

# Cheese-Wire Fenestration to Create a Suitable Landing Zone for Treatment of Complex Aortic Dissection with Late Aneurysm Formation

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# Disclosures

Speaker name: **Jordan R. Stern, MD**

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**



# Introduction

- Following Type A/B aortic dissection, late aneurysm formation downstream
- Sealing zones for endografts compromised by thick, rigid septum
  - Measure to true lumen only vs. full lumen?
  - Can you seal against the septum?
  - **Remove septum to allow full expansion of endograft for seal in single lumen**



# Case History

70 year old male with hx of Type A dissection in 2005 requiring ascending and hemiarch repair, residual Type B component extending to bilateral iliacs with aneurysmal degeneration

## PMH:

HTN, hyperlipidemia

## PSH:

Hemiarch repair

## Allergies:

NKDA

## Medications:

ASA, HCTZ, Hydralazine,  
Metoprolol, Lovastatin

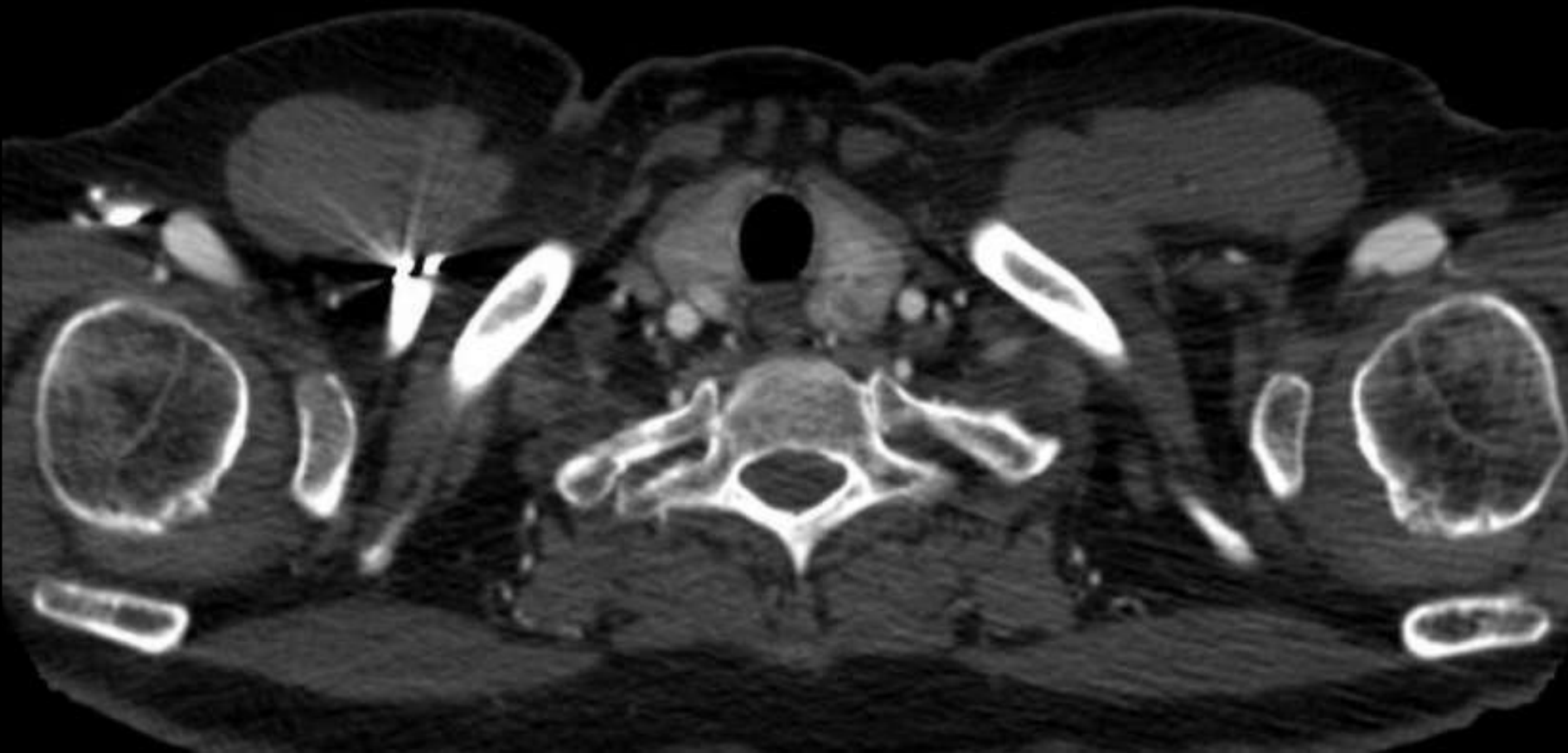
## Family history:

