

A rare presentation of idiopathic right subclavian artery aneurysm successfully tackled by endovascular stent-grafting

A 32-year-old woman presented with symptoms of dysphagia to solid food for 6 months. She had no significant past medical history or trauma. Examination revealed a subtly palpable pulsatile swelling at the root of right side of the neck. Contrast-enhanced CT showed a complex saccular aneurysm of the proximal right subclavian artery (figure 1A, B). The involved aneurysmal segment contained three separate saccules, the largest of which measured 4.7×2.3 cm. A selective digital subtraction angiography was done contemplating the possibility of endovascular intervention (figure 1C). In a cross-section image, the

aneurysm is seen abutting the trachea which in turn compresses the oesophagus (figure 2A). Oesophago-gastroduodenoscopy was normal. Barium swallow showed smooth extrinsic compression of the oesophageal lumen at the level of aneurysm (figure 2B). An extensive aetiological work-up ruled out atherosclerosis, connective tissue disorders, vasculitis, infections, collagen disorders and congenital cardiovascular anomalies. She was taken up for endovascular stent-grafting and the aneurysm was successfully excluded using two stent-grafts (figure 3A, B). At follow-up, she has complete resolution of symptoms.

DISCUSSION

Subclavian artery aneurysm accounts for <0.2% of all aneurysms. Atherosclerosis, trauma, infections, vasculitis, connective tissue disorders and collagen vascular disease are causative for more than 95% of these.¹ Idiopathic subclavian aneurysms have very rarely been reported and most of them are considered congenital.²

The aneurysms are usually detected incidentally, but when symptomatic they commonly present as a pulsatile mass, neck pain, upper-limb ischaemia or mediastinal mass. Rare presentations that have been reported include dyspnoea, dysphagia and



Figure 1 (A) Sagittal section of contrast-enhanced CT of neck showing the complex right subclavian aneurysm. (B) Reconstructed CT angiogram image showing the aortic arch vessels and complex aneurysm at the proximal right subclavian artery. (C) Digital subtraction angiography showing the 3 separate saccules of the complex aneurysmal segment.

Figure 2 (A) Horizontal cross-section of contrast-enhanced CT showing the aneurysm pushing the trachea which, in turn, compresses the oesophagus. (B) Barium swallow image in oblique view showing focal smooth compression of the oesophageal lumen.

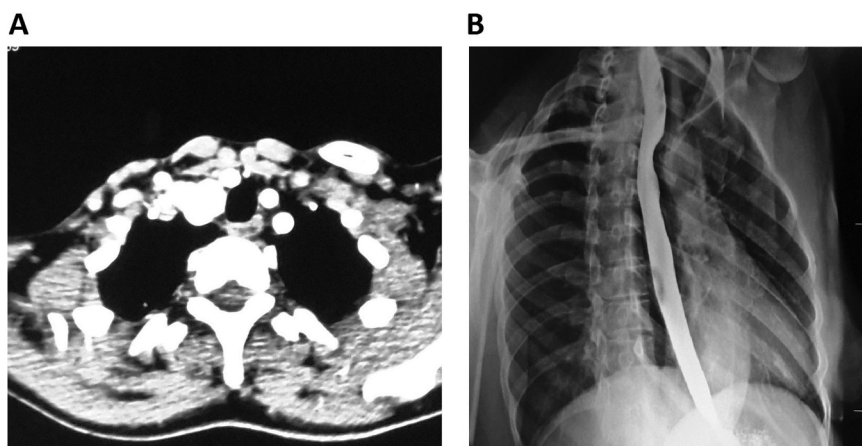
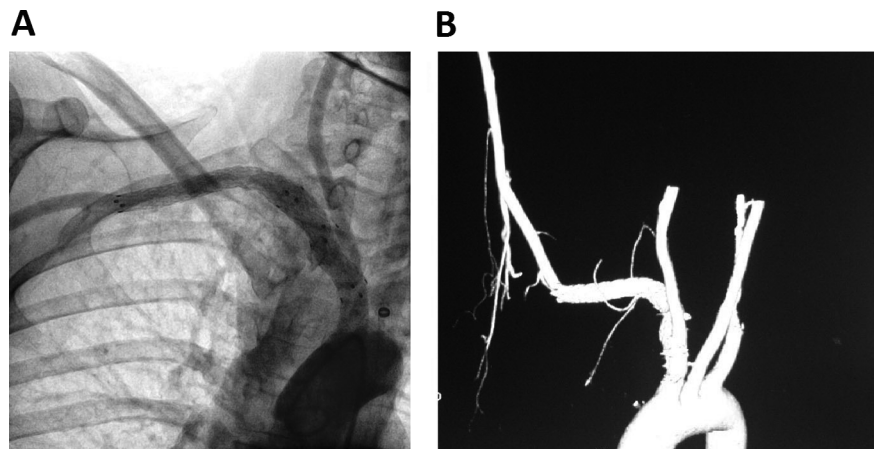


Figure 3 (A) Final angiographic pigtail injection at the ascending aorta after covered stent-graft placement showing complete exclusion of the aneurysm. (B) Multidetector CT reconstructed image poststent graft repair.



haemoptysis.³ Endovascular stent-grafting has been increasingly reported as a management option.

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