



EVAS and EVAR: What are the differences in case selection, deployment and surveillance?

The Royal Liverpool and Broadgreen University Hospitals 
NHS Trust


Liverpool Vascular and Endovascular Service

 UNIVERSITY OF LIVERPOOL

Francesco Torella
Liverpool, UK

Disclosure

Speaker name:

Francesco Torella

I have the following potential conflicts of interest to report:

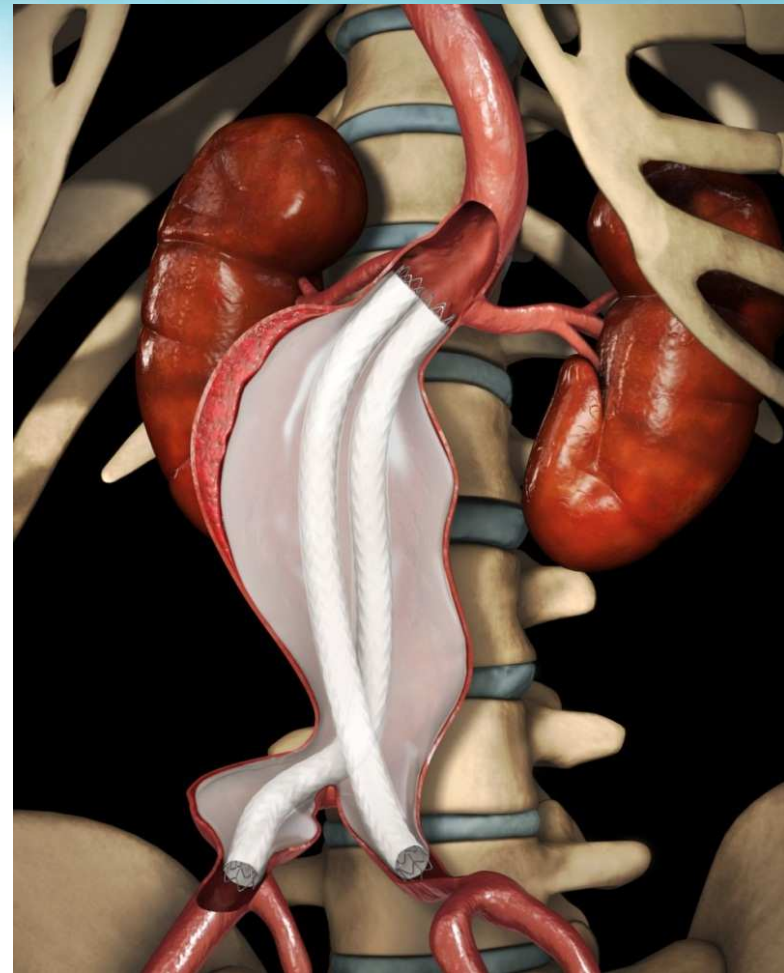
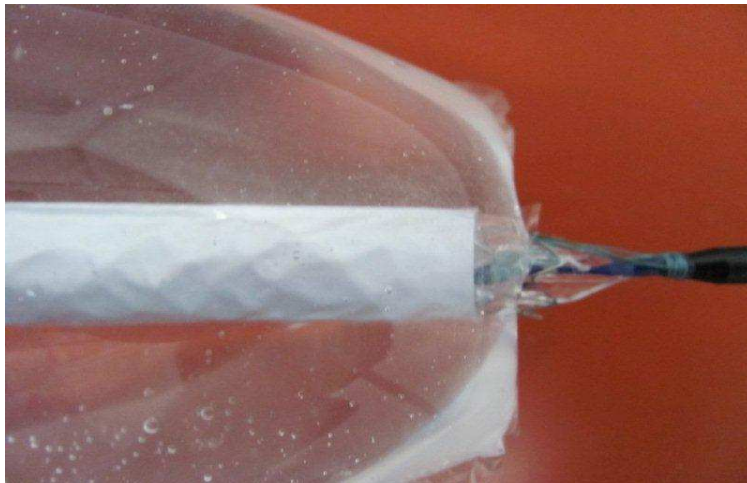
- Consulting
- Employment in industry
- Shareholder in a healthcare company
- Owner of a healthcare company
- Proctorship and educational fees (Endologix)
- I do not have any potential conflict of interest

EVAS

Different concept

Sealing, not fixation

Stents + “endobags”



