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The combination usage of AFX and iliac extender for iliac artery aneurysms

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Disclosure

Speaker name: Hitoshi Goto

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I have the following potential conflicts of interest to report:

Consulting

- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s)
-

I do not have any potential conflict of interest

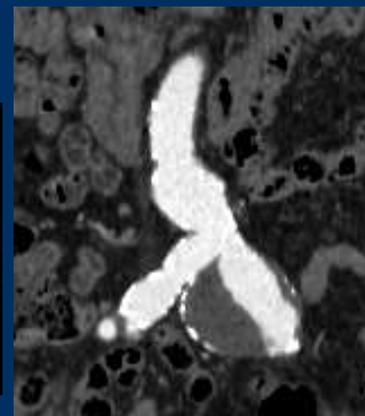




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Isolated iliac artery aneurysms

- Uncommon disease, < 2% of aorto-iliac artery aneurysms
- Indication for treatment; over 30-35mm or saccular
- Treatment options;
Open: Bypass, Ligation, Endo-aneurysmorrhapy
Endovascular: Stent graft, Embolization

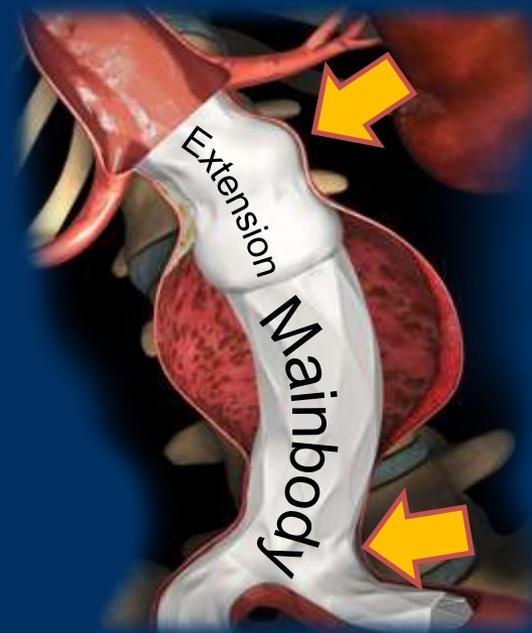




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AFX Endovascular AAA system ***(Endologix)***

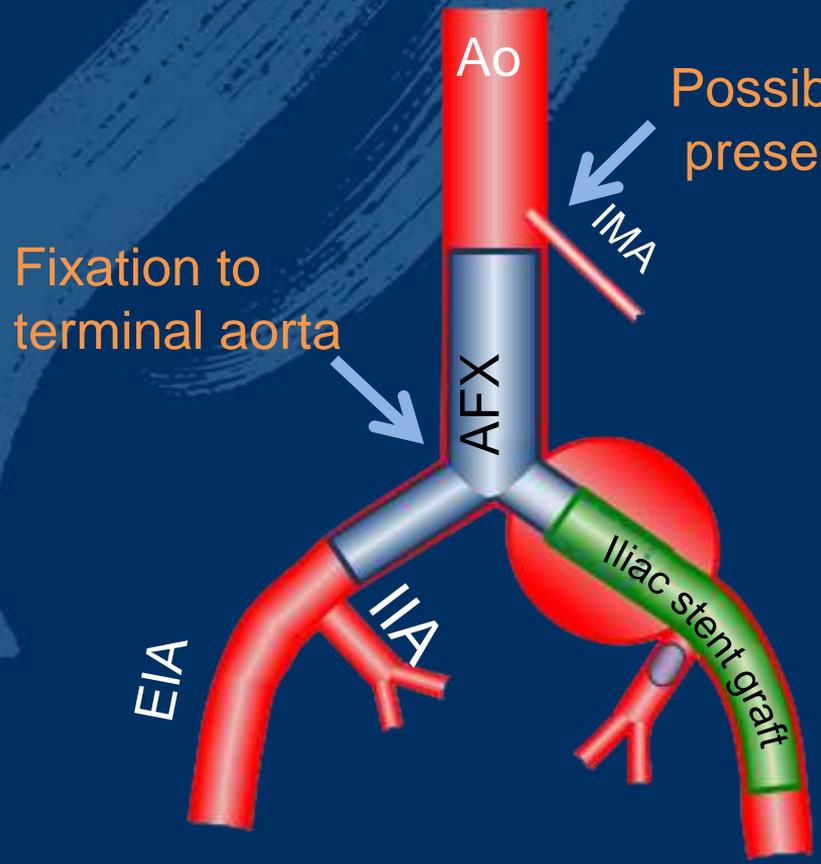
- 1) Anatomical fixation by unibody structure
- 2) Thin-walled, low porosity, multi-layered ePTFE graft
- 3) ActiveSeal, unique sealing mechanism at the proximal neck and terminal aorta.



