AORTIC ANEURYSM - A DIFFICULT CASE





Professor Francesco Torella Liverpool Vascular & Endovascular Service

DISCLOSURES



Research grant, educational support, consultancy



Educational grant



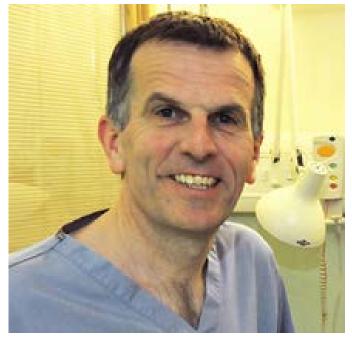
Speaker's fees





CREDITS







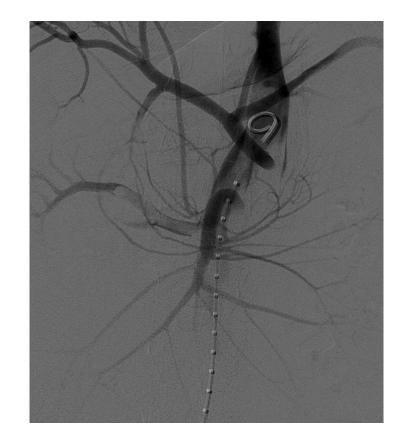
JANUARY 2010

36 year old man with acute TBAD Morbidly obese Ischaemic left leg Mesenteric ischaemia Acute renal impairment

Floating viscera sign on angio Good filling of CA, SMA and LRA Poor filling of RRA









