

Chimney-EVAS as a strategy for the treatment of a type I endoleak.

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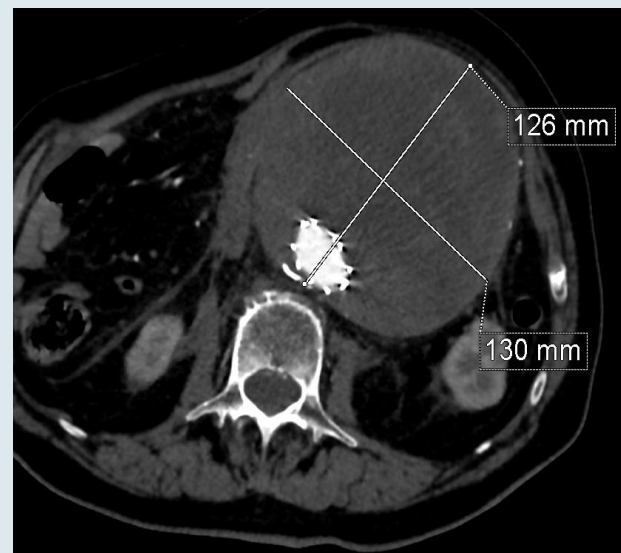
Introduction

Endovascular aneurysm sealing (EVAS) with the Nellix device represents an innovative technique in the treatment of AAAs.

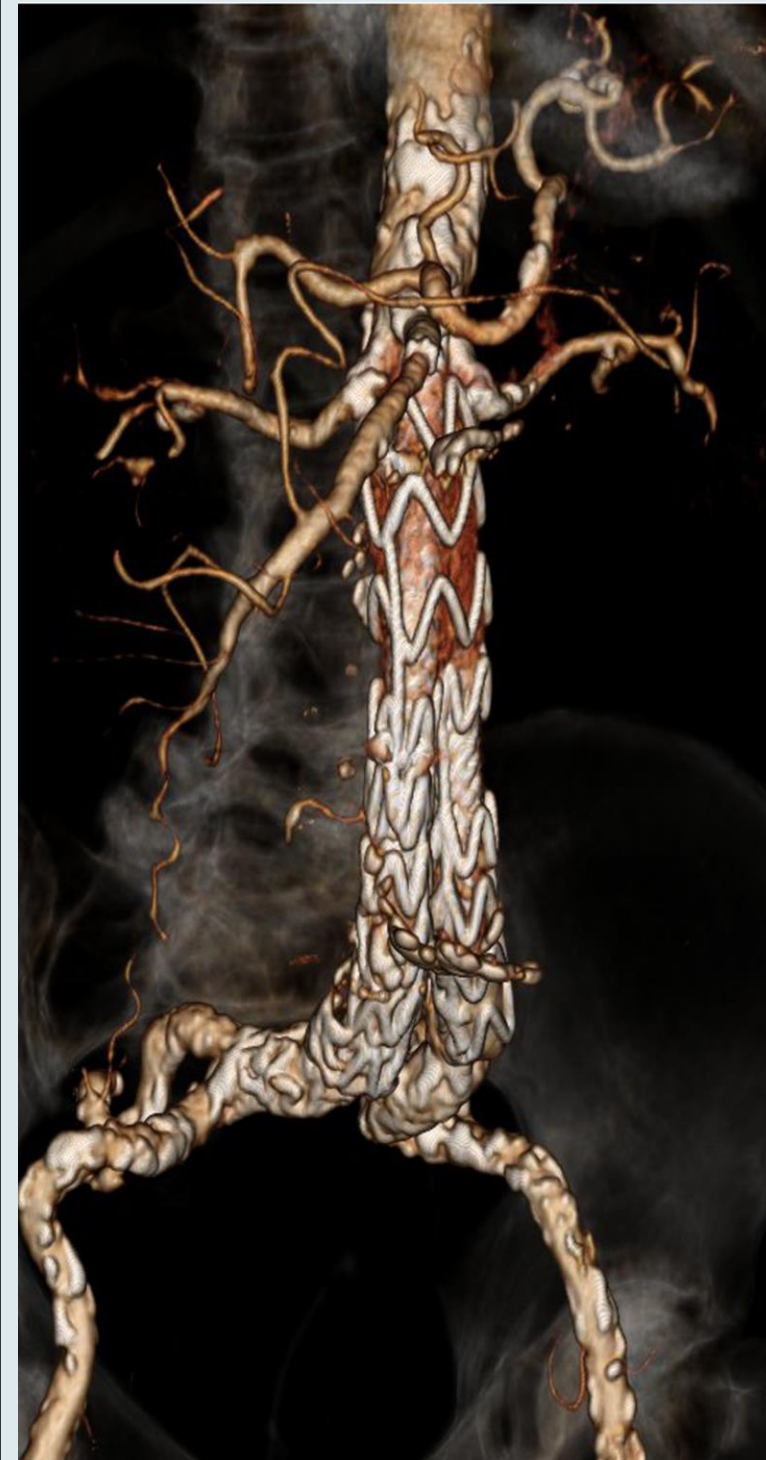
Chimney – Endovascular Repair (Ch-EVAR) is commonly used in the treatment of juxtarenal aneurysms when the patient is unsuitable for open repair or fenestrated endograft implantation. The main issue with chimney technique is related to gutter endoleak. This risk could be reduced with the use of a Nellix device, that could fill the gutter, thus reducing the risk of type I endoleak.

Case report

A 91 year old male patient came acutely to our institution for a type I and type III endoleak with aneurysmal growth on previous EVAR, symptomatic for abdominal pain and bowel obstruction. CT scan revealed a juxtarenal aortic aneurysm of 13 cm in diameter with graft migration. The patient was deemed unsuitable for open repair due to severe comorbidities. Therefore, he was treated with the Nellix EVAS system and triple chimney stent-grafts for renal arteries and superior mesenteric artery. Postoperative CT scan confirmed a completely sealed aneurysmal sac and patency of the chimney stents also verified at 2 months by Duplex scan.



Preoperative CTA



Postoperative CTA



Conclusion

The results of chimney technique could improve using a Nellix device. The use of such technique could expand the indications of EVAS in case of juxtarenal aneurysms in patients unsuitable for open repair and FEVAR, especially in an emergency setting.

AUTHORS DISCLOSURE INFORMATION

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