EVAS planning

anatomical constraints

Absence of infra-renal segment

Angulation

“Diseased” neck

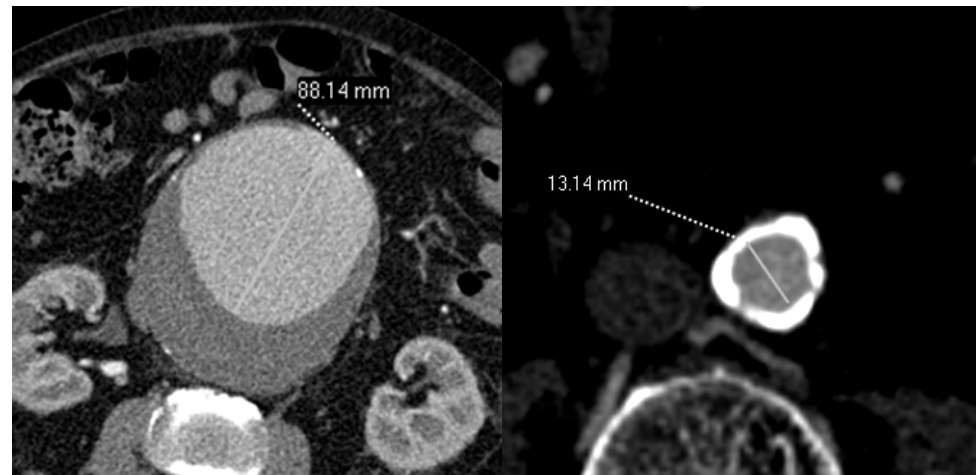
Aneurysm length

Narrow aortic bifurcation

Large aorto-iliac lumen

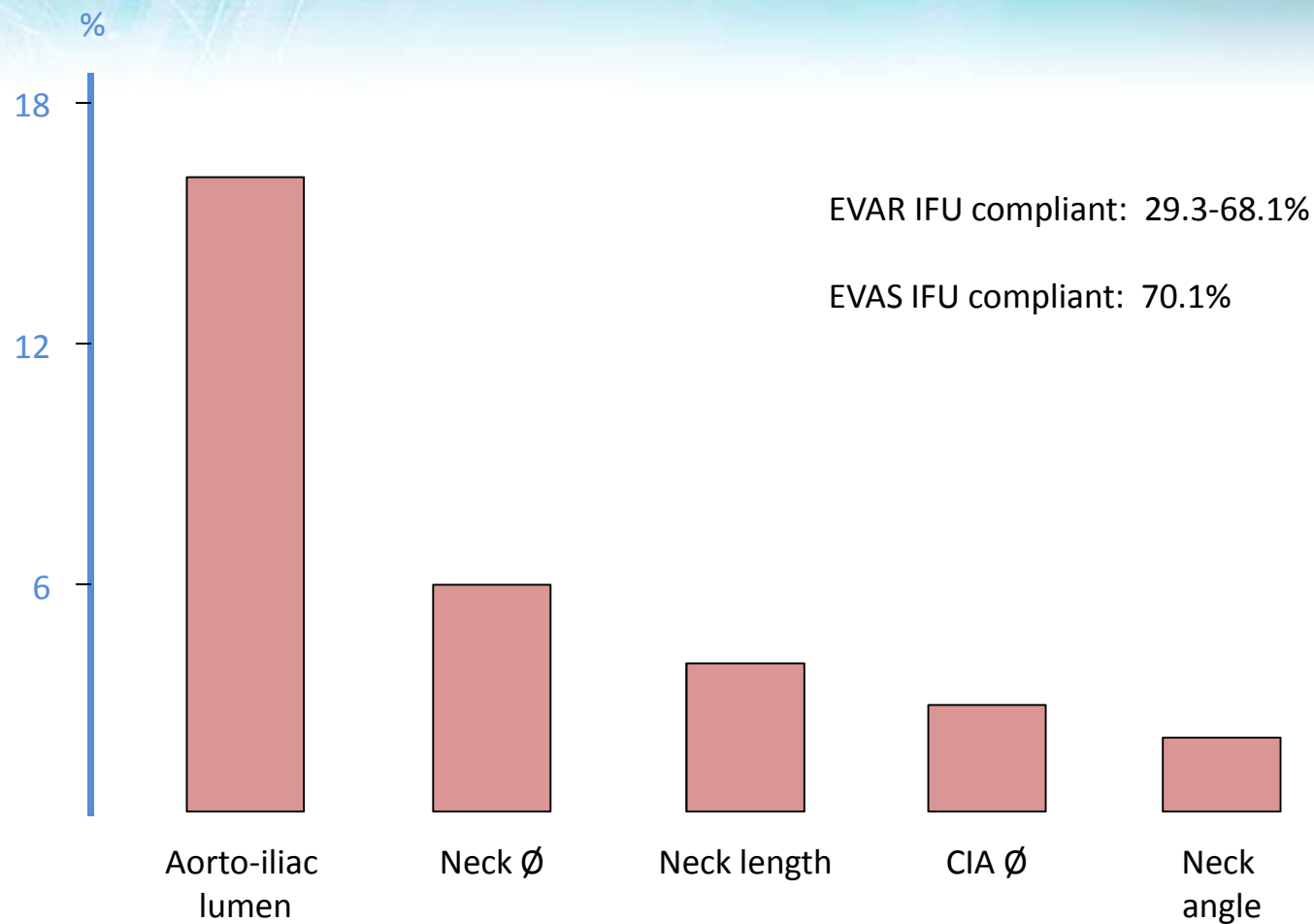


← 100-180 mm →



Suitability for EVAR/EVAS by IFU

776 AAAs



Karthikesalingam et al., *EJVES* 2013 46, 440-445 DOI: (10.1016/j.ejvs.2013.06.017)

