New endovascular solution in the treatment of complex pararenal aneurysms.

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INTRODUCTION
We report three cases of endovascular treatment for pararenal abdominal aortic aneurysm associated with narrow aortic bifurcation, consisting in combining two different concepts of endograft, a custom-made fenestrated and an Endologix AFX bifurcated graft.

METHODS
In the reported cases, we describe the treatment of pararenal aortic aneurysms, with neck lengths < 0.8 cm and aortic bifurcation diameter < 16 mm, through custom made fenestrated endograft combined with Endologix AFX endograft distally. The procedures were performed under general anesthesia. A custom-made tubular aortic cuff with scallop at the superior mesenteric artery (SMA) and double fenestration for the renal arteries was designed (Bolton Medical).

RESULTS
The final angiogram showed technical success, with complete abdominal aortic aneurysm exclusion and absence of endoleak, patency of the iliac axes and perfusion of the targeted visceral arteries, as confirmed by the postoperative CT angiography in all cases. The 1-year follow-up controls (available in 2 patients) did not show any complication.

CONCLUSION
An endograft specifically designed for narrow aortic bifurcation can be safely and effectively combined with a fenestrated endograft. Further studies are necessary to assess the long term results.