



Supplementary material

Extension and Spatial Distribution of Atherosclerotic Burden Using Virtual Monochromatic Imaging Derived From Dual-Energy Computed Tomography

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SUPPLEMENTARY MATERIAL

Spatial Distribution and Severity of Lesions Assessed by Dual Energy-computed Tomography Coronary Angiography and Invasive Coronary Angiography. Mean Atherosclerotic Burden Score Are Scores Defined as 0 (normal), 1 (< 50%), 2 (50%-69%), and 3 (\geq 70% stenosis).

Coronary segment	DE-CTCA	ICA	P
Right coronary artery proximal (n = 80)	1.19 \pm 1.0	0.90 \pm 1.1	< .0001
Right coronary artery mid (n = 77)	1.49 \pm 1.0	1.16 \pm 1.2	< .0001
Right coronary artery distal (n = 77)	0.94 \pm 1.0	0.75 \pm 1.1	.02
Posterior descending artery (n = 72)	0.68 \pm 1.0	0.60 \pm 1.0	.17
Left main coronary artery (n = 80)	0.69 \pm 0.7	0.29 \pm 0.6	< .0001
Left anterior descending proximal (n = 80)	1.34 \pm 1.0	1.05 \pm 1.0	< .0001
Left anterior descending mid (n = 77)	1.48 \pm 1.1	1.16 \pm 1.1	< .0001
Left anterior descending distal (n = 75)	0.52 \pm 0.8	0.44 \pm 0.8	.16
Diagonal branch #1 (n = 79)	1.25 \pm 1.1	1.05 \pm 1.2	.01
Diagonal branch #2 (n = 74)	0.53 \pm 0.9	0.40 \pm 0.9	.049
Left circumflex proximal (n = 80)	1.08 \pm 1.0	0.85 \pm 1.0	.001
Obtuse marginal #1 (n = 79)	0.87 \pm 1.1	0.67 \pm 1.1	.015
Left circumflex mid/distal (n = 79)	1.19 \pm 1.2	0.86 \pm 1.2	< .0001
Obtuse marginal #2 (n = 73)	0.38 \pm 0.8	0.37 \pm 0.8	.85
Posteroventricular branch (n = 57)	0.40 \pm 0.8	0.32 \pm 0.8	.10
Intermediate branch (n = 15)	1.13 \pm 1.2	0.87 \pm 1.0	.16

DE-CTCA, dual energy-computed tomography coronary angiography; ICA, invasive coronary angiography.

Troponin T Testing

Chemiluminescent microparticle immunoassay was performed for determination of plasma troponin I levels (ARCHITECT STAT Troponin-I assay; Abbott Diagnostics; Lake Forest IL, United States) in the ARCHITECT i2000SR analyzer (Abbott Diagnostics, Lake Forest IL, United States). The lower limit of detection was 0.01 ng/mL. The highest intra- and interassay coefficients of variation range from 3% through 6%.

Three-dimensional Speckle Tracking Echocardiography-derived Parameters in all Amyloidosis Patients, and According to Troponin I Levels, at the Time of Clinic Evaluation.

Parameter	All n=40	TnI Tertiles			P Value*
		n=40			
		1 st tertile (<0.01 µg/L) n=13	2 nd tertile (0.01-0.08 µg/L) n=14	3 rd tertile (>0.8 µg/L) n=13	
LV Global Longitudinal Strain, (%)	-11 ± 5	-15 ± 4	-11 ± 3 [†]	-7 ± 3 ^{†‡}	<.001
LV Basal Longitudinal Strain, (%)	-11 ± 7	-17 ± 7	-10 ± 3 [†]	-6 ± 4 [†]	<.001
LV Mid Longitudinal Strain, (%)	-10 ± 4	-13 ± 4	-11 ± 3	-6 ± 3 ^{†‡}	<.001
LV Apical Longitudinal Strain, (%)	-13 ± 5	-16 ± 5	-13 ± 4	-10 ± 4 [†]	.003
LV Global Circumferential Strain, (%)	-26 ± 6	-28 ± 4	-27 ± 4	-21 ± 6 ^{†‡}	.002

LV Basal Circumferential Strain, (%)	-19 ± 6	-23 ± 6	-19 ± 5	-16 ± 5 [†]	.001
LV Mid Circumferential Strain, (%)	-28 ± 6	-31 ± 4	-30 ± 6	-24 ± 7 ^{†‡}	.004
LV Apical Circumferential Strain, (%)	-31 ± 7	-32 ± 4	-33 ± 5	-26 ± 10 [‡]	.003
RV Global Longitudinal Strain, (%) [¶]	-11 ± 5	-14 ± 5	-12 ± 4	-8 ± 4 [†]	.02
RV Global Radial Displacement, (mm) [¶]	2.9 ± 0.9	3.4 ± 0.8	3.2 ± 0.7	2.4 ± 0.8 [†]	.008

LV, left ventricular; RV, right ventricular; TnI, troponin I

* For comparisons across TnI tertiles.

[†] versus 1st tertile, $P < .05$; [‡] versus 2nd tertile, $P < .05$

[¶] For RV global longitudinal strain and radial displacement, the number of patients in each group was as follows: All, n=26; 1st tertile, n=7;

2nd tertile, n=8; 3rd tertile, n=11