An Iceberg in the heart: A calcified amorphous tumor of mitral valve

Burak Onan, Mehmet Karacalilar, Serdar Başgöze, Korhan Erkanlı

Department of Cardiovascular Surgery, Istanbul Mehmet Akif Ersoy Thoracic and Cardiovascular Surgery Training and Research Hospital, Istanbul, Turkey

Received: November 26, 2016 Accepted: February 21, 2017 Published online: April 17, 2017

Calculated amorphous tumor (CAT) is a rare and benign pathology which is composed of calcified nodules on a background of a degenerative and inflammatory amorphous fibrous material.[1-3] Although the pathogenesis of cardiac CAT is unknown, abnormal calcium-phosphorous metabolism, particularly in renal failure, is suspected. Differential diagnosis includes benign/malignant cardiac tumors such as a myxoma, teratoma, or rhabdomyoma, thrombosis, and vegetations.

Herein, we report a 67-year-old case who underwent mitral valve surgery through a transseptal incision with a favorable outcome. During operation, we observed that the anterior leaflet of the mitral valve and its subvalvular apparatus were calcified and presented as a giant tumor (Figure 1). After resection of the calcified leaflet, the annulus of the mitral valve was reconstructed using a pericardial patch, and the valve was successfully replaced with a mechanical prosthesis.

Declaration of conflicting interests
The authors declared no conflicts of interest with respect to the authorship and/or publication of this article.

Funding
The authors received no financial support for the research and/or authorship of this article.

REFERENCES

Corresponding author: Burak Onan, MD. Istanbul Mehmet Akif Ersoy Göğüs ve Kalp ve Damar Cerrahisi Eğitim ve Araştırma Hastanesi, Kalp ve Damar Cerrahisi Kliniği, 34930, Küçükçekmece, İstanbul, Turkey.
Tel: +90 553 - 622 38 78 e-mail: burakonan@hotmail.com