phantom) or Table 2C (16cm phantom) of [AAPM Report 204].	
113936	AAPM 204 Sum of Lateral and AP Dimension	The Size Specific Dose <b>Estimation</b> 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 <b>Estimation</b> 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].	
...			
128464	<b>Radiation Dose Estimation Parameter Type</b>	<i>Parameters used in mathematical, simulation, or empirical calculations for radiation dose estimation <b>methods</b>.</i>	<b><u>Retired</u></b>