

DICOM Correction Item

Correction Number CP-481	
Log Summary: Conflicting text in Fiducials Object	
Type of Modification	Name of Standard
Clarification	PS3.3 - 2004
Rationale for Correction: The description of some attributes are conflicting in their inclusion requirements.	
PS 3.3, C.21.2 (Spatial Fiducials Module)	
Correction Wording:	

In PS 3.3, Section C.21.2.1.1 (Shape Type), insert text as follows:

C.21.2.1.1 Shape Type

For convenient registration, correlated Fiducials exist in each image set of the Registration Sequence. Correlated Fiducials are identified with either Fiducial Identifier (0070,0310) or Fiducial Identifier Code Sequence (0070,0311).

Shape Type (0070,0306) defines the geometric interpretation of the Contour Data (3006,0050) **and Graphic Data (0070,0022). A point is defined as a triplet (x,y,z) in the case of spatial data or a pair (x,y) in the case of graphic data.**

Defined Terms are:

POINT = a single ~~triplet (x,y,z)~~ **point** designating a single fiducial point.

Note: A point may be the epicenter of a more complex shape such as sphere.

LINE = two points that specify a line or axis such as the inter-orbital line. The point locations have no significance other than identifying the line, i.e. they are not line segment end points.

PLANE = three points that identify a plane such as the laterality plane

SURFACE = three or more points (usually many) that reside on, or near, a region of a curved surface. The surface may be flat or curved, closed or open. The point order has no significance.

RULER = two or more evenly spaced collinear points ordered sequentially along the line, such as a physical ruler placed in the imaging field.

L-SHAPE = three points of two perpendicular line segments, AB and BC, having a common end point B. The order of the points is: ABC. May represent an L-shaped marker placed in the imaging field.

T-SHAPE = three points of two perpendicular line segments AB and CD, such that C bisects AB. The order is ABD.

SHAPE = three or more points that specify the shape of a well-known fiducial type. The term in the Fiducial Identifier Code Sequence (0070,0311) defines the shape and the order of the points that represent it.

In PS 3.3, Section C.21.2 (Spatial Fiducials Module), Table C.21.2-1 (Spatial Fiducials Module Attributes) modify the following attributes:

Attribute Name	Tag	Type	Attribute Description
>>>Graphic data	(0070,0022)	1	Graphic point coordinates of the fiducial points in the

		<p>image of the Referenced Image Sequence. The points correlate to Fiducial's Contour Data (3006,0050), if present, If Fiducial's Contour Data (3006,0050) is present, these points correlate to the points in the Contour Data. one row-column pair for each point and in the same order.</p> <p>See C.10.5.1.2 for further explanation.</p>
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