

## DICOM Correction Item

Correction Number CP-276	
Log Summary: General numeric measurement template	
Type of Modification	Name of Standard
Clarification	PS 3.16
<p>Rationale for Correction</p> <p>The Templates specified for numeric measurement under TID 2001 do not provide for the full range of types of measurements made on images.</p> <ol style="list-style-type: none"> <li>1. The concept categories of linear, area, and volume measurements do not provide for angle, velocity, density, counts of objects, quality ratings, and other categories of numeric measurements that are commonly derived from images. This CP provides a general Numeric Measurements template for these other categories of measurements.</li> <li>2. Measurements should be able to be inferred from referenced images without SCOORDs (which may be meaningless for particular classes of measurements, e.g., quality ratings). The proposed general Numeric Measurements template provides for inference directly from an image without an SCOORD.</li> </ol> <p>Note that TID 2001 is Non-extensible; however, as emphasized in the rationale of CP 275, Non-extensibility is a property that applies to an application's use of the template, not to the ability for the standard to evolve. The DICOM standard <i>must</i> be able to be corrected or updated in its template definitions under DSC procedures of Change Proposals and Supplements.</p>	
Sections of documents affected	
PS 3.16 Annex A and B	
Correction Wording:	

**Add Template TID 1404 to PS3.16 Annex A**

### TID 1404 Numeric Measurement Template

**Type: Extensible**

#### TID 1404 NUMERIC MEASUREMENT

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			NUM	No baseline CID	1	M		Units = DCID (82) Units of Measurement
2	>	INFERRED FROM	SCOORD	No baseline CID	1-n	UC	XOR Row 5, 6	
3	>>	R-SELECTED FROM	IMAGE		1	MC	XOR Row 4	
4	>>	SELECTED FROM	IMAGE		1	MC	XOR Row 3	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
5	>	R-INFERRED FROM	IMAGE	BCID (7003) Diagnostic Imaging Report Purposes of Reference	1-n	UC	XOR Row 2,6	
6	>	INFERRED FROM	IMAGE	BCID (7003) Diagnostic Imaging Report Purposes of Reference	1-n	U	XOR Row 2,5	

**TID 1404 Content Item Descriptions**

Row 2 The SCOORD may indicate the points or area where the measurement was taken (e.g., a POINT showing the pixel location of a density measurement, or an open POLYLINE of three points showing the calculation of an angle).

Rows 3,5 Valid only in IODs that permit relationships by-reference.

**Update PS3.16 Annex A Template TID 2001**

**TID 2001 Basic Diagnostic Imaging Report Observations**

Individual numeric or image observations that may be useful for inclusion as individual findings or as the source of inferences in a report.

**Type: Non-Extensible**

**TID 2001  
 BASIC DIAGNOSTIC IMAGING REPORT OBSERVATIONS**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			IMAGE	BCID(7003) Diagnostic Imaging Report Purposes of Reference	1	MC	XOR Rows 2,3,4, <u>5</u>	
2			INCLUDE	TID(1400) Linear Measurements	1	MC	XOR Rows 1,3,4, <u>5</u> .  Shall not be present if the NUM value type is not supported by the IOD.	
3			INCLUDE	TID(1401) Area Measurements	1	MC	XOR Rows 1,2,4, <u>5</u> .  Shall not be present if the NUM value type is not supported by the IOD.	
4			INCLUDE	TID(1402) Volume Measurements	1	MC	XOR Rows 1,2,3, <u>5</u> .  Shall not be present if the NUM value type is not supported by the IOD.	
5			<u>INCLUDE</u>	<u>TID(1404) Numeric Measurements</u>	1	<u>MC</u>	<u>XOR Rows 1,2,3,4.</u>  <u>Shall not be present if the NUM value type is not supported by the IOD.</u>	