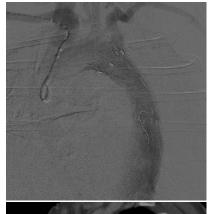
JANUARY 2010

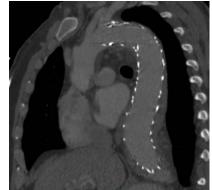
TEVAR

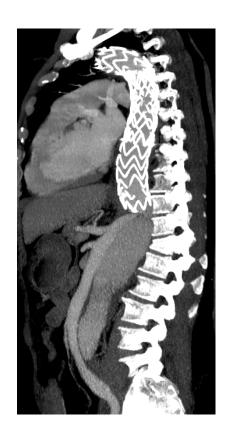
primary tear coverage

Complicated recovery

small bowel resection + ileostomy renal failure home parenteral nutrition

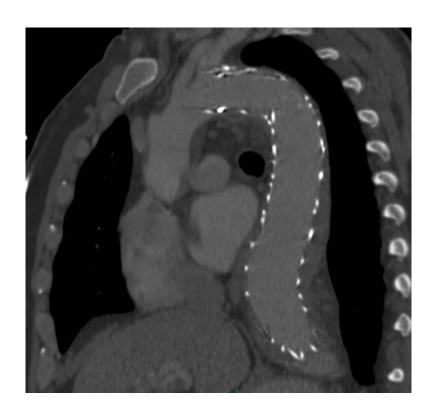








MAY 2011



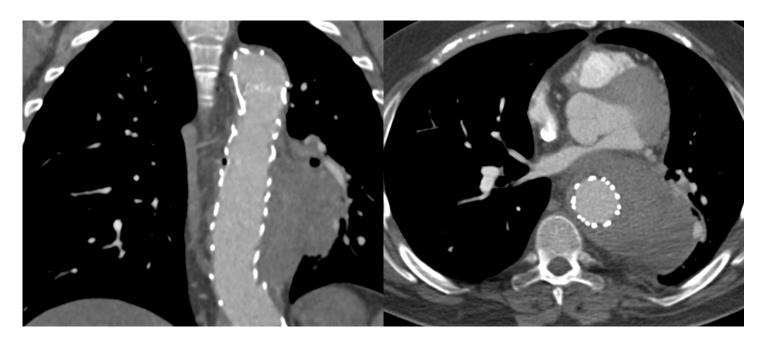


MARCH 2012

Unwell – line related sepsis

Admitted to hospital with chest pain

Diagnosed with fungal septicaemia





MARCH 2012

Graft explant

Extent II TAA repair

MEP

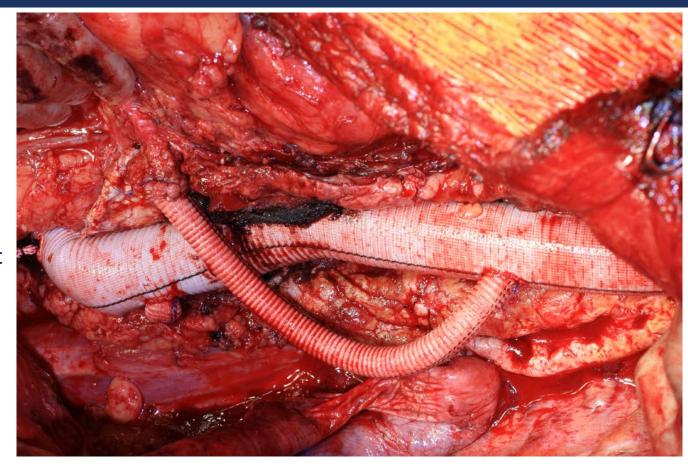
Spinal drain

