ZBIS - Tips & Tricks

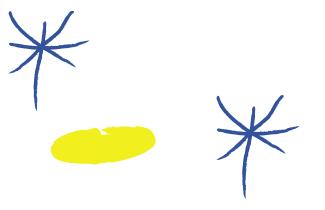
Stéphan Haulon,

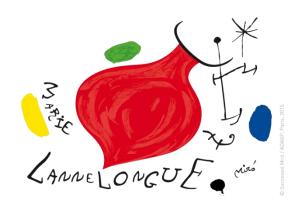
D. Fabre, R. Soler, S. Mussot, O. Mercier, D. Mitilian, E. Fadel

Centre de l'Aorte, Hôpital Marie Lannelongue, Université Paris Sud, France

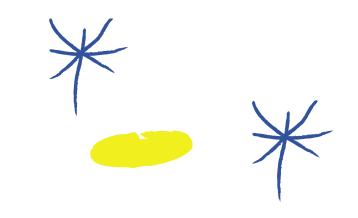








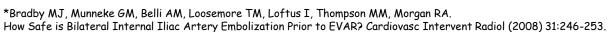
Disclosures

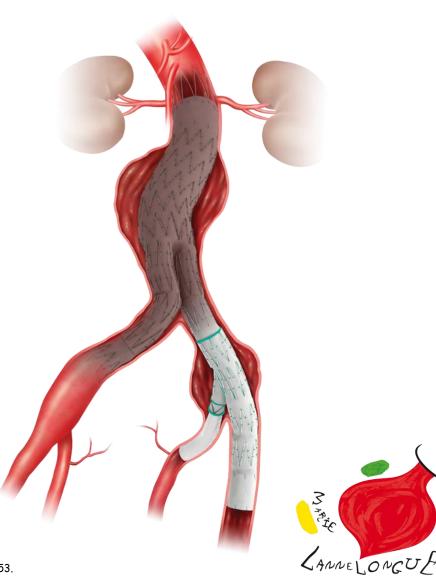


- Research support, Consulting
 - Cook Medical, GE Healthcare, Bentley

EVAR challenges

- Up to 40% of abdominal aortic aneurysms have coexisting unilateral or bilateral iliac artery ectasia or aneurysm.
- Iliac Artery Occlusion Leads to Increased Risk of Buttock and Thigh Claudication.
 - Up to 1 in 3 patients with bilateral internal iliac occlusion experience buttock and/or thigh claudication.*





Potential Complications

- In the setting of internal iliac occlusion, up to 30-40% of patients suffer long term morbidity including:
 - Claudication
 - Erectile dysfunction
 - Colon ischemia
 - Spinal cord ischemia

¹Lee et al. A technique for combined hypogastric artery by pass and endovascular repair of complex aortoiliac aneurysms, J Vasc Surg 2002;35:1289-91.



GE Discovery IGS 730 Hybrid Room

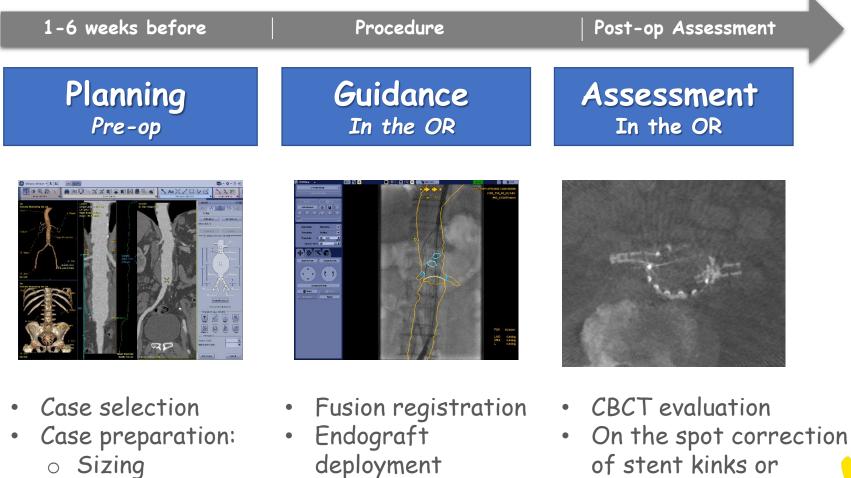
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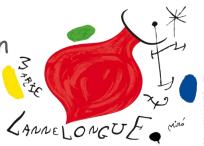
EVAR ASSIST 2

