



**TOKYO BAY
URAYASU ICHIKAWA MEDICAL CENTER**



Monitoring result of angiographic and intravascular imaging devices from aneurysmal degeneration to femoropopliteal artery occlusion following PB-DES implantation

LINC2020

Tatsuya Nakama MD.

Department of Cardiology,

Tokyo Bay Medical Center, Urayasu, Japan

Disclosure

Speaker name: Tatsuya Nakama MD.

I have the following potential conflicts of interest to report:

Consulting: Boston Scientific, Century Medical Inc., Medtronic

Employment in industry: None

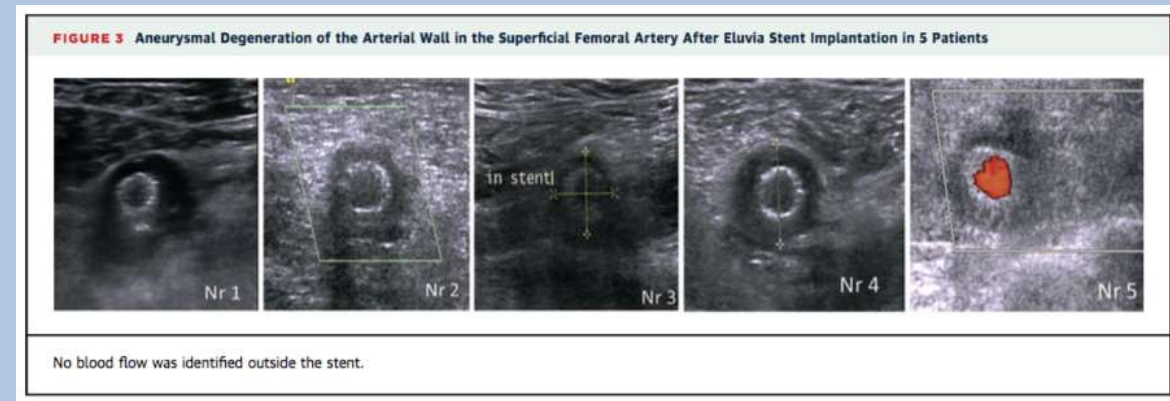
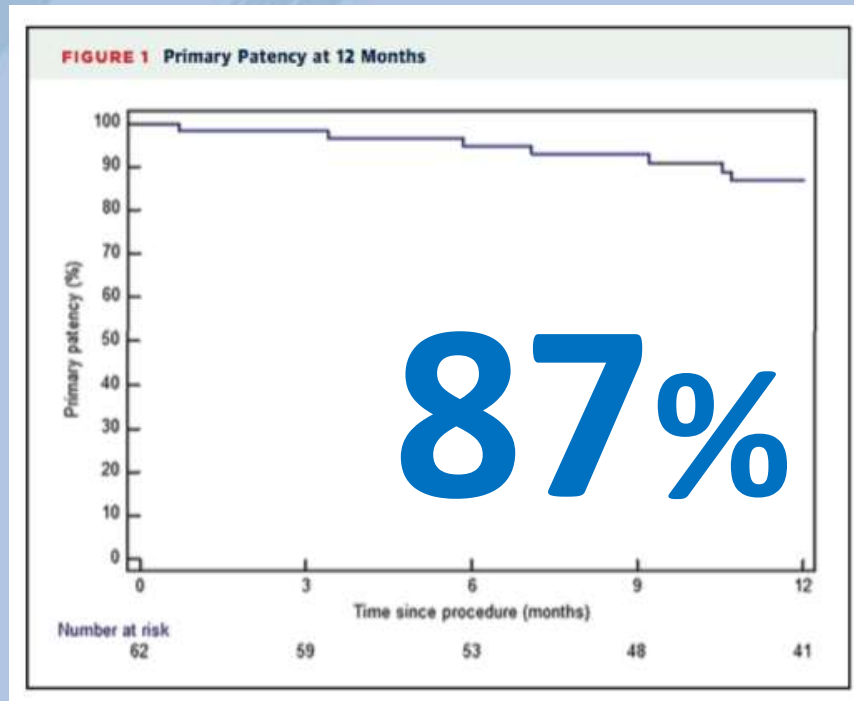
Stockholder of a healthcare company: None

Owner of a healthcare company: None

Honoraria recieved from: Abbot Vascular, Asahi Intecc., Boston Scientific, COOK, Cordis,
NIPRO, KANEKA, Lifeline, Medikit, Medtronic, Orbus Neichi, Terumo,

Background

The Eluvia (Boston Scientific, MN, USA) polymer-based paclitaxel-eluting nitinol stents (PB-PESs) has shown favorable durability in recent clinical trials. However, aneurysmal degeneration (AD) has been identified on duplex ultrasound (DUS) after PB-PES implantation¹. The long-term impact of AD remains unclear.



