



Supplementary material

Three-dimensional Speckle Tracking Echocardiography in Light Chain Cardiac Amyloidosis: Examination of Left and Right Ventricular Myocardial Mechanics Parameters

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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, USA) in the ARCHITECT i2000SR analyzer (Abbott Diagnostics, Lake Forest IL, USA). 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 n=40			P Value*
		1 st tertile (<0.01 µg/L)	2 nd tertile (0.01-0.08 µg/L)	3 rd tertile (>0.8 µg/L)	
		n=13	n=14	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