Quadricuspid aortic valve

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ABSTRACT

Quadricuspid aortic valve is an extremely rare congenital anomaly characterized by the development of aortic regurgitation, and associated with abnormally placed coronary ostia. We report a case of a quadricuspid aortic valve with mild aortic regurgitation.

Case Report

A 53-year old female was referred for echocardiography as part of transient ischemic attack investigation. The echocardiogram did not demonstrate a cardiac source of thromboembolism. However, a quadricuspid aortic valve (Figure 1) with mild aortic regurgitation was observed.

Quadricuspid aortic valve is an extremely rare congenital anomaly with an incidence of between 0.008% to 0.033%.1 Its clinical importance is the association with the development of aortic regurgitation and abnormally placed coronary ostia.2 Few case reports have described an association with ruptured sinus of valsalva.3,4

References


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Key words: quadricuspid aortic valve.

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Licensee PAGEPress, Italy
Italian Journal of Medicine 2013; 7:52
doi:10.4081/ijm.2013.52

Figure 1. Echocardiographic short axis view at the level of the aortic valve. (A) Diastolic frame showing four aortic cusps. (B) Early systolic frame showing partial separation of the cusps. (C) Late systolic frame showing a diamond-shaped opening of the aortic valve.