

Percutaneous EVAR using the Altura stent graft

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Open Surgical Aortic
Aneurysm Repair
(OPEN)



Endovascular Aortic
Aneurysm Repair
(EVAR)



Percutaneous
Endovascular Aortic
Aneurysm Repair
(PEVAR)

196 p-EVAR and review of Literature

- p-EVAR procedures are safe and feasible. Sheath size is a significant predictor of OC rate and more OCs might be expected with very large ($\geq 20\text{Fr}$) sheath sizes.
- single 10Fr Perclose Prostar XL vascular closure device (VCD)

Percutaneous endovascular treatment of aortic aneurysms: Clinical evaluation and literature results

[Theodossios P. Perdikides](#), [George S. Georgiadis](#), [Efthimios D. Avgerinos](#), [Kosmas I. Paraskevas](#), [Konstantinos X. Siafakas](#), [Athanasios Katsargyris](#), [Theofanis Fotis](#) & [Konstantinos G. Lagios](#)

[Minim Invasive Ther Allied Technol.](#) 2012 Sep;21(5):342-50



.....We performed a retrospective institutional review of consecutive patients who underwent endovascular aneurysm repair (EVAR), fenestrated EVAR (FEVAR), or thoracic endovascular aortic repair (TEVAR) from 2014 to 2016

Conclusions: Percutaneous ultrasound-guided access can be safely performed in almost all patients undergoing endovascular aortic procedures, but access site failures do occur. This risk score can help users select patients with high likelihood of success, identify patients who need close scrutiny with post closure femoral duplex ultrasound, and provide patient guidance about risk of unplanned groin cutdown.

Preoperative risk score for access site failure in ultrasound-guided percutaneous aortic procedures.

[Liang P¹](#), [O'Donnell TFX¹](#), [Swerdlow NJ¹](#), [Li C¹](#), [Lee A¹](#), [Wyers MC¹](#), [Hamdan AD¹](#), [Schmerhorn ML²](#).

J Vasc Surg. 2019 Mar.