EVAS

outside IFU

Neck diameter



Aneurysm length

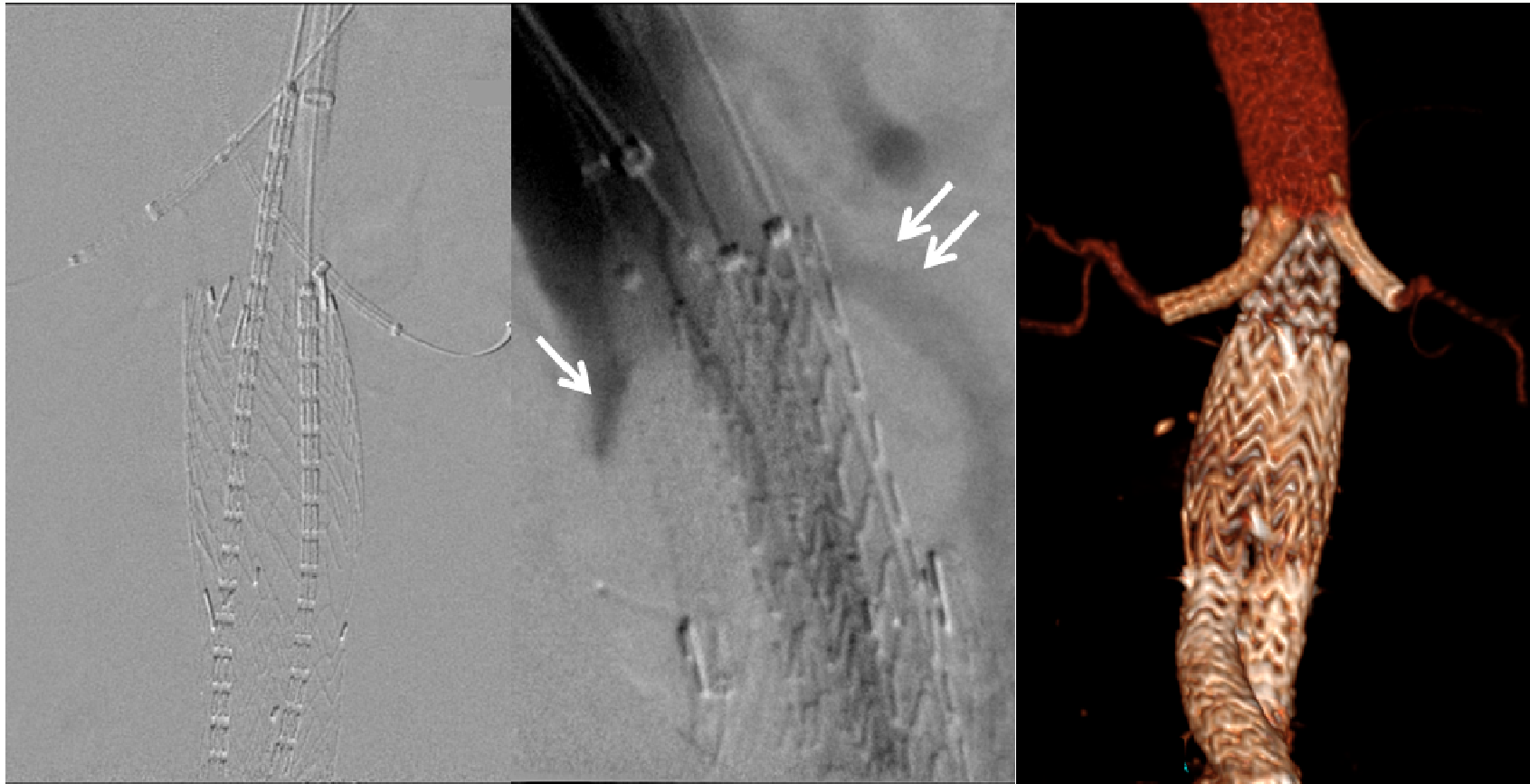


Lumen diameter
Narrow bifurcation



EVAS

outside IFU



EVAS deployment

MEET 2015
MULTIDISCIPLINARY EUROPEAN
ENDOVASCULAR THERAPY

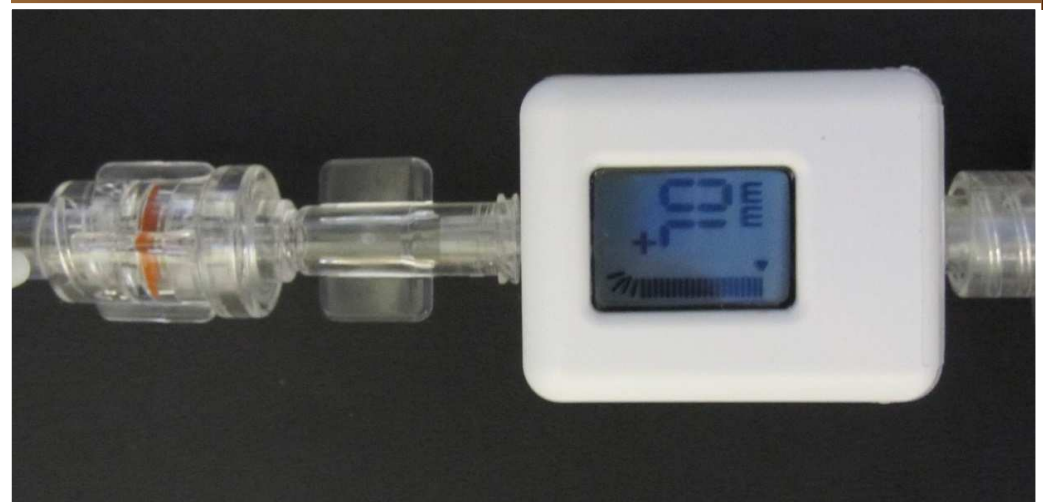