• Landmarks

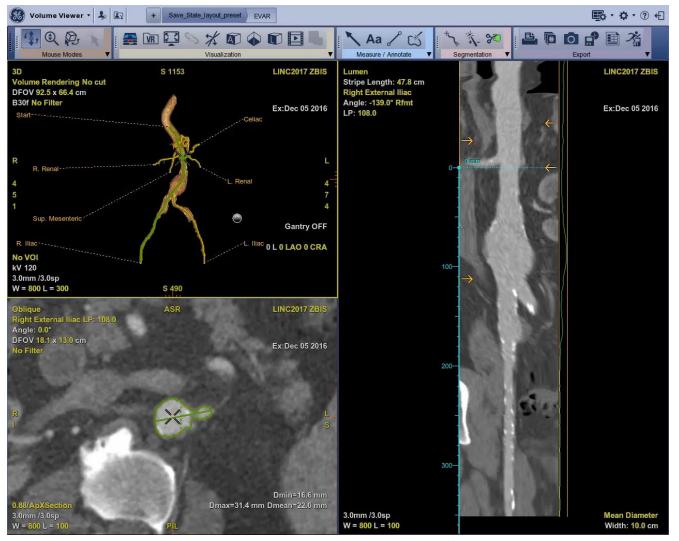
• Fusion mask



endoleaks



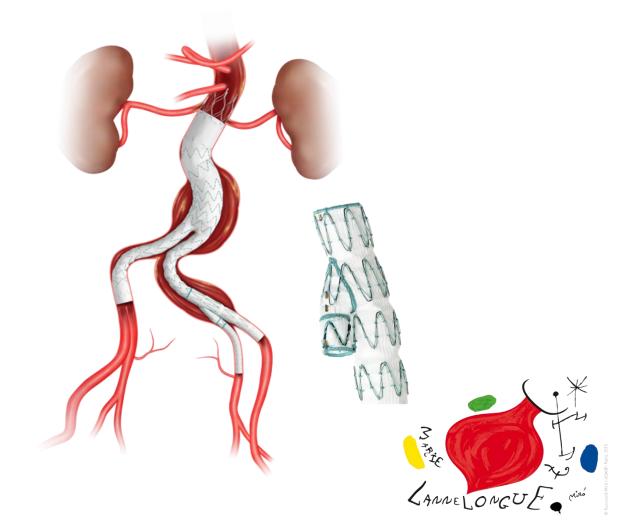
Case planning EVAR ASSIST 2



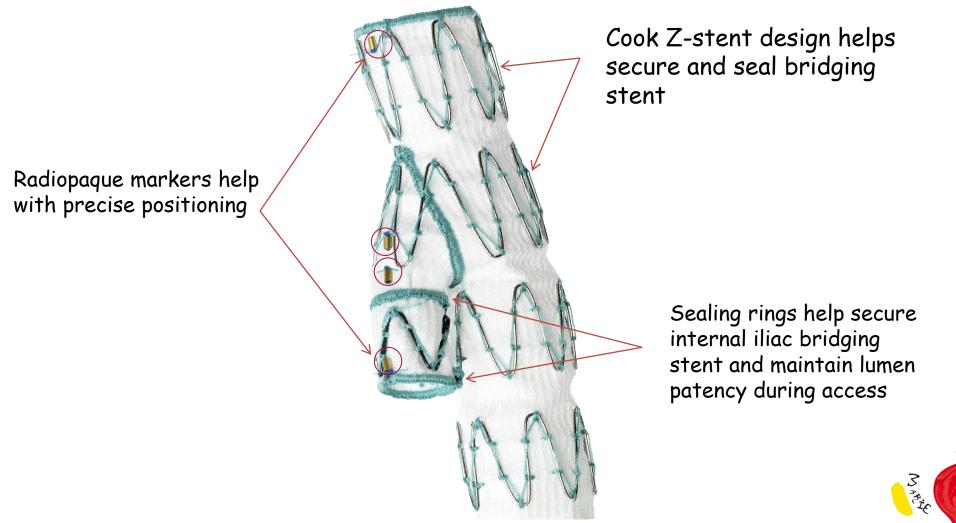


Zenith Alpha abdominal and Zenith Iliac Branch devices

- A good combination...Provide abdominal solutions
- Durablility
- Portfolio Approach
- Healthy Seal Zone
 Proximal
 - Distal
- Wide patient applicability



Device Design Attributes





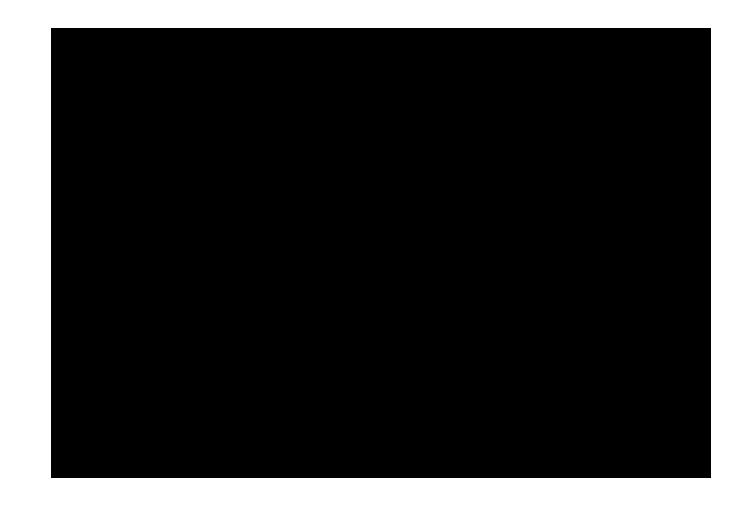
Device Overview

Available sizes:

