Amorphous tumor of the mitral valve
Tumor amorfo da válvula mitral

Henrique Guedes\textsuperscript{a,∗}, Nuno Moreno\textsuperscript{a}, Rui Cunha Sousa\textsuperscript{a}, Mário Jorge Amorim\textsuperscript{b}, Aurora Andrade\textsuperscript{a}, Paula Pinto\textsuperscript{a}

\textsuperscript{a} Cardiology Department, Centro Hospitalar Tâmega e Sousa, Penafiel, Portugal
\textsuperscript{b} Cardio-Thoracic Surgery Department, Centro Hospital São João, Porto, Portugal

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Amorphous cardiac tumor is a rare non-neoplastic mass that mimics malignancy and can cause symptoms due to flow obstruction or embolization of calcific fragments. The histological findings are characteristic, including calcification and amorphous fibrinous material. Its exact etiology is unknown.

A 79-year-old woman was referred to our department because of suspected angina. The electrocardiogram showed ventricular repolarization abnormalities in the lateral wall. Transthoracic echocardiography showed preserved biventricular systolic function, without wall motion abnormalities, a mitral valve with normal functional area and marked calcification of the annulus, and on the ventricular side a hyperechoic, threadlike and highly mobile mass, protruding into the left ventricular outflow tract, causing a dynamic gradient of 24 mmHg (Video 1). Transesophageal

\begin{figure}[h]
\centering
\includegraphics[width=0.4\textwidth]{figure1}
\caption{Two-dimensional transesophageal echocardiography, long-axis view (120°), showing a mass adjacent to the mitral posterior annulus (yellow arrow), directed toward the left ventricular outflow tract (white arrow).}
\end{figure}

\begin{figure}[h]
\centering
\includegraphics[width=0.4\textwidth]{figure2}
\caption{Computed tomography, reformatted oblique sagittal view, depicting a dense calcified mass (white arrow).}
\end{figure}
echocardiography (TEE) showed a mass adjacent to the posterior annulus of the mitral valve, measuring about 25 mm × 5 mm (Figure 1; Video 2 and 3). Computed tomography confirmed a large calcified mass attached to the ventricular side of the mitral valve (Figure 2). No mass was observed on cardiac magnetic resonance imaging, probably due to its marked mobility. Myocardial perfusion scintigraphy showed evidence of inferolateral ischemia and cardiac catheterization revealed left main and three-vessel disease. Bypass surgery was performed and the intraventricular tumor was removed (Figure 3). Histology confirmed the diagnosis of calcified amorphous tumor (Figure 4).

Calcified amorphous tumor is a rare cardiac lesion with an excellent outcome. The clinical presentation is similar to other cardiac tumors, and surgical removal and histopathological examination are essential for an accurate diagnosis.

**Ethical disclosures**

**Protection of human and animal subjects.** The authors declare that no experiments were performed on humans or animals for this study.

**Confidentiality of data.** The authors declare that no patient data appear in this article.

**Right to privacy and informed consent.** The authors declare that no patient data appear in this article.

**Conflicts of interest**

The authors have no conflicts of interest to declare.

**Appendix A. Supplementary data**

Supplementary material associated with this article can be found in the online version at doi:10.1016/j.repc.2016.01.010.