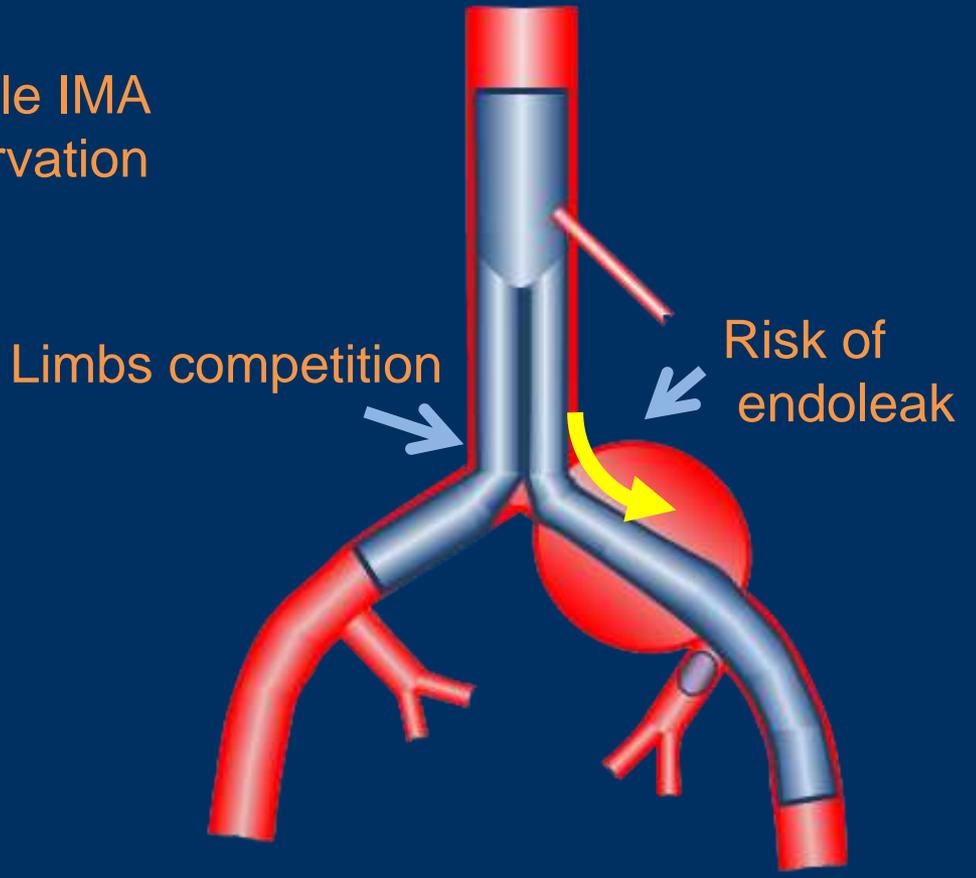


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AFX for isolated iliac artery aneurysms has some benefits



