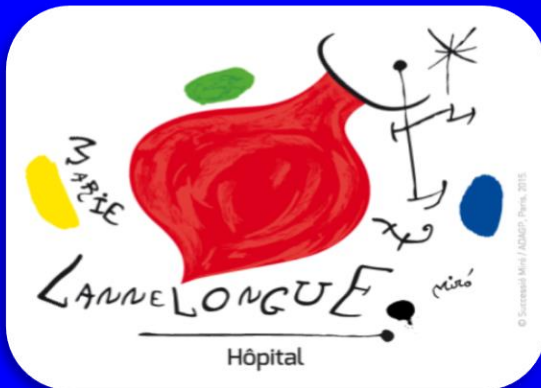


20TH INTERNATIONAL EXPERTS SYMPOSIUM
CRITICAL ISSUES
in aortic endografting 2016
www.critical-issues-congress.com

Laser fenestrations for emergency repairs: real
life or only in the movies?

Dr Dominique Fabre



**MARIE LANNE LONGUE HOSPITAL
PARIS-SUD UNIVERSITY, FRANCE**

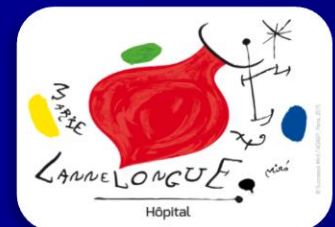


Disclosure

Speaker name:

Dominique Fabre.

Consultant for Kardiozis



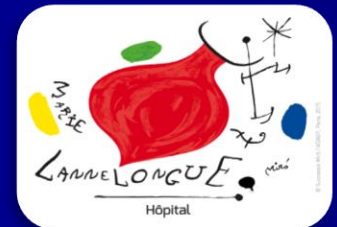
Background

Validity of Retrograde Laser fenestration

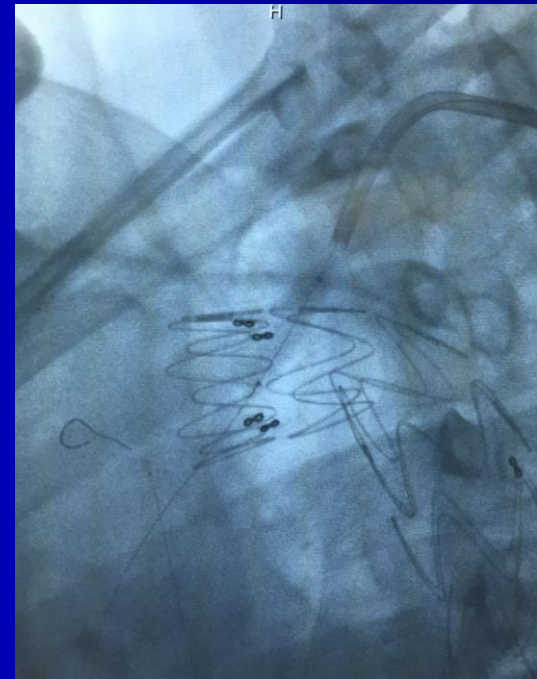
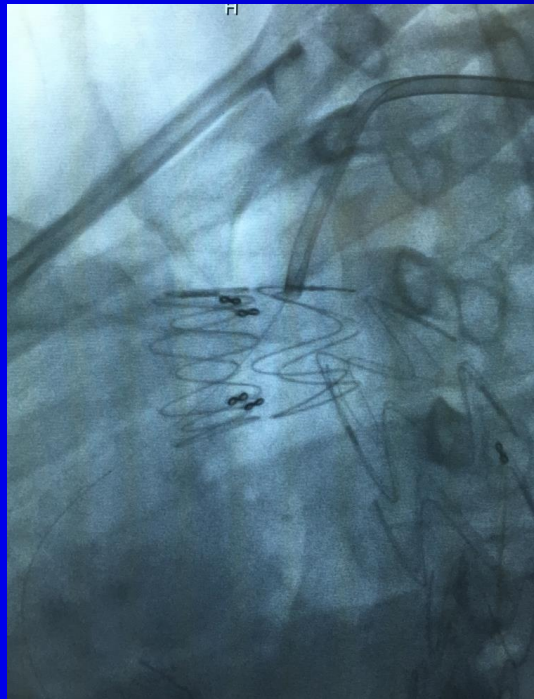
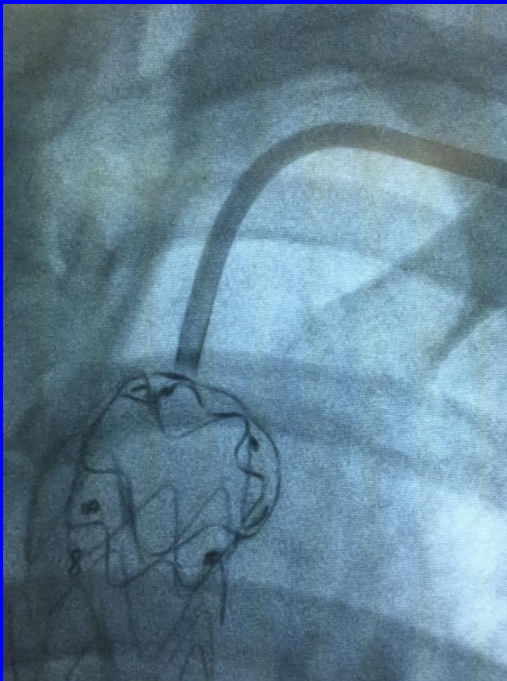


Retrograde LSCA
Feasible
Effective option
Acute thoracic aortic pathology
Excellent midterm patency

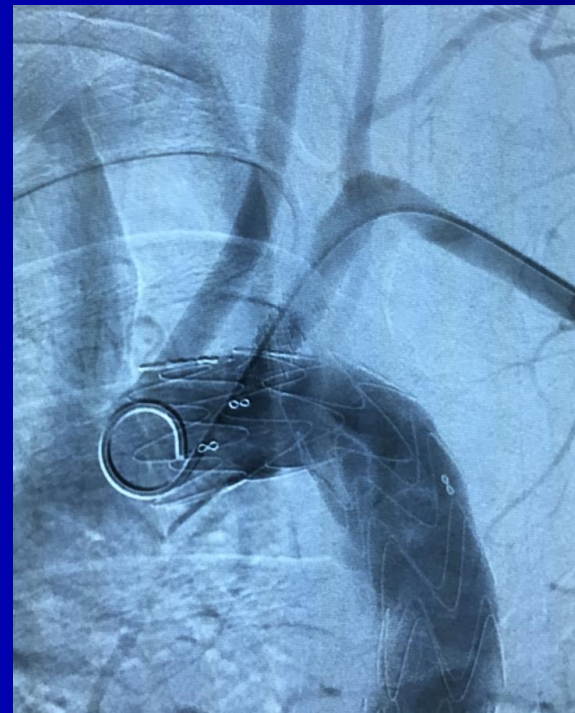
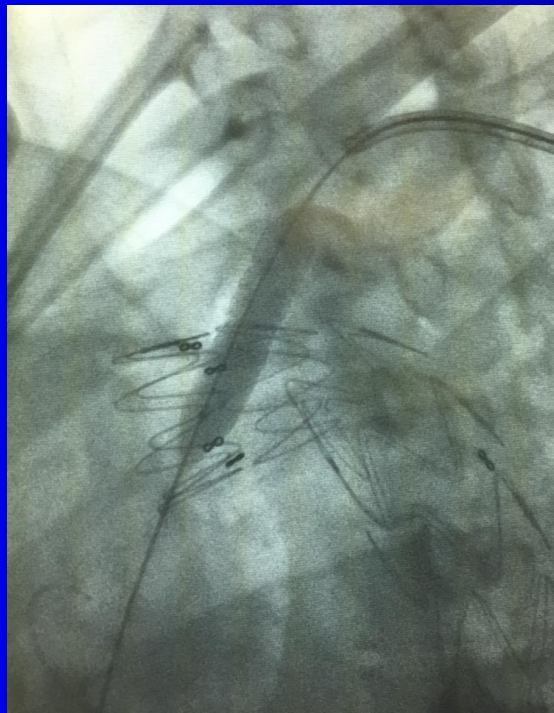
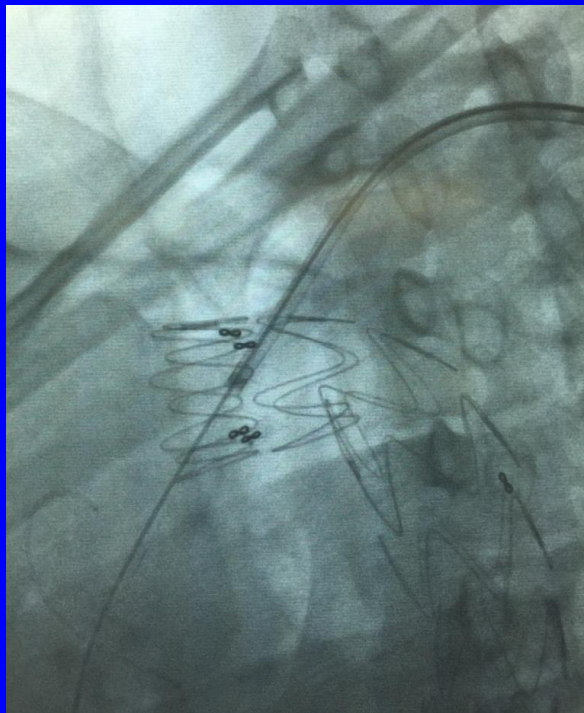
Panneton JVS 2013