5 cases Aneurysmal change

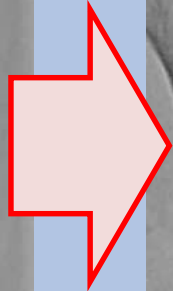
Lesion length 20 ± 12 cm

Calcium 42%, CTO 79%

80s male underwent both *PB-DES* & *IWS* implantation

Pre

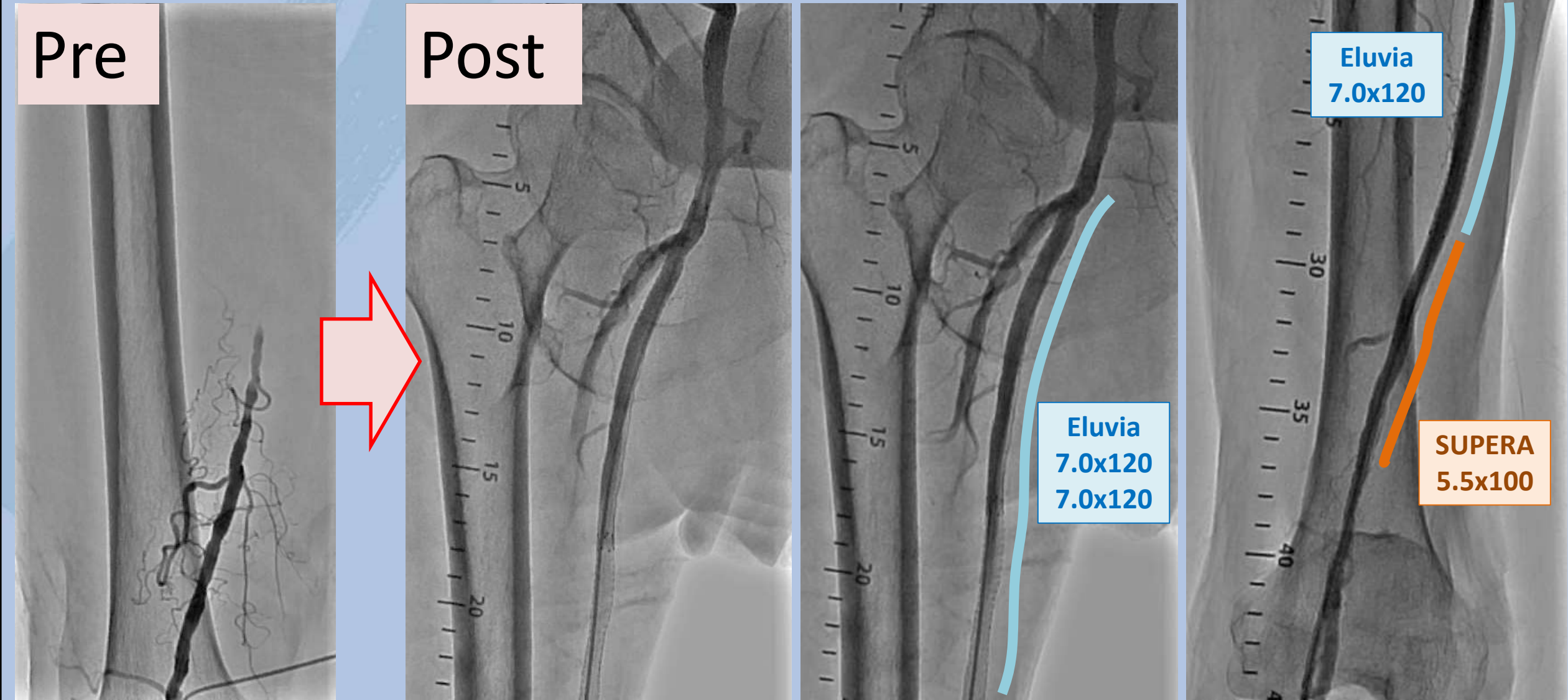
Post



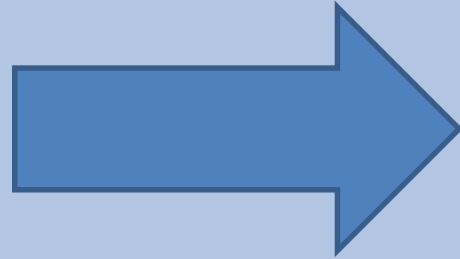
Eluvia
7.0x120

Eluvia
7.0x120
7.0x120