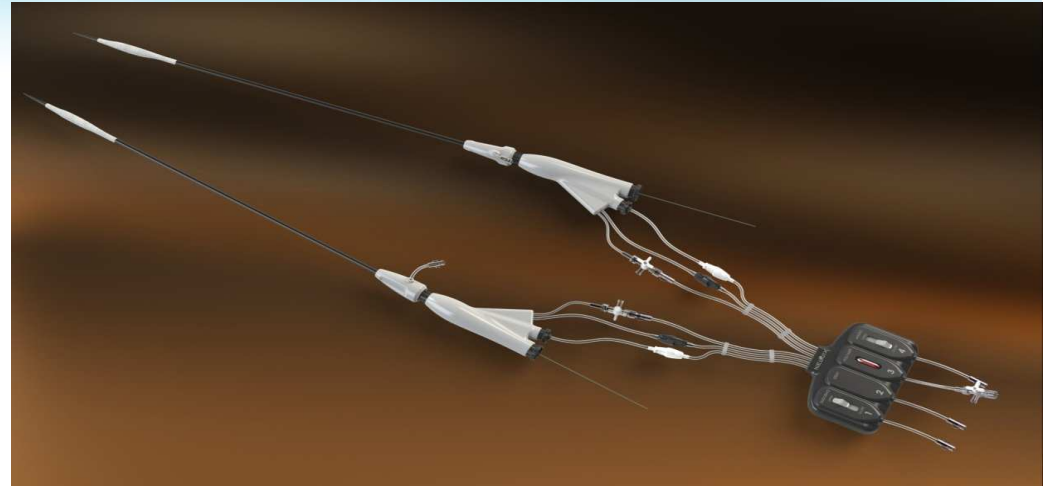
Technically easy, quick

Two operators

No contra-lateral limb cannulation

Pressure is key

Less radiation



EVAS deployment

3 steps

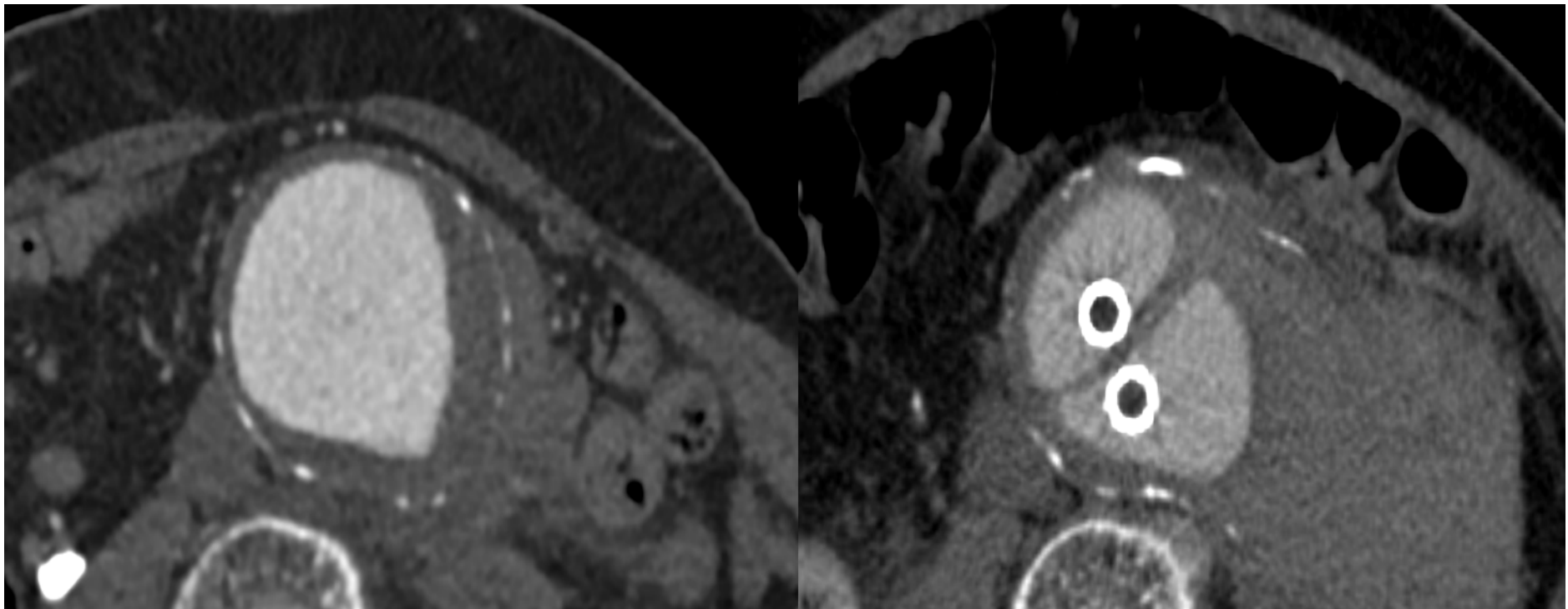
1. Position the devices
2. Deploy stents
3. Fill endobags



