Mitral valve blood cyst with regurgitation

A 64-year-old man presented with exertional dyspnoea for 3 months. He had a history of coronary artery disease, which was treated with percutaneous coronary intervention 3 years ago. He was clinically stable under medical treatment. Physical examination revealed a blood pressure of 140/80 mm Hg, heart rate of 96 bpm and 3/6 apical systolic murmur. The lungs were clear to auscultation. Transthoracic echocardiographic examination showed a 1.31×1.80 cm rounded cystic mass at the tip of the anterior mitral leaflet causing moderate to severe mitral regurgitation (figures 1 and 2). This was consistent with a blood cyst. Increased left ventricular volumes and global left ventricular hypokinesia were also detected. The patient was referred for coronary angiography. Coronary angiography revealed a significant stenosis in the right coronary artery and obtus marginalis. Percutaneous coronary revascularisation was performed. Control transthoracic echocardiography revealed mild to moderate mitral regurgitation. It was thought that previously detected severe mitral regurgitation resulted from ischaemia. Serial echocardiographic follow-up was advised to the patient.

Blood cysts are congenital benign cardiac masses which were commonly located on the AV valves.1 Inflammation, anoxia, haemorrhagic diathesis, vagal stimulation, microscobic invagi-

nations of endothelium and alterations during valve development are suspected causes. However, the exact aetiology is unknown. Haemodynamically stable patients should be followed with serial echocardiographic examinations. If the mass interferes with normal cardiac function, it should be resected surgically with or without valvular replacement.2 As in our case, if there is concomitant coronary artery disease, ischaemic mitral regurgitation should be considered before deciding on valvular surgery. Myxoma, thrombus, hydatid cyst, vegetation and other cardiac malignancies should be considered in the differential diagnosis.

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