LSCA Retrograde Laser fenestration



LSCA Retrograde Laser fenestration



Purpose

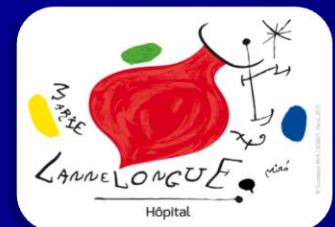
In situ Anterograde
Laser Fenestration

for TAAA
Pararenal AAA
Type I EL



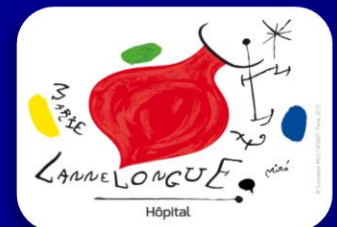
Off Label Procedure
Dedicated to patients unfit for:
Standart OR
Standart FEVAR

Replace Parallel graft procedure

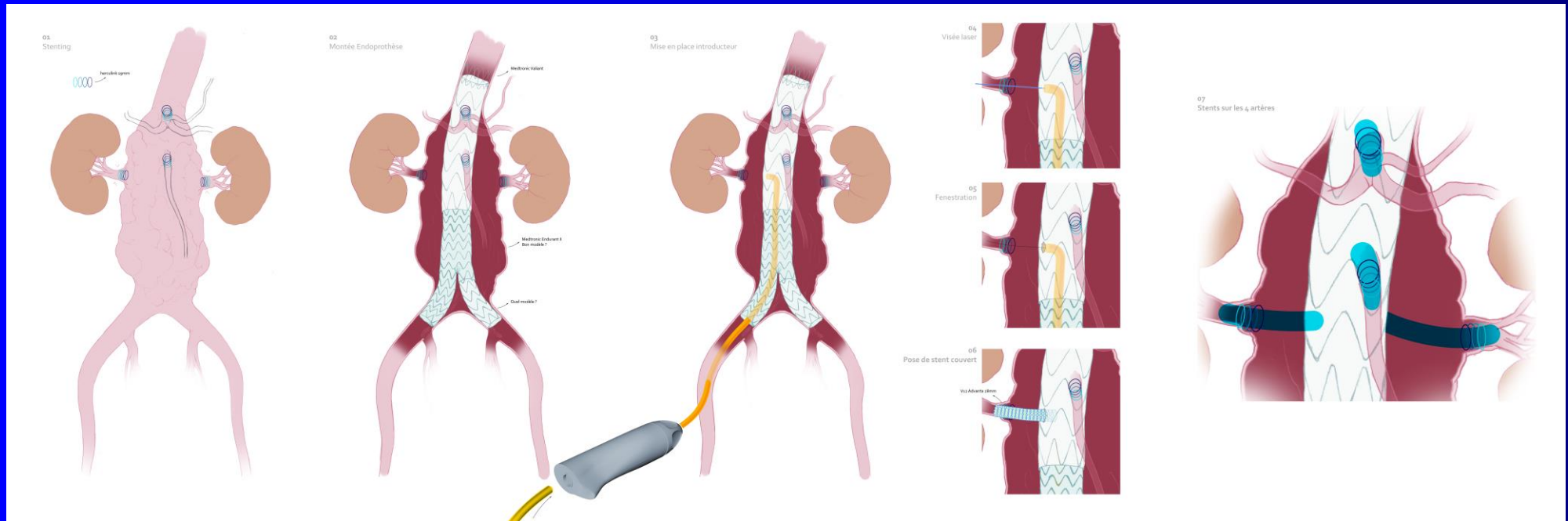


Anterograde Laser fenestration

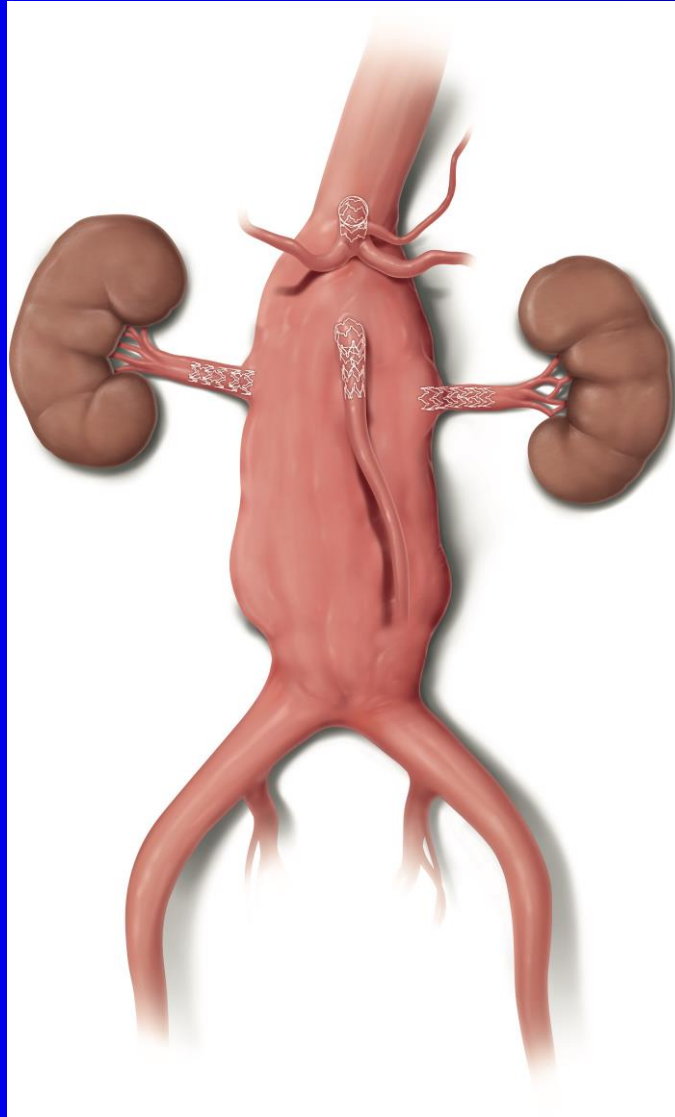
The critical issue is : can we perform
anterograde laser fenestration that is a blind
approach?



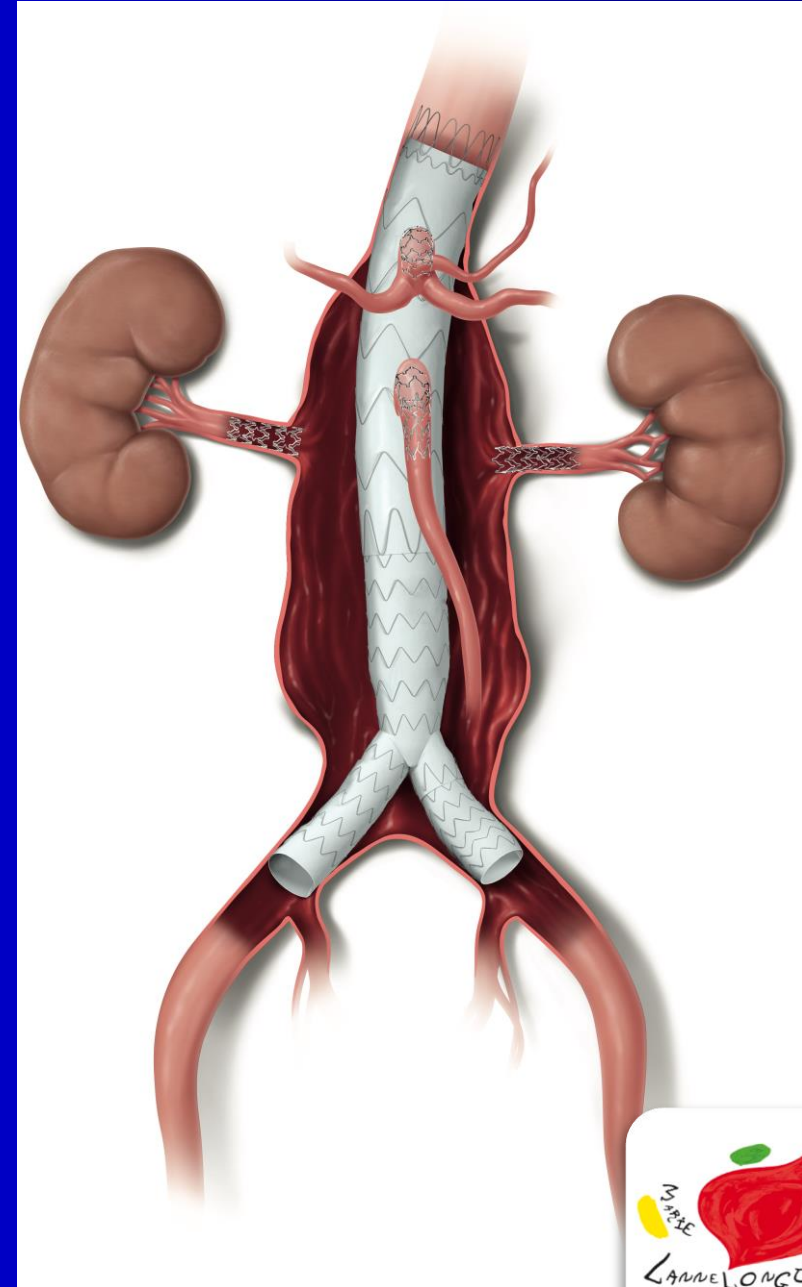
Technique for in situ anterograde Laser Fenestration



