

DICOM Correction Proposal Form

Correction Number CP-260	
Log Summary: Add Numeric Measurement Qualifier	
Type of Modification Clarification	Name of Standard PS 3.3-2000
<p>Rationale for Correction</p> <p>Initial experience with DICOM Structured Reporting has identified a problem with the NUM Value Type.</p> <p>If the value is unknown or non-computable, the standard allows the Measured Value Sequence that encodes the NUM to be an empty sequence. This is good. However, it is important for the Content Item to also carry the reason for the absence of a value; this is provided with a new optional coded entry sequence.</p>	
<p>Sections of documents affected</p> <p>PS 3.3, Section C.18</p> <p>PS 3.6, Section 6</p> <p>PS 3.16, Section B</p>	
Correction Wording:	

C.18.1 Numeric Measurement Macro

Table C.18.1-1 specifies the Attributes that convey a NUM (numeric measurement) value.

Note: The Measured Value Sequence (0040,A300) may be empty to convey the concept of a measurement whose value is unknown or missing, **or a measurement or calculation failure.**

**Table C.18.1-1
NUMERIC MEASUREMENT MACRO ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Measured Value Sequence	(0040,A300)	2	This is the value of the Content Item. Shall consist of a Sequence of Items conveying the measured value(s), which represent integers or real numbers and units of measurement. Zero or one Items shall be permitted in this sequence.
>Numeric Value	(0040,A30A)	1	Numeric measurement value. Only a single value shall be present.
>Measurement Units Code Sequence	(0040,08EA)	1	Units of measurement. Only a single Item shall be permitted in this sequence.
>>Include 'Code Sequence Macro' Table 8.8-1			Defined Context ID is 82.
<u>Number Qualifier Code Sequence</u>	<u>(0040,A301)</u>	<u>3</u>	<u>Qualification of Numeric Value in Measured Value Sequence, or reason for absence of Measured Value Sequence Item. Only a single Item shall be permitted in this sequence.</u>
>Include 'Code Sequence Macro' Table 8.8-1			Defined Context ID is 42.

Tag	Name	VR	VM	
(0040,A301)	Number Qualifier Code Sequence	SQ	<u>1</u>	

**CID 42
Number Qualifier**

Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)
DCM	x0	Not a number
DCM	x1	Negative Infinity
DCM	x2	Positive Infinity
DCM	x3	Divide by zero
DCM	x4	Underflow
DCM	x5	Overflow
DCM	x6	Measurement failure
DCM	x7	Measurement not attempted
DCM	x8	Calculation failure
DCM	x9	Value out of range
DCM	x10	Value unknown
DCM	x11	Value indeterminate