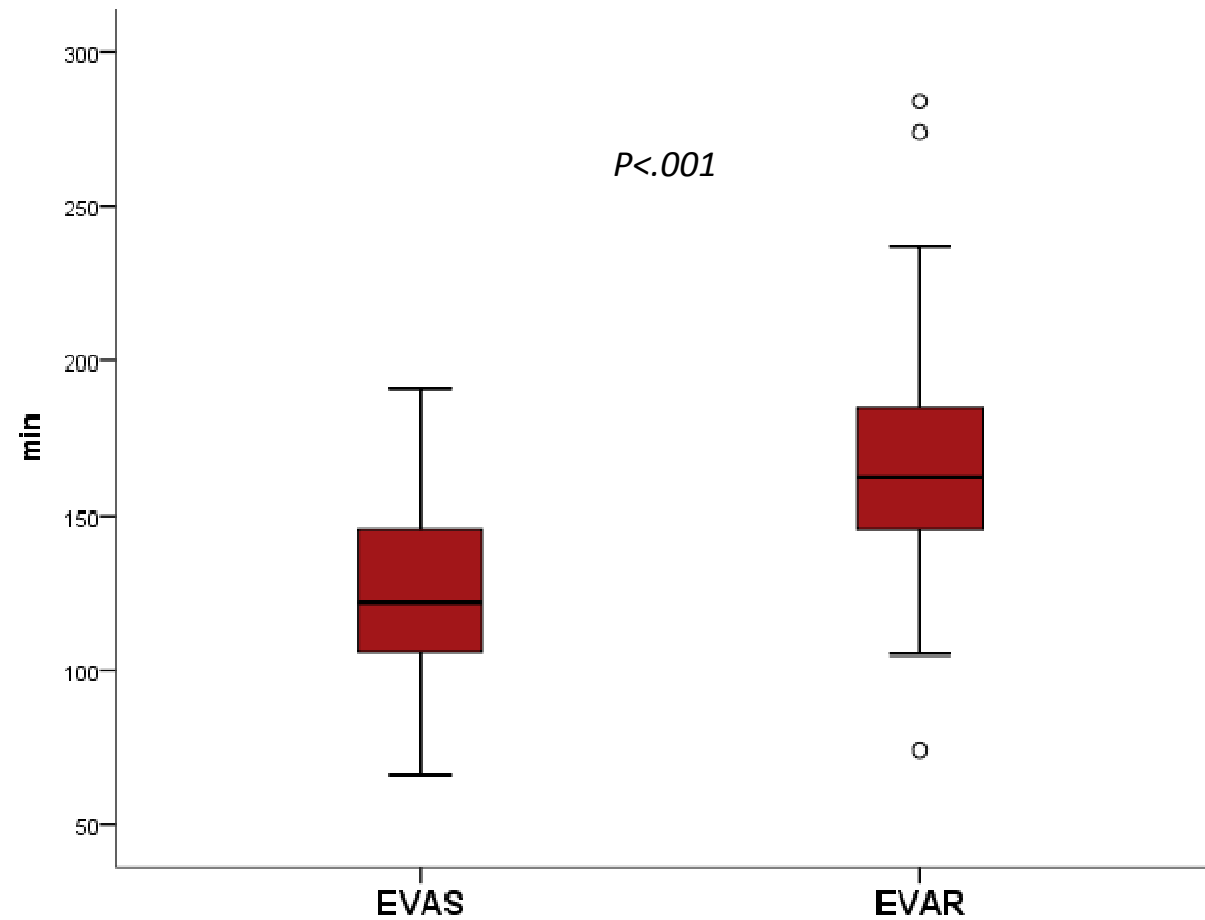
EVAS deployment



Pressure

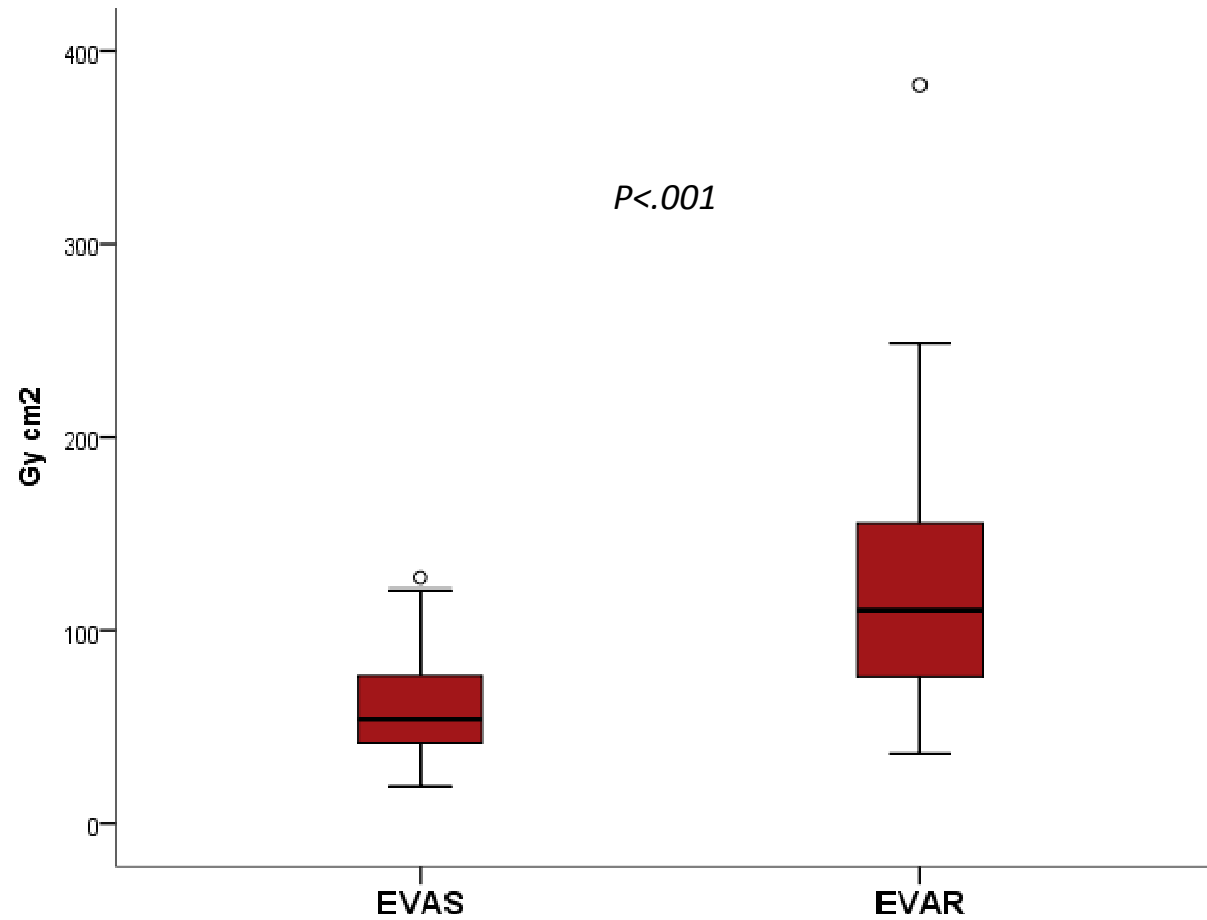