- Common iliac segment:
 L1 = 45 or 61 mm
 D1 = 12 mm
- External iliac segment:
 L2 = 41 or 58 mm
 D2 = 10 or 12 mm
- Sidebranch segment:
 Length = 14 mm
 Diameter = 8 mm









Case - AAA + CIAA

Patient history

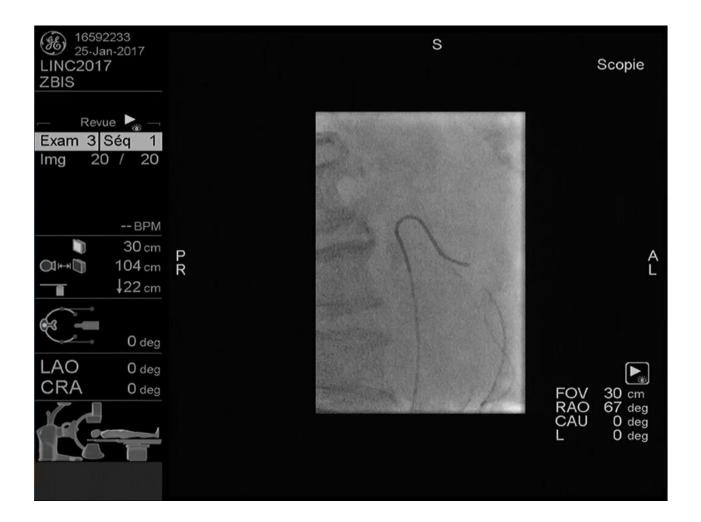
- High BMI 110 Kg
- AAA (54 mm)
- Right common iliac aneurysm (34mm)
 - Narrowing just above iliac bifurcation
 - Internal iliac origin stenosis
- No landing zone in Left common iliac (25mm)



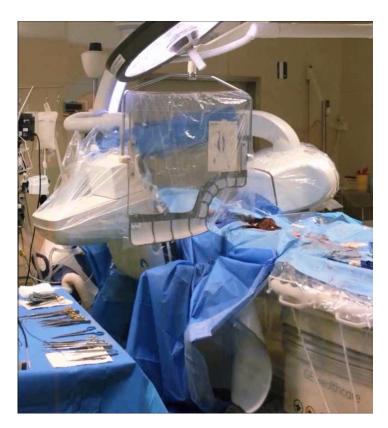
2D-3D bi-view registration

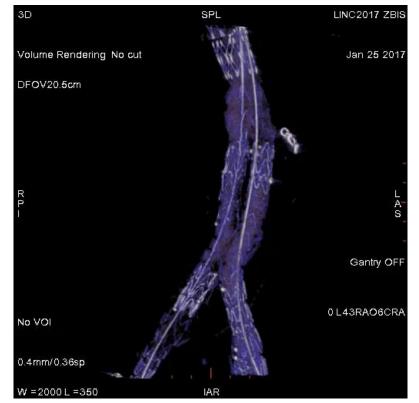






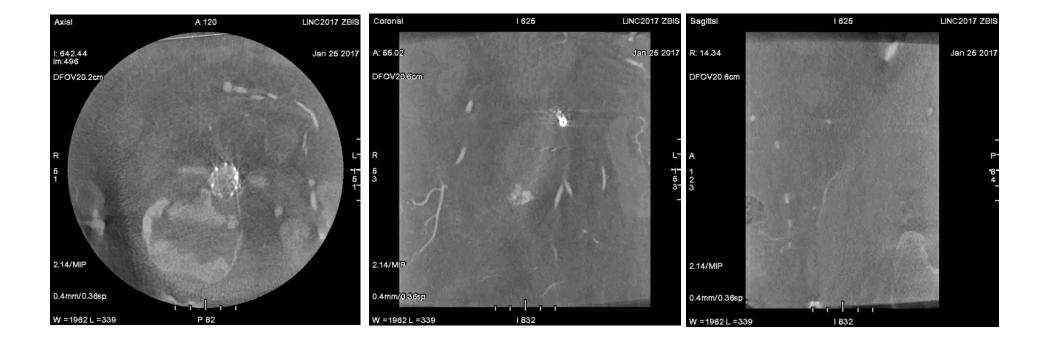
Contrast enhanced Cone-beam CT Immediate assessment







Contrast enhanced Cone-beam CT Immediate assessment





Positioning of Iliac branch device





Preset positions for best working views





Digital zoom + collimation Minimize radiation





Conclusion

- Concomitant Iliac aneurysms are frequent (impact on outcomes)
- A proper distal seal zone as a key to durability
- Preservation of the hypogastric artery (QOL)
- High technical success rate (after learning curve) + patency rate
- Proven design with long term outcomes

