

DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2013/01/29
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Correction Number	CP- 1201
Log Summary: Correct Calibration Factor CI Definition (TID 10002)	
Name of Standard PS 16 2011, and CP 1077 (possibly)	
<p>Rationale for Correction:</p> <p>The Annex D definition of “Calibration Factor” in Part 16 is well aligned with the “Correction Factor” defined in IEC PAS 61910-1, however the description of Row 6 in TID 10002 is misleading about how it should be applied to projection X-ray dose data.</p> <p>Consider three steps:</p> <ul style="list-style-type: none"> • Dose meter calibration, which is assumed to be done by the modality in order to create measured values within a certain range of accuracy. • Recording of measured values in an RDSR • Application of the Calibration Factor to measured values to obtain estimated real-world values. <p>The RDSR records the measured values (second bullet) and the Calibration Factor (third bullet).</p> <p>The Calibration Factor is generated by a responsible Medical Physicist calibrating the system according to their dose metric. The Calibration Factor is recorded in the RDSR, but must not be applied to the values before storing them in the Dose SR, rather it may be applied later (e.g. during evaluation).</p>	
Correction Wording:	

Information only: Definition of the Correction Factor in IEC PAS 61910-1

Correction Factor	Average correction factor over the range of energies during normal use of the equipment. This factor is greater than 1 if the actual dose or KAP exceeds the displayed (recorded) value.	Within the RDSR Container
	Current DICOM terminology calls this “Calibration Factor”	

Information only: The definition in PS 16 2011, Annex D is aligned with the PAS

122322	Calibration Factor	Factor by which a measured or calculated value is multiplied to obtain the estimated real-world	
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Correct the Wording in Content Item Description of Row 6 under TID 10002

Row 5	Date that the calibration of the equipment's dose indicators was performed
Row 6	<p>Typically a value provided by the medical physicist. Factor by which the measured dose area product total was multiplied to obtain the Dose Area Product Total (Row 10). The recorded dose or dose area product values in this report can be multiplied by this factor to obtain estimated real-world values.</p> <p>Note: <u>It is important that this value must not be applied to the measured values before storing them in the report.</u></p>
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