

DICOM Correction Proposal

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| STATUS | Final Text |
| Date of Last Update | 2018/11/10 |
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| Submission Date | 2017/10/24 |

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| Correction Number | CP-1746 |
| Log Summary: | Add a new code to CID 4270 OCT-A Algorithm Families for ratio analysis |
| Name of Standard | PS3.16 2018d |
| Rationale for Correction: | A new algorithm family is being used in the OCT-A eye care domain to perform "ratio analysis". |
| Correction Wording: | |

Update CID 4270 to include new code for OCT-A ratio analysis

CID 4270 OCT-A Processing Algorithm Families

Type: Extensible
 Version: ~~20170405~~ 20181110
 UID: 1.2.840.10008.6.1.1150

Table CID 4270. OCT-A Processing Algorithm Families

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|----------------------|---|
| DCM | 128252 | OCT-A amplitude decorrelation |
| DCM | 128253 | OCT-A complex variance |
| DCM | 128254 | OCT-A speckle variance |
| DCM | 128255 | OCT-A correlation mapping |
| DCM | 128256 | Doppler OCT-A |
| <u>DCM</u> | <u>128304</u> | <u>OCT-A one-sided ratio (lesser)</u> |
| <u>DCM</u> | <u>128305</u> | <u>OCT-A one-sided ratio (greater)</u> |

Update Annex D to include definition of OCT-A ratio analysis

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| 128255 | OCT-A correlation mapping | OCT angiography method that differentiates flow regions. Static regions usually have high correlation values while flow regions have lower correlation values. | |
| 128256 | Doppler OCT-A | OCT angiography method that utilizes the Doppler phase resolved information to provide the velocity of flow. Sometimes referred to as the phase variance method. | |
| <u>128304</u> | <u>OCT-A one-sided ratio (lesser)</u> | <u>OCT angiography method that utilizes a one-sided ratio on a pixel by pixel basis between various combinations of B-scan repetitions. The ratio is inverted when necessary such that values are less than or equal to one. Individual ratio calculations are averaged or combined across eligible frame combinations for each pixel in the OCT image.</u> | |
| <u>128305</u> | <u>OCT-A one-sided ratio (greater)</u> | <u>OCT angiography method that utilizes a one-sided ratio on a pixel by pixel basis between various combinations of B-scan repetitions. The ratio is inverted when necessary such that values are greater than or equal to one. Individual ratio calculations are averaged or combined across eligible frame combinations for each pixel in the OCT image.</u> | |