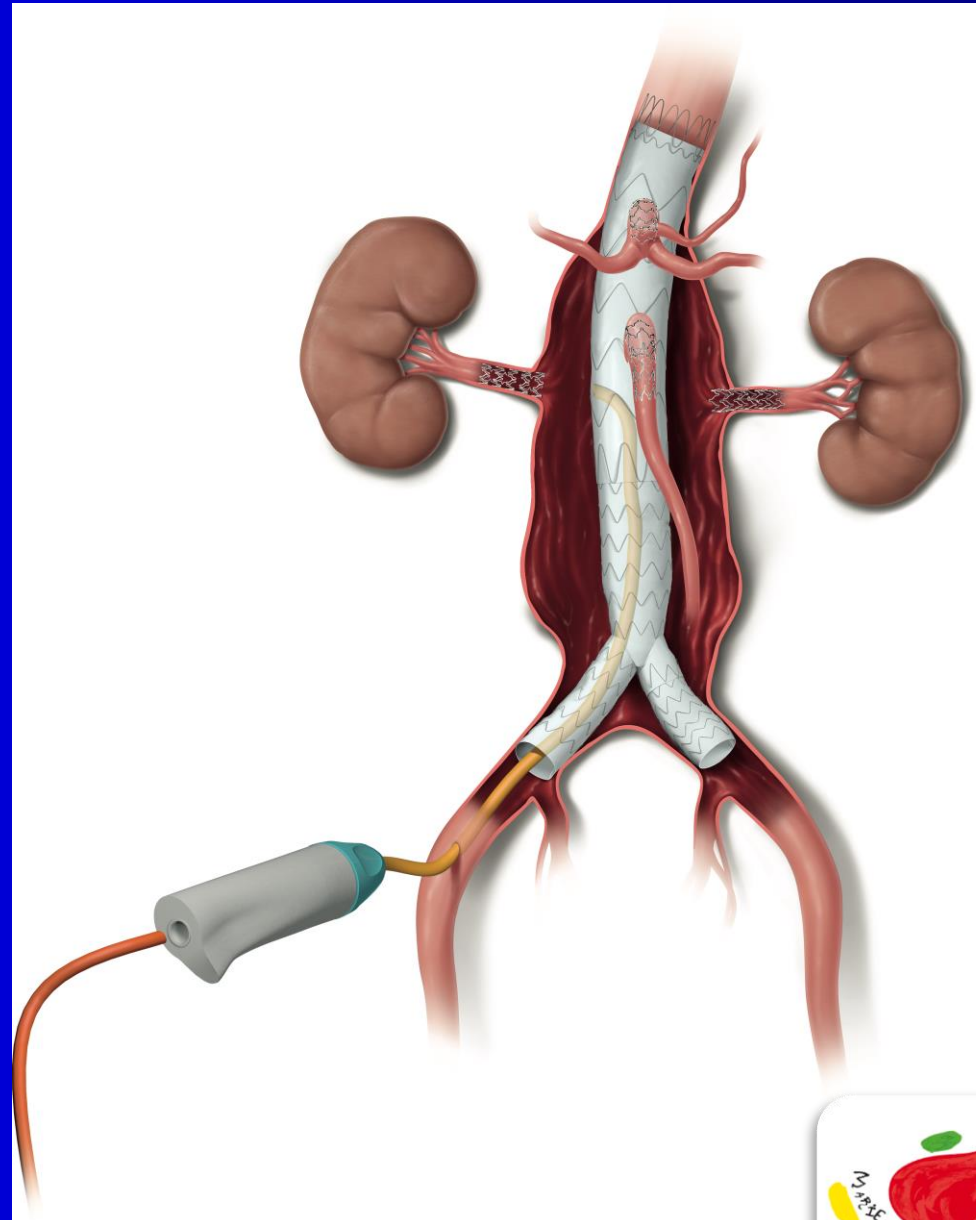
Pre stenting of each targeted arteries



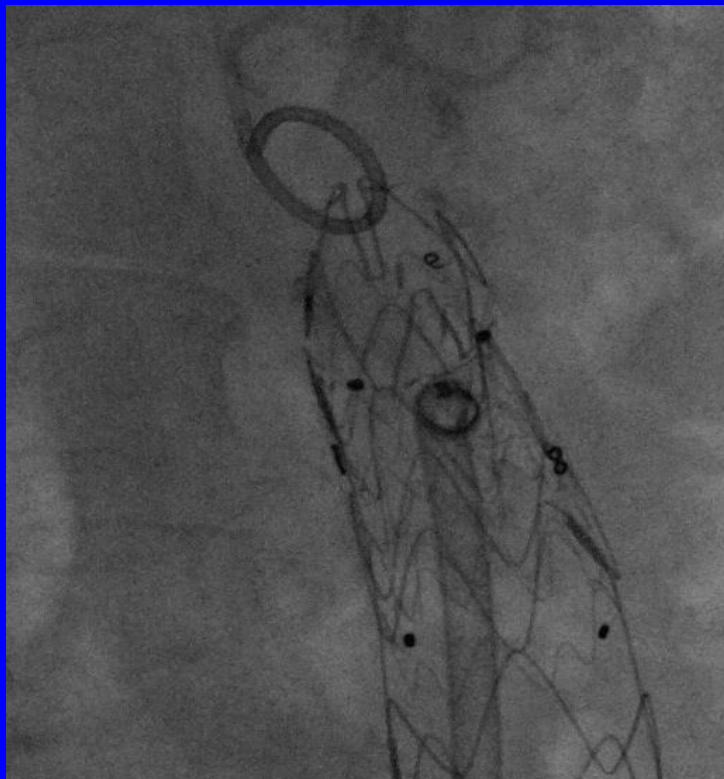
Stentgraft deployment at the level of the aneurysm



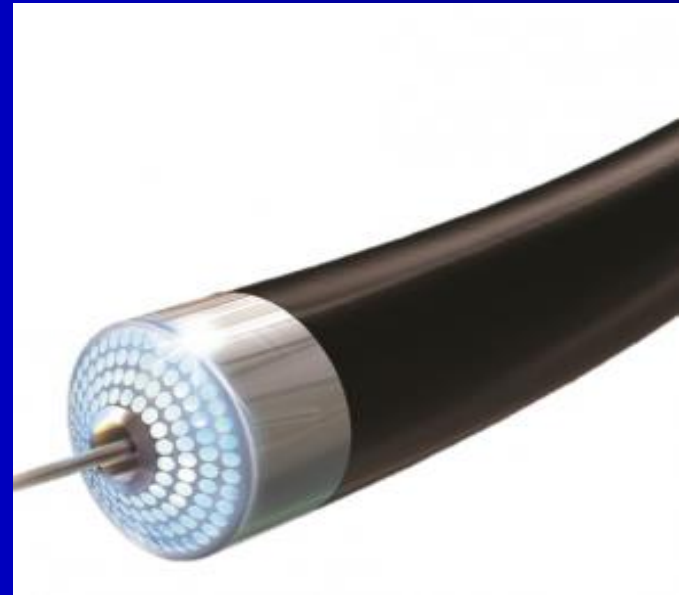
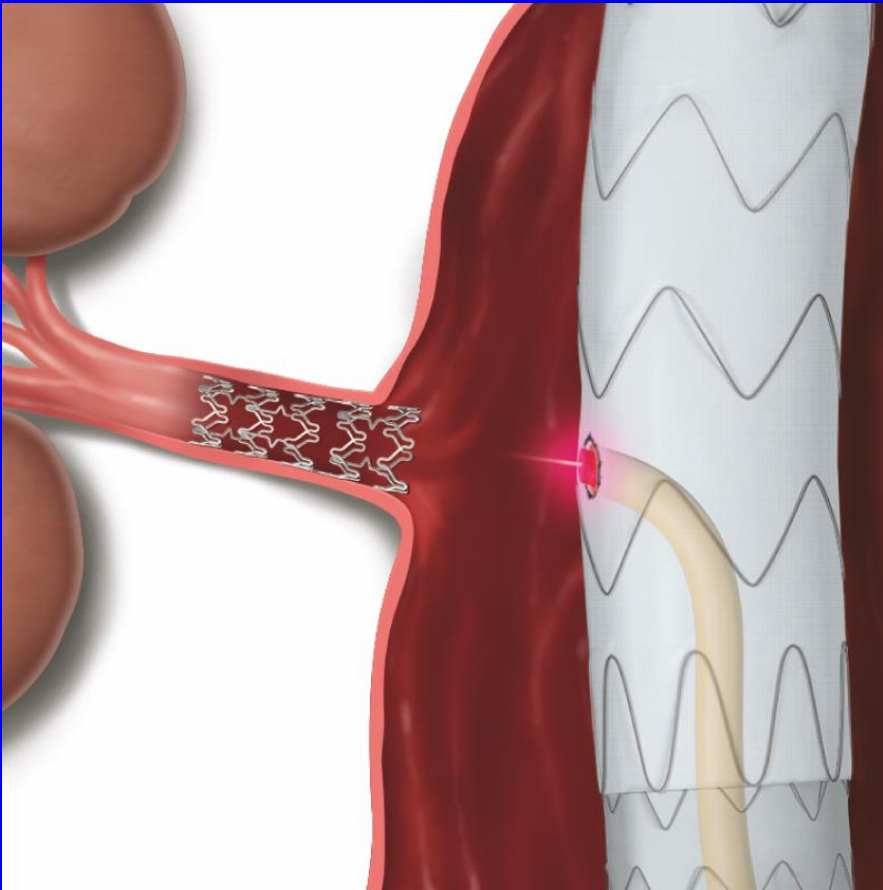
Aptus 16 Fr
Deployment
At the level of each
Targeted artery

