**An AFX bifurcated unibody endograft in extremely severe narrowing of aortic bifurcation**

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**Introduction:** Endovascular aortic aneurysm repair (EVAR) is a low peri-operative morbidity procedure in treatment of abdominal aortic aneurysm (AAA). However, a narrow aortic bifurcation is one technical concern that compression of the limb’s stent graft by means of a competition mechanism between limbs could be result in limb occlusion or vessel disruption during EVAR. An AFX-2 is a bifurcated unibody endograft which allows small single lumen on the aortic bifurcation. Aim of study is to demonstrate the early results of AFX-2 in patients with narrowing of the aortic bifurcation.

**Method:** Between August 2017 and July 2019, 12 consecutive AAA patients with narrowing of the distal aortic bifurcation were underwent EVAR using the AFX-2. Stent graft patency and other graft-related complications were observed.

**Result:** The unibody single lumen at aortic bifurcation can avoid asymmetric compression of bifurcated limbs endograft. 12 cases of AFX-2 were deployed in AAA with narrowing of aortic bifurcation. 2 cases (16.7%) were severe narrowing distal aortic bifurcation (10-14 mm in diameter) and 1 case were extremely severe narrowing aortic bifurcation (< 10mm in diameter) with napkin-ring aorta (circumferentially calcified narrow aorta). 100% of immediate and 6-months patency were confirmed by angiogram. No endoleak or graft kinking/occlusion was observed. AUI stent graft or open surgical conversion to excluded AAA was not required.

**Conclusion:** AFX-2 unibody endograft is safe and preferred to treat the AAA with severe narrowing aortic bifurcation. Angiogram demonstrating exclusion of the AAA and patent endograft. However, long term follow-up result and further study are still required.

![Angiogram demonstrating exclusion of the AAA and patent endograft](image-url)