Two Cases of Atypical Presentation of Papillary Fibroelastoma

Presentación atípica de dos casos de fibroelastoma papilar

To the Editor,

The finding of a small rounded mass over an undiseased valve, with no signs of endocarditis, points to the diagnosis of fibroelastoma. Given the high degree of suspicion provided by these types of images, some authors are in favor of a watchful waiting approach. However, fibroelastomas do not always present in this way, and decision making can be complex.

We present 2 cases of presentation at an atrial site. The first corresponds to a 76-year-old man who was admitted for a first episode of heart failure. He had no constitutional or infectious signs and symptoms. Severe mitral valve regurgitation was apparent in the transthoracic echocardiogram. The transesophageal study showed prolapse affecting scallops 2 and 3 of the posterior leaflet. In addition, a homogeneous mobile mass of 1 x 2 cm was found by chance, located on a broad pediculum, adhered to the atrial endocardium and close to the mitral annulus (Fig. 1). Neither the valve nor the atrial appendage was involved, but both were increased in size and free of masses. The patient underwent mitral repair and the mass was excised. Pathological examination revealed a 2 cm fragment of pearl-colored, “villiferous”-looking tissue. Under the microscope, this form appeared as an avascular papillary tumor with multiple digitiform fronds comprised of dense connective tissue with low cellularity over a matrix of mucopolysaccharides, elastic fibers, and spindle cells, all covered by a layer of hyperplastic endocardial cells (Fig. 1).

The second case corresponds to a 55-year-old woman with no prior relevant history who was referred for a finding of atrial mass during gastroenterological endoscopy. Transesophageal echocardiography showed a highly mobile mass of 2.5 cm, with a broad stalk, adhered to the posterior endocardium of the left atrium, which was of normal size and morphology (Fig. 2). Although the patient was asymptomatic, the tumor was removed given its large size and mobility; the pathology report revealed similar histological characteristics to those described for the first case (Fig. 2).

Papillary fibroelastoma was described by Yater in 1931.1 It is the third most common cardiac tumor after myxoma and lipoma, and the one that most frequently affects the cardiac valves.2 There are many theories about its origin: organized thrombus, hamartoma, hyperplastic reaction to external agents, or a form of chronic viral endocarditis.3 Most tumors remain asymptomatic, and so their prevalence is underestimated. In the left-side chambers, they may present as systemic embolism, with cerebral ischemia being the most frequent;4 right-side embolism is less frequent although acute pulmonary embolism or chronic pulmonary hypertension may occur.3

The preferred site is the endocardial valve, accounting for 75% of cases, and the aortic valve, with no preference for which side, is the most widely affected, followed by the mitral valve (atrial side) and to a lesser extent the tricuspid and pulmonary valves.3 At these sites, the tumors are usually rounded and small. The presence in the image of these characteristics, without any

Figure 1. Long-axis transesophageal image of the left ventricle, in which a mass is observed adhered to the atrial endocardium, contiguous to the mitral annulus. On the right, histological image with hematoxylin-eosin staining, in which the papillary nature of the tumor can be observed.

Figure 2. Transesophageal 2-chamber image in which the anchoring of the mass to the posterior endocardium of the left atrium, close to the pulmonary veins, can be observed. The histological image also shows anchoring to the atrial endocardium and the villiferous form.
Proarrhythmic Potential of Amiodarone: An Underestimated Risk?

Potencial proarrítmico de la amiodarona: ¿un riesgo subestimado?

To the Editor,

Because of its known safety and efficacy, amiodarone is a first-line drug for the treatment of atrial and ventricular arrhythmias in patients with structural heart disease. Its proarrhythmic side effects are usually underestimated because they are less common than those experienced with other antiarrhythmic drugs. We describe a case of corrected QT interval prolongation (QTc) and torsade de pointes (TdP) secondary to amiodarone.

A 59-year-old woman with hypertension and chronic obstructive pulmonary disease with a significant bronchospastic component was attended at home for palpitations and dizziness. The electrocardiogram (ECG) showed self-limiting, regular, wide-QRS tachycardia at a rate of 210 bpm before admission and sinus rhythm at a rate of 90 bpm with a QRS duration of 90 ms and QTc of 415 ms on hospital admission (Fig. 1A). The cardiologic study revealed dilated cardiomyopathy with moderate ventricular dysfunction, but no major coronary lesions.

On the third day of hospitalization, the patient experienced well-tolerated sustained monomorphic ventricular tachycardia (SMVT) at a rate of 270 bpm (Fig. 2A) that reverted once intravenous perfusion of amiodarone was initiated.

These recommendations do not, however, apply for fibroelastomas at atypical sites. The reasonable approach when faced with such masses is to rule out as many diagnoses as possible by noninvasive means. Gradual enhancement of magnetic resonance data may help in tumor diagnosis. Once diagnosed, surgical resection (provided the risk is not too high) can provide an indication of etiology, prognostic evaluation, and specific treatment.

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REFERENCES


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