SUPERA
5.5x100

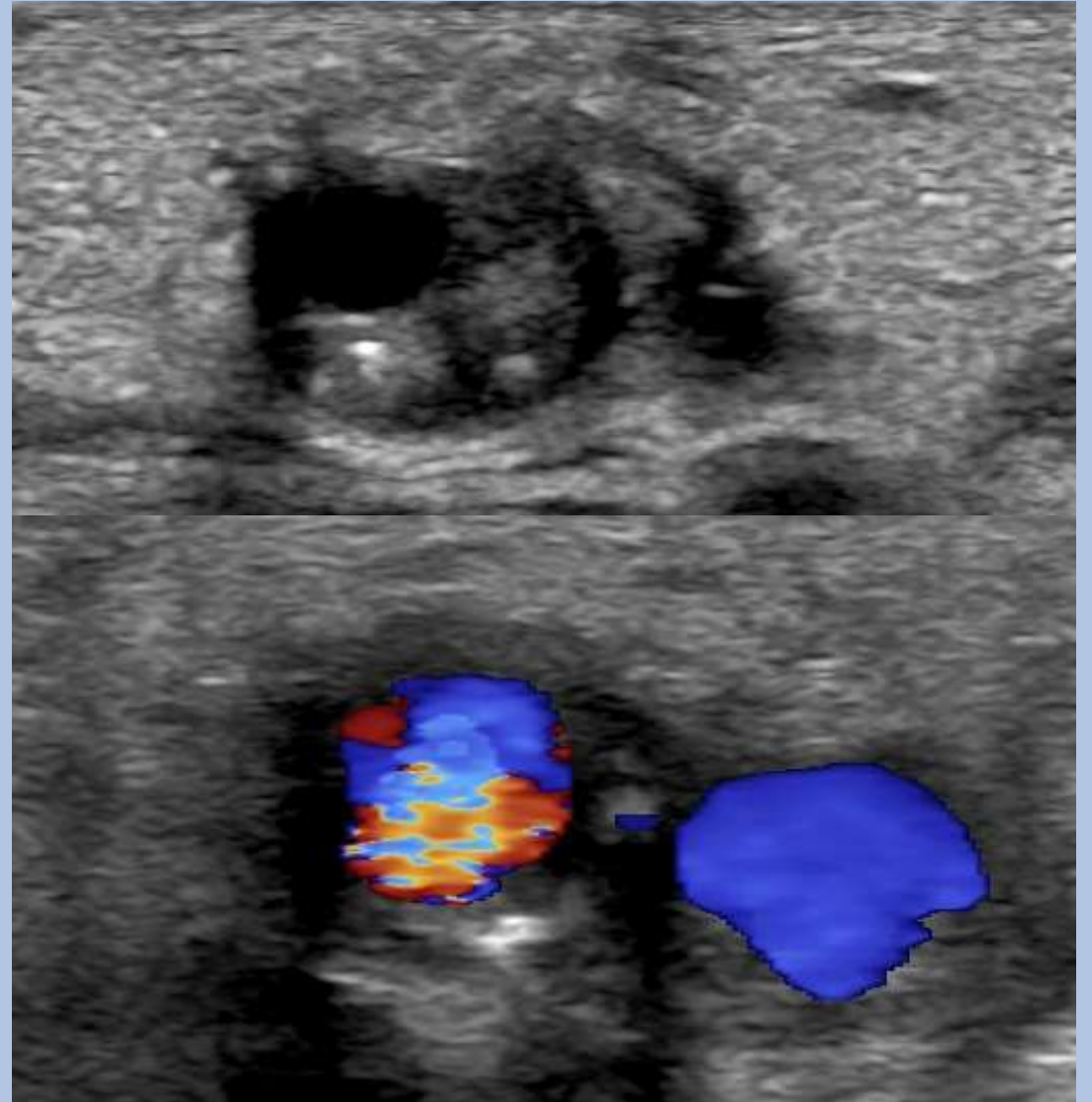


3 Follow-up DUS showed “AD”



Admission for FU

- DUS (again)
- Angiogram
- Imaging device