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Μονάδα
Π.Γ.Ν. Ιωαννίνων

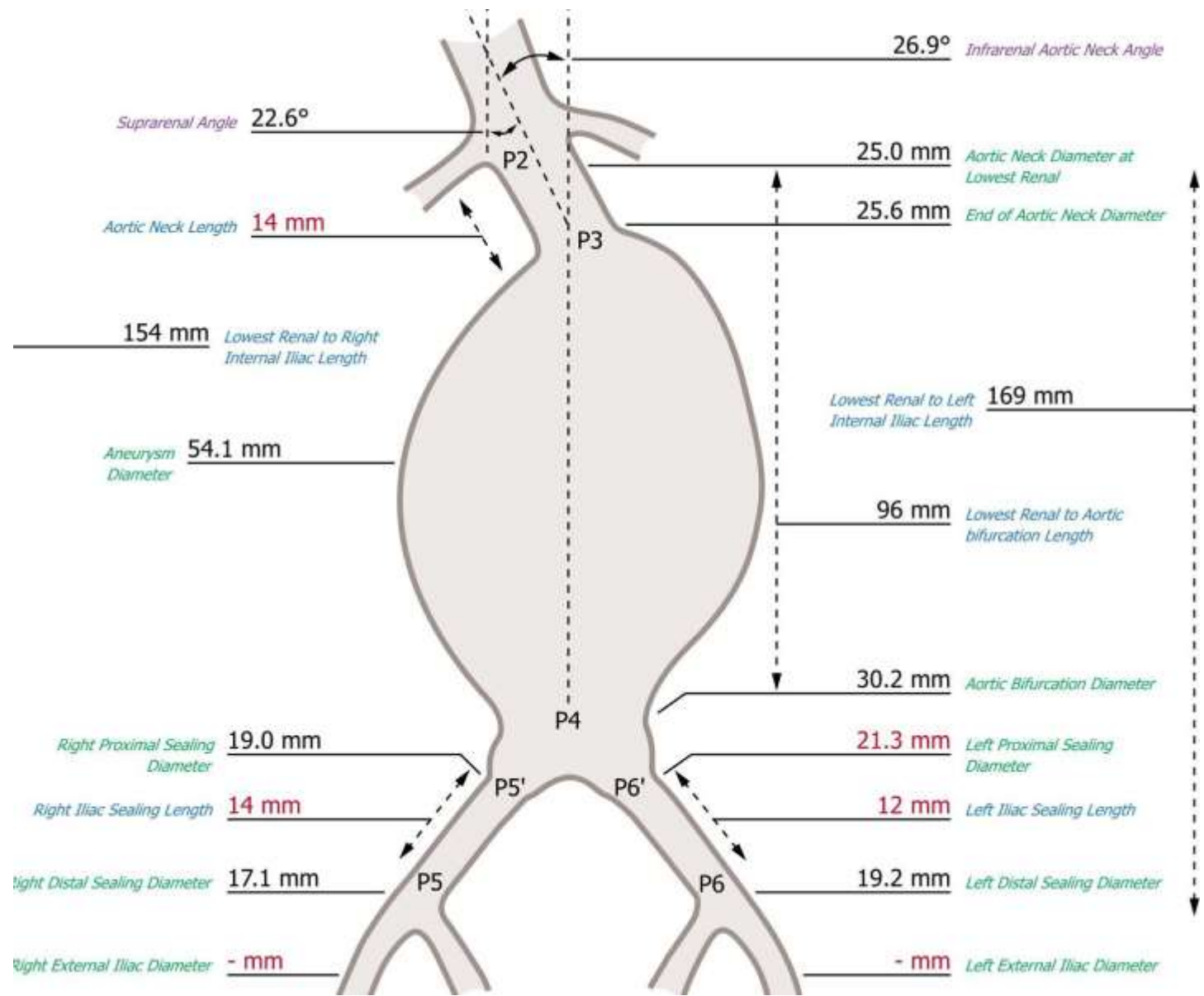


CASE PRESENTATION



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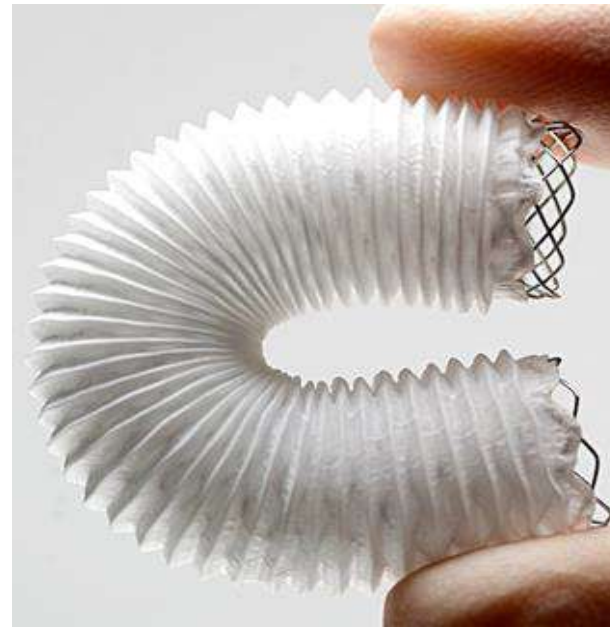
- Male 62 y, 102 kgr,
 - Diabetes mellitus,
 - Lung disease
 - High Blood pressure
 - **Chronic Kidney disease**
(Cr=2,1, Ur= 8)
- With AAA (Max Diam.: 5,4cm)**