No history of aneurysm/dissection

## Social history:

No smoking history, retired but  
active





4.0 cm R Common iliac aneurysm

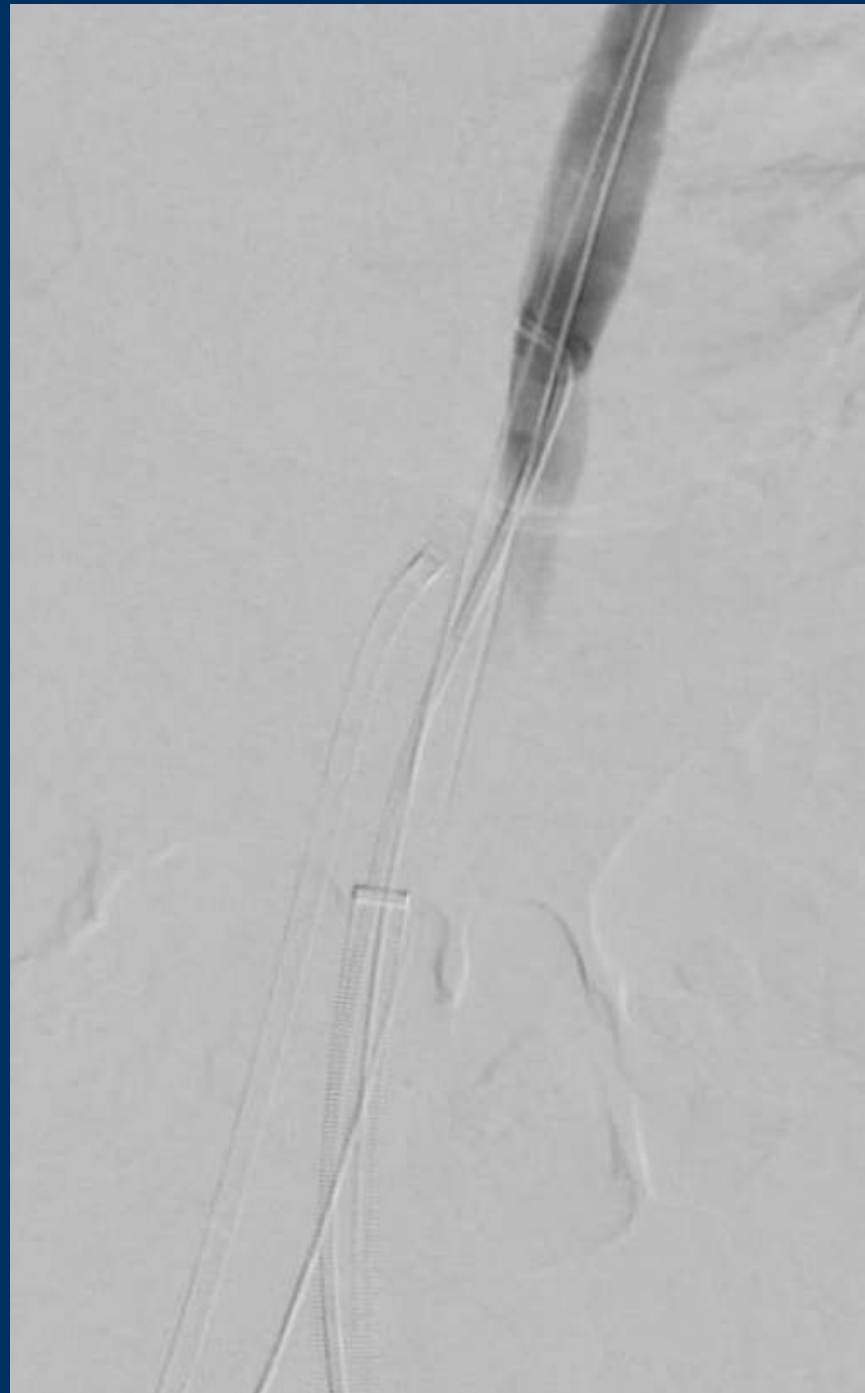
4.1 cm L Hypogastric aneurysm



## Operative Plan:

- ▶ Left arm (high brachial) and bilateral femoral access
- ▶ Endoluminal septotomy (cheese-wire)
- ▶ Infrarenal EVAR
- ▶ Left iliac branch device
- ▶ Right hypogastric embolization