 - IVUS
 - OFDI
 - Endoscopy



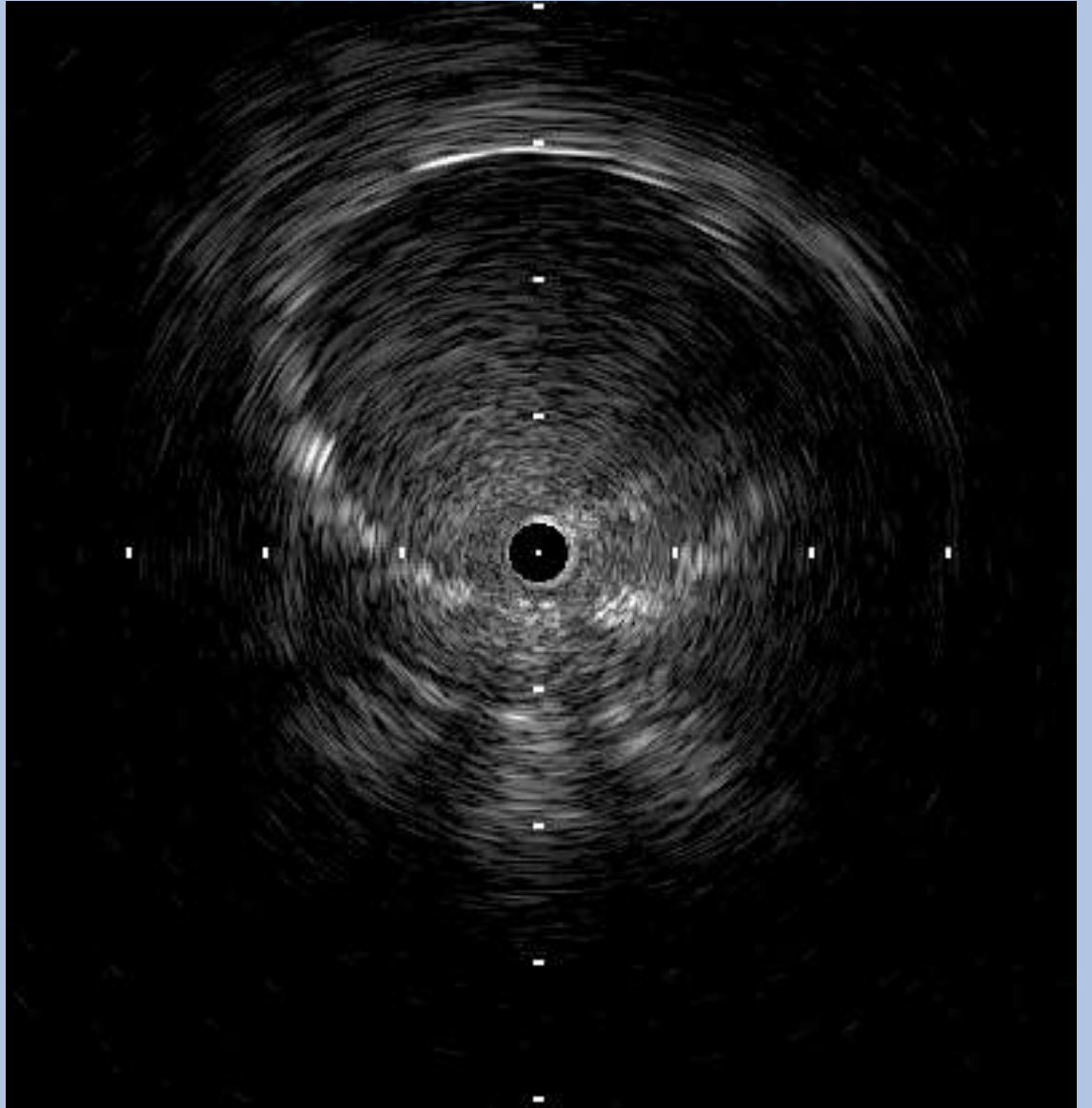
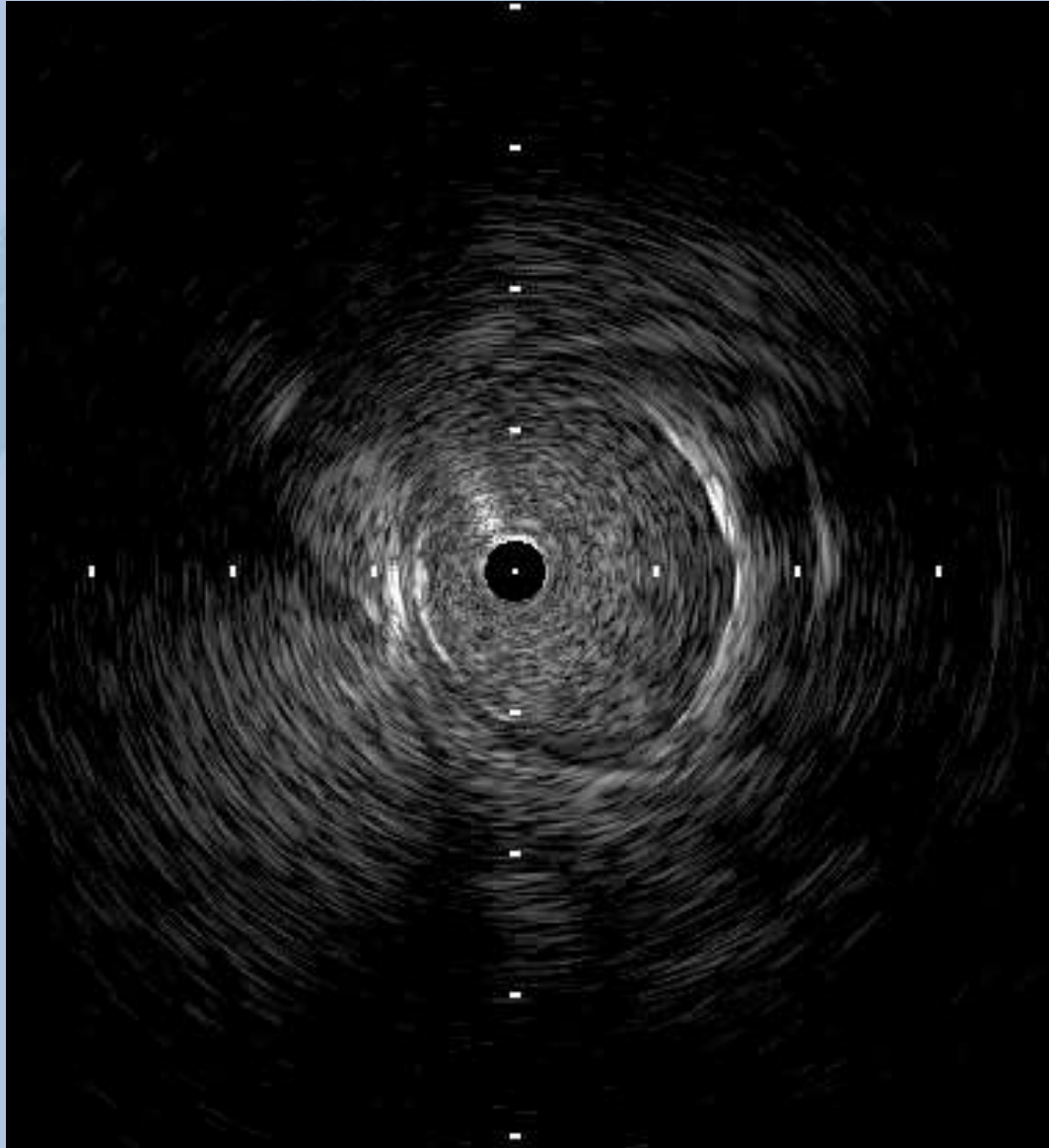
No-stent mal-apposition was observed



