

# DICOM Correction Proposal

STATUS	Letter Ballot
Date of Last Update	2023/03/23
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Submission Date	2022/03/10

Correction Number	CP-2238
Log Summary:	Add Reject Flag items in RDSR for X-Ray and CT
Name of Standard	PS3.16
Rationale for Correction:	<p>CP-2107 added “repeat flag” items to the RDSR for Projection X-Ray in TID 10003, in order to reach symmetry with the TID 10013 of CT RDSR. These two TIDs do not include “reject flag” items.</p> <p>Enhanced RDSR included the same “repeat flag” items in TID 10042, and additionally included new “reject flag” items in TID 10042.</p> <p>This CP adds same “reject flag” items to TID 10003 (Projection X-Ray RDSR) and TID 10013 (CT RDSR), in order to reach symmetry between traditional RDSR’s and Enhanced RDSR.</p>
Correction Wording:	

*Edit TID 10003 and TID 10013 in Part 16:*

**Table TID 10003. Irradiation Event X-Ray Data**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
...								
5a	>	CONTAINS	CODE	EV (128551, DCM, "Is Repeated Acquisition")	1	U		DCID 231 “Yes-No Only”
5b	>>	HAS CONCEPT MOD	CODE	EV (128552, DCM, "Reason for Repeating Acquisition")	1	MC	IFF value of Row 5a = (373066001, SCT, "Yes")	DCID 10034 “Reason for Repeating Acquisition” DCID 7011 “Rejected for Quality Reasons”
5c	>>	HAS PROPERTIES	UIDREF	EV (113769, DCM, "Irradiation Event UID")	1	UC	IFF value of Row 5a = (373066001, SCT, "Yes")	
<u>5d</u>	<u>≥</u>	<u>CONTAINS</u>	<u>CODE</u>	<u>EV (130503, DCM, "Is Rejected Acquisition")</u>	<u>1</u>	<u>U</u>		<u>DCID 231 “Yes-No Only”</u>

5e	>>	<u>HAS CONCEPT MOD</u>	<u>CODE</u>	<u>EV (130504, DCM, "Reason for Rejecting Acquisition")</u>	<u>1</u>	<u>MC</u>	<u>IFF value of Row 5d = (373066001, SCT, "Yes")</u>	<u>DCID 10034 "Reason for Repeating Acquisition"</u> <u>DCID 7011 "Rejected for Quality Reasons"</u>
6	>	CONTAINS	DATETIME	DT (111526, DCM, "DateTime Started")	1	M		
...								

#### Content Item Descriptions

...	
Rows 5a, 5b, 5c	If an acquisition is a repeat because an earlier acquisition was unsatisfactory, this may be recorded along with a coded reason and the earlier acquisition's irradiation event UID. This is intended to help with subsequent analysis by providing a priori information about why the exam might be flagged as an outlier with higher dose exposure values than usual for the type of study.
<u>Rows 5d, 5e</u>	<u>If an acquisition is a rejected because it was unsatisfactory, this may be recorded along with a coded reason. This is intended to help with subsequent analysis by providing a priori information about why the exam might be flagged as an outlier with higher dose exposure values than usual for the type of exam.</u>
Row 6	The DateTime that the application of X-Rays started for this irradiation event. 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".

**Table TID 10013. CT Irradiation Event Data**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
6d	>	CONTAINS	CODE	EV (128551, DCM, "Is Repeated Acquisition")	1	U		DCID 231 "Yes-No Only"
6e	>>	HAS CONCEPT MOD	CODE	EV (128552, DCM, "Reason for Repeating Acquisition")	1	MC	IFF value of Row 6d = (373066001, SCT, "Yes")	DCID 10034 "Reason for Repeating Acquisition" <u>DCID 7011 "Rejected for Quality Reasons"</u>
6e1	>>	HAS PROPERTIES	UIDREF	EV (113769, DCM, "Irradiation Event UID")	1	UC	IFF value of Row 6d = (373066001, SCT, "Yes")	
<u>6e2</u>	<u>≥</u>	<u>CONTAINS</u>	<u>CODE</u>	<u>EV (130503, DCM, "Is Rejected Acquisition")</u>	<u>1</u>	<u>U</u>		<u>DCID 231 "Yes-No Only"</u>

<u>6e3</u>	>>	<u>HAS CONCEPT MOD</u>	<u>CODE</u>	<u>EV (130504, DCM, "Reason for Rejecting Acquisition")</u>	<u>1</u>	<u>MC</u>	<u>IFF value of Row 6e2 = (373066001, SCT, "Yes")</u>	<u>DCID 10034 "Reason for Repeating Acquisition"</u> <u>DCID 7011 "Rejected for Quality Reasons"</u>
6f	>	CONTAINS	DATETIME	EV (111526, DCM, "DateTime Started")	1	U		
...								

#### Content Item Descriptions

...	
Rows <u>6d</u> , 6e, 6e1	If an acquisition is a repeat because an earlier acquisition was unsatisfactory, this may be recorded along with a coded reason and the earlier acquisition's irradiation event UID. This is intended to help with subsequent analysis by providing a priori information about why the study might be flagged as an outlier with higher dose exposure values than usual for the type of study.
<u>Row 6e2, 6e3</u>	<u>If an acquisition is a rejected because it was unsatisfactory, this may be recorded along with a coded reason. This is intended to help with subsequent analysis by providing a priori information about why the study might be flagged as an outlier with higher dose exposure values than usual for the type of study.</u>
Row 6f	The DateTime that the application of X-Rays started for this irradiation event. This shall correspond to the start of the first irradiation in the Irradiation Event, which defines the starting point for the calculation of the contents of the Row 21 "CT Dose" CONTAINER.

*TID 10042 of Enhanced RDSR is provided below for information only:*

**Table TID 10042. Irradiation Event Summary Data**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
...								
18	>	CONTAINS	CODE	EV (128551, DCM, "Is Repeated Acquisition")	1	U		DCID 231 "Yes-No Only"
19	>>	HAS CONCEPT MOD	CODE	EV (128552, DCM, "Reason for Repeating Acquisition")	1	MC	IFF value of Row 18 = (373066001, SCT, "Yes")	DCID 10034 "Reason for Repeating Acquisition" DCID 7011 "Rejected for Quality Reasons"
20	>>	CONTAINS	UIDREF	EV (113769, DCM, "Irradiation Event UID")	1	UC	IFF value of Row 18 = (373066001, SCT, "Yes")	
21	>	CONTAINS	CODE	EV (130503, DCM, "Is Rejected Acquisition")	1	U		DCID 231 "Yes-No Only"

22	>>	HAS CONCEPT MOD	CODE	EV (130504, DCM, "Reason for Rejecting Acquisition")	1	MC	IFF value of Row 21 = (373066001, SCT, "Yes")	DCID 10034 "Reason for Repeating Acquisition"  DCID 7011 "Rejected for Quality Reasons"
...								

#### Content Item Descriptions

...	
Rows 18, 19, 20	If an acquisition is a repeat because an earlier acquisition was unsatisfactory, this may be recorded along with a coded reason and the earlier acquisition's irradiation event UID. This is intended to help with subsequent analysis by providing a priori information about why the exam might be flagged as an outlier with higher dose exposure values than usual for the type of exam.
Rows 21, 22	If an acquisition is a rejected because it was unsatisfactory, this may be recorded along with a coded reason. This is intended to help with subsequent analysis by providing a priori information about why the exam might be flagged as an outlier with higher dose exposure values than usual for the type of exam.
...	