**False Lumen (right)**

18 Fr Dry seal sheath

7Fr Tourguide

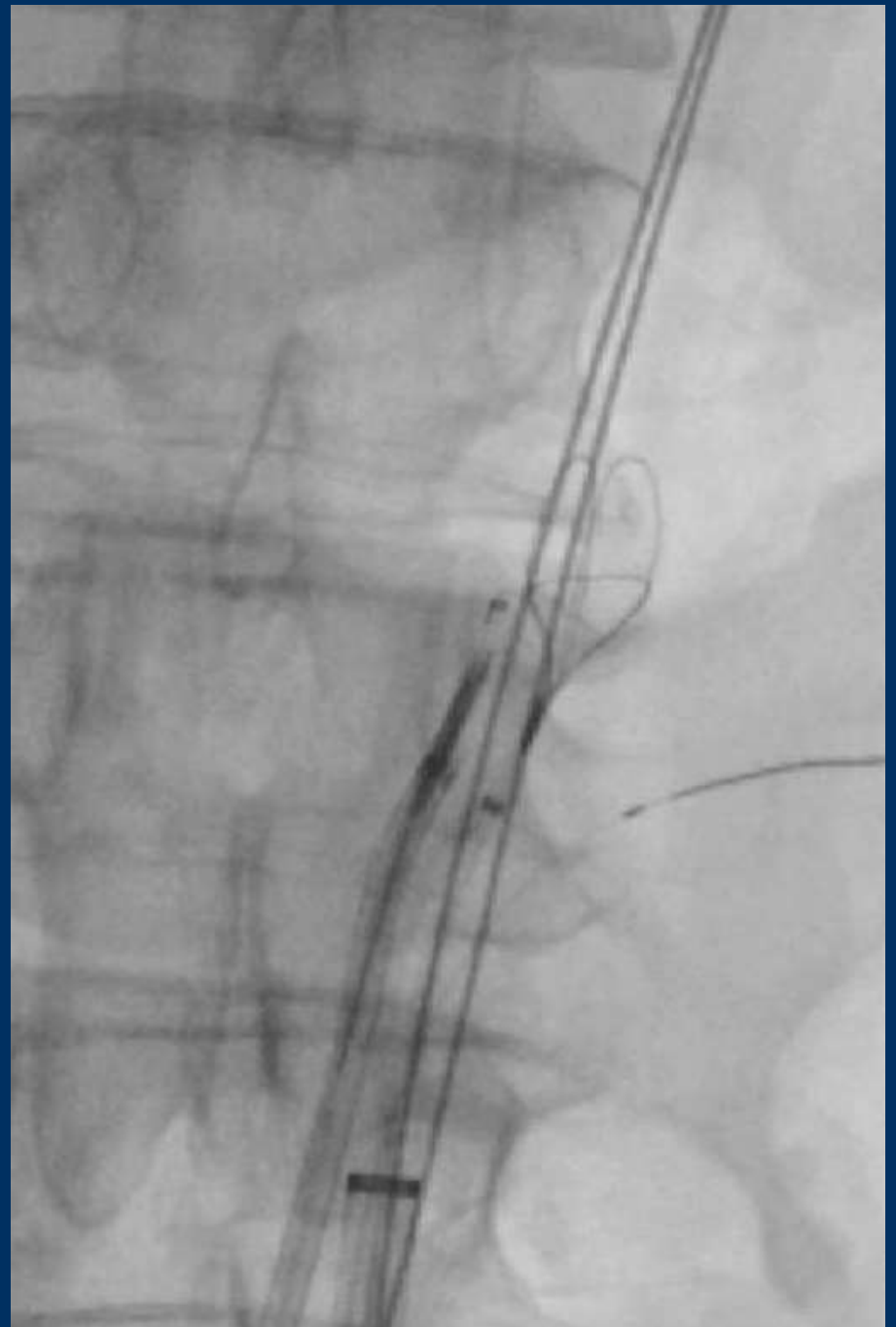
9mm outback re-entry catheter

.014 platform

