

1	Status	Submitted
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7	Submission Date	2019/02/28

8	Correction Number CP-1903	
9	Log Summary: Add laterality parameter to TID 300	
10	Name of Standard	
11	PS3.16	
12	Rationale for Correction:	
13	A parameter for Laterality is missing from TID 300, and some invocations may want to specify which laterality is to be used.	
14	Correction Wording:	

Amend DICOM PS3.16 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

TID 300 Measurement

This Template provides a general structure for a numeric measurement, together with evaluations of its normality and/or significance, and the inference source(s) for its value. This structure is instantiated by inclusion of this Template with specific contextual parameters from a parent Template.

Table TID 300. Parameters

Parameter Name	Parameter Usage
\$Measurement	Coded term or Context Group for Concept Name of measurement
\$Units	Units of Measurement
\$ModType	Modifier Name for Concept Name of measurement
\$ModValue	Modifier Value for Concept Name of measurement
\$Method	Value for Measurement Method
\$Derivation	Value for Measurement Derivation
\$TargetSite	Value(s) for Anatomic Location of measurement
<u>\$TargetSiteLaterality</u>	<u>Laterality Value for Anatomic Location of measurement</u>
\$TargetSiteMod	Modifier Value for Anatomic Location of measurement
\$Equation	Coded term or Context Group for the equation or table from which the measurement was derived or computed
\$ImagePurpose	Purpose of Reference for an image used as a source of the measurement
\$WavePurpose	Purpose of Reference for a waveform used as a source of the measurement
\$RefAuthority	Bibliographic reference or authority for statistical properties of a reference population
\$RangeAuthority	Bibliographic reference or authority for the normal range of the measurement
\$DerivationParameter	Coded term or Context Group for Concept Name of a derivation parameter
\$DerivationParameterUnits	Units of derivation parameter

Type: Extensible
Order: Significant
Root: No

Table TID 300. Measurement

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			NUM	\$Measurement	1	M		UNITS = \$Units
2	>	HAS CONCEPT MOD	CODE	\$ModType	1-n	U		\$ModValue
3	>	HAS CONCEPT MOD	CODE	EV (370129005, SCT, "Measurement Method")	1	U		\$Method
4	>	HAS CONCEPT MOD	CODE	EV (121401, DCM, "Derivation")	1	U		\$Derivation
5	>	HAS CONCEPT MOD	CODE	EV (363698007, SCT, "Finding Site")	1-n	U		\$TargetSite
6	>>	HAS CONCEPT MOD	CODE	EV (272741003, SCT, "Laterality")	1	U		<u>\$TargetSiteLaterality</u> D???

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
7	>>	HAS CONCEPT MOD	CODE	DT (106233006, SCT, "Topographical modifier")	1	U		\$TargetSiteMod
8	>	HAS PROPERTIES	INCLUDE	D???	1	U		\$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority
9	>	INFERRED FROM	NUM	\$DerivationParameter	1-n	UC	XOR Row 10	UNITS = \$DerivationParameterUnits
10	>	R-INFERRED FROM	NUM	\$DerivationParameter	1-n	UC	XOR Row 9	UNITS = \$DerivationParameterUnits
11	>	INFERRED FROM	INCLUDE	D???	1	UC	XOR Row 12	\$Equation = \$Equation
12	>	INFERRED FROM	TEXT	D???	1	UC	XOR Row 11	
13	>		INCLUDE	D???	1-n	U		\$Purpose = \$ImagePurpose
14	>		INCLUDE	D???	1-n	U		\$Purpose = \$WavePurpose
15	>		INCLUDE	D???	1	U		
16	>	HAS CONCEPT MOD	TEXT	EV (121050, DCM, "Equivalent Meaning of Concept Name")	1	U		
17	>	HAS OBS CONTEXT	INCLUDE	D???	1	U		
18	>	INFERRED FROM	COMPOSITE	EV (126100, DCM, "Real World Value Map used for measurement")	1	U		SOP Class UID shall be Real World Value Mapping Storage ("1.2.840.10008.5.1.4.1.1.67")
19	>	HAS CONCEPT MOD	INCLUDE	D???	1	U		

Content Item Descriptions

Rows 2, 3, 4, 5	The HAS CONCEPT MOD items allow the explicit definition of terms for post-coordination of the measurement concept name. Additional post-coordinated modifier terms may be included in a SOP Instance based on this Template, in accordance with section 6.2.4, or as defined by Templates that invoke this Template and explicitly define additional post-coordinated modifiers (e.g., TID 5203).
Row 5	Finding site may be multiple when a region of interest spans multiple anatomical locations and there is not a single pre-coordinated code describing the combination of locations. E.g., when a malignant, inflammatory or traumatic process spans actual or defined anatomical boundaries. There is no requirement that the multiple locations be contiguous.
Rows 9, 10	The INFERRED FROM items allow the specification (by-value or by-reference) of numeric values that were used in the derivation of the numeric measurement of Row 1. The nature of the inference is not explicitly conveyed; it may be implicit in the Concept Names of the measurements. Inference by-reference is valid only in SOP Classes that permit the INFERRED FROM relationship by-reference.
Row 16	Equivalent Meaning of Concept Name allows the creating application to specify the preferred composed concept name representing the measurement and the associated post-coordinated concept modifiers. The concept modifiers may include those specified in this Template, in a Template that invokes this Template, or at the option of the creating application in accordance with section 6.2.4. This composed concept name may be rendered by a display application.

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Row 18	Row 18 is a reference to an RWV that describes how measurements were made in units that differ from the stored pixel values in the images referenced in Row 13. E.g., for a PET SUVbw measurement, the mapping from activity/concentration units in the referenced image that was used (and which may be reused for measurements in the future) may be encoded in a referenced RWV instance. This reference overrides any reference in an including Template (such as for a Measurement Group).
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