Theatre time

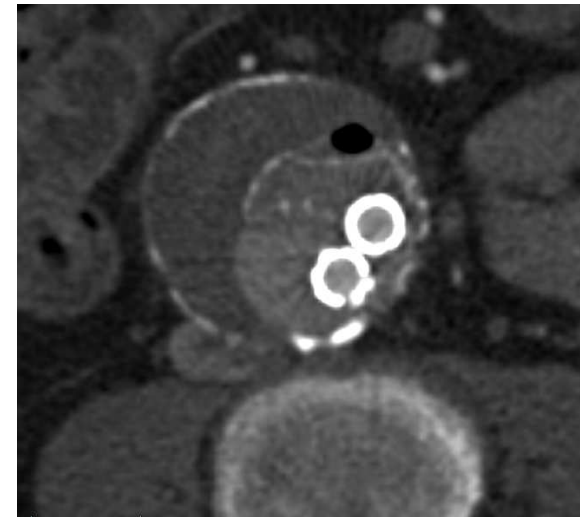
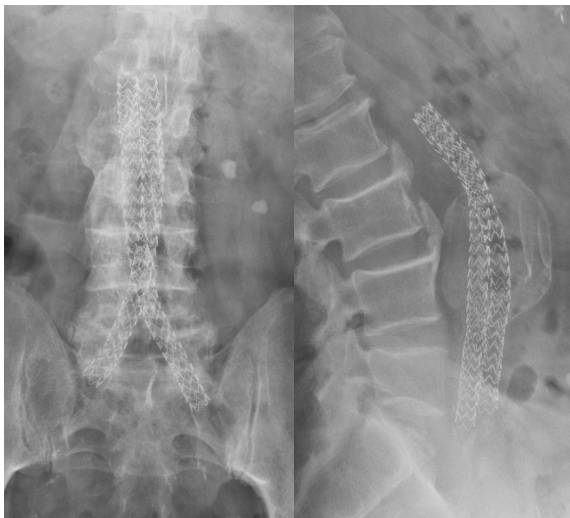


