

Ruptured sinus of Valsalva aneurysm association with bicuspid aortic valve

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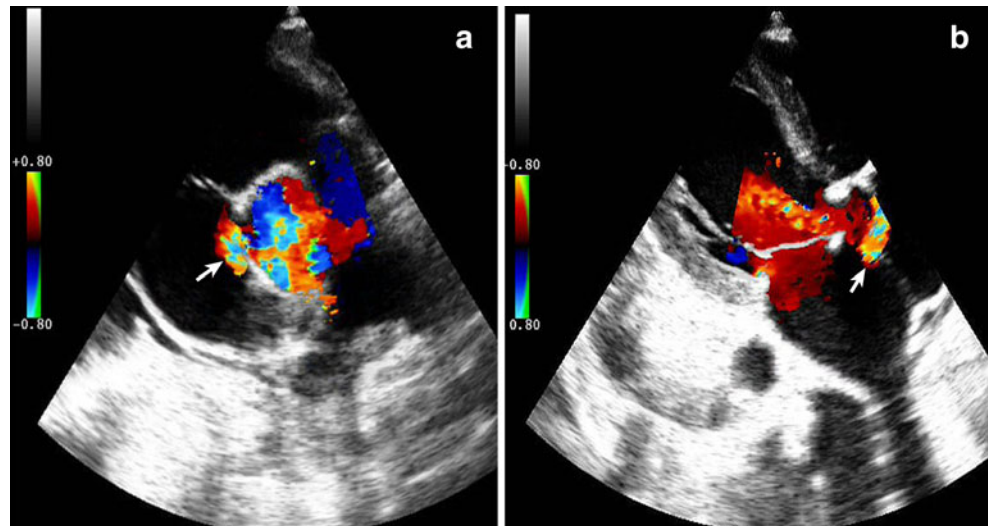
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Sinus of Valsalva aneurysm (SVA) is a rare cardiac anomaly and comprises less than 1% of congenital cardiac defects. It can be congenital or acquired. Echocardiography and cardiac magnetic resonance imaging are noninvasive imaging procedures primarily used for diagnosis.

A 47-year-old patient with a history of asthma was admitted through the emergency department which dyspnoea that had started three weeks previously. Physical examination revealed a regular pulse of 106 beats/min. The blood pressure was 110/60 mmHg. He had a grade 5

Fig. 1 Parasternal short- (a) and long-axis (b) view showing a ruptured sinus of Valsalva (arrow) with a bicuspid aortic valve



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continuous murmur and bilateral basal rales on physical examination.

Transthoracic echocardiography was performed and showed a slightly dilated right ventricle in the presence of a ruptured SVA left-to-right shunt from the aorta into the right atrium in association with a bicuspid aortic valve (Fig. 1). We had planned surgery but the patient refused the operation. SVA is an uncommon condition and association

with bicuspid aortic valve has been reported previously [1, 2]. Transoesophageal echocardiography and magnetic resonance imaging are useful for diagnosis and may help to delineate the anatomy further. Unfortunately, the patient did not give permission for further evaluation and treatment.

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