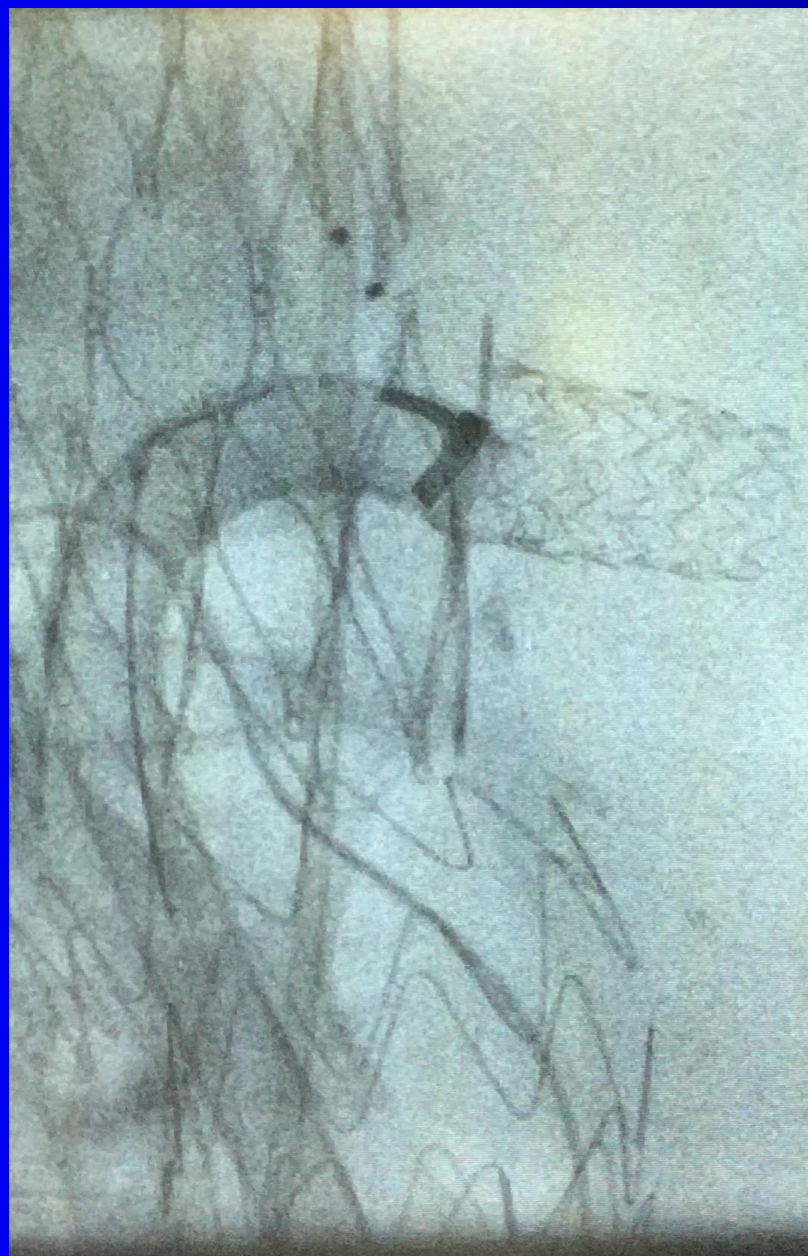


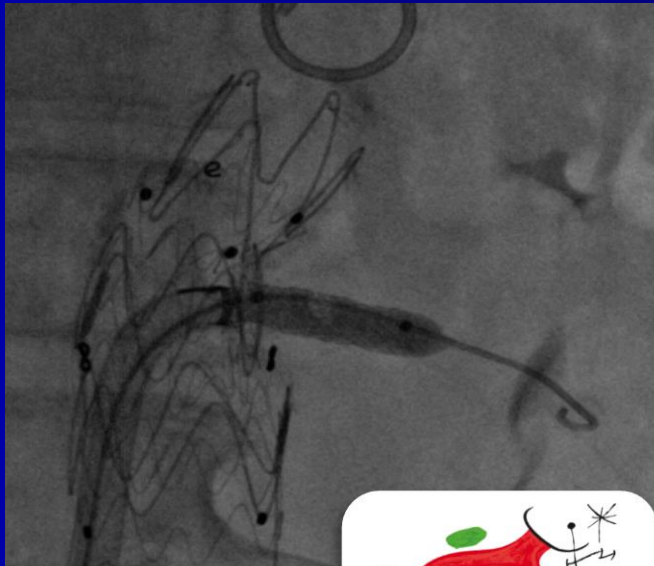
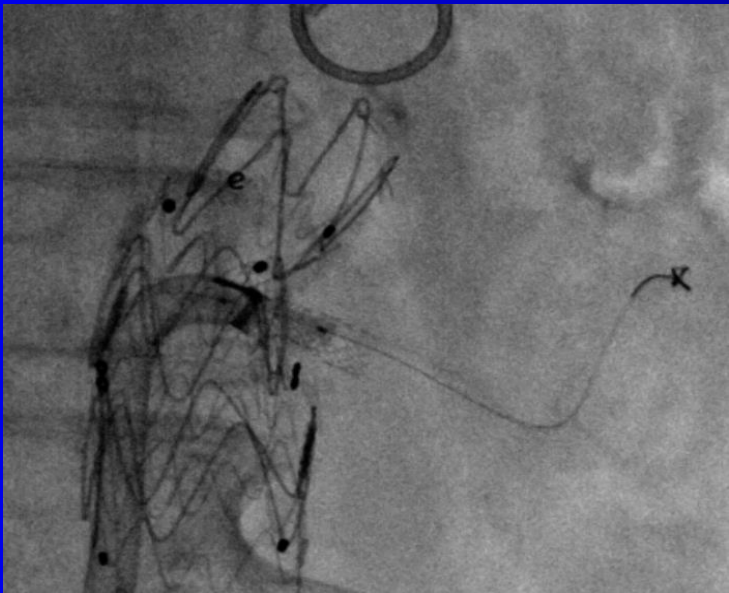
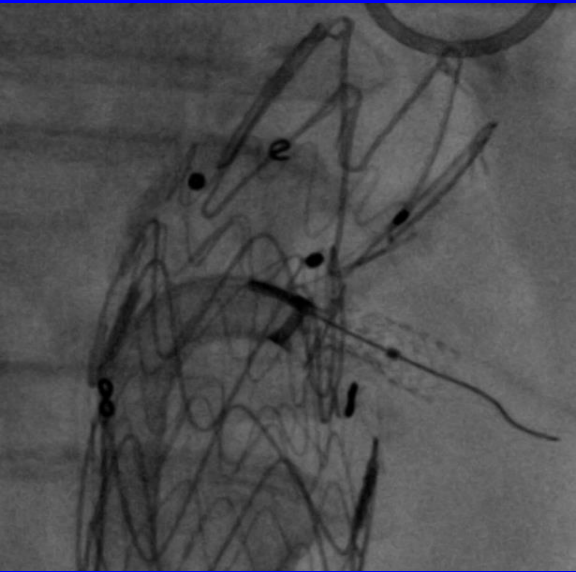
Two orthogonal views