Radiation

DAP



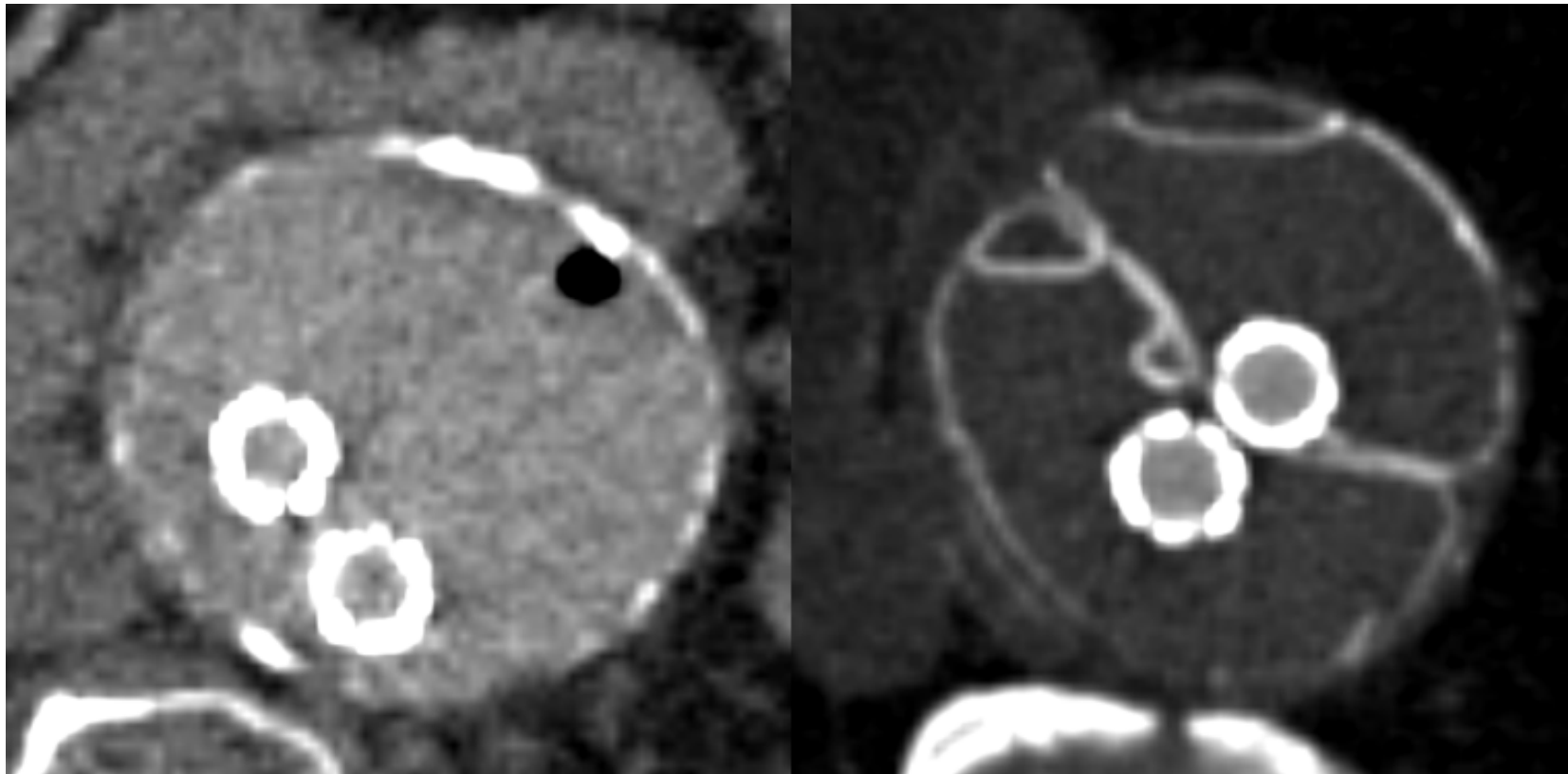
Follow-up



D'Abate et al., JEVT, doi:10.1177/1526602815576098
Mc Williams et al., JEVT doi:10.1177/1526602815582209
Karthikesalingam et al., JEVT doi:10.1177/1526602815583455