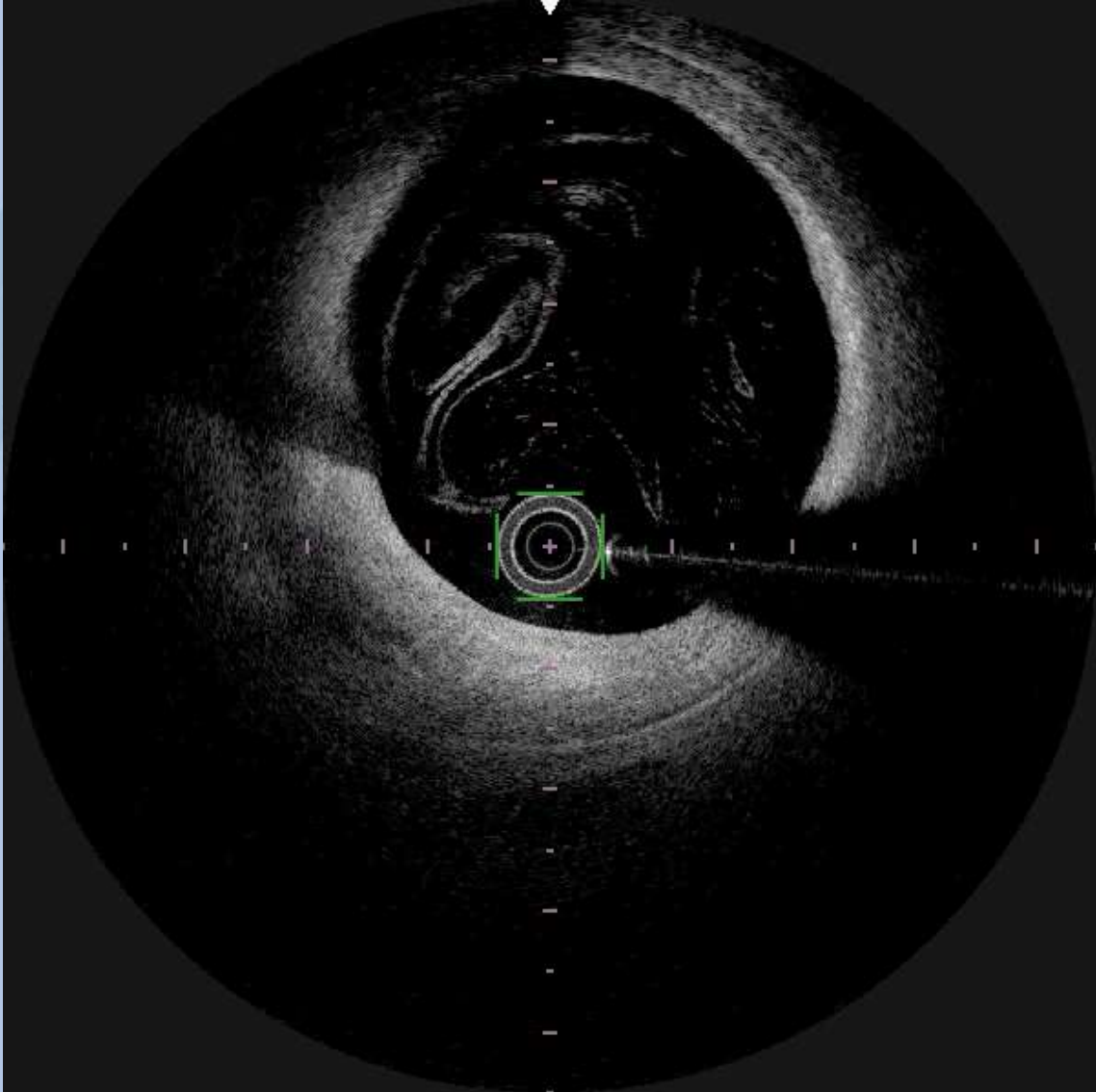
No AD?



