

1	Status	Letter Ballot
2	Date of Last Update	2020/01/16
3	Person Assigned	David Clunie
4		mailto:dclunie@dclunie.com
5	Submitter Name	David Clunie
6		mailto:dclunie@dclunie.com
7	Submission Date	2018/07/08

8	Correction Number CP-1958	
9	Log Summary: Add Coronary Artery CT Fat Attenuation Index (FAI)	
10	Name of Standard	
11	PS3.16	
12	Rationale for Correction:	
13	Fat Attenuation Index (FAI) is a new measurement from Coronary Artery CT.	
14	See review article http://www.journalofcardiovascularct.com/article/S1934-5925(18)30618-X/fulltext that references http://stm.sciencemag.org/content/9/398/eaal2658.short and http://www.sciencedirect.com/science/article/pii/S0140673618311140 (esp.	
15	supplement describing method at https://ars.els-cdn.com/content/image/1-s2.0-S0140673618311140-mmc1.pdf .	
16		
17	Correction Wording:	

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

TID 3907 Vessel Measurements

Contains measurements made on vessel level.

Type: Extensible
Order: Significant
Root: No

Table TID 3907. Vessel Measurements

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1		CONTAINS	NUM	EV (408715008, SCT, "Lumen Diameter Stenosis")	1	U		UNITS = DT (% UCUM, "%")
2		CONTAINS	NUM	EV (408714007, SCT, "Lumen Area Stenosis")	1	U		UNITS = DT (% UCUM, "%")
3		CONTAINS	NUM	EV (121206, DCM, "Distance")	1-n	U		UNITS = DT (mm, UCUM, "mm")
4	>	HAS CONCEPT MOD	CODE	EV (122340, DCM, "Fiducial Feature")	2	M		
5	>>	HAS CONCEPT MOD	CODE	EV (272741003, SCT, "Laterality")	1	U		D???
6	>		INCLUDE	D???	1	U		
7		CONTAINS	NUM	EV (397413000, SCT, "Vessel Lumen Diameter")	1-n	U		UNITS = DT (mm, UCUM, "mm")
8	>	HAS CONCEPT MOD	CODE	EV (121401, DCM, "Derivation")	1	U		D???
9	>	HAS 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		D???
11		<u>CONTAINS</u>	<u>NUM</u>	<u>EV (ddd001, DCM, "Perivascular adipose tissue fat attenuation index")</u>	<u>1</u>	<u>U</u>		<u>UNITS = EV (1, UCUM, "no units")</u>

Content Item Descriptions

Rows 3-5	The distance between two identified fiducial features
Rows 7-10	Measurement of vessel diameter made at a position relative to a fiducial feature
Row 9	A positive value indicates a distance in the direction of flow within the vessel

D DICOM Controlled Terminology Definitions (Normative)

Table D-1. DICOM Controlled Terminology Definitions (Coding Scheme Designator "DCM" Coding Scheme Version "01")

Code Value	Code Meaning	Definition	Notes
<u>ddd001</u>	<u>Perivascular adipose tissue fat attenuation index</u>	<p><u>A measure of weighted attenuation shifts within perivascular adipose tissue, computed as a weighted measure of attenuation in concentric layers of perivascular tissue around the arterial wall, capturing the respective perivascular attenuation gradients. Abbreviated "FAI".</u></p> <p><u>See Antoniadis C, Kotanidis CP, Berman DS. State-of-the-art review article. Atherosclerosis affecting fat: What can we learn by imaging perivascular adipose tissue? Journal of Cardiovascular Computed Tomography. 2019 Mar 29;0(0). Available from: http://www.journalofcardiovascularct.com/article/S1934-5925(18)30618-X/abstract.</u></p>	