AFX + Iliac stent graft



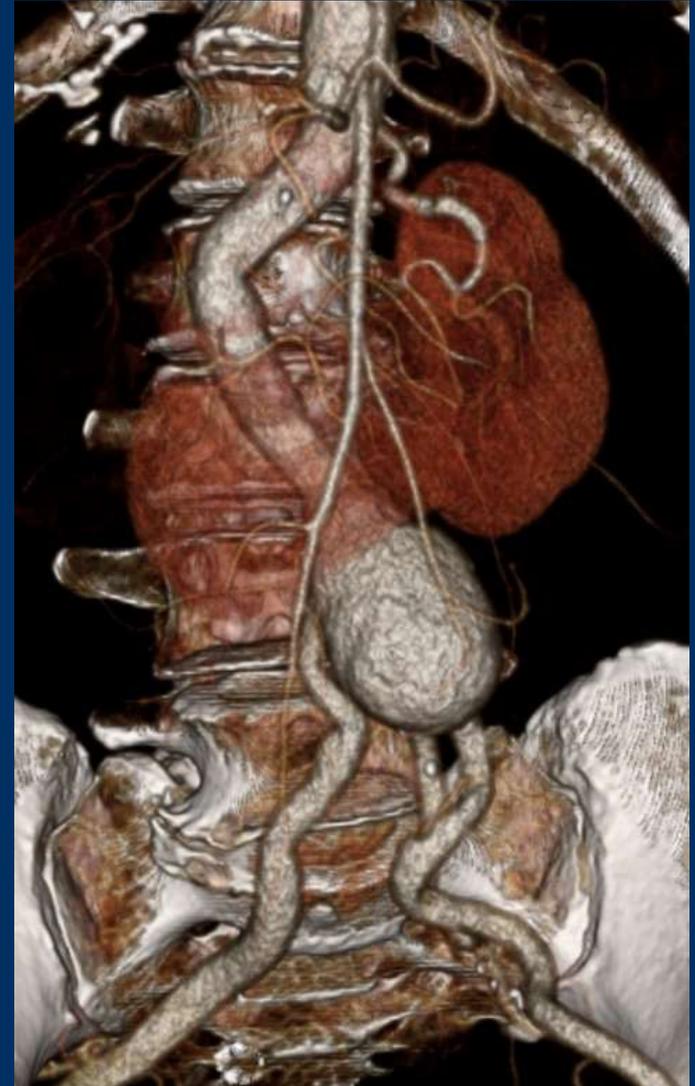
Usual stent graft



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Case presentation

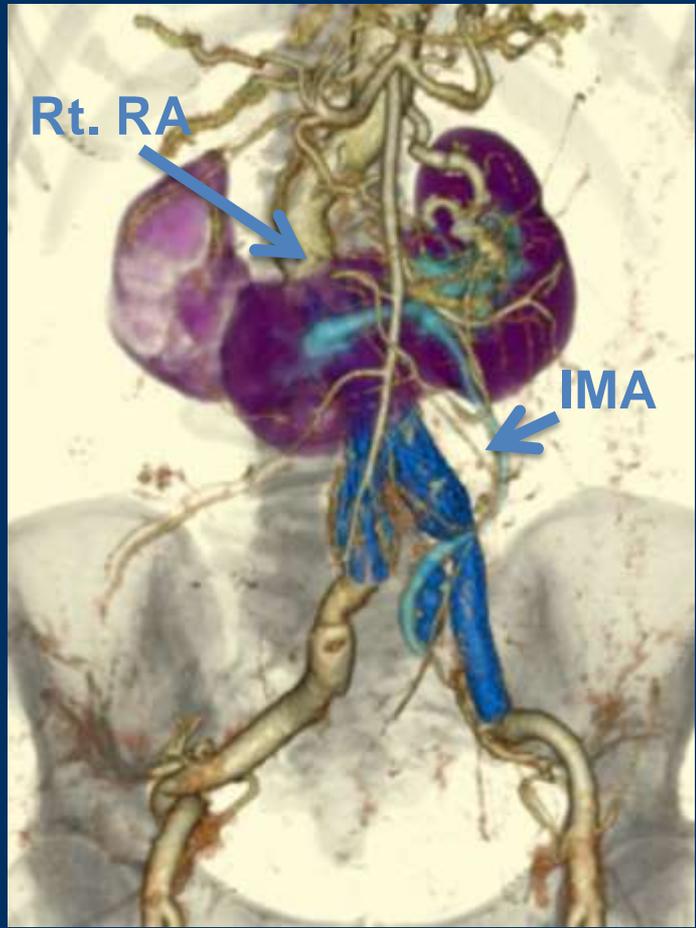
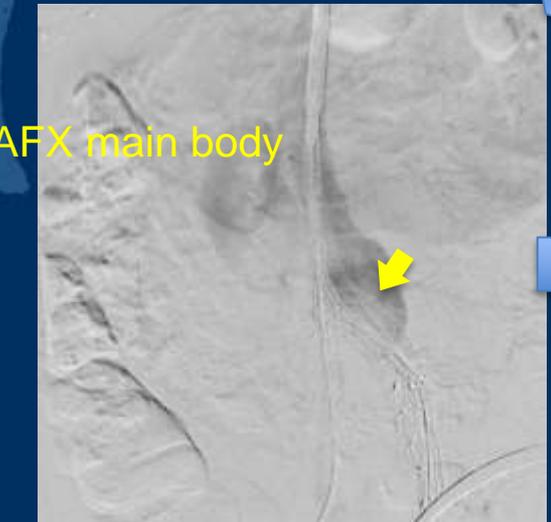
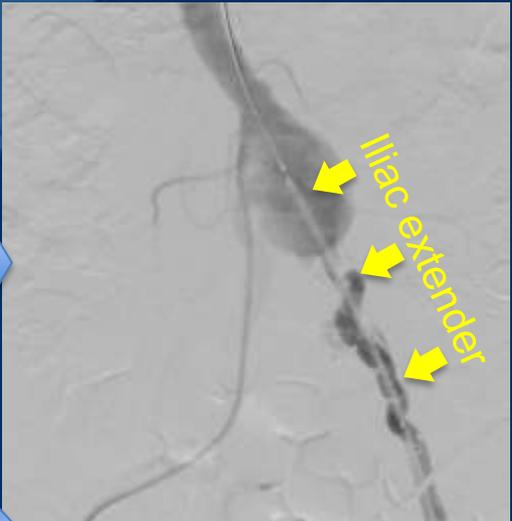
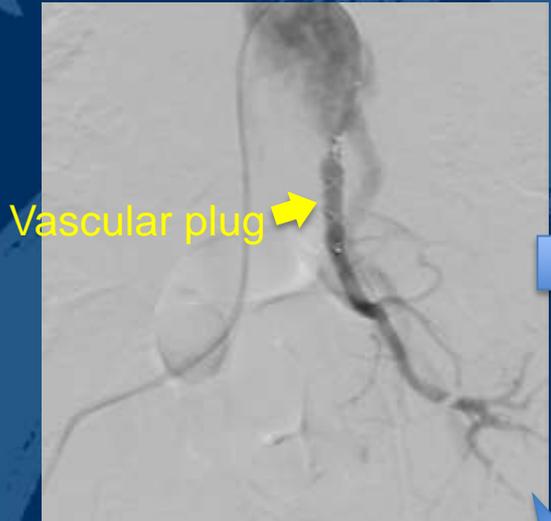
- 67 y/o, female
- Lt. CIA saccular aneurysm ($\phi 46\text{mm}$) was detected during examinations for pyelonephritis.
- The problems
 - Horseshoe kidney
 - Lower level of right renal artery
 - Curved external iliac artery
 - Vascular anomaly