Laser Fenestration 0.9 mm Monorail

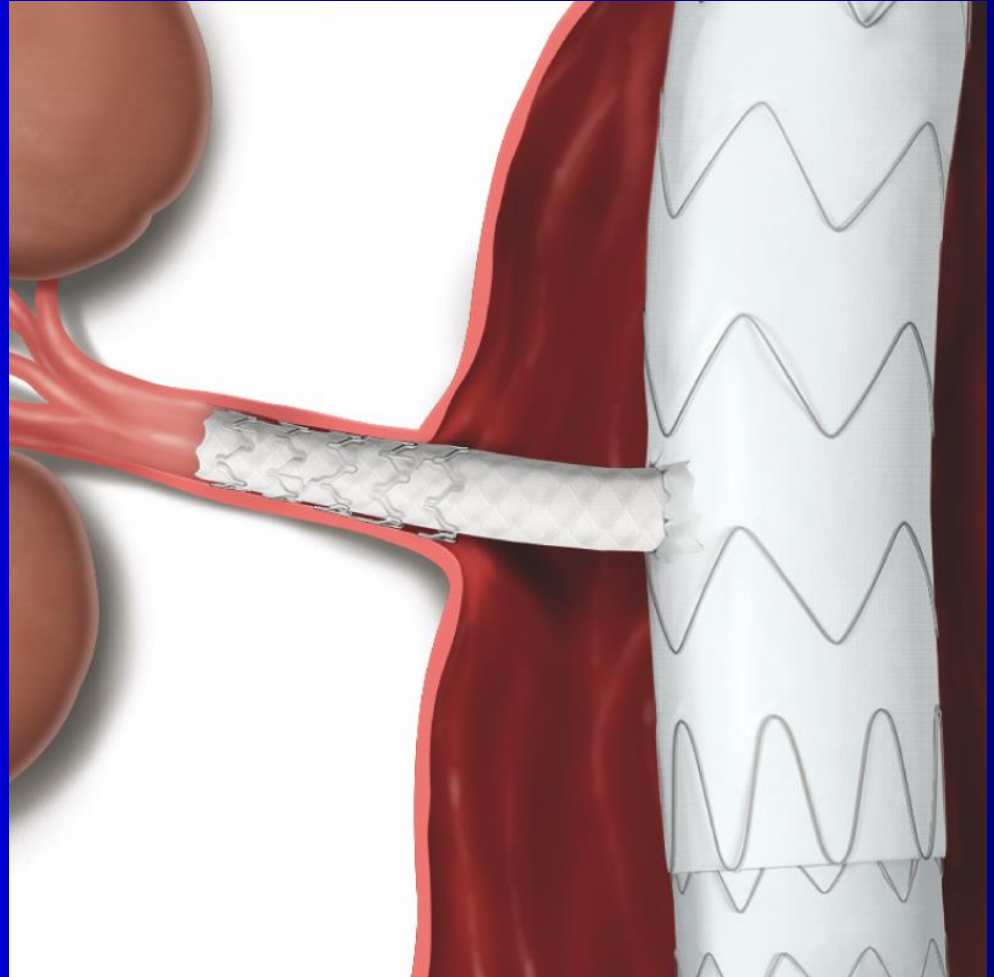




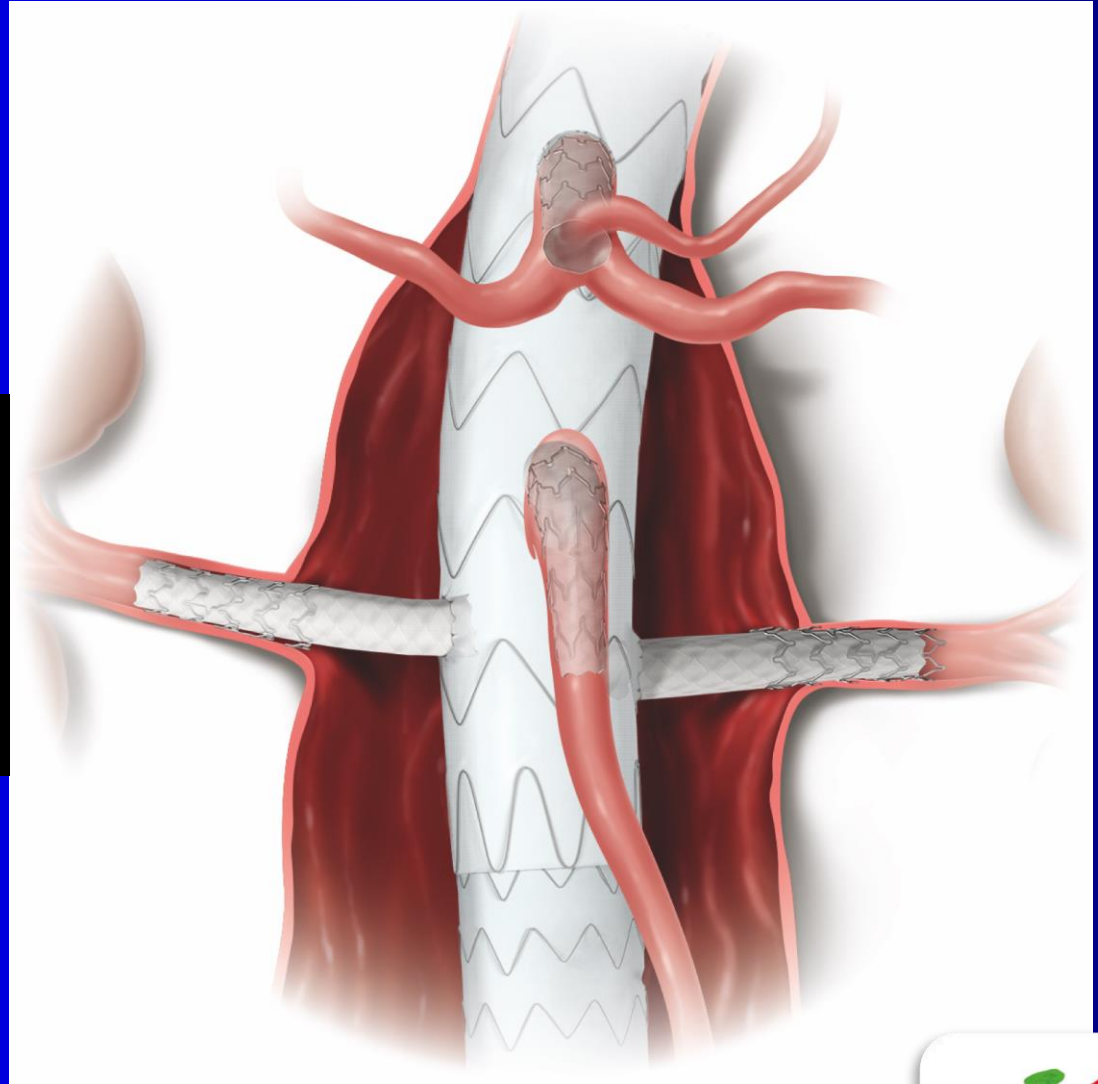


Progressive dilation

using
2mm balloon
Cutting balloon
4mm Balloon
Covered stent
Flairing

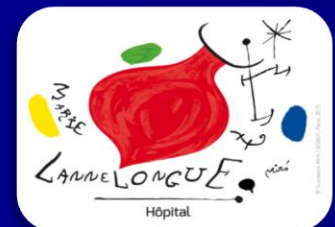


4 fenestrations
20' minutes
For each artery

