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7	Submission Date	2019/02/11

8	Correction Number CP-1891	
9	Log Summary: Add generic echocardiography measurements missing from vascular ultrasound context groups.	
10	Name of Standard	
11	PS3.16	
12	Rationale for Correction:	
13	Generic (non-cardiac-specific) measurements used in the echocardiography templates, such as Velocity Time Integral, are specified	
14	in echocardiography context groups but not generic vascular content groups.	
15	Add them.	
16	Correction Wording:	

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

## CID 12119 Vascular Ultrasound Property

Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML  
 Type: Extensible  
 Version: 20030327  
 UID: 1.2.840.10008.6.1.585

Table CID 12119. Vascular Ultrasound Property

Coding Scheme Designator	Code Value	Code Meaning
		Include CID 12120 "Blood Velocity Measurements by Ultrasound"
		Include CID 12121 "Vascular Indices and Ratios"
		Include CID 12122 "Other Vascular Properties"

## CID 12120 Blood Velocity Measurements by Ultrasound

Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML  
 Type: Extensible  
 Version: ~~20030327~~yyyymmdd  
 UID: 1.2.840.10008.6.1.586

Table CID 12120. Blood Velocity Measurements by Ultrasound

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
LN	11653-3	End Diastolic Velocity	C0551772
LN	11665-7	Minimum Diastolic Velocity	C0551784
LN	11726-7	Peak Systolic Velocity	C0551845
LN	20352-1	Time averaged mean velocity	C0803167
LN	11692-1	Time averaged peak velocity	C0551811
<u>LN</u>	<u>20354-7</u>	<u>Velocity Time Integral</u>	<u>C0803169</u>

## CID 12121 Vascular Indices and Ratios

Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML  
 Type: Extensible  
 Version: 20050110  
 UID: 1.2.840.10008.6.1.587

Table CID 12121. Vascular Indices and Ratios

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
LN	20167-3	Acceleration Index		C0802982
SCT	408714007	Lumen Area Stenosis	R-101BA	C1443264
SCT	408715008	Lumen Diameter Stenosis	R-101BB	C1443265
LN	12008-9	Pulsatility Index		C0552113
LN	12023-8	Resistivity Index		C0552128
LN	12144-2	Systolic to Diastolic Velocity Ratio		C0552246

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
LN	33867-3	Velocity ratio		C1316330

**Note**

This Context Group formerly included SNOMED codes G-0371 and G-0372, which have been replaced by ~~R-101BA408714007~~ and ~~R-101BB408715008~~, respectively. See Annex J.

*DICOM PS3.16 other vascular context groups for reference unchanged:*

**CID 12122 Other Vascular Properties**

**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Type:** Extensible  
**Version:** 20050110  
**UID:** 1.2.840.10008.6.1.588

**Table CID 12122. Other Vascular Properties**

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
LN	20168-1	Acceleration Time		C0802983
LN	20217-6	Deceleration Time		C0803032
SCT	397413000	Vessel lumen diameter	G-0364	C1301408
SCT	415815009	Vessel Intimal Diameter	R-1025C	C1532860
SCT	415814008	Vessel Intimal Cross-Sectional Area	R-1025D	C1532859
SCT	397414006	Vessel outside diameter	G-0365	C1301409
SCT	397415007	Vessel lumen cross-sectional area	G-0366	C1301410
LN	33878-0	Volume flow		C1316341
SCT	413975003	Vessel depth from surface	R-1025E	C1531671
LN	20247-3	Peak Gradient		C0803062
LN	20256-4	Mean Gradient		C0803071
SCT	414599003	Length of Segment	R-1025F	C1532132

*DICOM PS3.16 echocardiography context groups for reference unchanged:*

**CID 12222 Orifice Flow Properties**

**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Type:** Extensible  
**Version:** 20100317  
**UID:** 1.2.840.10008.6.1.614

**Table CID 12222. Orifice Flow Properties**

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
LN	33878-0	Volume Flow		C1316341
LN	34141-2	Peak Instantaneous Flow Rate		C1316604
SCT	399367004	Cardiovascular Orifice Area	G-038E	C1302344

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	399027007	Cardiovascular Orifice Diameter	G-038F	C1302176
SCT	399301000	Regurgitant Fraction	G-0390	C1302309
LN	11653-3	End Diastolic Velocity		C0551772
LN	11726-7	Peak Systolic Velocity		C0551845
LN	20352-1	Time Averaged Mean Velocity		C0803167
LN	11692-1	Time Averaged Peak Velocity		C0551811
LN	20247-3	Peak Gradient		C0803062
LN	20256-4	Mean Gradient		C0803071
LN	20354-7	Velocity Time Integral		C0803169
LN	20280-4	Pressure Half-Time		C0803095
LN	20168-1	Acceleration Time		C0802983
LN	20217-6	Deceleration Time		C0803032
LN	20216-8	Deceleration Slope		C0803031
LN	12144-2	Systolic to Diastolic Velocity Ratio		C0552246
LN	59102-4	Flow Radius		C2923437
LN	59130-5	Alias velocity		C2923486
LN	20167-3	Acceleration Slope		C0802982
LN	59127-1	D-E Slope		C2923482
LN	59128-9	E-F Slope		C2923484
LN	59103-2	A-C Interval		C2923439
LN	59104-0	Peak E wave/Peak A wave by US		C2923440
LN	59106-5	Stenosis Peak Gradient		C2923443
LN	59107-3	Stenosis Peak Velocity		C2923444
LN	59079-4	Peak Reversal Velocity during Atrial Contraction		C2923402
LN	59080-2	E-Wave Peak Velocity		C2923404
LN	59081-0	A-Wave Peak Velocity		C2923405
LN	59111-5	E Velocity to Annulus E Velocity Ratio		C2923452
LN	59115-6	Velocity of Flow Propagation		C2923460

### Note

1. In a prior version of this Context Group, the code 11726-7 was specified for Peak Velocity. This has been corrected to be Peak Systolic Velocity. Some applications might continue to send code 11726-7 instead of 20351-3 for Peak Velocity.
2. In a prior version of this Context Group, the code 20352-1 was specified for Mean Velocity. This has been corrected to be Time Averaged Mean Velocity. Some applications might continue to send code 20352-1 instead of 11692-1 for Time Averaged Peak Velocity.