Left heart bypass + circulatory arrest

Intercostal graft

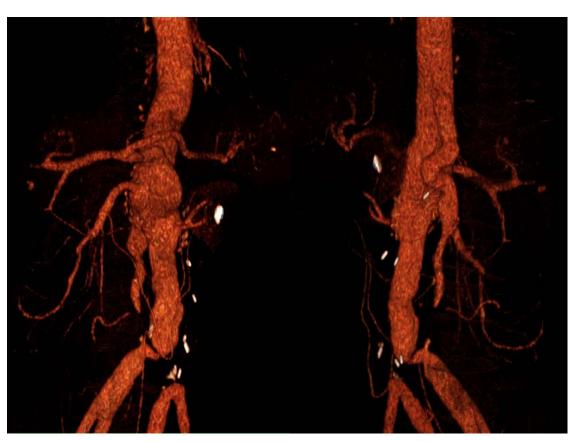
Slow recovery

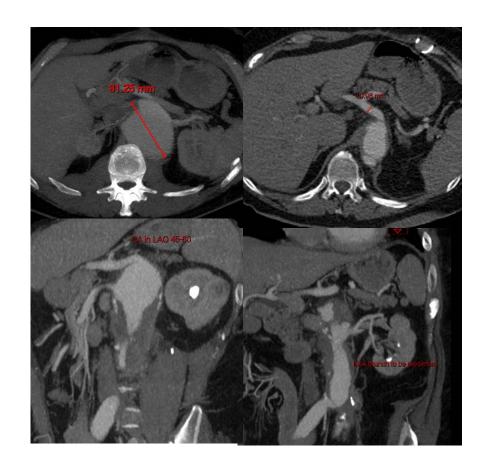
Recurrent fungal chest infections





APRIL 2013

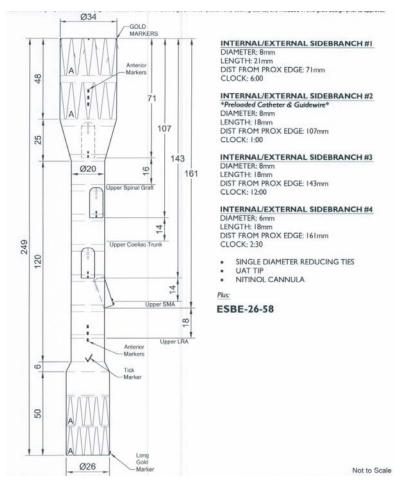


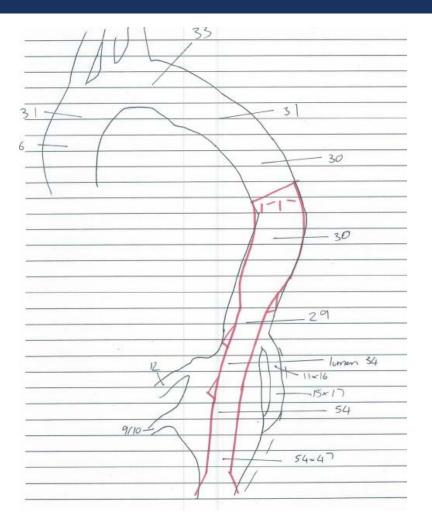






THE PLAN









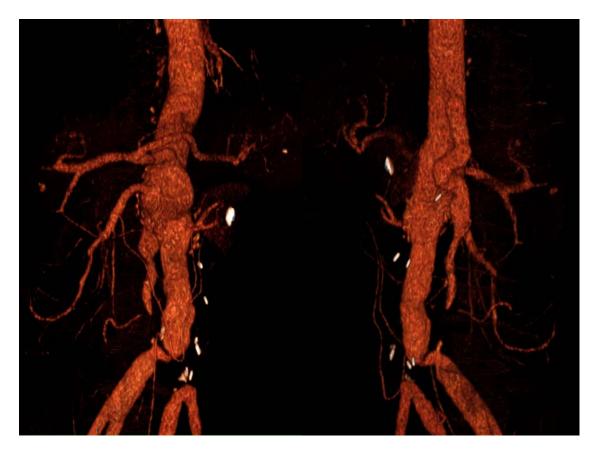
PROBLEMS

Right iliac stenosis

Left iliac occlusion

Early LRA brancing

Large target vessel Ø







JULY 2013

Right axillary and right femoral access

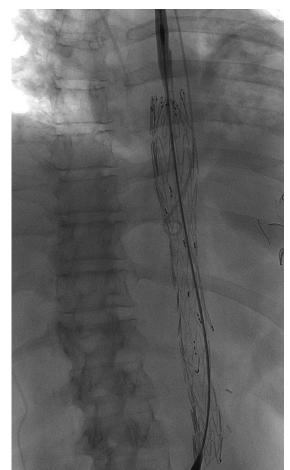
Atrium x 2 to CA and intercostal graft

