Images in cardio-thoracic surgery

Imaging of the mechanical heart valve pannus formation with multidetector computerised tomography

Sabahattin Gündüz a,*, Mehmet Özkan a, Murat Biteker a, Tahsin Güneysu b

a Department of Cardiology, Kosuyolu Kartal Heart Training and Research Hospital, Istanbul, Turkey
b Department of CT-Angiography, Sonomed Imaging Center, Istanbul, Turkey

Received 9 November 2009; received in revised form 5 January 2010; accepted 7 January 2010; Available online 20 February 2010

Keywords: Prosthetic heart valves; Pannus formation; Multidetector computerised tomography; Trans-oesophageal echocardiography

A 56-year-old woman with a history of mechanical mitral valve replacement 9 years earlier, presented with signs of severe valve obstruction assessed by echocardiography (Fig. 1 (A) and (B), video 1). Multidetector computerised tomography clearly depicted pannus overgrowth as the cause of obstruction (Figs. 1(C), (D) and 2(A), (B)). She underwent re-replacement and the pannus was confirmed surgically (Fig. 2(C) and (D)).

Appendix A. Supplementary data

Supplementary data associated with this article can be found, in the online version, at doi:10.1016/j.ejcts.2010.01.013.