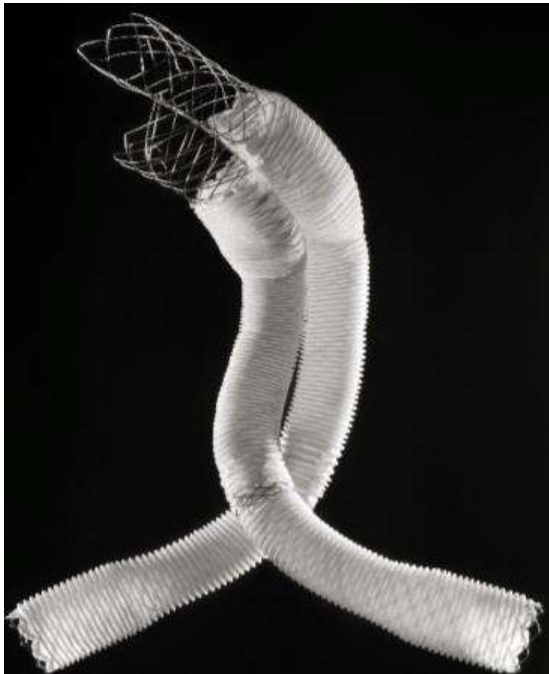


Design of the graft

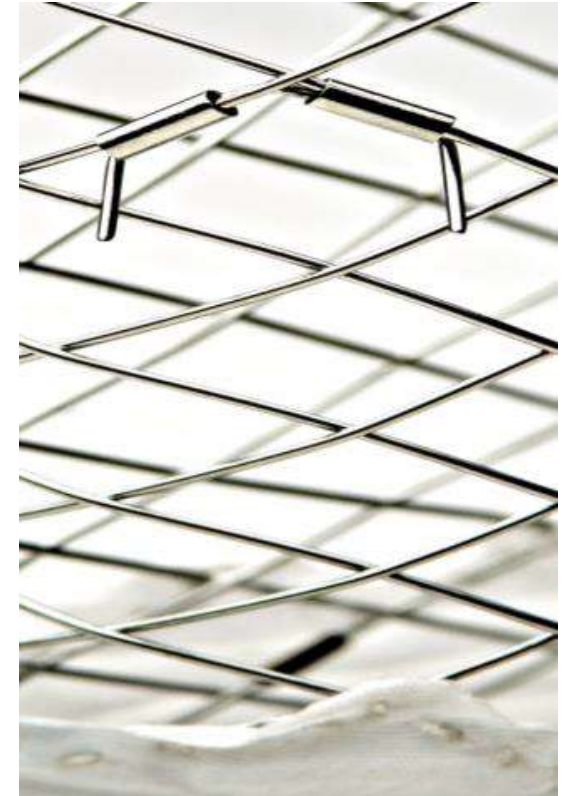
- 14Fr
- Re-deployment
- Precise deployment in the height of each renal artery
- No need for catheterization of limb



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- Double D stent design
- Braided nitinol stent
- Flexible, compliant construction
- Hooks for active suprarenal fixation
- Woven polyester graft material





Suprarenal Stent
Diameter

Endograft
Diameter

13 mm Universal
Leg Diameter

Catalog #	Endograft Diameter (mm)	Treatment Range* (mm)	Suprarenal Stent Diameter (mm)
01-AA-24-090	24	18 – 22	29
01-AA-27-090	27	21 – 25	33
01-AA-30-090	30	24 – 28	36

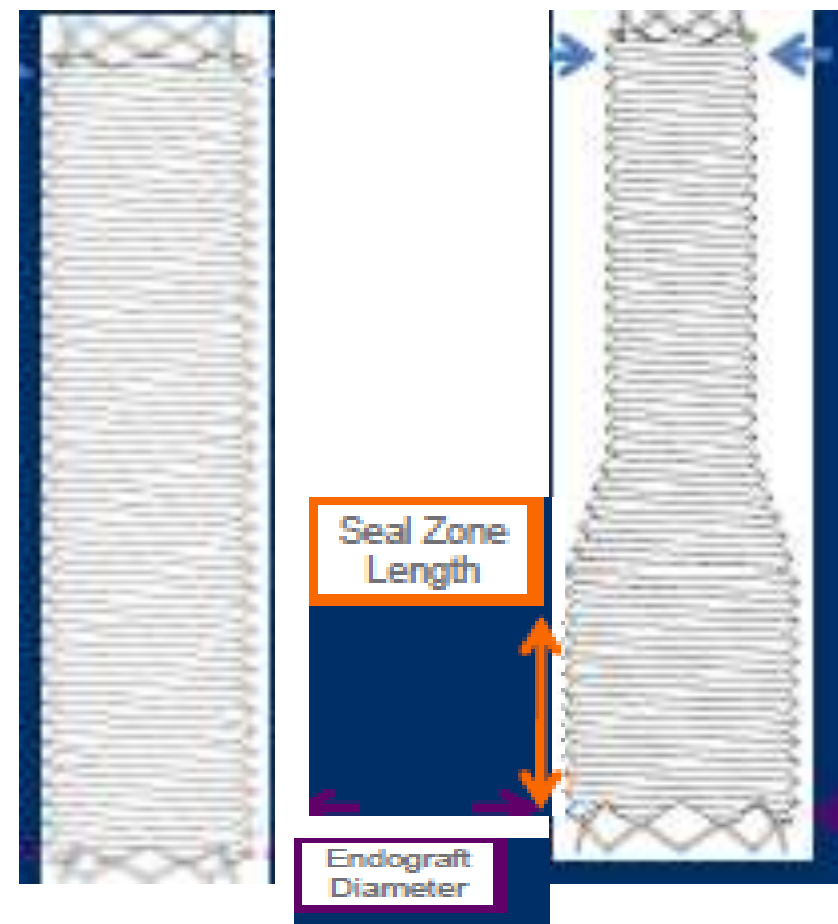
*Treatment diameter measured from blood flow lumen