Atrium x 1 to main left renal large upper pole branch sacrificed

Fluency x 2 to SMA

14 mm self-expanding stent to R CIA

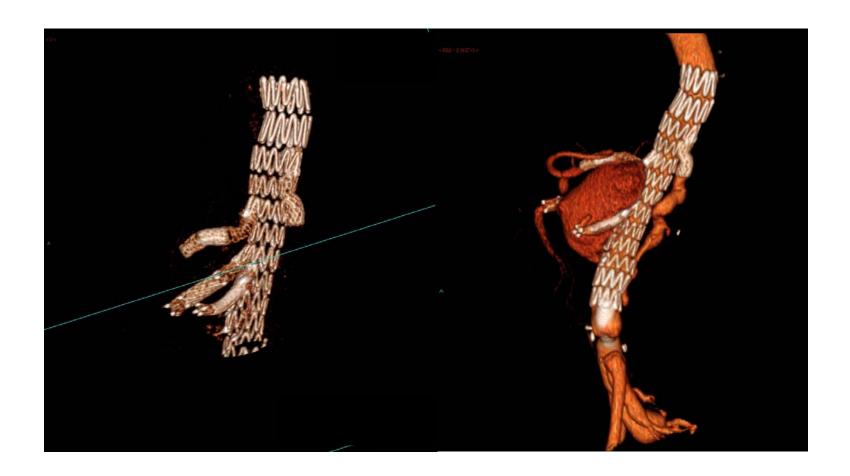
All branches patent on completion







POSTOPERATIVE CT





OCTOBER 2014

 $AAA \varnothing = 57 \times 64 \text{ mm}$

No endoleak

All branches patent









MAY 2015

AAA Ø = 58 x 64 mm

No endoleak

All branches patent





MAY 2016

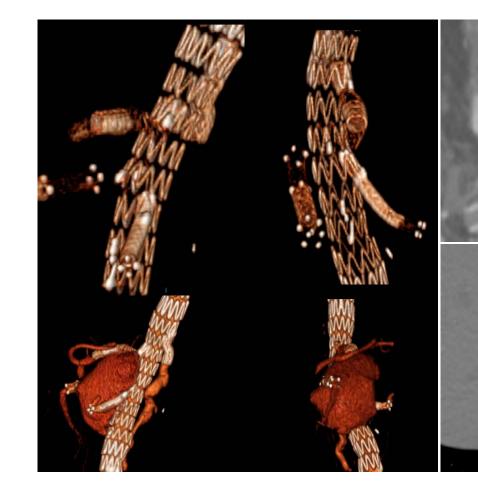
 $AAA \varnothing = 63 \times 86 \text{ mm}$

Large endoleak

SMA branch disconnected

Why?

What next?







AUGUST 2016 – WHILE WE ARE THINKING...