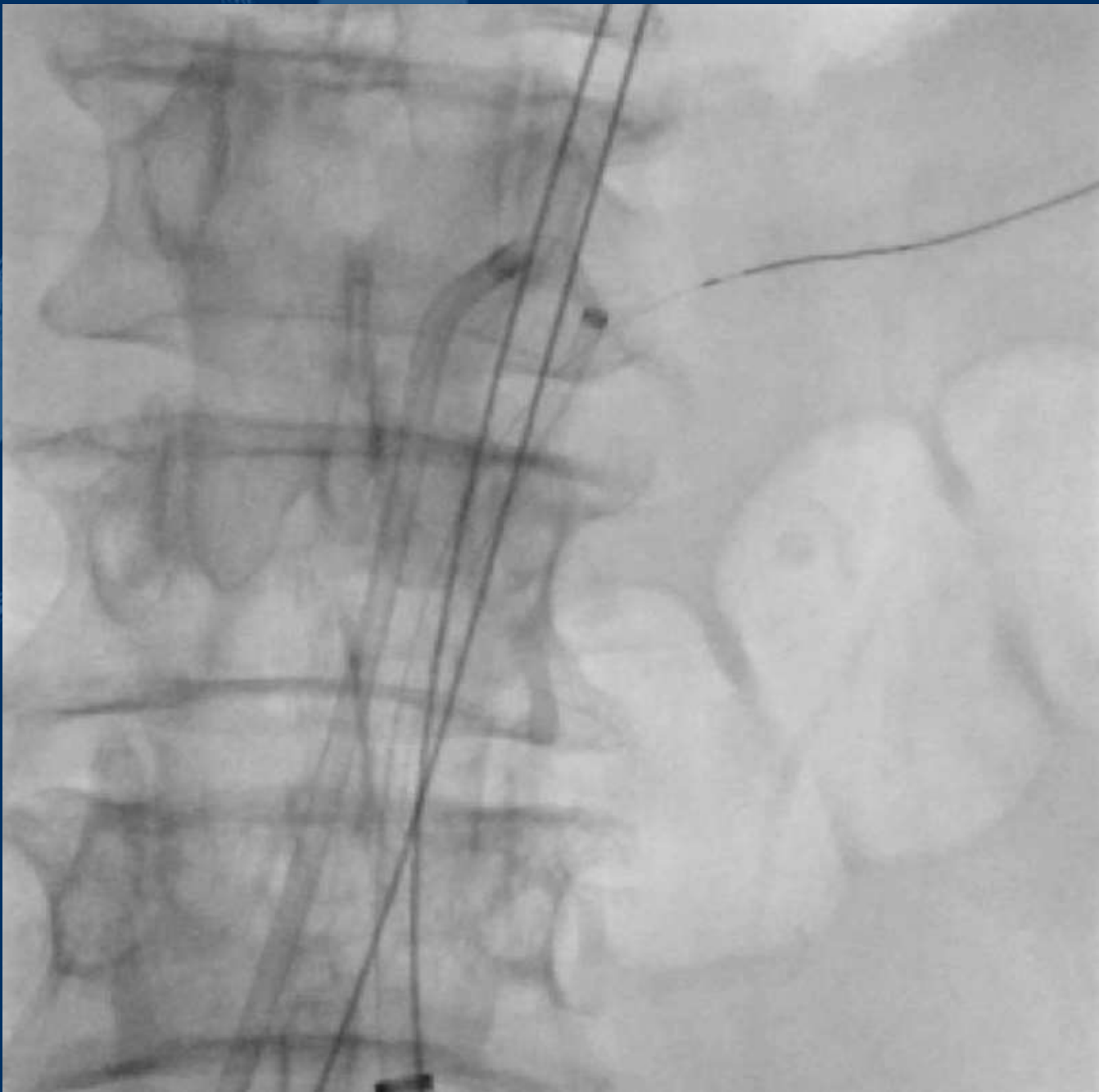
**True Lumen (left)**

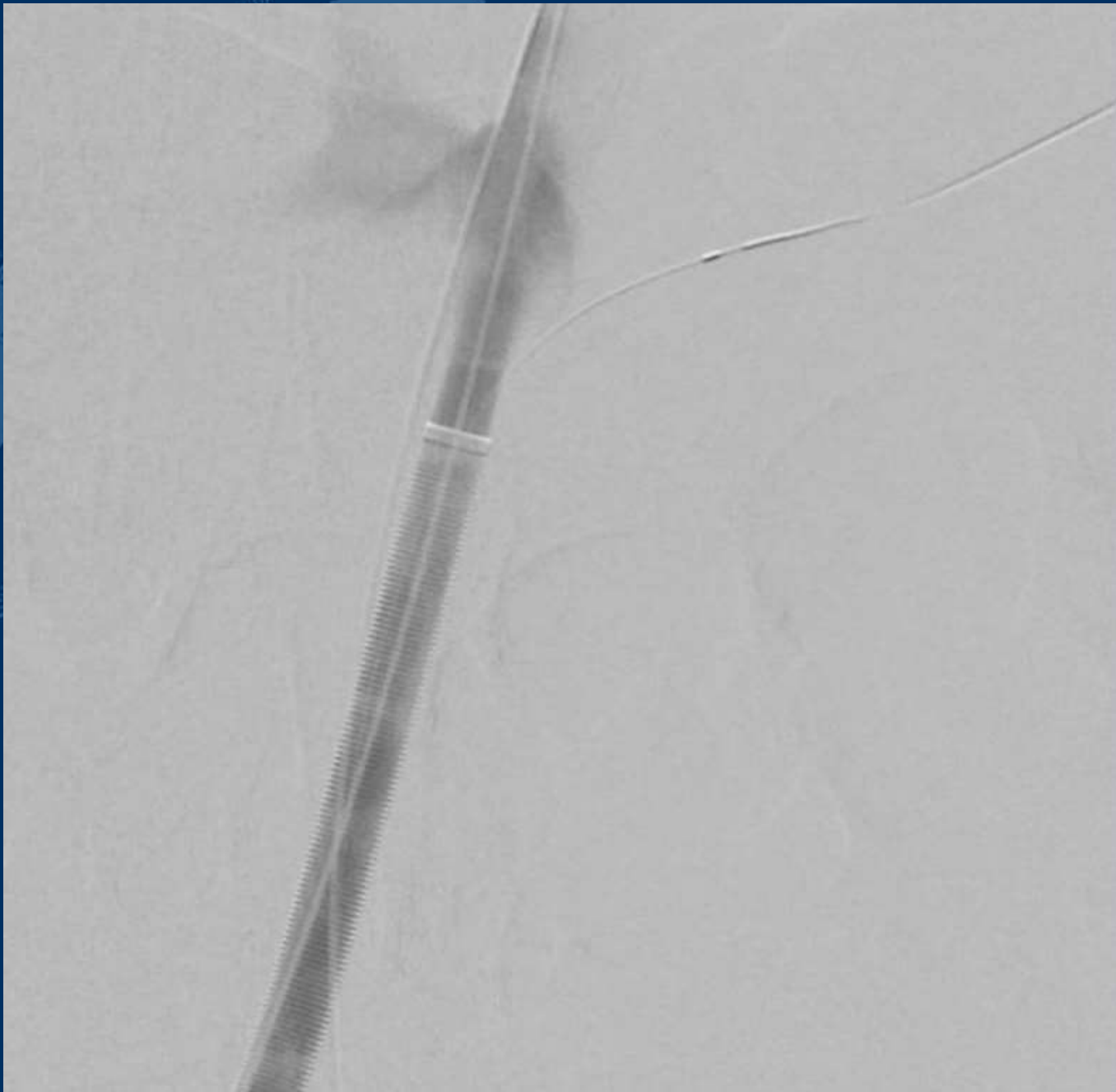
16 Fr Dry seal sheath

12-20 EN-Snare