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Procedure



VR CT on 7POD



Method and cases

- January 2016 – January 2017
- Seven patients with isolated iliac artery aneurysm(s) treated using this method at our institute were retrospectively surveyed.
- Median age: 73 y/o, male: 5
- Comorbidity: HT 7, CAD 3, COPD 6, CKD 2, Hostile abdomen 2
- Aneurysm location
 - Unilateral CIA : 5
 - Bilateral IIA : 1
 - Bilateral CIA and IIA : 1
- Median aneurysm diameter: 40.5 mm (fusiform 5, saccular 2)



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Outcome

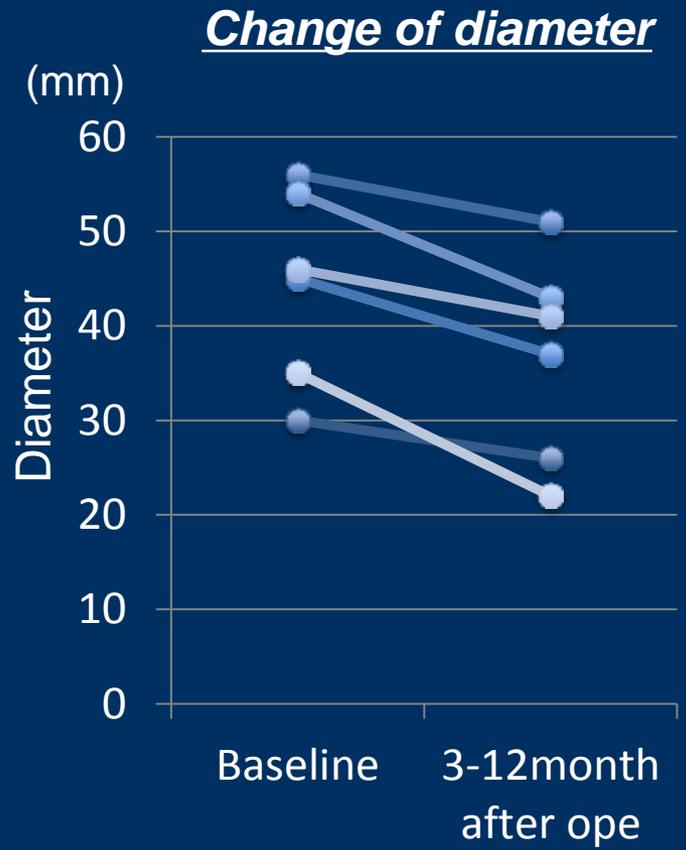
- Anesthesia: General 6 , Local 1
- Operative duration (median): 168min.
- IIA embolization: 6 / 7
- Iliac extension:
 - Excluder 6, Endurant 1
- Initial technical success: 100%
- Intraoperative endoleak : 0
- IMA preservation: 4 / 7
- Complication:
 - Major; 0
 - Minor; buttock claudication 1



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Outcome

- Median follow up period 7months (1-12months)
- Endoleak during follow up none
- Most of cases have been showing sac shrinkage.





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Conclusion

- Combined usage of AFX and iliac extender was considered as a preferred treatment for isolated iliac artery aneurysm .

Future prospects

- The unibody form of AFX could be applicable to other aorto-iliac diseases such as aorto-iliac occlusive disease or saddle embolism.



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