A Quadricuspid Aortic Valve with Mild Aortic Regurgitation

Hafif Aort Yetersizliğinin Eşlik Ettiği Quadriküspid Aort Kapak

Yusuf Karavelioğlu¹, İsmail Ekinözü¹, Mücahit Yetim¹, Macit Kalçık¹

¹ University of Hitit, Facult of Medicine, Department of Cardiology, Çorum, Turkey

A 21-year-old male was admitted to our outpatient clinic with atypical chest pain. He had no history of cardiovascular disease. Physical examination revealed 2/4 diastolic murmur along the right sternal border, and his electrocardiogram was normal. Transthoracic echocardiography revealed mild aortic regurgitation in the parasternal long-axis view. Transaortic gradients were within the normal limits. However, in the parasternal short-axis view, a quadricuspid aortic valve was visualized. Transesophageal echocardiography (TEE) was subsequently performed that confirmed the presence of type A quadricuspid aortic valve according to the Hurwitz–Roberts classification with four equal-sized cusps and mild aortic regurgitation¹ (Figure 1). There was no other concomitant congenital malformation, which could be detected by TEE. Because his chest pain was atypical and the stress test provided negative results for ischemia, coronary angiography was not performed. A quadricuspid aortic valve is a very rarely diagnosed congenital malformation because most patients are asymptomatic and have normally functioning valves. In symptomatic cases, aortic regurgitation is a more frequent presentation than aortic stenosis². Despite usually appearing as an isolated congenital anomaly, it may be associated with other congenital malformations, with the most common malformation being coronary artery anomalies³. Clinical follow-up should be performed for these patients to detect the onset or worsening of symptoms and to enable appropriate therapeutic intervention.


Correspondence

Yusuf Karavelioglu

E-mail: drcomtr@gmail.com
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