

Supplemental Material

Table S1. Comparison of clinical characteristics of LVNC patients with and without LA dilatation (left atrial volume index >34 ml/m²).

Variables	LA dilatation present (N=160)	LA dilatation absent (N=160)	p-value
Age (years)	56 (44-65)	39 (28-51)	<0.001
Female sex	64 (40%)	84 (79%)	0.025
Hypertension	64 (40%)	34 (21%)	<0.001
Diabetes mellitus	23 (14%)	16 (10%)	0.23
Smoking	55 (34%)	44 (28%)	0.18
Stroke/TIA	13 (8%)	4 (3%)	0.02
Coronary artery disease	35 (22%)	11 (7%)	<0.001
Congestive heart failure	63 (39%)	31 (19%)	<0.001
Left Ventricular Ejection fraction (%)	36 (23-51)	53 (40-60)	<0.001
Left ventricular ejection fraction <50%	114 (71%)	68 (43%)	<0.001
Atrial fibrillation/flutter	55 (34%)	18 (11%)	<0.001
Any cardiovascular implantable device	29 (18%)	25 (16%)	0.55
Asymptomatic at presentation	33 (21%)	52 (33%)	0.017
Echocardiographic variables			
Left ventricular end diastolic diameter	59 (53-65)	51 (48-57)	<0.001
Left ventricular end systolic diameter	48 (38-56)	36 (32-43)	<0.001
Right ventricular systolic pressure (mmHg)	34 (28-49)	26 (24-31)	<0.001

Any RV enlargement	54 (34%)	27 (17%)	<0.001
Any RV dysfunction	58 (37%)	28 (18%)	<0.001
Moderate or greater mitral regurgitation	34 (22%)	7 (5%)	<0.001
Increased LV wall thickness (LV mass index >95 gm/m ² : women; >115 gm/m ² : men)	105 (66%)	53 (33%)	<0.001
Minimum systolic compacta thickness (mm)	6 (5-7)	6 (5-6)	0.015
Maximum systolic noncompacta thickness (mm)	19 (17-22)	17 (14-20)	<0.001
Maximum end systolic NC:C ratio (Jenni criteria)	2.8 (2.5-3.4)	2.8 (2.4-3.2)	0.45
Minimum end diastolic X:Y ratio (Chin criteria, per 0.1 unit increase in the ratio)	0.26 (0.22-0.29)	0.26 (0.22-0.30)	0.27
Number of segments involved	2 (1-3)	1 (1-3)	0.03
Isolated apical noncompaction	71 (44%)	84 (53%)	0.14
Delayed gadolinium enhancement on MRI	11 (24%)	6 (10%)	0.048

Supplemental Video Legends:

Video S1. Left ventricular noncompaction patient with mid-basal noncompaction extent.

NC:C and X:Y ratios met for segments extending beyond the apical segment. Best viewed with Windows Media Player.

Video S2. Left ventricular noncompaction patient with isolated apical noncompaction

extent. NC:C and X:Y ratios met for only the apical segment. Best viewed with Windows Media Player.