Submitral left ventricular pseudoaneurysm after mitral valve replacement

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A 60-year-old woman who underwent mitral valve replacement 3 months ago gradually developed dyspnea on exertion. Catheterization showed a large posterolateral left ventricular aneurysm (Fig. 1). Multislice CT confirmed the diagnosis (Fig. 2).

Fig. 1. Left ventriculography shows the abnormal accumulation of contrast medium. Note the prosthetic valve.

Fig. 2. Multislice CT (a) in a four-chamber view shows the submitral pseudoaneurysm of the left ventricle, (b) short axis view shows the posterior aneurysmal dilatation of the left ventricle, (c and d) coronal views show the rhomboid aneurysm correlated with the shape on catheterization. The origin and course of the Cx were normal. Iatrogenic intraoperative left circumflex injury and subsequent infarction was the cause of pseudoaneurysm. Aneurysmectomy was performed with good postoperative cardiac function.