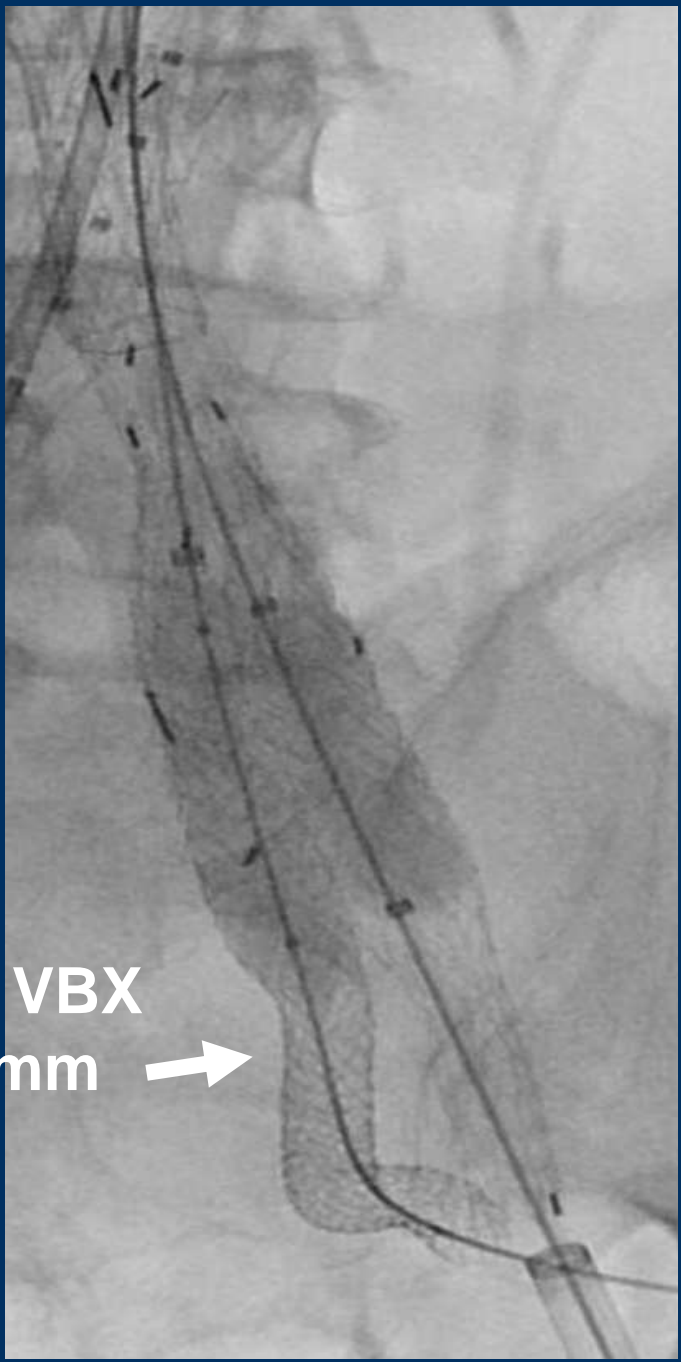


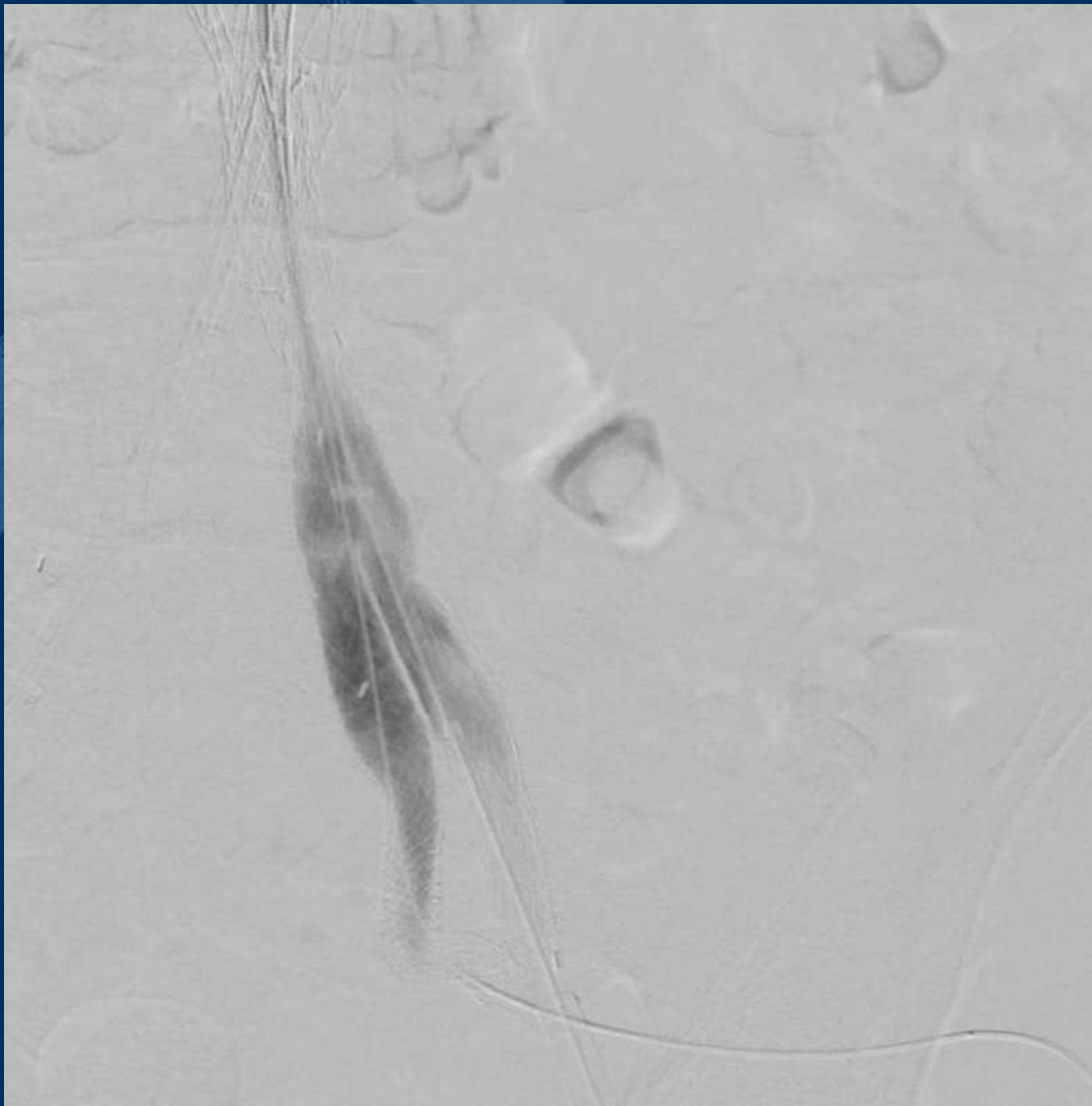


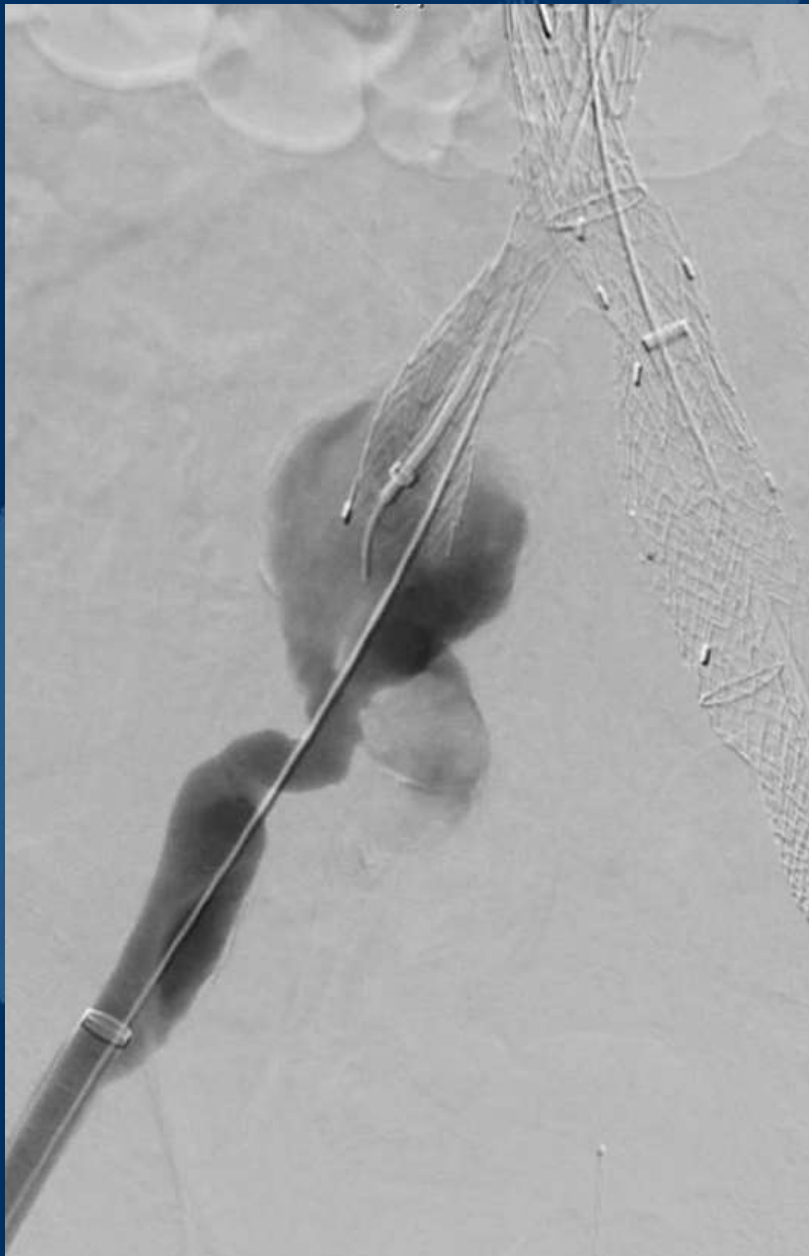
**Gore Excluder**  
35mm main body