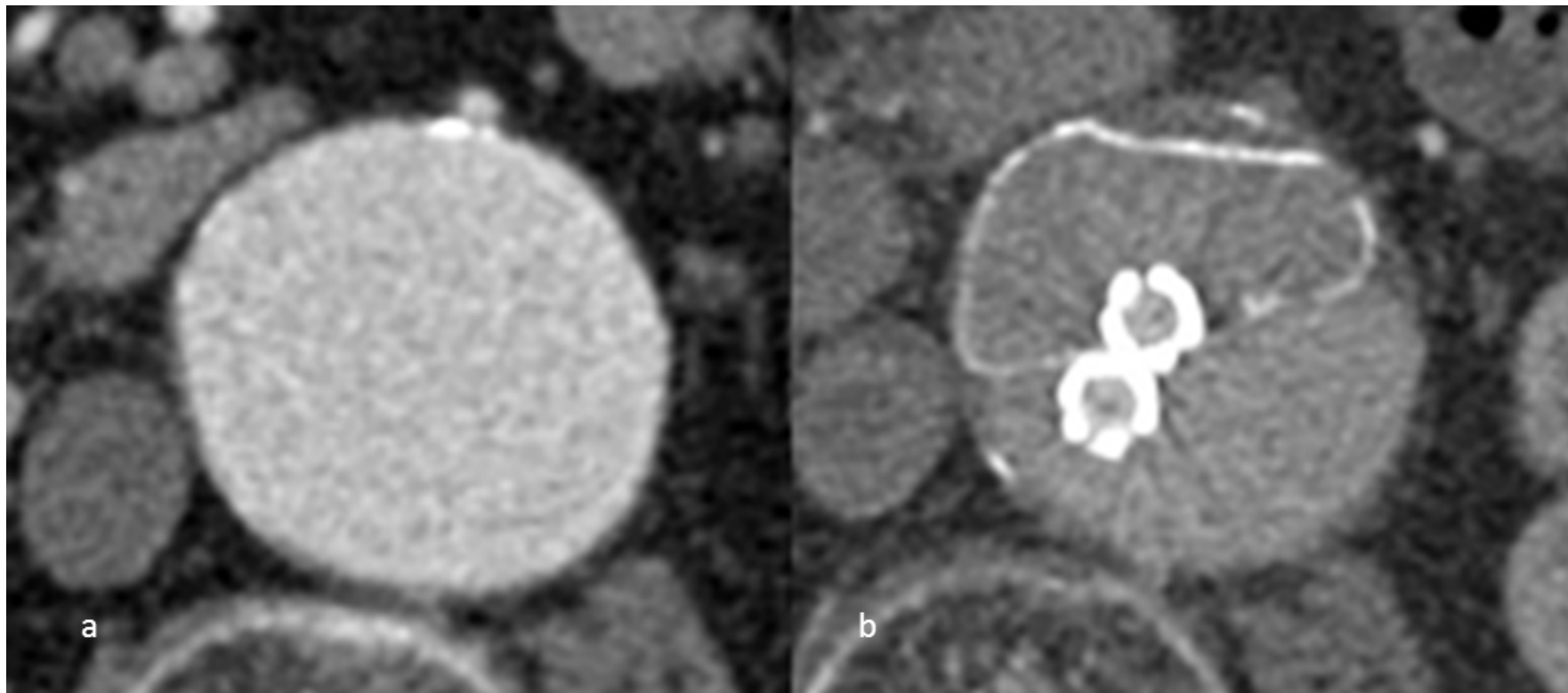
Follow-up

endobags



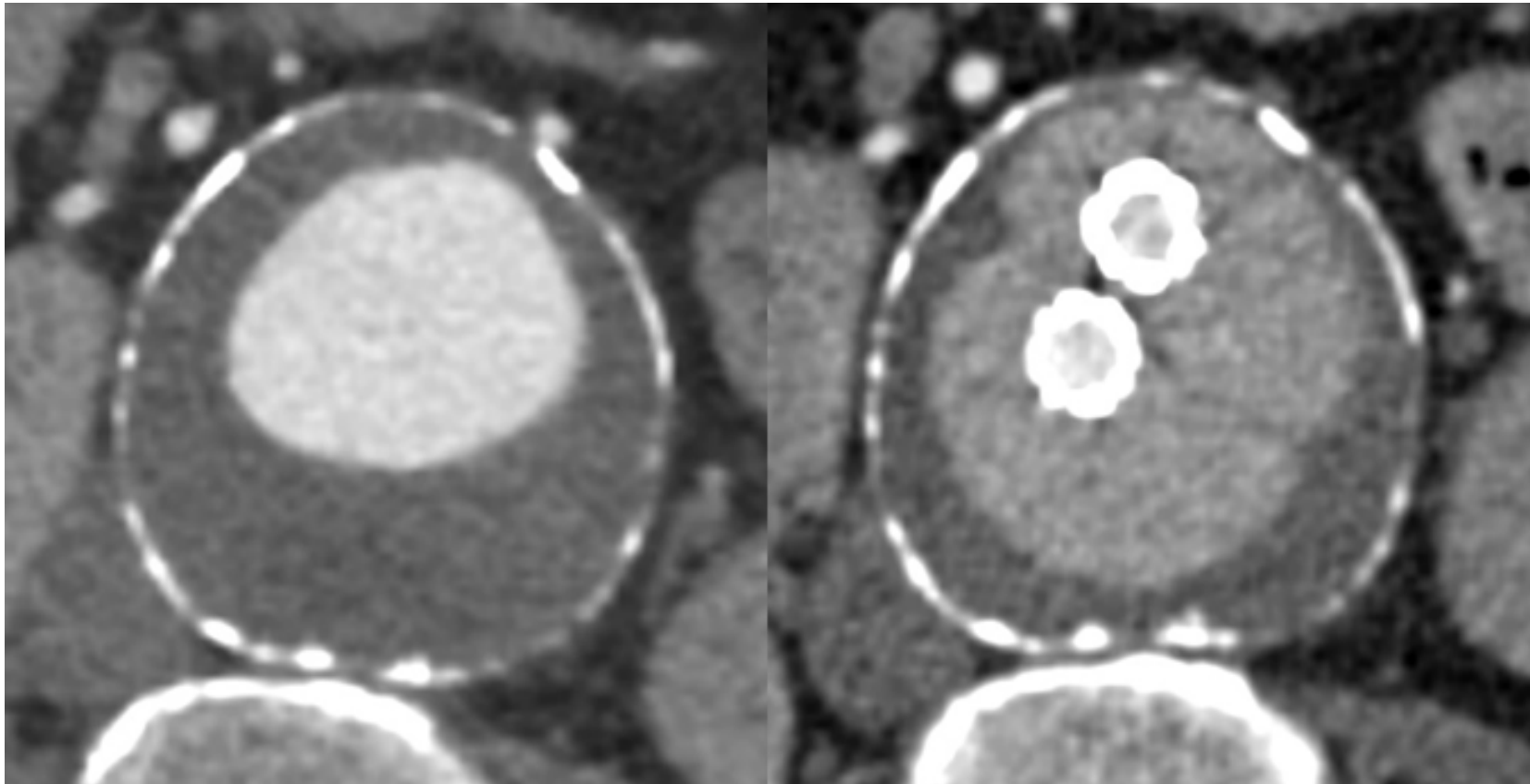
Follow-up

endobags



Follow-up

thrombus compression



EVAS

Radically different concept from EVAR

Easier deployment, less radiation

New surveillance findings

New pitfalls