A 36-year-old man was hospitalised for signs of tricuspid valve stenosis. Computed tomography scan and echocardiography revealed a giant unruptured non-coronary sinus of Valsalva aneurysm without thrombosis, protruding into the right atrium (Fig. 1, Videos 1 and 2). Operative management consisted of resection of the aneurysmal wall and closure of the mouth with a polytetrafluoroethylene patch without aortic valve surgery (Fig. 2).

Fig. 1. (A) CT scan image. CT scan shows giant non-coronary sinus of Valsalva aneurysm with neighbouring structures. Arrows indicate closed aortic valves. Ao: aorta, NC-SVA: non-coronary sinus of Valsalva aneurysm, LV: left ventricle, PA: pulmonary artery. (B) TEE image. Trans-oesophageal echocardiography shows aortic cusps level image of sinus of Valsalva aneurysm. *Arrows show aortic cusps, **Arrows show tricuspid leaflet, RV: right ventricle, SVA: sinus of Valsalva aneurysm.

Fig. 2. Operative images of the giant sinus of Valsalva aneurysm. The orifice of the non-coronary sinus of Valsalva aneurysm after aortotomy is seen in (A), the giant Valsalva aneurysm wall in the right atrium is seen in (B), opened aneurysmal sac is seen in (C), patch closure of the non-coronary sinus is seen in (D).

Appendix A. Supplementary data