 $AAA \varnothing = 78 \times 90 \text{ mm}$

Large endoleak

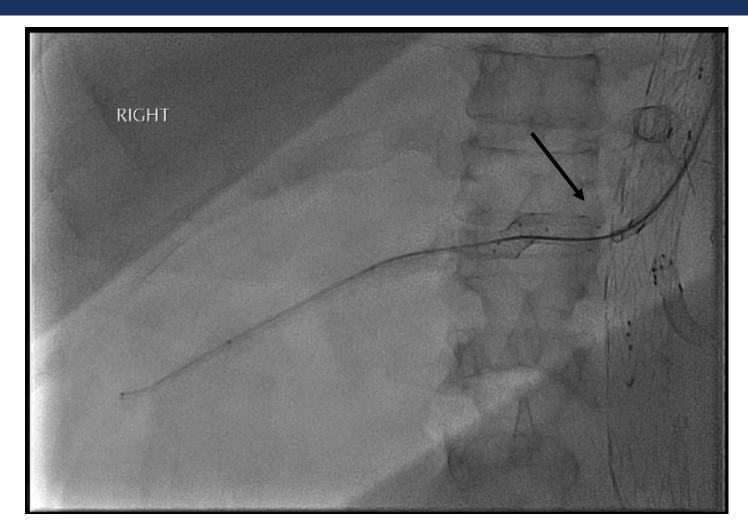
SMA branch disconnected





Access to SMA with Sidewinder 1

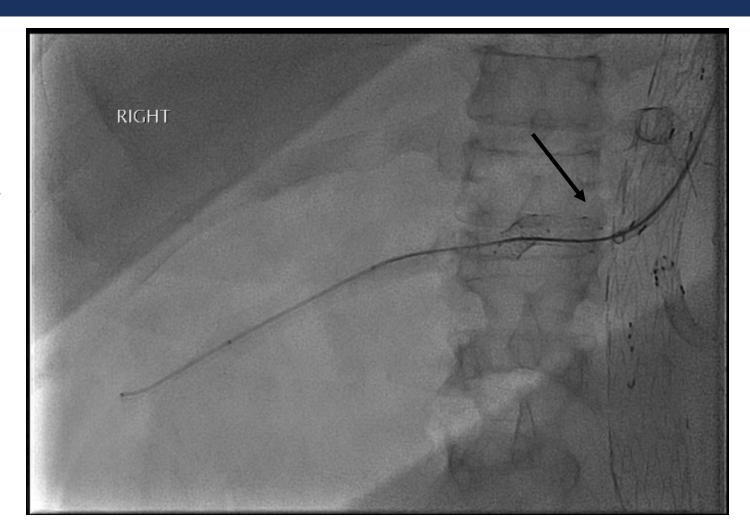
Then Terumo, Navicross





Access to SMA with Sidewinder 1

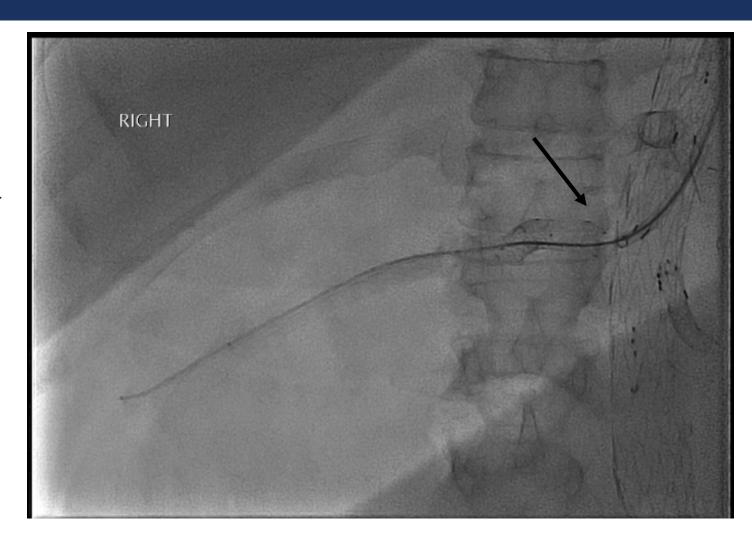
Then Terumo, Navicross





Access to SMA with Sidewinder 1

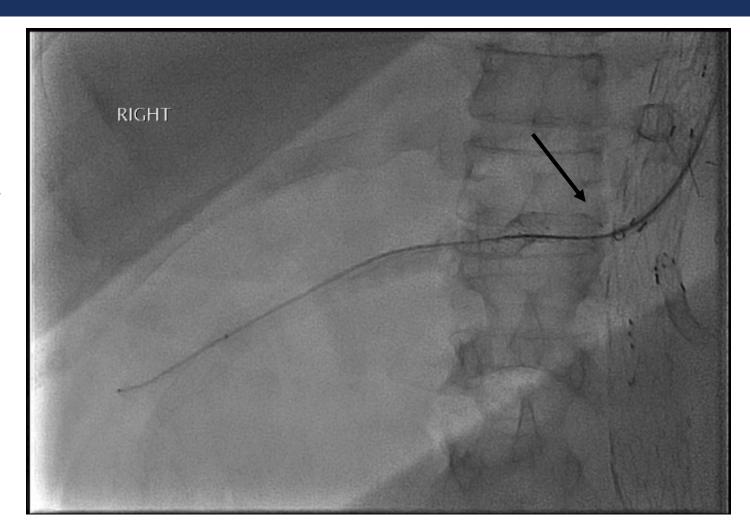
Then Terumo, Navicross





Access to SMA with Sidewinder 1

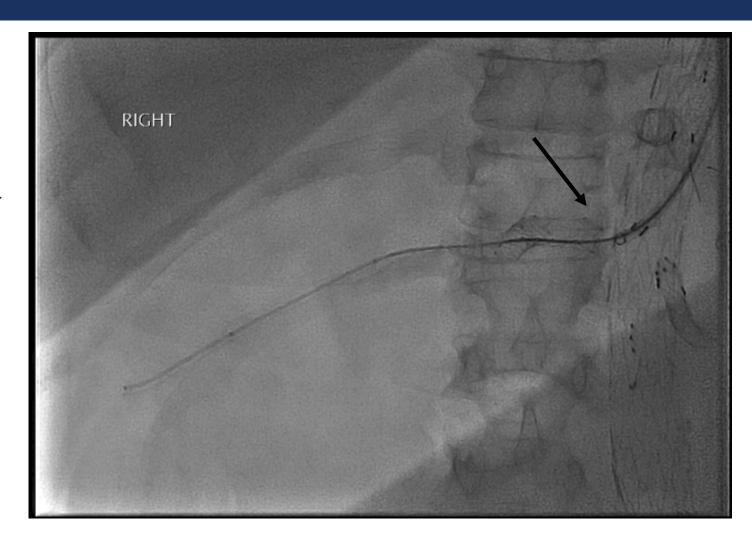
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Access to SMA with Sidewinder 1