Iliac Endograft Sizes

Catalog #	Endograft Diameter (mm)	Treatment Range* (mm)	Seal Zone Length (mm)
01-AI-13-065	13	8 – 11	N/A
01-AI-17-065	17	11 – 15	20
01-AI-21-065	21	15 – 18	20

*Treatment diameter measured from blood flow lumen

13 mm Universal
Leg Diameter

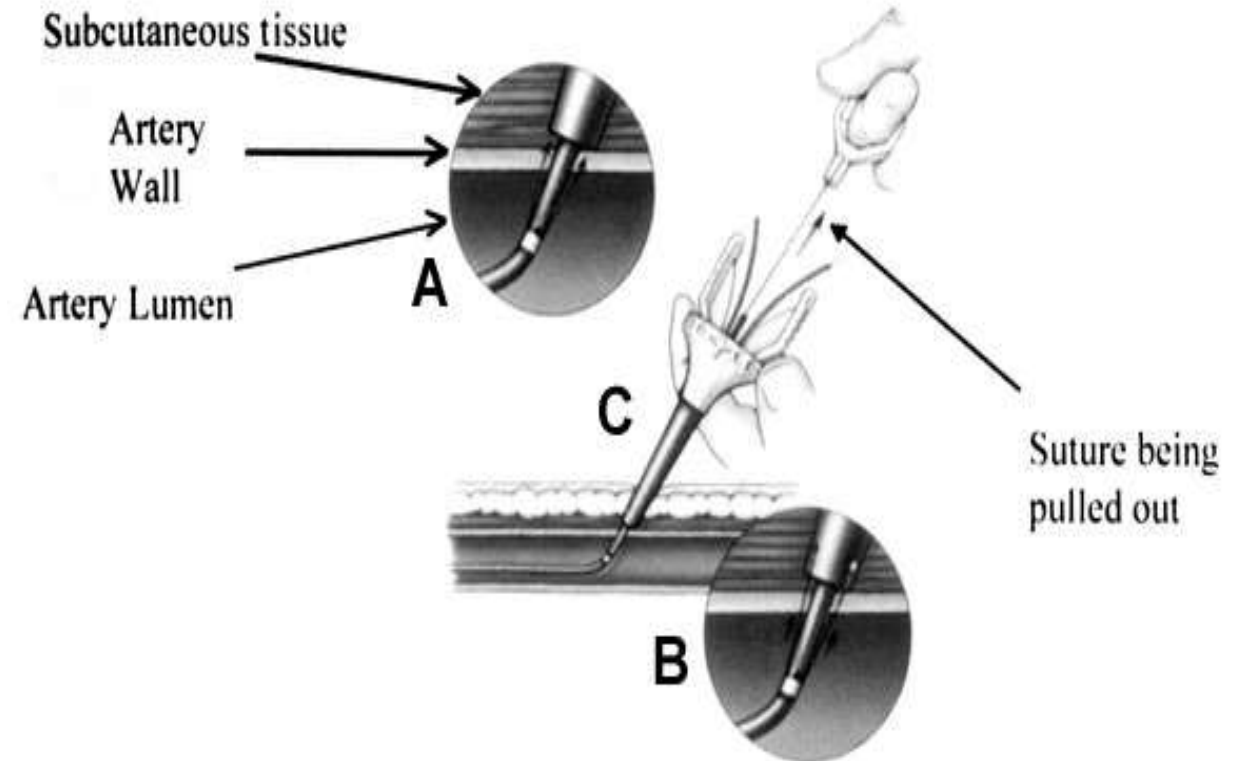
