

## DICOM Correction Item

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.
<b>&gt;Display Set Horizontal Justification</b>	<b>(0072,0717)</b>	<b>3</b>	<p><b><u>Indicates direction in which to horizontally justify the image within a viewport that is not the same shape (aspect ratio) as the image.</u></b></p> <p><b><u>Enumerated Values:</u></b></p> <p style="text-align: center;"><b>LEFT</b></p> <p style="text-align: center;"><b>CENTER</b></p> <p style="text-align: center;"><b>RIGHT</b></p> <p><b><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></b></p>

Attribute Name	Tag	Type	Attribute Description
>Display Set Vertical Justification	(0072,0718)	3	<p><b><u>Indicates direction in which to vertically justify the image within a viewport that is not the same shape (aspect ratio) as the image.</u></b></p> <p><b><u>Enumerated Values:</u></b></p> <p>_____ TOP            _____ CENTER            _____ BOTTOM</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:            LUNG            MEDIASTINUM            ABDO_PELVIS            LIVER            SOFT_TISSUE            BONE            BRAIN            POST_FOSSA</p>

Add the new attributes to the PS 3.6 Data Dictionary:

Tag	Name	VR	VM
(0072,0717)	Display Set Horizontal Justification	CS	1
(0072,0718)	Display Set Vertical Justification	CS	1