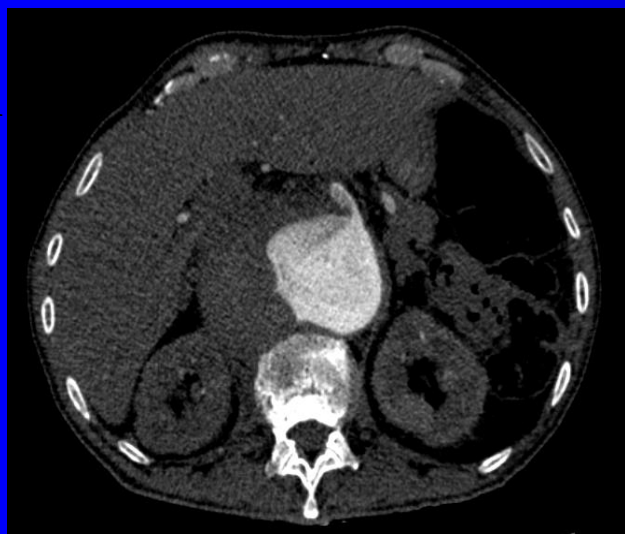


The first case

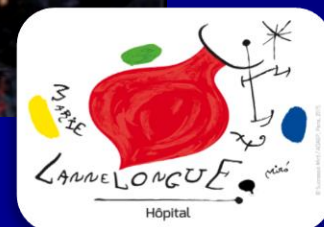
Ruptured Type V Crawford TAAA

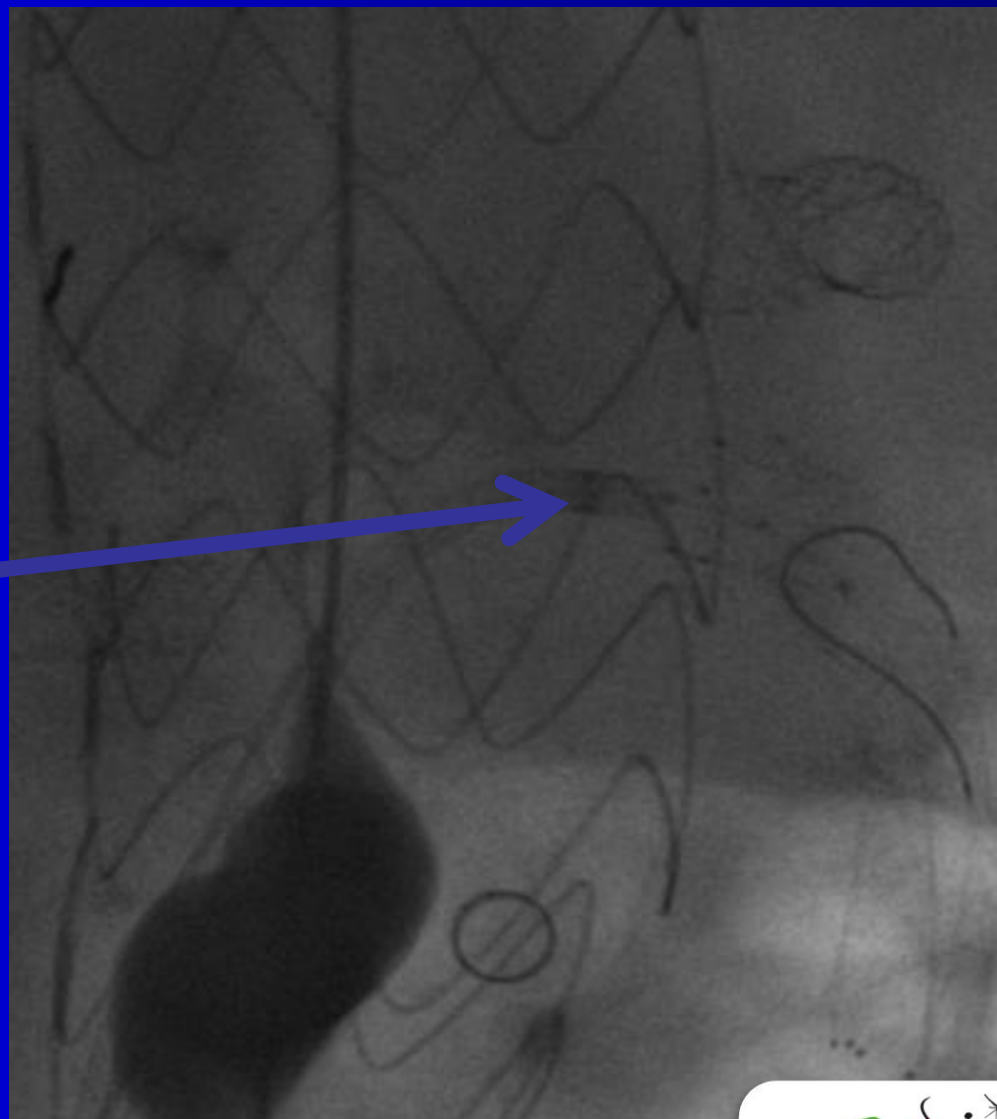


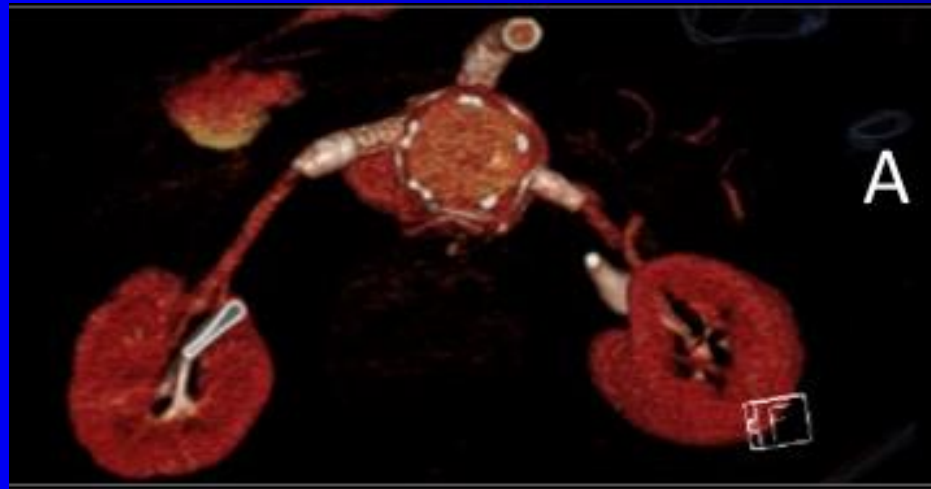
A



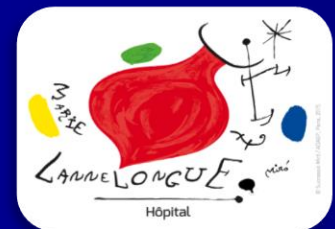
B

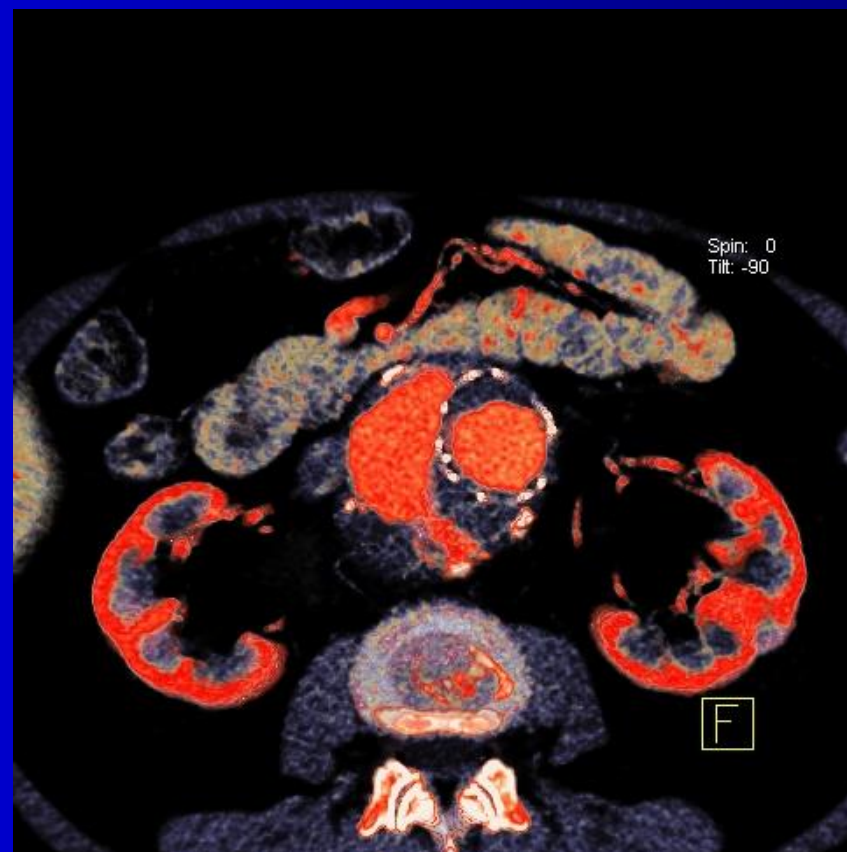


