

DICOM Correction Item

Correction Number		CP-768
Log Summary: More Vascular Ultrasound Report Terms		
Type of Modification	Names of Standard	
Addition	PS 3.6 – 2009	
	PS 3.16 – 2009	
Rationale for Correction		
This Change Proposal has two folds:		
<ol style="list-style-type: none"> 1. It is common for vascular 2D distance measurements to have measurement orientation modifier such as “Anterior-Posterior”, “Transverse” and “Longitudinal” to further describe these 2D measurements. This Change proposal is to make a new Context Group “Measurement Orientation” and have “TID 5104 -Vascular Ultrasound Measurement Group” refer to it as a new row. 2. It is common to capture “Doppler Angle” and “Sample Volume Depth” measurements while measuring vascular Doppler measurements for each vessel. This proposal is to add “Doppler Angle” and “Sample Volume Depth” measurements to “TID 5104 - Vascular Ultrasound Measurement Group” as two new rows. These two terms have not yet been defined by any other DICOM context group. 		
Sections of documents affected		
PS 3.6 Table A-3		
PS 3.16 Annex C and D		
Correction Wording:		

Add a new Context Group UID to Table A-3 of PS3.6

**Table A-3
 CONTEXT GROUP UID VALUES**

Context UID	Context Identifier	Context Group Name
...		
<u>1.2.840.10008.6.1.926</u>	<u>12118</u>	<u>Measurement Orientation</u>
...		

Add new rows to TID 5026 of PS3.16

TID 5026
OB-GYN PELVIC VASCULAR ULTRASOUND MEASUREMENT GROUP
Type: Extensible

NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1		CONTAINER	\$AnatomyGroup	1	M		
2	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT "Laterality")	1	MC	IFF anatomy has laterality DCID (244) Laterality
3	>	HAS CONCEPT MOD	TEXT	(112050, DCM, "Anatomic Identifier")	1	U	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	M	\$MeasType = DCID (12119) Vascular Ultrasound Property \$Derivation = DCID (3627) Measurement Type
5	>>	HAS CONCEPT MOD	CODE	EV (125105, DCM, "Measurement Orientation")	1	U	DCID (12118) Measurement Orientation
6	>>	HAS CONCEPT MOD	NUM	EV (125106, DCM, "Doppler Angle")	1	U	UNIT = EV (deg, UCUM, "degrees")
7	>>	HAS CONCEPT MOD	NUM	EV (125107, DCM, "Sample Volume Depth")	1	U	UNIT = EV (cm, UCUM, "cm")

Add new rows to TID 5104 of PS3.16

TID 5104
VASCULAR ULTRASOUND MEASUREMENT GROUP
Type: Extensible

NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1		CONTAINER	\$AnatomyGroup	1	M		
2	>	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT, "Topographical Modifier")	1	U	DCID (12116) Vessel Segment Modifiers
3	>	HAS CONCEPT MOD	CODE	EV (125101, DCM, "Vessel Branch")	1-n	U	DCID (12117) Vessel Branch Modifiers
4	>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	M	\$Measurement = DCID (12119) Vascular Ultrasound Property \$Derivation = DCID (3627) Measurement Type
5	>>	HAS CONCEPT MOD	CODE	EV (R-4089A, SRT, "Cardiac Cycle Point")	1	U	DCID (12233) Cardiac Phase
6	>>	HAS CONCEPT MOD	CODE	EV (R-41FFC, SRT, "Temporal period related to eating")	1	U	DT (G-A491, SRT, "Post-prandial")
7	>>	HAS CONCEPT MOD	CODE	EV (125105, DCM, "Measurement Orientation")	1	U	DCID (12118) Measurement Orientation
8	>>	HAS CONCEPT MOD	NUM	EV (125106, DCM, "Doppler Angle")	1	U	UNIT = EV (deg, UCUM, "degrees")
9	>>	HAS	NUM	EV (125107, DCM, "Sample Volume Depth")	1	U	UNIT = EV (cm, UCUM, "cm")

NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
	<u>CONCEPT MOD</u>		<u>Volume Depth</u>)				

Add a new CID to PS3.16

CID 12118 Measurement Orientation

**Context ID 12118
Measurement Orientation**

Type: Extensible Version: 20110125

<u>Coding Scheme Designator</u>	<u>Code Value</u>	<u>Code Meaning</u>
<u>DCM</u>	<u>122675</u>	<u>Anterior-Posterior</u>
<u>SRT</u>	<u>G-A117</u>	<u>Transverse</u>
<u>SRT</u>	<u>G-A143</u>	<u>Longitudinal</u>

Add new codes to Annex D of PS3.16

Annex D DICOM Controlled Terminology Definitions (Normative)

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DICOM Code Definitions (Coding Scheme Designator “DCM” Coding Scheme Version “01”)

Code Value	Code Meaning	Definition	Notes
...			
125105	Measurement Orientation	A modifier to a 2D distance measurement to describe its orientation. For example, a vascular distance measurement for a vessel plaque could have a modifier Transverse or Longitudinal.	
125106	Doppler Angle	The angle formed between the Doppler beam line and the direction of blood flow within a region of interest in the body	

		defined by the sample volume.	
125107	Sample Volume Depth	The depth of the center of the Doppler sample volume measured from skin line along the Doppler line.	
...			