Saddle Shape of Mitral Valve Annulus: Three-Dimensional Transthoracic Echocardiography


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We are describing the case of volunteer, 28 years old, male, submitted to transdimensional transthoracic echocardiographic investigation (3D echo). Cardiac anatomy showed to be normal. 3D echo analysis allowed the identification of saddle shape of mitral valve annulus (Fig. 1A and Fig. 1B), which had not been identified by bidimensional echocardiography. Three-dimensional echocardiography is an imaging investigation method that leads to advancement towards anatomic and diagnostic analysis1,2.

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Key words
- Echocardiography, three-dimensional echocardiography, mitral valve, anatomy.

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Fig. 1A - Three-dimensional transthoracic echocardiogram (3D) (longitudinal, apical projection), showing saddle shape of mitral valve annulus (arrow). LV- left ventricle.
Fig. 1B - Three-dimensional transthoracic echocardiogram (3D) (parasternal, apical projection), showing saddle shape of mitral valve annulus (arrow). LV = left ventricle.

References
