Challenging EVAR in highly angulated neck >106 degree
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Introduction

The Improvements in the new stent-graft designs and better tractability of the delivery systems have resulted in increased use of EVAR in complex and challenging aneurysm anatomies. In this case we discuss our experience with the new inteliflex delivery system of Aorfix endovascular stent graft.

Case Presentation

A 77 year old man presented to our hospital with constipation.

Past medical history included Stroke, COPD, hypertension and atrial fibrillation (on Rivaroxaban and Asirin).

CT demonstrates 6.2 cm Infrarenal AAA with 106 degree Neck Angulation (Neck length is 18mm, diameter is 20mm). He also has bilateral Common iliac arteries aneurysms (Right, 5.2cm and left, 9.5cm) and right Internal iliac artery aneurysm.

Following preoperative assessment and MDT discussion, there was a consensus that in view of the size of his left CIAA (9.5cm), he should have EVAR quickly.

Technique:

Firstly, he underwent left IIA coil embolization. Ten days later he had right IAAA embolization and after another 10 days he underwent EVAR.

We first achieved bilateral femoral and left brachial access through surgical cut-downs. A 260 cm glide wire was advanced within the thoracic aorta and was snared via the right common femoral artery. We used Aorfix endovascular stent graft (New Inteliflex System). The main body was deployed via the right CFA. It was molded with a Coda balloon followed by the deployment of the epsilateral limb. Then the contralateral limb was deployed.

Results:

He had an uneventful recovery and was discharged after 3 days. Follow up scan at 3 months showed no endoleak, decrease in sac size, patent limbs and renal arteries.

Conclusion

EVAR strategies can be used for highly angulated neck in the physiologically unwell patient with multiple co-morbidities. Optimal preprocedural planning is essential to achieve a successful EVAR in these patients. The new inteliflex delivery system was easy to use, the deployment was controlled and the graft conforms well to the anatomy.