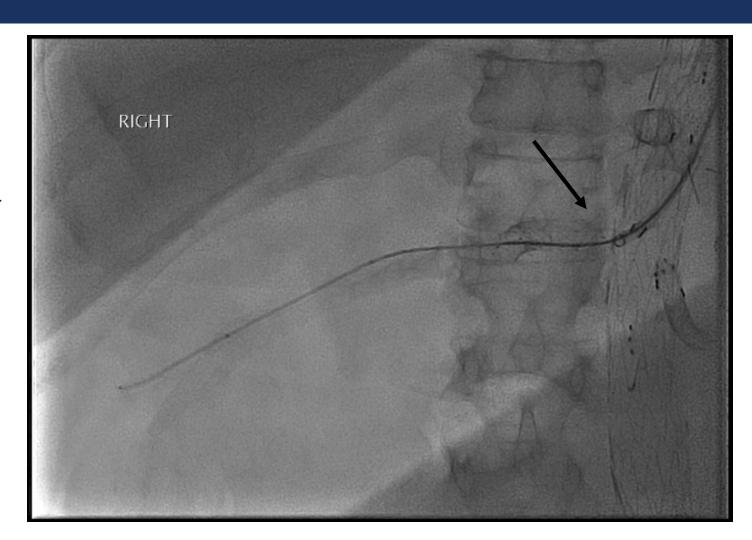
Then Terumo, Navicross





Access to SMA with Sidewinder 1

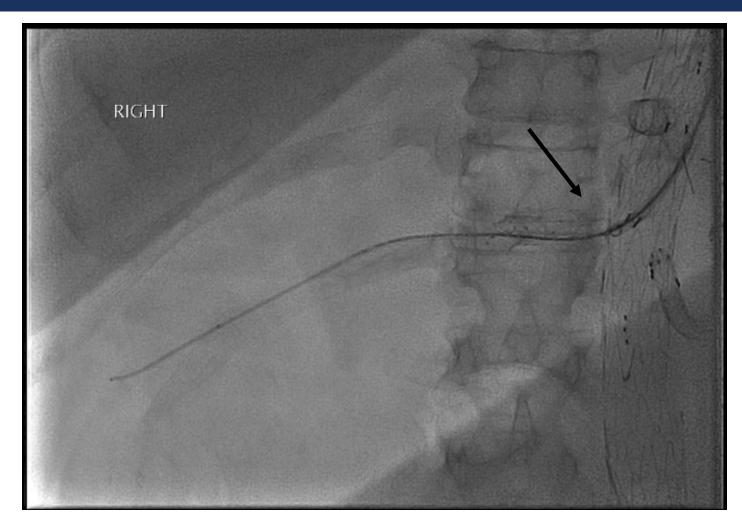
Then Terumo, Navicross





Access to SMA with Sidewinder 1

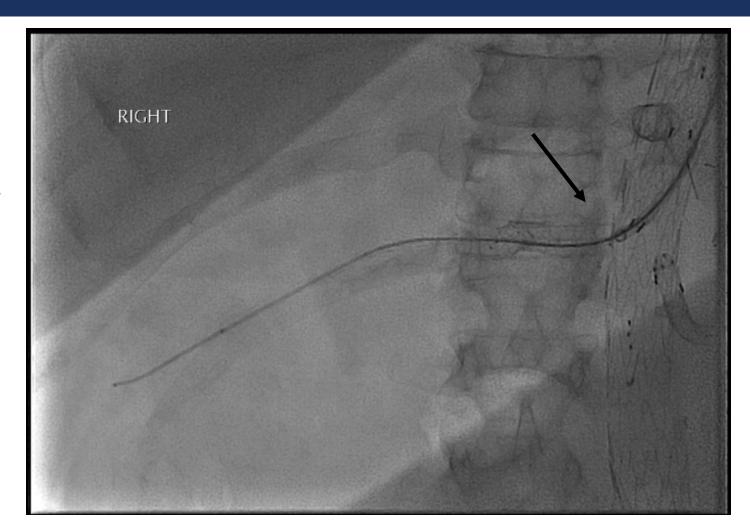
Then Terumo, Navicross





