Images in cardio-thoracic surgery

Post traumatic large pseudoaneurysms of the aortic arch and descending aorta

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A 38-year-old patient presented with hoarseness 3 years after a severe trauma. CT scan revealed a large pseudoaneurysm of the transverse arch due to disruption of the innominate artery (Fig. 1) and a smaller pseudoaneurysm of the descending aorta (Fig. 2). The patient underwent successful open arch repair and descending aorta stent-grafting.

Fig. 1. Axial CT showing compression of the trachea by the large pseudoaneurysm, and the disruption of the innominate artery. It measured 67 mm × 50 mm.

Fig. 2. Reconstructed CT image showing the large pseudoaneurysm of the transverse arch and the smaller one distally, with the small one measuring 23.5 mm × 12.5 mm.