

1	Status	Assigned
2	Date of Last Update	2017/01/24
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7	Submission Date	2016/11/23

8	Correction Number CP-1676	
9	Log Summary: Remove duplicate anatomy information in irradiation event data in RDSR	
10	Name of Standard	
11	PS3.16	
12	Rationale for Correction:	
13	CP 687 added an optional "Anatomical structure" content item (+/- "Laterality") when there was already a mandatory "Target region"	
14	content item present, without explaining the difference between the two.	
15	Remove the duplicate "Anatomical structure" and move its "Laterality" child to apply to "Target region".	
16	Correction Wording:	

Amend DICOM PS3.16 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

TID 10003 Irradiation Event X-Ray Data

Table TID 10003. Irradiation Event X-Ray Data

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (113706, DCM, "Irradiation Event X-Ray Data")	1	M		
2	>	HAS CONCEPT MOD	CODE	EV (113764, DCM, "Acquisition Plane")	1	M		DCID 10003
3	>	CONTAINS	UIDREF	EV (113769, DCM, "Irradiation Event UID")	1	M		
4	>	CONTAINS	TEXT	EV (113605, DCM, "Irradiation Event Label")	1	U		
5	>>	HAS CONCEPT MOD	CODE	EV (113606, DCM, "Label Type")	1	MC	IF the value of Row 4 is the value of an Attribute in the images.	DCID 10022
6	>	CONTAINS	DATETIME	DT (111526, DCM, "DateTime Started")	1	M		
7	>	CONTAINS	CODE	EV (113721, DCM, "Irradiation Event Type")	1	M		DCID 10002
8	>	CONTAINS	TEXT	EV (125203, DCM, "Acquisition Protocol")	1	U		
9	>	CONTAINS	CODE	EV (T-D0005, SRT, "Anatomical structure")	4	U		DCID 4009
10	>>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, "Laterality")	4	UG	If anatomy is bi-lateral	DCID 244
11	>	CONTAINS	CODE	EV (111031, DCM, "Image View")	1	U		DCID 4010 DCID 4014
12	>>	HAS CONCEPT MOD	CODE	EV (111032, DCM, "Image View Modifier")	1-n	U		DCID 4011 DCID 4015
13	>>	CONTAINS	CODE	EV (113946, DCM, "Projection Eponymous Name")	1	U		DCID 4012
14	>	CONTAINS	CODE	EV (113745, DCM, "Patient Table Relationship")	1	U		DCID 21
15	>	CONTAINS	CODE	EV (113743, DCM, "Patient Orientation")	1	U		DCID 19
16	>>	HAS CONCEPT MOD	CODE	EV (113744, DCM, "Patient Orientation Modifier")	1	M		DCID 20
17	>	CONTAINS	CODE	EV (123014, DCM, "Target Region")	1	M		DCID 4031

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
17b	>>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, "Laterality")	1	UC	If anatomy is bilateral	DCID 244
18	>	CONTAINS	NUM	EV (122130, DCM, "Dose Area Product")	1	MC	IFF TID (10001) Row 2 = (113704, DCM, "Projection X-Ray")	UNITS = EV (Gy.m2, UCUM, "Gy.m2")
19	>	CONTAINS	NUM	EV (111634, DCM, "Half Value Layer")	1	U		UNITS = EV (mm, UCUM, "mm")
20	>	CONTAINS	NUM	EV (111638, DCM, "Patient Equivalent Thickness")	1	U		UNITS = EV (mm, UCUM, "mm")
21	>	CONTAINS	NUM	EV (111636, DCM, "Entrance Exposure at RP")	1	MC	IF TID (10001) Row 2 = (P5-40010, SRT, "Mammography") and (TID (10001) Row 9 is absent or value is (R-0038D, SRT, "Yes")) and (TID (10001) Row 10 is absent or value is (R-0038D, SRT, "Yes"))	UNITS = EV (mGy, UCUM, "mGy")
22	>	CONTAINS	TEXT	EV (113780, DCM, "Reference Point Definition")	1	MC	IF Row 21 is present and Row 23 is not present	
23	>	CONTAINS	CODE	EV (113780, DCM, "Reference Point Definition")	1	MC	IF Row 21 is present and Row 22 is not present	DCID 10025
24	>	CONTAINS	INCLUDE	DTID 4007	1	U		
25	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")	1	U		
26	>	CONTAINS	INCLUDE	DTID 1020	1-n	U		\$PersonProcedureRole = EV (113851, DCM, "Irradiation Administering")
27	>	CONTAINS	INCLUDE	DTID 10003A	1	MC	IFF TID (10001) Row 8 is absent or has a value of (R-0038D, SRT, "Yes")	
28	>	CONTAINS	INCLUDE	DTID 10003B	1	MC	IFF TID (10001) Row 9 is absent or has a value of (R-0038D, SRT, "Yes")	
29	>	CONTAINS	INCLUDE	DTID 10003C	1	MC	IFF TID (10001) Row 10 is absent or has a value of (R-0038D, SRT, "Yes")	

1 **Content Item Descriptions**

2 3	Row 3	If the image generating entity does not assign a DICOM UID to the irradiation event (e.g., for non-digital imaging equipment), the application generating this report shall assign a UID. In the case of non-integrated cassette-based equipment, a standalone Detector will generate UIDs for the Events it observes. If the X-Ray Source component of the equipment also reports information, it too will generate UIDs for the Events it creates. A downstream system (e.g., a workstation or the Dose Information Reporter itself) may combine the two reports into a composite report, and match up the events based on details such as the time information, and use the UIDs of the X-Ray Source.
4 5 6 7 8	Row 6	Provide DateTime the application of X-Ray started. This shall correspond to the start of the first irradiation in the Irradiation Event, which defines the starting point for the calculation of Row 36 "Irradiation Duration".
9 10	Row 17	The target region is the anatomy exposed.
11 12	Row 21	A text definition of the Reference Point (RP) used for RP-related dose values.
13 14	Row 22	A coded definition of the Reference Point (RP) used for RP-related dose values
15 16	Row 26	People responsible for the administration of the radiation reported in the irradiation event. May include values that would appear in Performing Physicians' Name (0008,1050), Performing Physician Identification Sequence (0008,1052), Operators' Name (0008,1070) and/or Operator Identification Sequence (0008,1072).