

Correction Number		CP-77																	
Log Summary: Wrong VR for exposure parameters																			
Type of Modification Change of VR		Name of Standard PS 3.3,3.6 - 1996																	
<p>Rationale for Correction: A number of Image Modules contain the following X-ray exposure attributes:</p> <ul style="list-style-type: none"> - Exposure Time (0018,1150) - X-ray Tube Current (0018,1151) - Exposure (0018,1152) <p>All three attributes have the VR IS (Integer String). For CR the numerical values for the "Exposure" attribute start at low figures, e.g. at .5 mAs and should be represented with only 5% inaccuracy. This requires necessarily the representation of fractions, which is not possible with the current VR, or the use of another measuring unit.</p> <p>Note 1: In ACR-NEMA V 2.0 the three attribute were represented as "AN" (ASCII Numeric), which included decimal point markers and floating point numbers. Note 2: In DICOM the attribute "KVP" has the VR DS (Decimal String). That is unnecessary as the values are always integers.</p>																			
<p>Sections of Document Affected:</p> <p>PS 3.3-1996, Section C.8.1.2 CR Image Module PS 3.6-1996, Section 6: Registry of DICOM data elements</p>																			
<p>Correction Wording:</p> <p>Add an additional attribute to Table C.8.2: "CR Image Module Attributes":</p> <table border="1"> <thead> <tr> <th><u>Attribute Name</u></th> <th><u>Tag</u></th> <th><u>Type</u></th> <th><u>Attribute Description</u></th> </tr> </thead> <tbody> <tr> <td>Exposure in μAs</td> <td>(0018,1153)</td> <td>3</td> <td>The product of exposure time and x-ray tube current expressed in μAs</td> </tr> </tbody> </table> <p>Add the following attribute to Part 6:</p> <table border="1"> <thead> <tr> <th><u>Attribute Name</u></th> <th><u>Tag</u></th> <th><u>VR</u></th> <th><u>VM</u></th> </tr> </thead> <tbody> <tr> <td>Exposure in μAs</td> <td>(0018,1153)</td> <td>IS</td> <td>1</td> </tr> </tbody> </table>				<u>Attribute Name</u>	<u>Tag</u>	<u>Type</u>	<u>Attribute Description</u>	Exposure in μ As	(0018,1153)	3	The product of exposure time and x-ray tube current expressed in μ As	<u>Attribute Name</u>	<u>Tag</u>	<u>VR</u>	<u>VM</u>	Exposure in μ As	(0018,1153)	IS	1
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