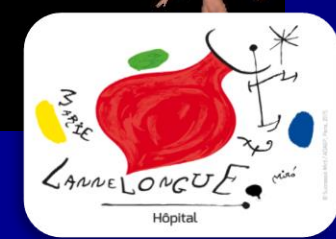
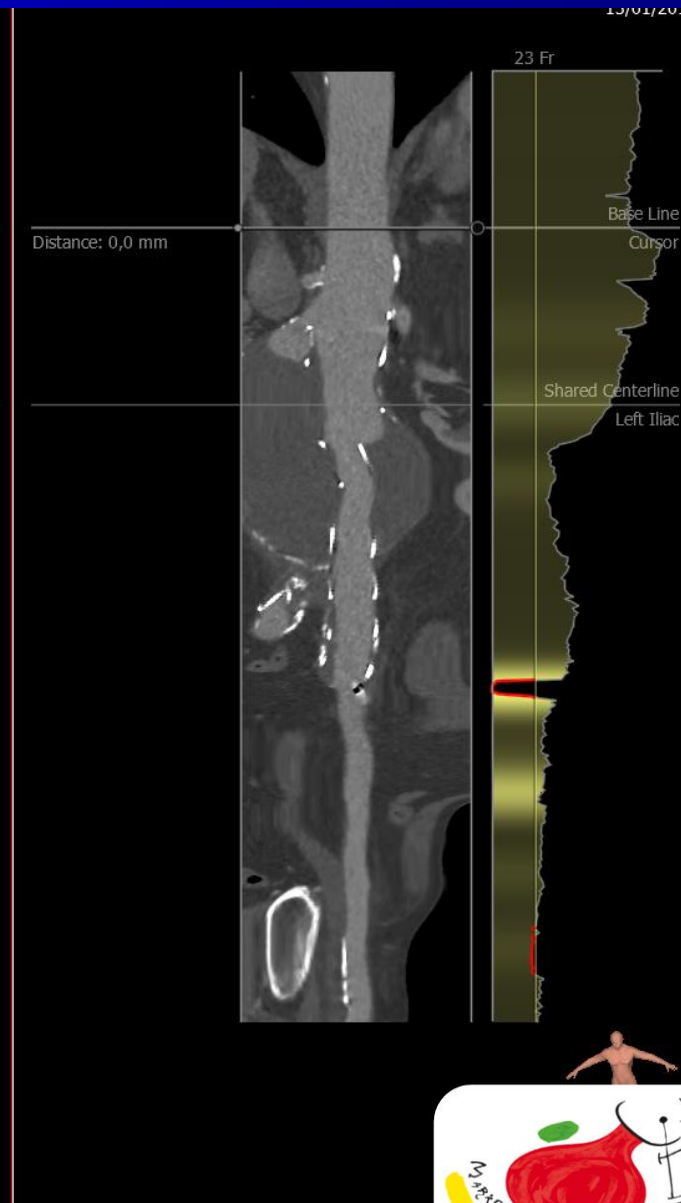
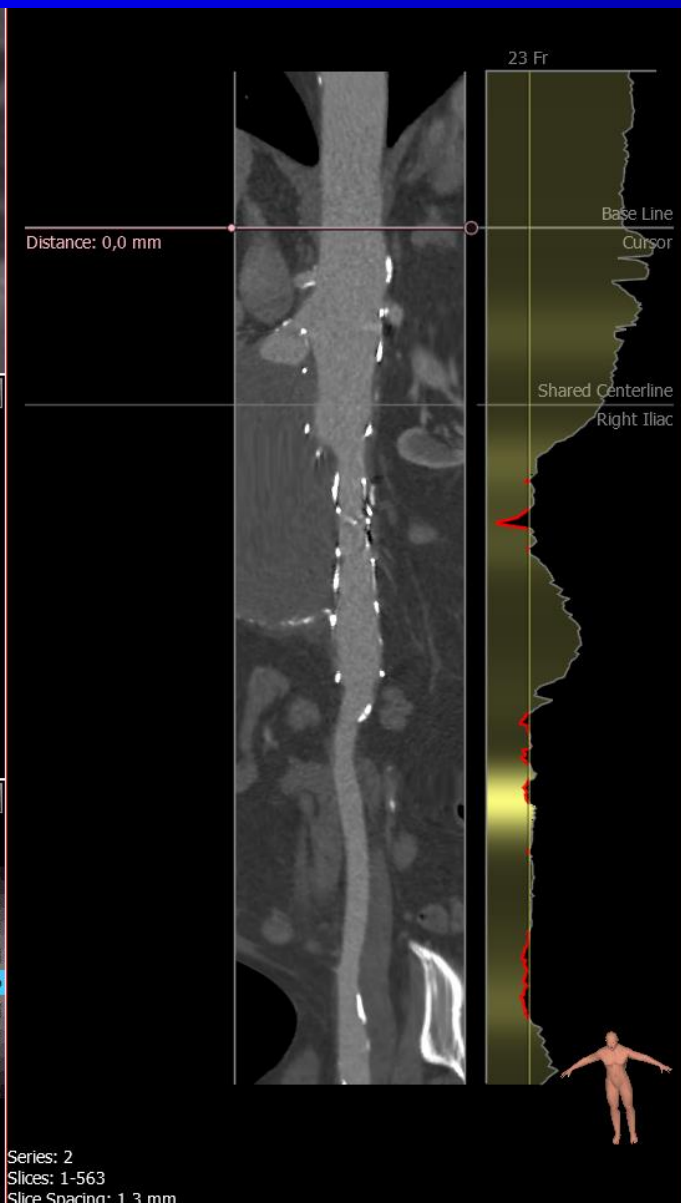
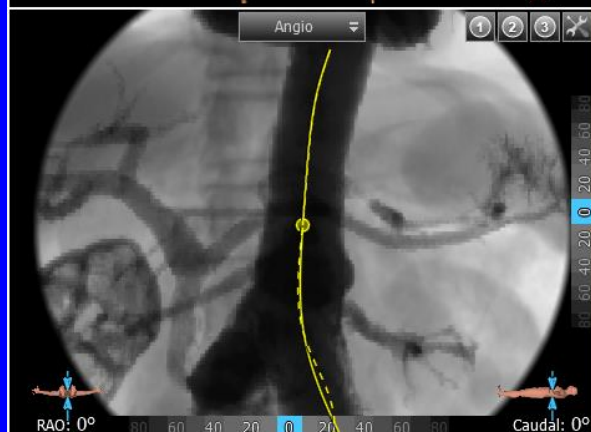
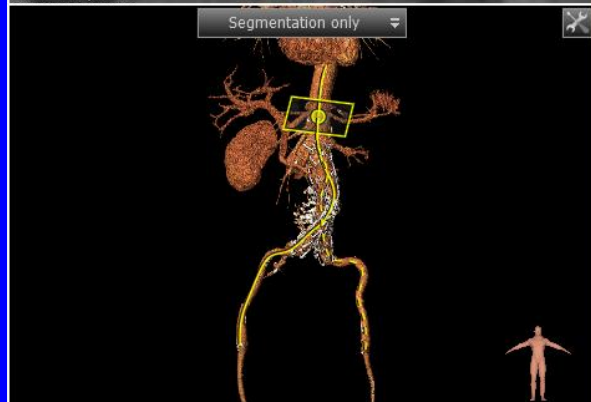




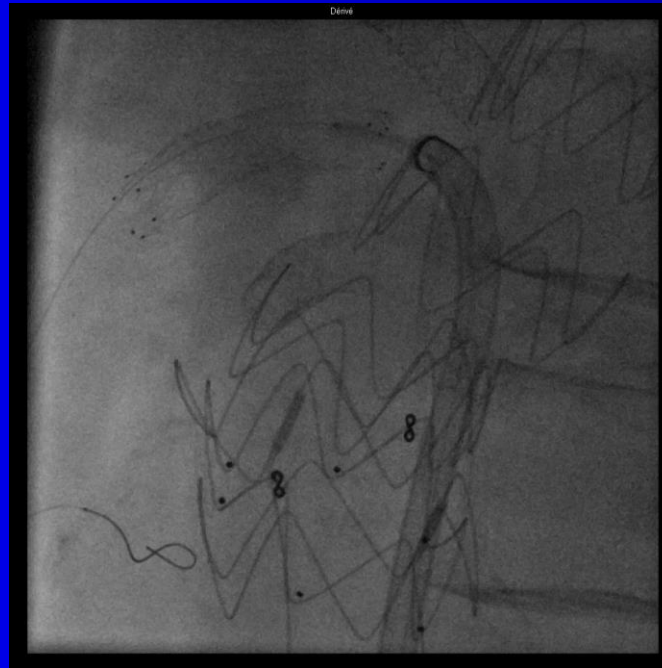
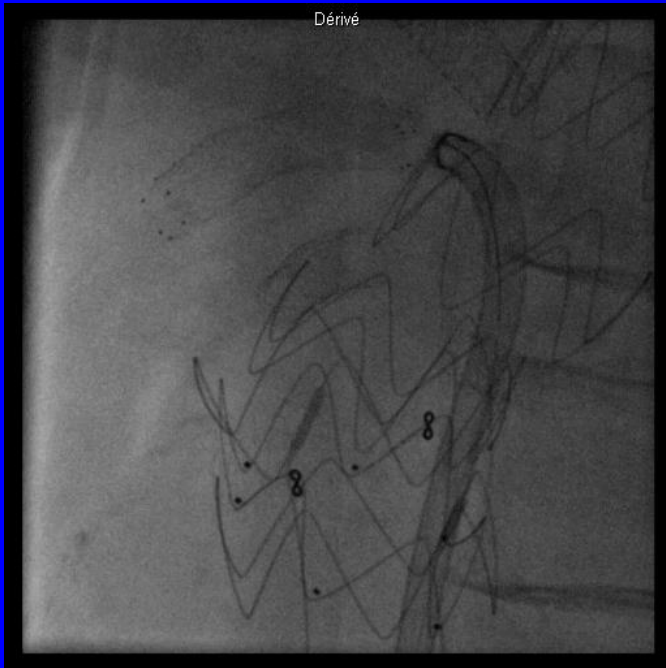
Type I A Endoleak



