

Left Ventricular Aneurysm

Aneurisma de Ventrículo Esquerdo

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Echocardiographic assessment of heart murmur in a neonate revealed an apical saccular image in the left ventricle (LV), with characteristics of aneurysm (wall thinning and akinesia). This was confirmed by cardiac catheterization and cardiovascular magnetic resonance imaging, which also highlighted delayed enhancement in the apical region (myocardial fibrosis).

Two-dimensional longitudinal strain revealed changes in

the contractility of the aneurysmal region and a normal global contractility index.

Evolution over six years showed no progression of the lesion or ventricular dysfunction.

LV aneurysm, a rare cardiac malformation, usually progresses asymptotically and can result in heart failure, embolism, wall rupture, ventricular tachycardia, or sudden death.

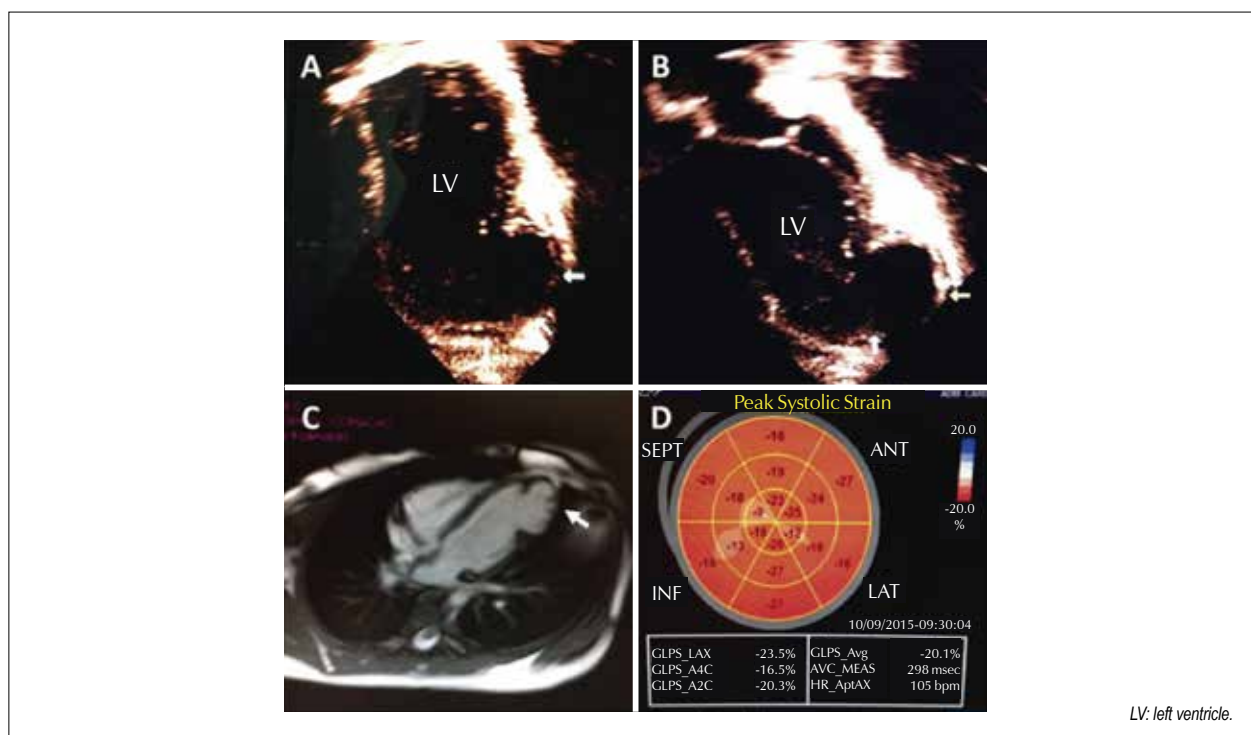


Figure 1 – Aneurysm in the apical region of the left ventricle as visualized by echocardiogram (A and B) and cardiac magnetic resonance imaging (C). Reduced contractility of the aneurysmal region as visualized by two-dimensional strain (D).

Keywords

Aneurysm; Infant, Newborn; Echocardiography.

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Video 1 – Echocardiogram, apical four-chamber view: aneurysm in the apical region of the left ventricle as observed by two-dimensional strain.

Author contributions

Study conception and design: Silva LM, Guimarães AFM, Araújo FDR; Data collection: Silva LM, Guimarães AFM; Data analysis and interpretation: Silva LM, Guimarães AFM, Araújo FDR; Manuscript writing: Silva LM, Guimarães AFM;

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Conflict of interest

The authors have declared that they have no conflict of interest.