

Pseudoaneurysm of the Sinus of Valsalva

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IMAGE IN CARDIAC SURGERY

A 71-year-old male was found to have a left atrial mass on transthoracic echocardiography during a preoperative evaluation for noncardiac surgery. A computed tomography (CT) scan revealed the presence of a 4.5 × 6.5 pseudoaneurysm of the noncoronary sinus of Valsava extending into the aortomitral fibrous trigone and the interatrial septum and compressing the

left atrial roof (Fig. 1). The aorta was nonaneurysmal and there was no aortic regurgitation. At the time of surgery, there was a pseudoaneurysm of the noncoronary sinus of Valsava, bulging posteriorly and compressing and adherent to the left atrium roof which was filled with thrombus (Fig. 2). The noncoronary sinus was replaced with a tailored Dacron patch (Fig. 2). The patient tolerated the procedure well and had an uncomplicated postoperative course.

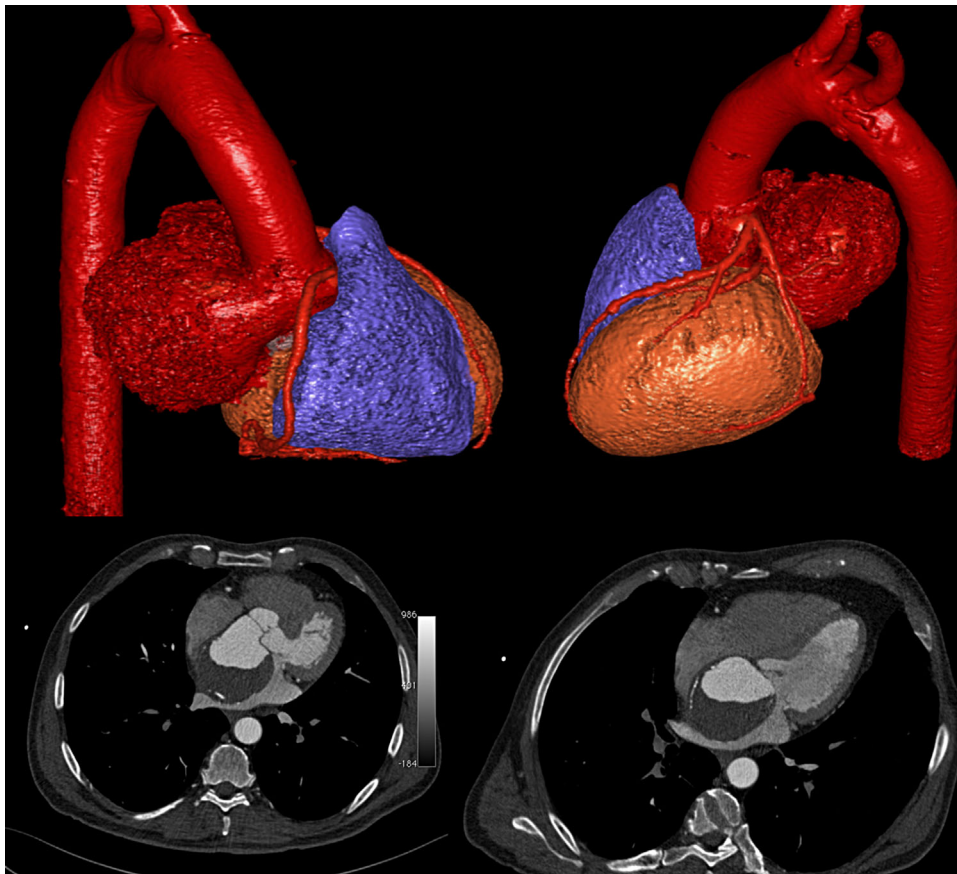


Figure 1. Above: three-dimensional contrast-enhanced ECG-gated computed tomography reconstructions showing a pseudoaneurysm of the noncoronary sinus of Valsalva. The right ventricle is shown in blue and the left ventricle is shown in orange. Below: transversal computed tomography images showing a pseudoaneurysm partially thrombosed and peripherally calcified.

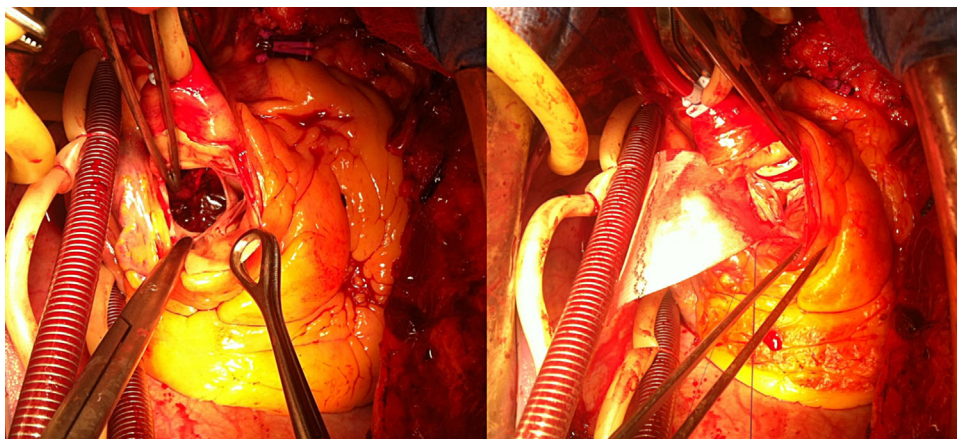


Figure 2. On the left: intraoperative view of the pseudoaneurysm of the noncoronary sinus after the aortotomy. The pseudoaneurysm had a large orifice and was filled with organized thrombi. On the right: replacement of the noncoronary sinus of Valsalva with a tailored Dacron patch.