

DICOM Correction Item

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| Correction Number | | CP-587 |
| Log Summary: Add display set justification to hanging protocols | | |
| Type of Modification | Name of Standard | |
| Addition | PS 3.3 2004 + Sup 60 | |
| Rationale for Correction | | |
| <p>Hanging protocols for mammography are required to not only rotate and/or flip an image to a particular orientation within a viewport, but also to justify the image to one side or the other rather than center it if the viewport is a different shape from the image. This results in the typical "back to back" display expected by the users.</p> <p>This CP proposes to add optional attributes for horizontal and vertical justification intent.</p> | | |
| Sections of documents affected | | |
| PS 3.3 C.X.3 (Sup 60) | | |
| Correction Wording: | | |

C.X.3 Hanging Protocol Display Module

Table C.X.3-1 specifies the Attributes that describe operations (filter, reformat, sort, presentation intent), layout and interactions for a Hanging Protocol. See the Hanging Protocols informative annex (PS 3.17) for further explanation.

**Table C.X.3-1
 Hanging Protocol Display Module Attributes**

| Attribute Name | Tag | Type | Attribute Description |
|--|---------------------------|-----------------|---|
| Display Sets Sequence | (0072,0200) | 1 | Sequence that describes one or more display sets used to present the Image Sets defined in the Image Sets Sequence (0072,0020). One or more sequence items shall be present. See C.X.3.1. |
| ... | ... | ... | ... |
| >Display Set Patient Orientation | (0072,0700) | 3 | Patient direction of the rows and columns of the images, as intended for display. See C.X.3.1.4. |
| <u>>Display Set Horizontal Justification</u> | <u>(0072,XXX1)</u> | <u>3</u> | <p><u>Whether or not, and in which direction, to horizontally justify the image within a viewport that is not the same shape (aspect ratio) as the image. Enumerated Values:</u></p> <p style="text-align: center;"> <u>LEFT</u> <u>CENTER</u> <u>RIGHT</u> </p> <p><u>Note: Typically used in mammography display applications in which images from the patient's left and right are displayed "back to back", rather than centered.</u></p> |

| Attribute Name | Tag | Type | Attribute Description |
|---|--------------------|----------|--|
| <u>>Display Set Vertical Justification</u> | <u>(0072,XXX2)</u> | <u>3</u> | <p><u>Whether or not, and in which direction, to vertically justify the image within a viewport that is not the same shape (aspect ratio) as the image. Enumerated Values:</u></p> <p><u>TOP</u></p> <p><u>CENTER</u></p> <p><u>BOTTOM</u></p> |
| >VOI Type | (0072,0702) | 3 | <p>Expected value of interest transformation for display (e.g., Window Center and Window Width or VOI LUT).</p> <p>Defined Terms:</p> <p>LUNG</p> <p>MEDIASTINUM</p> <p>ABDO_PELVIS</p> <p>LIVER</p> <p>SOFT_TISSUE</p> <p>BONE</p> <p>BRAIN</p> <p>POST_FOSSA</p> |