Primary pulmonary artery sarcoma presenting as right heart failure

Suvitesh Luthra*, Alina Gallo, Susan Anthony and Stephen Westaby

Department of Cardiothoracic Surgery, John Radcliffe Hospital, Oxford, UK

* Corresponding author. Department of Cardiothoracic Surgery, John Radcliffe Hospital, Headley Way, Oxford OX3 9DU, UK. Tel: +44-1865-220269; fax: +44-1865-220268; e-mail: suviteshluthra@yahoo.com (S. Luthra).

Received 9 January 2012; received in revised form 30 January 2012; accepted 8 February 2012

Keywords: Pulmonary artery • Sarcoma

A patient presented with right heart failure from obstruction of the pulmonary arteries by a primary sarcoma (Fig. 1 A–C). The sarcoma was excised and the main pulmonary artery, pulmonary valve and a portion of the right ventricular outflow tract were resected. It was reconstructed with a homograft valve up to the bifurcation (Fig. 1 D–F).

Figure 1: (A) Magnetic resonance imaging—primary sarcoma obstructing the pulmonary arteries. (B and C) Computed tomography (CT) reconstructions showing the almost complete obstruction of the bifurcation of pulmonary arteries. (D) CT angio of the reconstruction of the right ventricular outflow, main pulmonary artery and the bifurcation using homograft. (E and F) CT reconstructions of the repair after excision of sarcoma.

© The Author 2012. Published by Oxford University Press on behalf of the European Association for Cardio-Thoracic Surgery. All rights reserved.