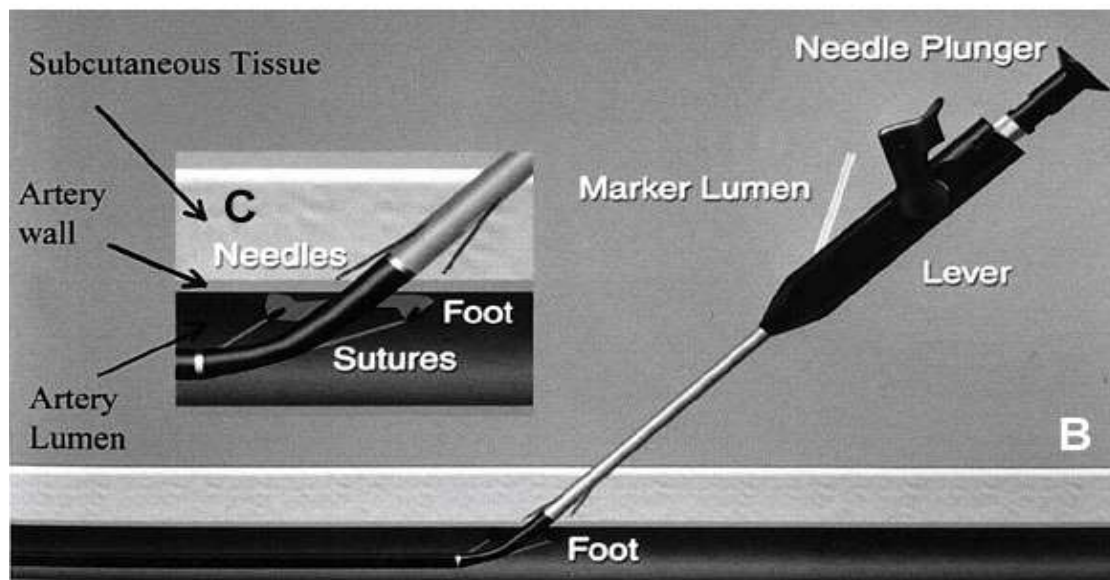
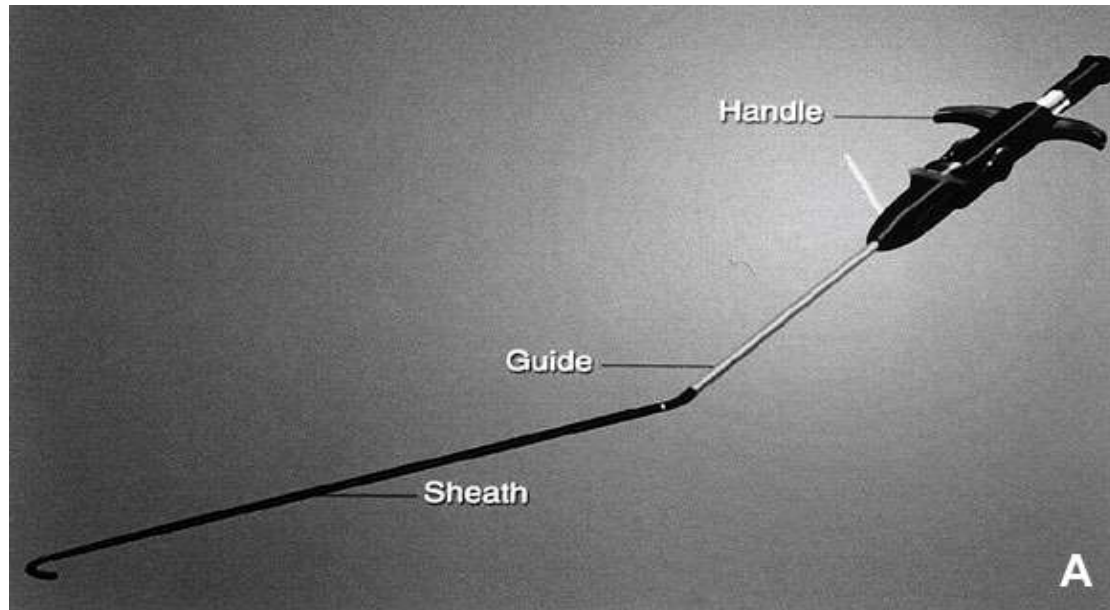




CASE PRESENTATION

ALTURA GRAFT

- Diameter of grafts: 30 mm
- Length of mainly grafts: 90 mm
- Length of Limbs: 65mm
- Diameter of Landing zone (limbs): 21mm
(same diameter left and right)



