

DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2013/10/10
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Correction Number	CP-1303
Log Summary: Correct HAS CONCEPT MOD-NUM relationships	
Name of Standard PS 3.16 2011	
<p>Rationale for Correction</p> <p>Several templates specify an illegal HAS CONCEPT MOD relationship between a parent content item and a NUM child content item.</p> <p>The purpose of HAS CONCEPT MOD is to do post-coordination, bringing together atomic concepts to form a “molecule” of an observable finding concept. As such, numerics are generally not appropriate targets for the HAS CONCEPT MOD relationship.</p> <p>In these cases, the purpose was to specify some parameters of the method by this sort of post-coordination. A comparable concept might be a lab test that has a time period of 1 hour, 4 hours, or 12 hours, where in LOINC these numeric durations can form part of the test concept name. However, in LOINC those are selected from a small set of discrete numeric values, not a continuous variable.</p> <p>Affected templates should be modified to use the HAS PROPERTIES relationship for these values.</p>	
Correction Wording:	

TID 3304
Stress Test Measurement Group
Type: Extensible Order: Significant

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT (121070, DCM, "Findings")	1	M		See note.
...								
14	>	CONTAINS	NUM	DT (122707, DCM, "Number of Ectopic Beats")	1	U		UNITS = ({beats}, UCUM, "beats")
15	>>	HAS CONCEPT MOD PROPERTIES	NUM	DT (R-40861, SRT, "Period of collection")	1	M		UNITS = DT(min, UCUM, "min")
16	>>	HAS PROPERTIES	CODE	EV (G-C504, SRT, "Associated Morphology")	1-n	U		BCID (3234) Ectopic Beat Morphology
17	>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	U		\$Measurement = DT(F-03204, SRT, "ST Elevation") \$Units = DT (mV, UCUM, "mV") \$TargetSite = DCID (3001) ECG Leads
...								

TID 3907
Vessel Measurements
Type: Extensible Order: Significant

NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
...							
7	CONTAINS	NUM	EV(G-0364, SRT, "Vessel Lumen Diameter")	1-n	U		UNITS=DT(mm, UCUM, "mm")
8	> HAS CONCEPT MOD	CODE	EV (121401, DCM, "Derivation")	1	U		DCID(3488) Min/Max/Mean
9	> HAS CONCEPT MOD PROPERTIES	NUM	EV(122337, DCM, "Relative Position")	1	U		Units=EV(mm, UCUM, "mm")
10	>> HAS CONCEPT MOD	CODE	EV(122340, DCM, "Fiducial Feature")	1	M		DCID(3837) Fiducial Feature

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

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 PROPERTIES	NUM	EV (125106, DCM, "Doppler Angle")	1	U		UNIT = EV (deg, UCUM , "degrees")
7	>> HAS CONCEPT MOD PROPERTIES	NUM	EV (125107, DCM, "Sample Volume Depth")	1	U		UNIT = EV (cm, UCUM , "cm")

TID 5104
VASCULAR ULTRASOUND MEASUREMENT GROUP
Type: Extensible Order: Significant

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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 PROPERTIES	NUM	EV (125106, DCM, "Doppler Angle")	1	U		UNIT = EV (deg, UCUM, "degrees")
9	>>	HAS CONCEPT MOD PROPERTIES	NUM	EV (125107, DCM, "Sample Volume Depth")	1	U		UNIT = EV (cm, UCUM, "cm")

TID 9005
RISK FACTOR
Type: Extensible Order: Significant

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (111515, DCM, "Relevant Risk Factors")	1	M		
2	>	CONTAINS	CODE	EV (F-01500, SRT, "Risk factor")	1-n	M		\$RiskList
3	>>	HAS CONCEPT MOD	CODE	EV (111530, DCM, "Risk Factor modifier")	1	U		EV (G-0002, SRT, "Family history of")
4	>>	HAS CONCEPT MOD PROPERTIES	NUM	EV(18185-9, LN, "Gestational Age")	1	UC	IFF value of row 2 is (G-0305, SRT, "History of – premature delivery")	
5	>>	HAS OBS CONTEXT	CODE	EV (111534, DCM, "Role of person reporting")	1	U		DCID (7450) Person Roles
6	>>	HAS PROPERTIES	NUM	EV (111538, DCM, "Age at Occurrence")	1	U		UNITS = EV (a,UCUM,"Year")
7	>>	HAS PROPERTIES	NUM	EV (G-7290, SRT, "Duration")	1	U		UNITS = DCID (6046) Units of Follow-up Interval
8	>>	HAS PROPERTIES	TEXT	EV (121106, DCM, "Comment")	1	U		
9	>>	INFERRED FROM	CODE	EV (111537, DCM, "Family Member with Risk Factor")	1-n	U		\$FamilyList
10	>>>	HAS CONCEPT MOD PROPERTIES	NUM	EV (111538, DCM, "Age at Occurrence")	1	U		UNITS = EV (a,UCUM,"Year")
11	>>>	HAS CONCEPT MOD	CODE	EV (111539, DCM, "Menopausal phase")	1	U		DCID (6086) Menopausal Phase

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
12	>>>	HAS CONCEPT MOD	CODE	EV (111540, DCM, "Side of Family")	1	U		DCID (6097) Side of Family