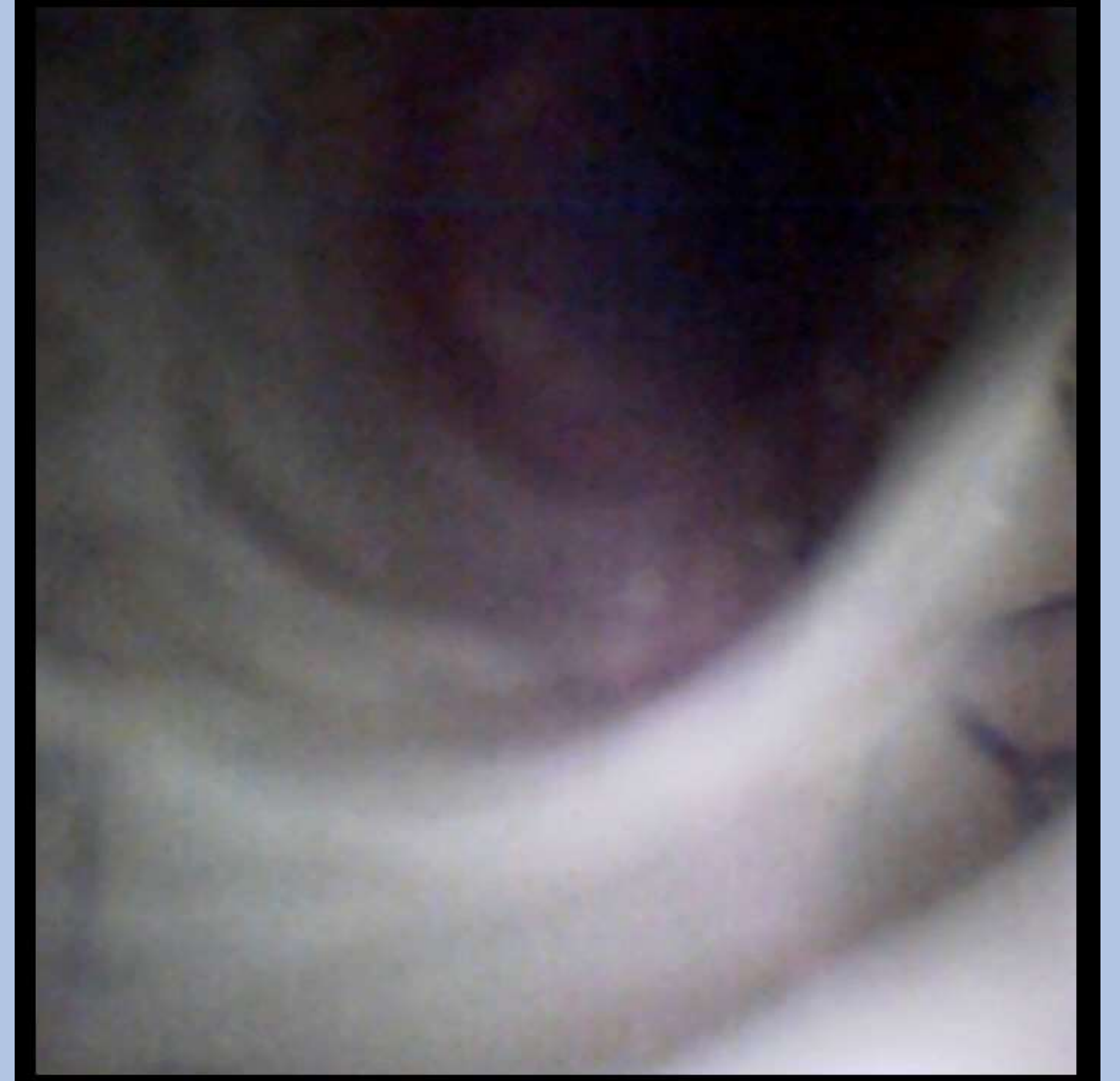
*IVUS findings also showed “**Nothing**”*