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Surgical Department of University Hospital of Ioannina

Dimitris Chatzis
Vascular Surgeon

Dimitrios Nikas
Cardiologist Interventional



- Volume of Iodine dye: 80 ml
- X-Ray time : 15 min

Post operatively : no deterioration of Kiney function
(Cr, Ur : normal levels)

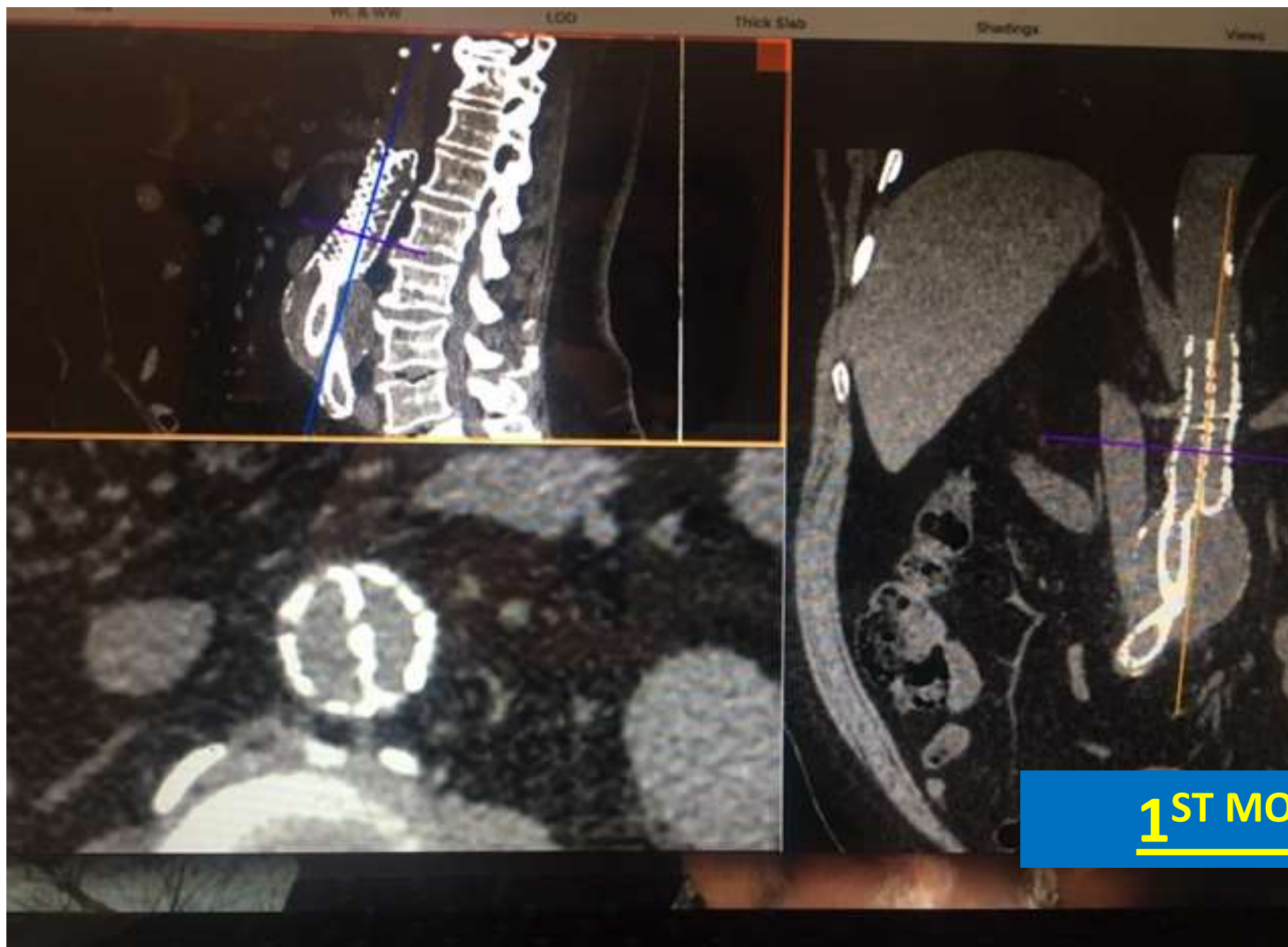
Follow-up : 1st month

