

DICOM Correction Item

Correction Number	CP-1102	
Log Summary:	Correct LOINC Code Meanings	
Type of Modification	Name of Standard	
Modification	PS 3.16-2011	
	PS 3.17-2011	
Rationale for Correction:		
Two LOINC codes have improper pre-coordination with the concept "systolic" associated with them in the DICOM tables.		
17977-0 Left atrial Apical 4 chamber [Area] by US 2D		
17988-7 Right atrial Apical 4 chamber [Area] by US 2D		
Sections of documents affected		
PS 3.16 Annex B, H		
PS 3.17 Annex N		
Correction Wording:		
<i>Correct PS 3.16 Annex B</i>		

CID 12205 Echocardiography Left Atrium

Context ID 12205
Echocardiography Left Atrium
Type: Extensible Version: 20030918

Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)
INCLUDE CID 12220 Echocardiography Common Measurements		
LN	29469-4	Left Atrium Antero-posterior Systolic Dimension
LN	17985-3	Left Atrium to Aortic Root Ratio
LN	29486-8	Left Atrial Appendage Peak Velocity
LN	17977-0	Left Atrium Systolic Area A4C view
SRT	G-0383	Left Atrium Systolic Volume

CID 12206 Echocardiography Right Atrium

Context ID 12206
Echocardiography Right Atrium
Type: Extensible Version: 20030918

Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)
INCLUDE CID 12220 Echocardiography Common Measurements		
LN	18070-3	Right Atrium Systolic Pressure
LN	17988-7	Right Atrium Systolic Area A4C view

Correct PS 3.16 Annex H

Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)
...		
LN	17977-0	Left Atrium Systolic Area A4C view
LN	17978-8	Mitral Valve A-Wave Peak Velocity
LN	17988-7	Right Atrium Systolic Area A4C view
...		

Correct PS 3.17 Annex N

N.2 MEASUREMENT TERMINOLOGY COMPOSITION

DICOM identifies echocardiography observations with various degrees of pre- and post-coordination. The concept name of the base content item typically specifies both anatomy and property for commonly used terms, or purely a property. Pure property concepts require an anatomic site concept modifier. Pure property concepts such as those in CID 12222 Orifice Flow Properties and CID 12239 Cardiac Output Properties use concept modifiers shown below.

Concept Name of Modifier	Value Set
(G-C036, SRT, "Measurement Method")	CID 12227 Echo Measurement Method
(G-C0E3, SRT, "Finding Site")	CID 12236 Echo Anatomic Sites
(G-A1F8, SRT, "Topographical Modifier")	CID 12237 Echo Anatomic Site Modifiers
(G-C048, SRT, "Flow Direction")	CID 12221 Flow Direction
(R-4089A ⁹ , SRT, "Respiratory Cycle Point")	CID 12234 Respiration State
(R-4089A, SRT, "Cardiac Cycle Point")	CID 12233 Cardiac Phase
(121401, DCM, "Derivation")	CID 3627 Measurement Type

N.3.11 Left Atrium / Appendage

Name of ASE Concept	Base Measurement Concept Name	Concept or Acquisition Context Modifiers
...		
Left Atrium Systolic Area	(17977-0, LN, "Left Atrium Systolic Area A4C view ")	<u>(R-4089A, SRT, "Cardiac Cycle Point") = (F-32020, SRT, "Systole")</u>
...		

N.3.15 Right Atrium / Inferior Vena Cava

Name of ASE Concept	Base Measurement Concept Name	Concept or Acquisition Context Modifiers
...		
Right Atrium Systolic Area	(17988-7, LN, "Right Atrium Systolic Area <u>A4C view</u> ")	<u>(R-4089A, SRT, "Cardiac Cycle Point") = (F-32020, SRT, "Systole")</u>
...		