Access to SMA with Sidewinder 1

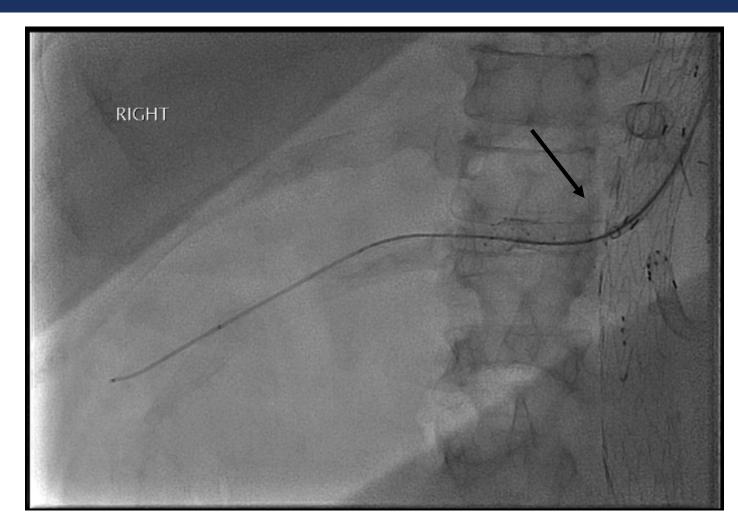
Then Terumo, Navicross





Access to SMA with Sidewinder 1

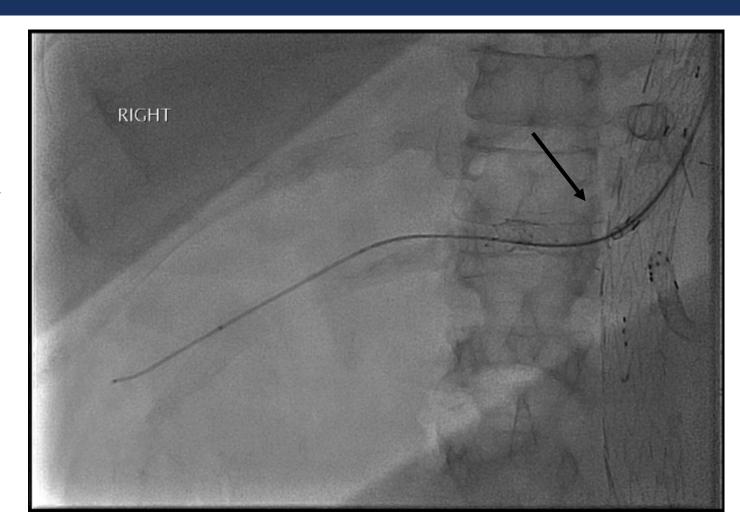
Then Terumo, Navicross





Access to SMA with Sidewinder 1

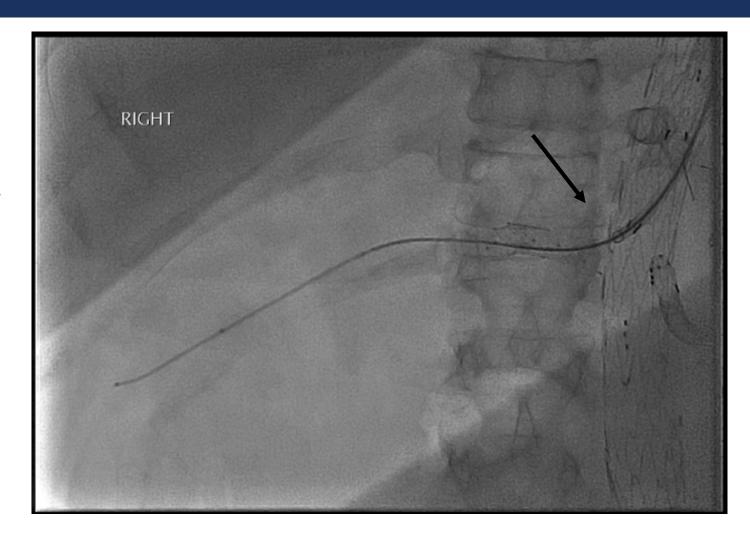
