Left atrial ball-shaped thrombus mimicking myxoma detected by transthoracic echocardiography

A 67-year-old woman was admitted to our clinic for elective echocardiography. She had had a history of rheumatismal valve diseases, mitral stenosis and mild aortic regurgitation known for 2 years. Four years ago she had had a stroke episode which ended with no sequels. The patient was in congestive heart failure (NYHA class II). One year ago, elective echocardiographic examination was performed in another clinic but no left atrial mass or spontaneous contrast echo were reported. Atrial fibrillation with moderate ventricular response was detected on standard 12-lead electrocardiography. Two-dimensional transthoracic echocardiography showed moderate thickening and calcification of mitral valve leaflets, narrowing of the mitral valve opening area (0.9 cm² calculated using PHT method), and mild aortic leaflet thickening, mild aortic and tricuspid regurgitations. A smooth surfaced spherical mass of 2x2 cm was seen adjacent to interatrial septum (Fig. 1). It was mobile but did not protrude through mitral valve during diastole. Because of rheumatismal mitral stenosis and atrial fibrillation history, urgent surgical operation was performed. Intracardiac mass was resected and mitral valve was replaced with number 31 bileaflet mechanical prosthetic valve. On pathologic examination, the mass was diagnosed as an organized trombus (Fig. 2).

Intracardiac vascularized mass

A 58 years old female was admitted to our outpatient clinic with atypical chest pain. She was operated 8 years ago for aortic valve replacement. Her physical examination and electrocardiographic findings were determined as normal. She was evaluated with transthoracic echocardiography. On her echocardiographic examination we notified a left atrial mass originated from interatrial septum (Fig. 1). The functions of prosthetic aortic valve were normal. Transesophageal echocardiography was performed for better interpretation of the mass. Indeed, we determined blood flow within the mass using color Doppler (Fig. 2). Although coronary arteries were normal at angiography, we showed an abnormal vascular network originated from prosthetic aortic valve area (Fig. 3). A surgical resection was recommended but she preferred another hospital for surgery.

The incidence of primary cardiac tumors ranges from 17 to 2700 per million autopsies. Seventy-five percent of primary cardiac tumors are benign. Approximately 50% of benign cardiac tumors were myxoma. Hemangioma accounts for only 2.8% (1). Echocardiography is a sensitive and noninvasive method for detecting cardiac tumors (2). Although echocardiography can detect tumor and its location, cardiac

References


Address for Correspondence: Dr. Köksal Ceyhan, Gaziosmanpaşa Üniversitesi Tip Fakültesi Kardiyoloji A.D, Tokat, Türkiye
Tel.: +90 356 212 95 00 Fax: +90 356 212 94 17 E-mail: kceyhan09@yahoo.com