**Gore VBX**  
8x59mm →

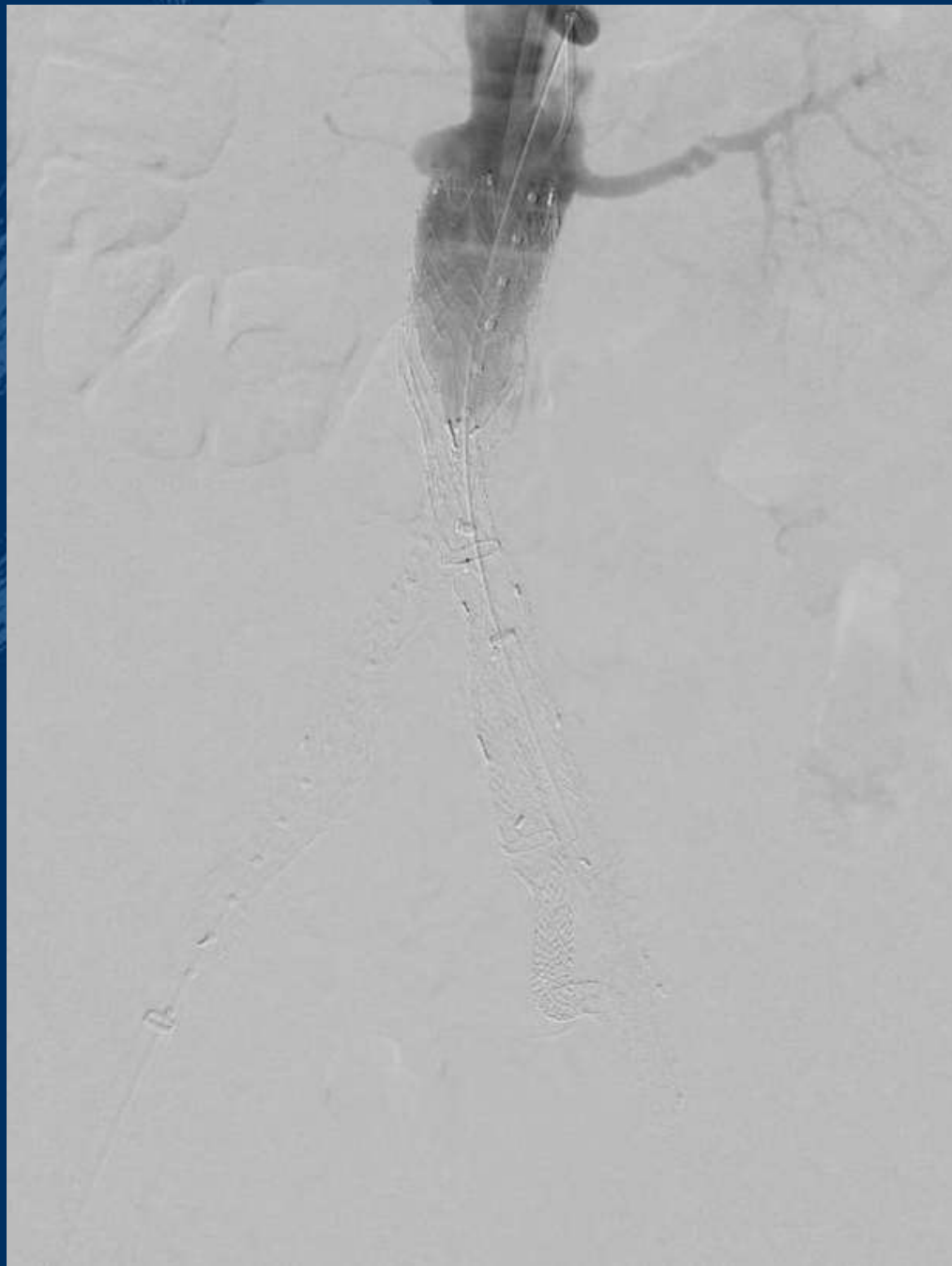






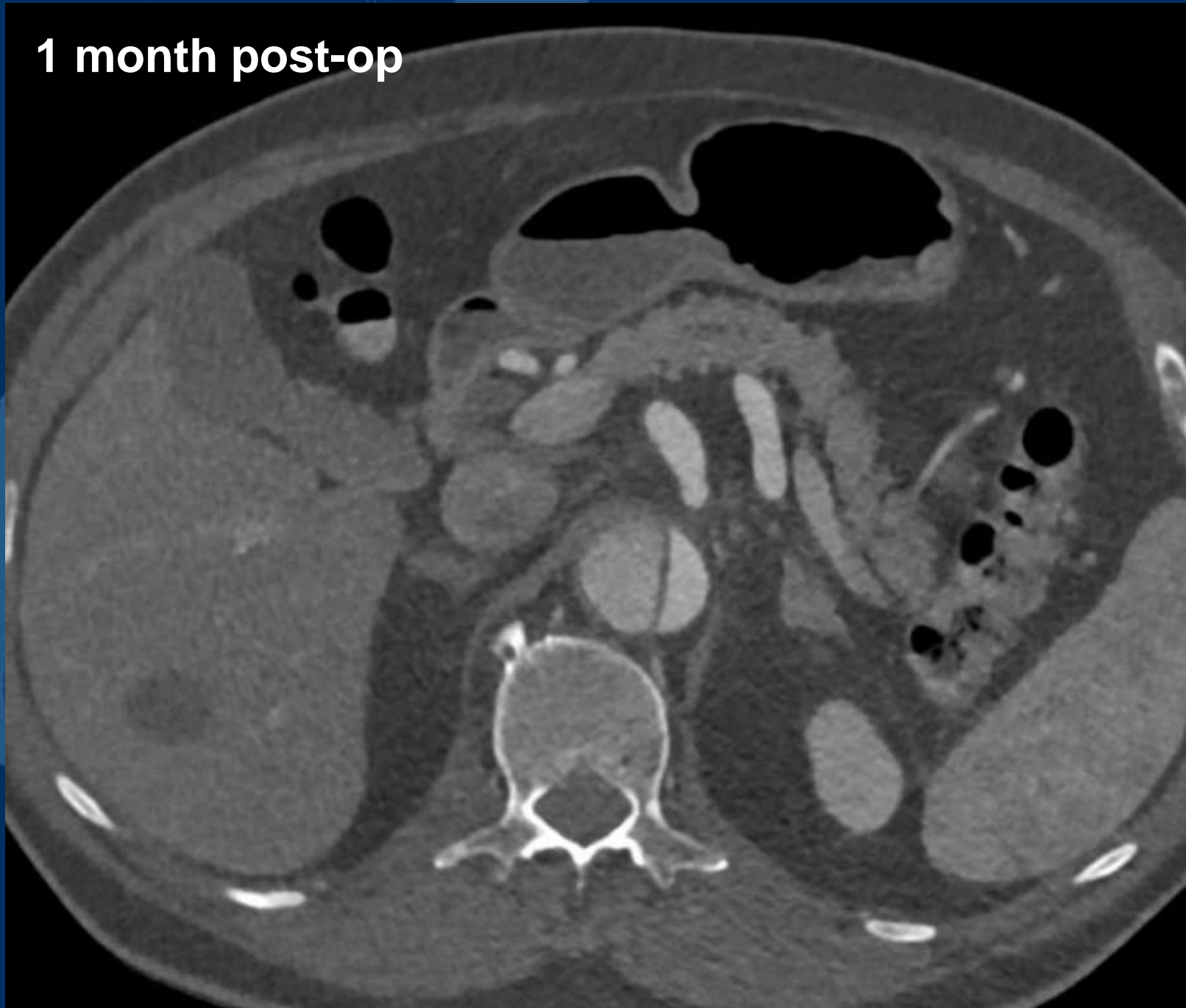
**R iliac**  
14.5mm x 12cm







1 month post-op





# Conclusions

- Endoluminal septotomy feasible, safe
- Allows full expansion of endograft into a re-created single lumen for endovascular aneurysm repair (aortic, iliac)
- Short-term outcomes good
- Long-term durability still unknown



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