

### DICOM Correction Proposal Form

Tracking Information - Administration Use Only	
Correction Proposal Number	CP-1770
STATUS	Voting Package January 2019
Date of Last Update	2018-11-08
Person Assigned	Bjorn Nolte
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Submission date	08/12/2017

Correction Number	CP- 1770
Log Summary: Add more compression information to X-Ray Radiation Dose SR	
Type of Modification	Name of Standard
Addition	PS 3.16 - 2017
Rationale for Correction: Compression force is needed in Dose SR for documentation in mammography screening; inadequate compression influences image quality or may result in higher patient X-ray dose. Therefore we should add Compression Force as well as the newly defined Compression Pressure and Compression Contact Area (see CP-1679) to X-Ray Radiation Dose SR for Mammography.	
Sections of documents affected PS 3.16	
Correction Wording:	

*Amend PS 3.16 to add Compression values to TID 10003C*

### TID 10003C Irradiation Event X-Ray Mechanical Data

This Template contains data that is expected to be available to the gantry or mechanical component of the equipment.

Type: Extensible  
 Order: Non-Significant  
 Root: No

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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CODE	EV (113956, DCM, "CR/DR Mechanical Configuration")	1	U		DCID 10031 "CR/DR Mechanical Configuration"
2			NUM	EV (112011, DCM, "Positioner Primary Angle")	1	UC	XOR Row 6	UNITS = EV (deg, UCUM, "deg")
3			NUM	EV (112012, DCM, "Positioner Secondary Angle")	1	UC	XOR Row 6	UNITS = EV (deg, UCUM, "deg")
4			NUM	EV (113739, DCM, "Positioner Primary End Angle")	1	UC	IFF TID (10003) Row 7 value = (113613, DCM, "Rotational Acquisition")	UNITS = EV (deg, UCUM, "deg")
5			NUM	EV (113740, DCM, "Positioner Secondary End Angle")	1	UC	IFF TID (10003) Row 7 value = (113613, DCM, "Rotational Acquisition")	UNITS = EV (deg, UCUM, "deg")
6			NUM	EV (113770, DCM, "Column Angulation")	1	UC	XOR Rows 2, 3	UNITS = EV (deg, UCUM, "deg")
7			NUM	EV (113754, DCM, "Table Head Tilt Angle")	1	U		UNITS = EV (deg, UCUM, "deg")
8			NUM	EV (113755, DCM, "Table Horizontal Rotation Angle")	1	U		UNITS = EV (deg, UCUM, "deg")
9			NUM	EV (113756, DCM, "Table Cradle Tilt Angle")	1	U		UNITS = EV (deg, UCUM, "deg")
10			NUM	EV (111633, DCM, "Compression Thickness")	1	U		UNITS = EV (mm, UCUM, "mm")
<u>10</u> <u>a</u>			<u>NUM</u>	<u>EV (1116x1, DCM, "Compression Force")</u>	<u>1</u>	<u>U</u>		<u>UNITS = EV (N, UCUM, "Newton")</u>
<u>10</u> <u>b</u>			<u>NUM</u>	<u>EV (1116x2, DCM, "Compression Pressure")</u>	<u>1</u>	<u>U</u>		<u>UNITS = EV (kPa, UCUM, "kilopascal")</u>

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
<u>10</u> <u>c</u>			<u>NUM</u>	<u>EV (1116x3, DCM, "Compression Contact Area")</u>	<u>1</u>	<u>U</u>		<u>UNITS = EV (mm2, UCUM, "mm2")</u>
11			NUM	DCID 10008 "Dose Related Distance Measurements"	1-n	U		UNITS = EV (mm, UCUM, "mm")

*Amend PS 3.16 Annex D to add definitions:*

<u>1116x1</u>	<u>Compression Force</u>	<u>The compression force applied to the body part during exposure.</u>	
<u>1116x2</u>	<u>Compression Pressure</u>	<u>The average compression pressure applied to the body part during exposure.</u>	
<u>1116x3</u>	<u>Compression Contact Area</u>	<u>The area of the body part to which compression has been applied during exposure.</u>	