Giant Left Atrial Thrombus in Mild Mitral Stenosis Without Embolic Complication

Hafif Mitral Stenozda Embolik Komplikasyona Yol Açmayan Dev Trombüs

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Abstract

While large left atrial mural thrombi are frequently occurred in moderate and severe mitral stenosis, left atrial thrombi are rarely seen in mild mitral stenosis. In this report we presented a case of 71-year-old woman with rheumatic mild mitral valve stenosis but had a giant left atrial thrombus detected by echocardiography.

Keywords: rheumatic mild mitral valve stenosis, left atrium, giant thrombus, embolic complication

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Introduction

Although most of the left atrial thrombus are complicated with mitral stenosis and most thrombi are located in the left atrial appendage, left atrial thrombus in mild mitral disease is rare. Regardless of the underlying mechanism, the diagnosis of a left atrial thrombus ball should be regarded as an urgent indication for preventive surgery.¹

Case report

A 71-year-old woman with rheumatic mitral valve stenosis was referred to our clinic. She had dispnea without syncope or palpitation. Neurological examination was normal. She was in atrial fibrillation of unknown duration and without oral anticoagulation.

The telecardiogram showed cardiomegaly and mitralization of the heart. Transthoracic echocardiography revealed mild mitral stenosis (mitral valve area was measured 1.7 cm² by pressure half-time) and a large crescent-shaped homogenous mass lying in the left atrium.

Transthoracic echocardiography also revealed normal left ventricular dimension and function and left atrial di-
loration. Transesophageal echocardiography identified a giant left atrial thrombus occupying a large percent of the left atrium filling left atrial appendage (Figure-1, 2). The patient was referred to the surgical department immediately.

**Figure 1:** Transesophageal echocardiography revealed a giant atrial thrombus expanding left atrial appendage.

**Figure 2:** Transesophageal echocardiographic two-chamber view presenting a large thrombus hugging the left atrial wall.

**Discussion**

Atrial fibrillation and left atrial size are independent predictors of clot formation in the left atrium in patients with mitral stenosis. Although left atrial thrombi are not seen frequently, they need treatment when detected as they can lead to catastrophic outcomes. Most thrombi are located in the left atrial appendage, but in 2% of all mitral stenosis the auricular thrombus extends to the left atrial cavity. While large left atrial mural thrombi are frequently occurred in moderate and severe mitral stenosis, left atrial thrombi are rarely seen in mild mitral stenosis as in our case. Early diagnosis is of vital importance and surgical intervention is considered the best treatment option.1

**References**