*OFDI findings also showed “**Nothing**”*



Endoscopic findings showed
“Almost *perfect epithelialization*”



3 month FU result is completely different **BNS**

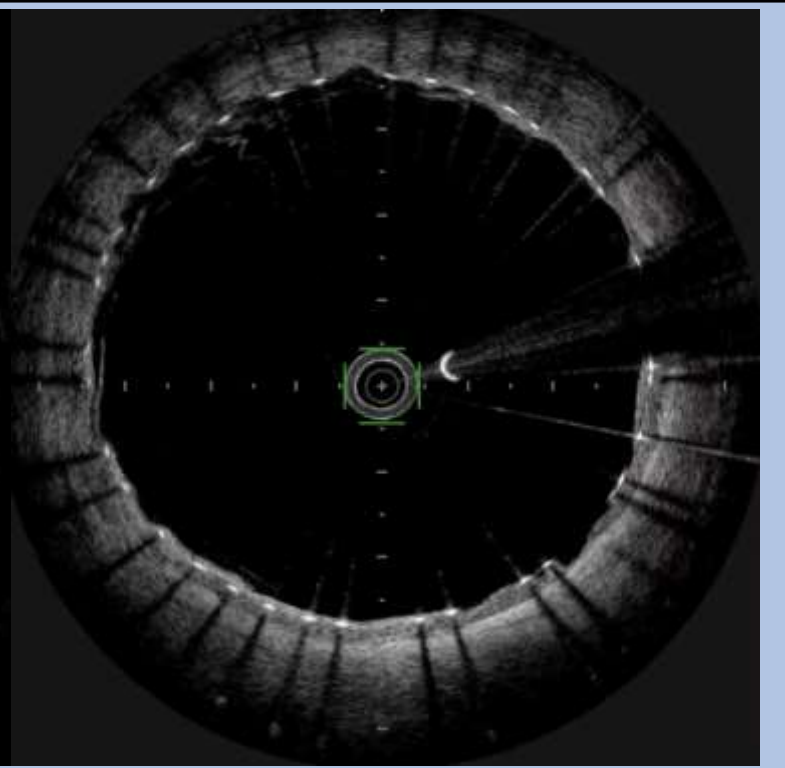
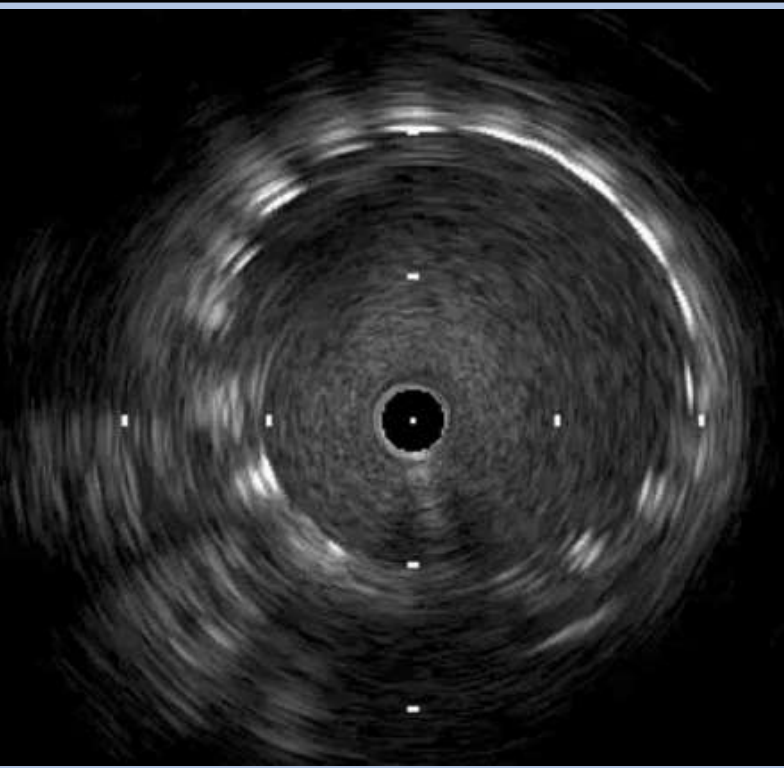


Eluvia 7.0x120, 3M FU

Halo sign was observed in DUS,
but no aneurysmal changes

SUPERA 5.5x100, 3M FU

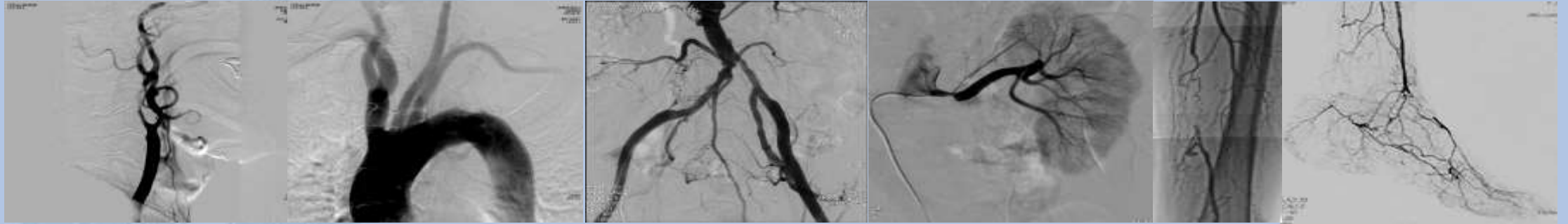
Complete epithelialization
Overlap point: **no neointima**



Aneurysmal degeneration was observed, but OFDI and Angioscopic finding were similar to coronary DES

Conclusion

- we speculate that AD after PE-PES implantation may not cause stent mal-apposition, which is a risk factor for stent thrombosis.
- Although AD was observed after PB-drug eluting stent implantation, the stent strut apposition and epithelialization appeared almost perfect.
- Therefore, AD may not be a risk of stent thrombosis itself.
- However, this is only one case report. Accumulation of clinical experiences and evidences should be need.



Thank you for your attention

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