

## DICOM Correction Item

|  |  |                  |  |
|--|--|------------------|--|
| Correction Number  |  | CP-850           |  |
| Log Summary: Add keywords to data dictionary   |  |                  |  |
| Type of Modification   |  | Name of Standard |  |
| Correction   |  | PS 3.6, 3.7 2008 |  |
| Rationale for Correction   |  |                  |  |
| Many tools and toolkits for DICOM data make use of keywords rather than full descriptions or group and element tags for convenience, to increase readability and to reduce error. It is desirable for there to be a common definition and form of keywords maintained in the standard. |  |                  |  |
| Sections of documents affected   |  |                  |  |
| PS 3.6 Sections 6, 7 and 8   |  |                  |  |
| PS 3.7 Annex E   |  |                  |  |
| Correction Wording:  |  |                  |  |

*Instruction to the editor for each table in PS 3.6 Sections 6, 7 and 8 and PS 3.7 Annex E:*

- *add a column entitled “Keyword” to the table*
- *for each element in the table, insert text in the Keyword column derived from the text in the Name column (Message Field column in PS 3.7) such that:*
  - *white space and punctuation is removed (e.g., “View Number” becomes “ViewNumber”)*
  - *words are capitalized (e.g., “Number of Stages” becomes “NumberOfStages”) except when the capitalization indicates a unit modifier and is significant (e.g. “Exposure Time in ms” becomes “ExposureTimeInms”)*
  - *singular/plural alternative forms are made plural (e.g., “Physician(s) of Record” becomes “PhysiciansOfRecord”)*
  - *possive indication is elided without losing plurality consistent with specified value multiplicity (e.g., “Patient’s Name” becomes “PatientName” (VM=1) but “Operators’ Name” becomes “OperatorsName” (VM=1-n))*
  - *non-alpha numeric characters are replaced with an appropriate alternative (e.g., “μ” becomes “u” such that “Exposure Time in μS” becomes “ExposureTimeInuS”)*
  - *subscripts and superscripts are made normal style (e.g., “Reference Pixel X<sub>0</sub>” becomes “ReferencePixelX0”)*

*For example:*

| <b>Tag</b>  | <b>Name</b>   | <b><u>Keyword</u></b>     | <b>VR</b> | <b>VM</b> |
|-------------|---------------|---------------------------|-----------|-----------|
| (0008,0001) | Length to End | <b><u>LengthToEnd</u></b> | UL        | 1 RET     |

CP-850  
Add keywords to data dictionary

Date: 2008/10/27  
Final Text

|             |                         |                                    |    |     |            |
|-------------|-------------------------|------------------------------------|----|-----|------------|
| (0008,0005) | Specific Character Set  | <b><u>SpecificCharacterSet</u></b> | CS | 1-n |            |
| (0008,0008) | Image Type              | <b><u>ImageType</u></b>            | CS | 2-n |            |
| (0008,0010) | <i>Recognition Code</i> | <b><u>RecognitionCode</u></b>      | CS | 1   | <i>RET</i> |