


Huge aneurysm of aortic right coronary sinus in an adult

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A 52-year-old woman was presented to the emergency room with recurrent oedema of lower extremity for 1 year. Chest X-ray showed a convex contour of the right superior mediastinum (Panel A). The transthoracic echocardiography demonstrated that the huge mass was originating from the aortic right coronary sinus and mild aortic valve regurgitation (Panels B and C, asterisk; Supplementary material online, Movies S1 and S2). Computed tomography revealed the unruptured aneurysm of right aortic sinus (10 × 9.5 cm) and obviously deform and affect the right atrial and right ventricle (Panel D, asterisk). Magnetic resonance clarified that the echolucent mass was a huge aneurysm of aortic right coronary sinus without thrombus and showed the oriﬁce connected to the right coronary sinus was about 2 cm (Panels E and F, asterisk; Supplementary material online, Movies S3 and S4). The patient received surgical intervention under the cardiopulmonary bypass. After pericardiotomy, the aneurysm was exposed and it filled almost all the pericardial cavity and compressed the right atrial and right ventricle (Panel G, asterisk). The aneurysm was identiﬁed originating from right coronary sinus and aortic valve is intact after incision of the aneurysm (Panel H, asterisk). The right coronary button was reimplanted to the aorta after reconstruction the oriﬁce with a patch of pericardium and excision of aneurysmal body (Panel I). The patient recovered uneventfully and discharged 9 days later.

Supplementary material is available at European Heart Journal online.

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