- CT without IV contrast
- TRIPLEX of abdominal aorta and iliac arteries

NO ENDOLEAK

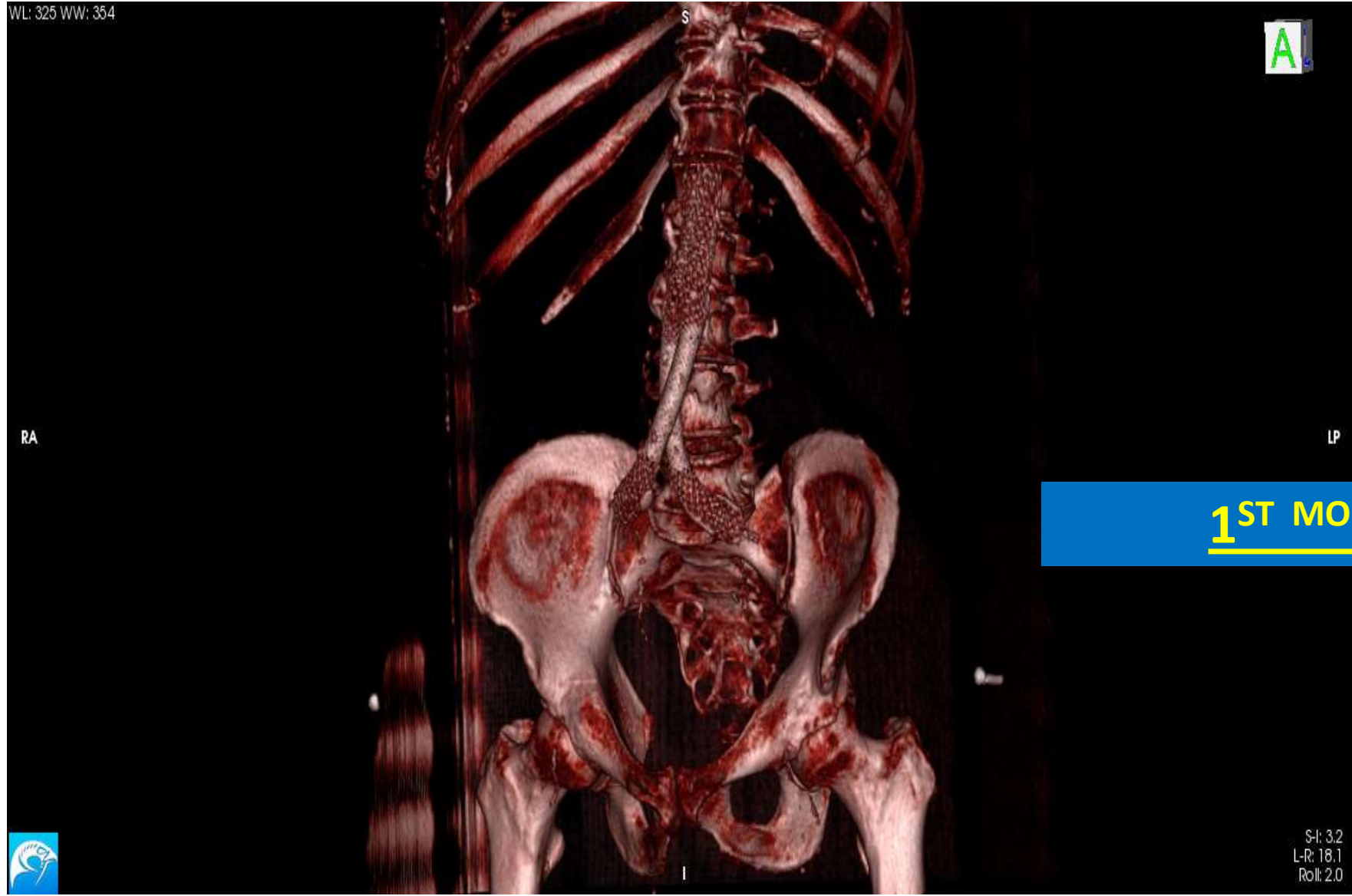


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1ST MONTH: POST-OP

WL: 325 WW: 354



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1ST MONTH PST-OP



S-I: 3.2
L-R: 18.1
Roll: 2.0



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THANK YOU FOR YOUR ATTENTION