

DICOM Correction Proposal

STATUS	Assigned
Date of Last Update	2016/04/01
Person Assigned	Björn Nolte
Submitter Name	Harry Solomon
Submission Date	2016/02/22

Correction Number	CP- 1599
Log Summary:	Add IEC References for MR
Name of Standard	PS3.3
Rationale for Correction:	Many of the Defined Terms for MR use concepts from IEC 60601-2-33, but that standard is not formally referenced (yet)
Correction Wording:	

Amend PS3.3 Section C.8.13.5.2

Table C.8-89. MR Timing and Related Parameters Macro Attributes

Attribute Name	Tag	Type	Attribute Description
MR Timing and Related Parameters Sequence	(0018,9112)	1	Identifies the timing and safety information of this frame. Only a single Item shall be included in this Sequence.
...			
>Specific Absorption Rate Sequence	(0018,9239)	1C	Sequence containing the methods of SAR calculation and the corresponding values. One or more Items shall be included in this Sequence. Required if the system is capable of calculating Specific Absorption Rate (0018,9181).
>>Specific Absorption Rate Definition	(0018,9179)	1	Specification of the method of SAR calculation as defined in Applicable Safety Standard Description (0018,9174). Defined Terms: IEC_WHOLE_BODY <u>[IEC 60601-2-33] Clause 201.3.241</u> IEC_PARTIAL_BODY <u>[IEC 60601-2-33] Clause 201.3.225</u> IEC_HEAD <u>[IEC 60601-2-33] Clause 201.3.212</u> IEC_LOCAL <u>[IEC 60601-2-33] Clause 201.3.216</u>
>>>Specific Absorption Rate Value	(0018,9181)	1	Specific Absorption Rate in W/kg.

Attribute Name	Tag	Type	Attribute Description
>Gradient Output Type	(0018,9180)	1C	<p>Definition of gradient output unit, for which the value is stored in Gradient Output (0018,9182).</p> <p>Defined Terms:</p> <p>DB_DT in T/s ELECTRIC_FIELD in V/m PER_NERVE_STIM percentage of peripheral nerve stimulation</p> <p>Required if the system is capable of calculating Gradient Output (0018,9182).</p>
>Gradient Output	(0018,9182)	1C	<p>Unit is defined by Gradient Output Type (0018,9180).</p> <p>Required if the system is capable of calculating Gradient Output (0018,9182).</p>
>Operating Mode Sequence	(0018,9176)	1C	<p>Sequence of operating mode information relating to the frame/SOP instance as required to adhere to the Applicable Safety Standard Agency (0018,9174) regulations.</p> <p>One or more Items shall be included in this Sequence.</p> <p>Required if required by law or regulations. May be present otherwise.</p>
>>Operating Mode Type	(0018,9177)	1	<p>Defined Terms:</p> <p>STATIC FIELD RF GRADIENT</p>
>>Operating Mode	(0018,9178)	1	<p>Operating mode applicable for the defined by the applicable standard.</p> <p>Defined Terms:</p> <p>IEC_NORMAL <u>[IEC 60601-2-33] Clause 201.3.224</u> IEC_FIRST_LEVEL <u>[IEC 60601-2-33] Clause 201.3.208</u> IEC_SECOND_LEVEL <u>[IEC 60601-2-33] Clause 201.3.231</u></p>