

DICOM Correction Item

Correction Number CP- 492	
Log Summary: Add Calculated Value to Mammography CAD SR	
Type of Modification Addition	Name of Standard PS 3.16 - 2004
<p>Rationale for Correction:</p> <p>Vendors desire a method of encoding other calculated numeric values, beyond those described currently in the Mammography CAD SR templates. Rather than devise a stream of correction proposals that add new individual content items for each vendor's calculated values it is instead proposed to add a numeric content item as a property of Single Image Finding and Composite Feature, with an extensible context group that defines the concept name for this content item.</p> <p>An identical approach has already been utilized in the Chest CAD SR templates (see TID 4105, rows 16, 17 and 19). This proposal applies this same approach to Mammography CAD SR.</p>	
Sections of documents affected PS 3.16 TID 4005, TID 4006, CID 6142, Annex D	
Correction Wording: See below.	

TID 4005
MAMMOGRAPHY CAD COMPOSITE FEATURE BODY
Type: Non-Extensible

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
	...							
24			NUM	(111038, DCM, "Number of calcifications")	1	UC	May be present only if value of parent is (F-01775,SRT, "Calcification Cluster")	UNITS = (1, UCUM, "no units") Value = Integer 1 – n
<u>25</u>			<u>NUM</u>	<u>DCID (6142) Calculated Value</u>	<u>1-n</u>	<u>U</u>		
<u>26</u>	>	<u>HAS CONCEPT MOD</u>	<u>CODE</u>	<u>EV (121401, DCM, "Derivation")</u>	<u>1</u>	<u>M</u>		<u>DCID (6140) Calculation Methods</u>
<u>27</u>	>	<u>INFERRED FROM</u>	<u>TEXT</u>	<u>EV (112034, DCM, "Calculation Description")</u>	<u>1</u>	<u>U</u>		

TID 4006
MAMMOGRAPHY CAD SINGLE IMAGE FINDING
Type: Non-Extensible

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
	...							
19	>	HAS PROPERTIES	INCLUDE	DTID (4014) "CAD Image Quality"	1-n	MC	Shall be present only if value of parent is (111101, DCM, "Image quality")	\$QualityFinding = DCID (6041) "Mammography Image Quality Finding", \$QualityStandard = DCID (6045) "Mammography Types of Quality Control Standard"
<u>20</u>	>	<u>HAS PROPERTIES</u>	<u>NUM</u>	<u>DCID (6142) Calculated Value</u>	<u>1-n</u>	<u>U</u>		
<u>21</u>	>>	<u>HAS CONCEPT MOD</u>	<u>CODE</u>	<u>EV (121401, DCM, "Derivation")</u>	<u>1</u>	<u>M</u>		<u>DCID (6140) Calculation Methods</u>
<u>22</u>	>>	<u>INFERRED FROM</u>	<u>TEXT</u>	<u>EV (112034, DCM, "Calculation Description")</u>	<u>1</u>	<u>U</u>		
<u>203</u>	>	INFERRED FROM	INCLUDE	DTID (4006) "Mammography CAD Single Image Finding"	1-n	UC	May be present only if value of parent is (F-01775,SRT, "Calcification Cluster")	EV (F-01776,SRT, "Individual Calcification")
<u>244</u>	>	HAS OBS CONTEXT	INCLUDE	DTID (4022) "CAD Observation Context"	1	MC	Shall be present only if this finding is incorporated from a different report than its parent.	

CID 6142 Calculated Value

Context ID 6142
Calculated Value
Type: Extensible Version: 2003040850321

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
DCM		112017	Cavity extent as percent of volume
DCM		112018	Calcification extent as percent of surface
DCM		112019	Calcification extent as percent of volume

Coding Scheme Designator (0008,0102)	Coding Scheme Version (0008,0103)	Code Value (0008,0100)	Code Meaning (0008,0104)
DCM		112058	Calcium score
<u>DCM</u>		<u>112191</u>	<u>Breast tissue density</u>
<u>DCM</u>		<u>112192</u>	<u>Volume of parenchymal tissue</u>
<u>DCM</u>		<u>112193</u>	<u>Volume of breast</u>
<u>DCM</u>		<u>112194</u>	<u>Mass of parenchymal tissue</u>
<u>DCM</u>		<u>112195</u>	<u>Mass of breast</u>

Add to PS 3.16, Annex D

Code Value	Code Meaning	Definition	Notes
...			
<u>112191</u>	<u>Breast tissue density</u>	<u>The relative density of parenchymal tissue as a proportion of breast volume</u>	
<u>112192</u>	<u>Volume of parenchymal tissue</u>	<u>The volume of parenchymal tissue</u>	
<u>112193</u>	<u>Volume of breast</u>	<u>The volume of the breast</u>	
<u>112194</u>	<u>Mass of parenchymal tissue</u>	<u>The mass of parenchymal tissue</u>	
<u>112195</u>	<u>Mass of breast</u>	<u>The mass of the breast</u>	
...			