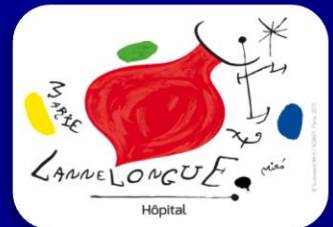




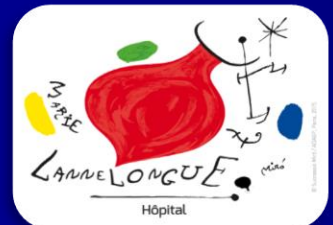
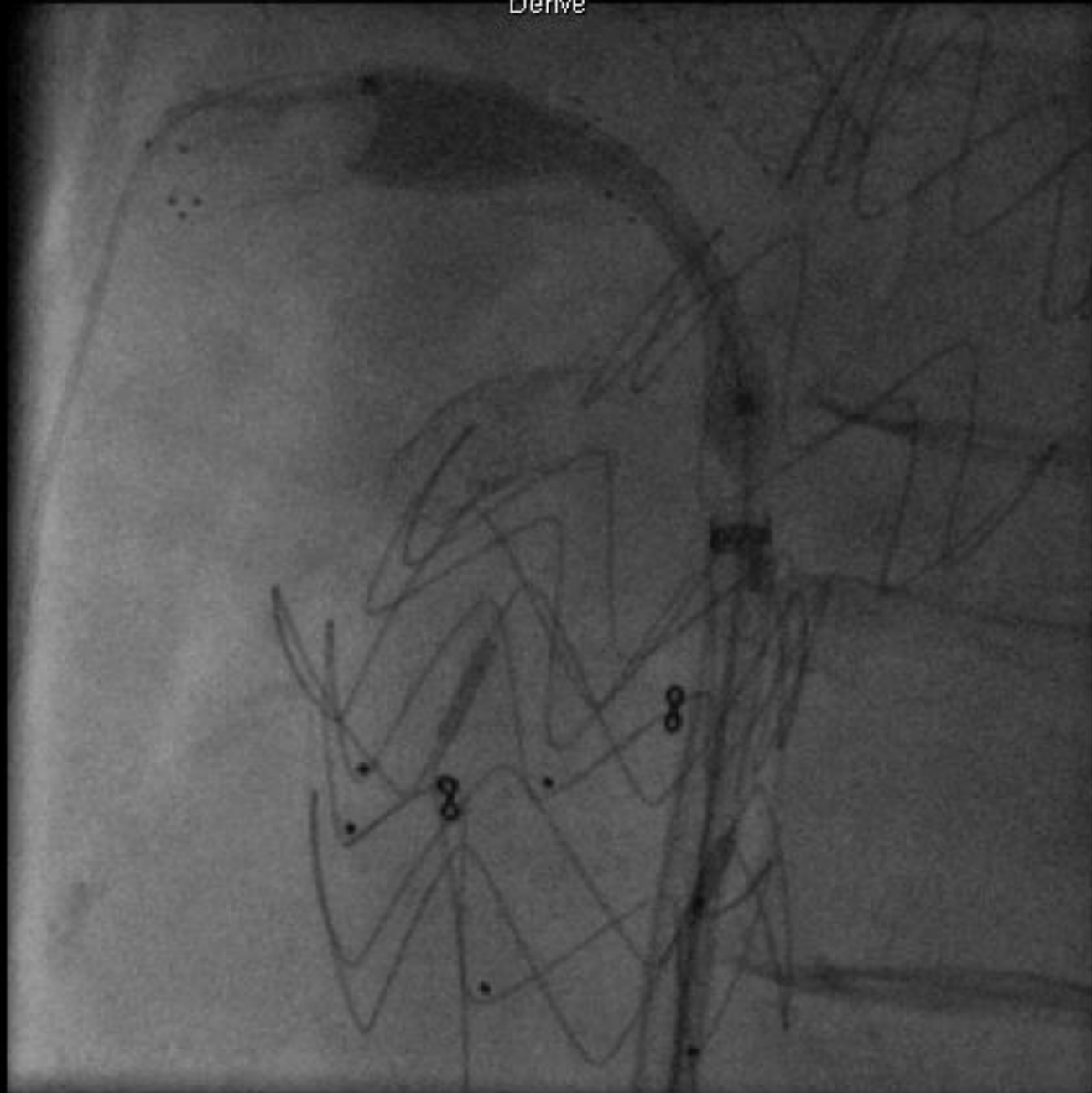
SMA Laser Fenestration

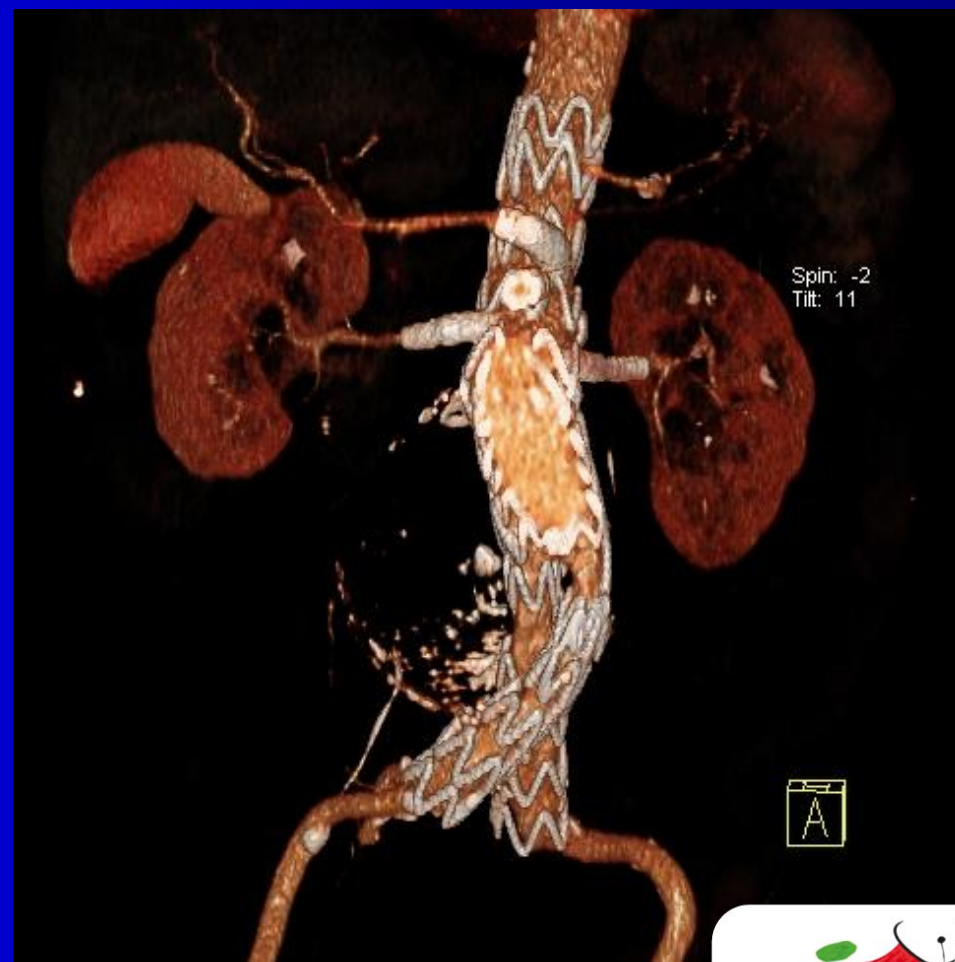


Dérivé

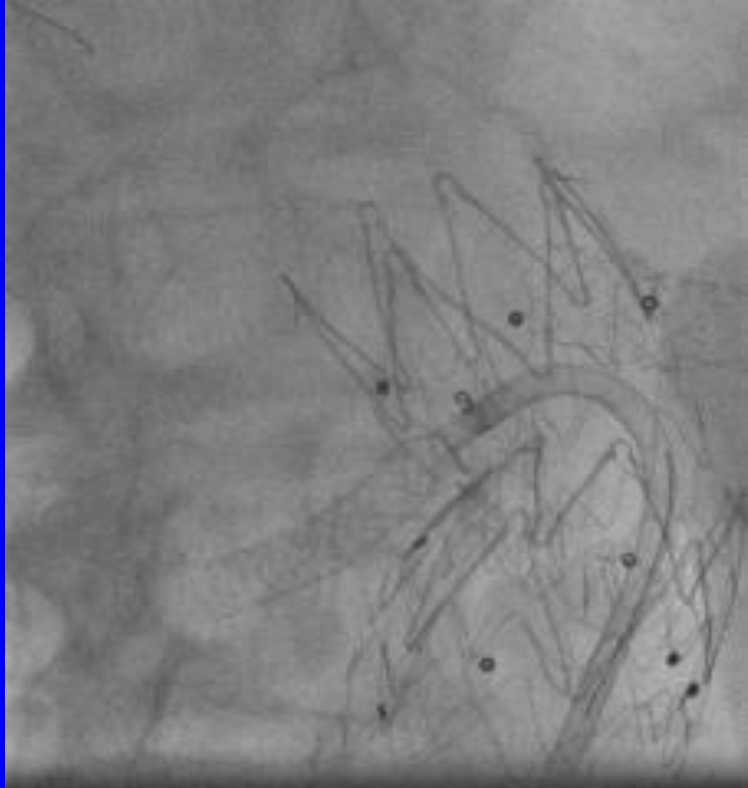


Dérivé





Major angulation



Clinical Datas

11 patients: 9 Men / 2 women

Mean age: 75 years (+/- 11)

Pathology:

- 3 Crawford Type V TAAA
- 4 Pararenal AAA
- 4 Type I Endoleak

Number of Laser fenestrations: 29

Number of fenestration / patient: 2.6

Technical success: 100%



Follow-up

There were no fenestration-related complications.

A secondary procedure, at one week, was required to treat a type III endoleak between the two thoracic grafts for one of the TAAA.

CT scan control at 3 and 6 months were satisfactory, without any endoleak or stent occlusion.

The mean follow-up is 5 months



Conclusion

LfEVAR is an off-label technique that could offer an alternative-option for high risk patients.

The real difficult challenging part is the blind antegrade approach.

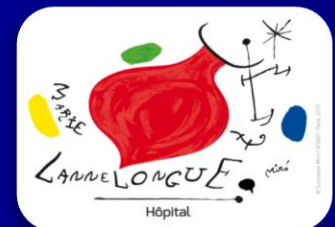
The first important point to facilitate the LfEVAR is the use of a preliminary stenting before fenestration.

This technique could maybe be replaced by fusion imaging.

The second point is the stability of the Aptus that facilitate catheterization.

We described the first LfEVAR with an antegrade laser fenestration in the emergency treatment of TAAA or pararenal aneurysmal disease.

Mid-term and long-term results are needed to confirm and validate this off-label approach.



Stephan Haulon's Office

Laser Saber



