

DICOM Correction Proposal

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| STATUS | Submitted |
| Date of Last Update | 2016/11/07 |
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| Submission Date | 2016/05/31 |

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| Correction Number | CP-1643 |
| Log Summary: Change type of Signal Noise Ratio for Ophthalmic Axial Measurements Related Information Macro | |
| Name of Standard | PS 3 2016d |
| <p>Rationale for Correction:</p> <p>Ophthalmic Axial Measurements IOD defines the Optical Ophthalmic Axial Length Measurements Sequence (0022,1225) and therein the attribute Signal to Noise Ratio (0022,1155) as</p> <p style="text-align: center;"><i>The ratio of signal power to the background noise power (P_{signal} / P_{noise}).</i></p> <p>This attribute is of type 1C with the condition</p> <p style="text-align: center;"><i>Required if Ophthalmic Axial Length Measurements Type (0022,1010) is TOTAL LENGTH. May be present otherwise.</i></p> <p>Signal to noise ratio is a quality metric typically provided by A-scan based optical biometry devices. However, OCT based axial length measurement technology does not necessarily provide such quality metric and thus such devices cannot set this value.</p> <p>For this reason the type for Signal to Noise Ratio (0022,1155) should be changed to 3.</p> | |
| Correction Wording: | |

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| <i>Change the type for Signal to Noise Ratio (0022,1155) to 3 in Table C.8.25.14-4</i> |
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Table C.8.25.14-4. Ophthalmic Axial Measurements Related Information Macro Attributes

| Attribute Name | Tag | Type | Attribute Description |
|---|-------------|--------------------|---|
| ... | | | |
| Optical Ophthalmic Axial Length Measurements Sequence | (0022,1225) | 1C | <p>Related information about an axial length measurement being performed on an optical device.</p> <p>Only a single Item shall be included in this Sequence.</p> <p>Required if Ophthalmic Axial Measurements Device Type (0022,1009) is OPTICAL.</p> |
| >Signal to Noise Ratio | (0022,1155) | 1C 3 | <p>The ratio of signal power to the background noise power ($P_{\text{signal}} / P_{\text{noise}}$).</p> <p>Required if Ophthalmic Axial Length Measurements Type (0022,1010) is TOTAL LENGTH. May be present otherwise.</p> |
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