

1	Status	Letter Ballot
2	Date of Last Update	2024/03/21
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7	Submission Date	2023/11/07

8	Correction Number CP-2380	
9	Log Summary: Clarify single row or column or pixel data PixelSpacing value is zero	
10	Name of Standard	
11	PS3.3	
12	Rationale for Correction:	
13	When there is only a single row or column or pixel of data present, the corresponding value of PixelSpacing should be required to be zero, not just allowed to be zero. There is no reason to allow it to be other than zero.	
14		
15	Correction Wording:	

Amend DICOM PS3.3 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

10.7.1.3 Pixel Spacing Value Order and Valid Values

All pixel spacing related Attributes are encoded as the physical distance between the centers of each two-dimensional pixel, specified by two numeric values.

...

All pixel spacing related Attributes shall have positive non-zero values, except when there is only a single row or column or pixel of data present, in which case the corresponding value ~~may~~shall be zero.

Note

A single row or column or "pixel" may occur in MR Spectroscopy Instances.

This description applies to:

- Pixel Spacing (0028,0030)
- Imager Pixel Spacing (0018,1164)
- Nominal Scanned Pixel Spacing (0018,2010)
- Image Plane Pixel Spacing (3002,0011)
- Compensator Pixel Spacing (300A,00E9)
- Detector Element Spacing (0018,7022)
- Presentation Pixel Spacing (0070,0101)
- Printer Pixel Spacing (2010,0376)
- Object Pixel Spacing in Center of Beam (0018,9404)