DICOM Correction Proposal

STATUS	Assigned
Date of Last Update	2025/03/28
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Submission Date	2025/02/17

Correction Number	CP-2517
Log Summary: Add new codes to RT Dose Derivation CID	
Name of Standard PS3.16	
Rationale for Correction: CID 7220 contains codes for RT Dose Derivations. This Correction Proposal introduces additional codes describing how dose can be derived.	
Correction Wording:	

In PS3.16, Section B DCMR Context Groups (Normative) update Table CID 7220 as follows:

CID 7220 RT Dose Derivation

Resources: **HTML | FHIR JSON | FHIR XML | IHE SVS XML**
Keyword: **RTDoseDerivation**
FHIR Keyword: **dicom-cid-7220-RTDoseDerivation**
Type: **Extensible**
Version: **20YYMMDD**
UID: **1.2.840.10008.6.1.968**

Table CID 7220. RT Dose Derivation

Coding Scheme Designator	Code Value	Code Meaning
DCM	121370	Composed from prior doses
DCM	121371	Composed from prior doses and current plan
DCM	121377	Composed with radiobiological effects
DCM	121378	Composed with weighting for fractions delivered
DCM	**CCCCC1**	**Composed based on deformable registration**
DCM	**CCCCC2**	**Composed based on computation on image series other than planning image series**
DCM	**CCCCC3**	**Composed based on computation using setup perturbation**

In PS3.16, Section D DICOM Controlled Terminology Definitions (Normative) update Table D-1 as follows:

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

Code Value	Code Meaning	Definition	Notes
…			
121370	Composed from prior doses	The dose object created was calculated by summation of existing, previously calculated, RT Dose instances.	
121371	Composed from prior doses and current plan	The dose object created was calculated by summation of existing, previously calculated, RT Dose instances and dose newly calculated by the application. The newly calculated dose may or may not exist as an independent object.	
…			
121377	Composed with radiobiological effects	The dose object created was calculated using previously calculated RT Dose Instances by taking radiobiological effects into account.	
121378	Composed with weighting for fractions delivered	The dose object was calculated based on weighted contributions along the actual number of fractions delivered.	
…			
CCCCC1	**Composed based on deformable registration**	**The dose object created was calculated based on a deforming a previously calculated RT Dose instance.**	
CCCCC2	**Composed based on computation on image series other than planning image series**	**The dose object created was calculated based on an image series different from the planning image series of a previously existing RT Dose instance.**	
CCCCC3	**Composed based on computation using setup perturbation**	**The dose object created was calculated based on a perturbation in patient setup compared to a previously calculated RT Dose instance.**	