Then Terumo, Navicross





Access to SMA with Sidewinder 1

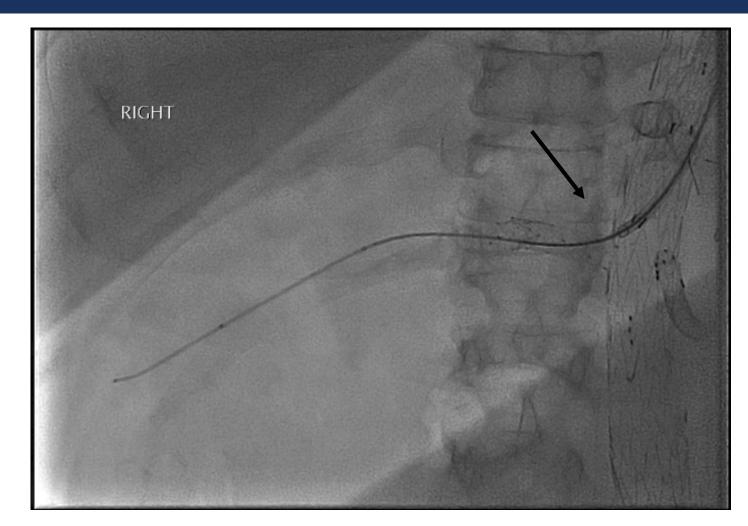
Then Terumo, Navicross





Access to SMA with Sidewinder 1

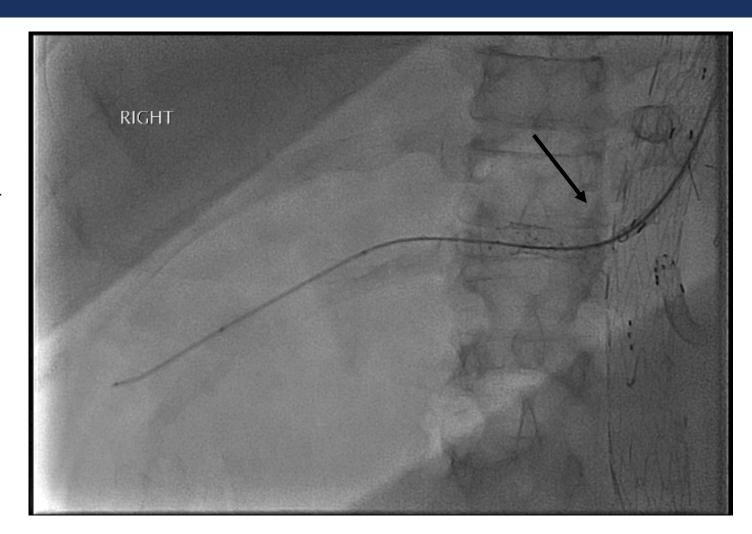
Then Terumo, Navicross





Access to SMA with Sidewinder 1

Then Terumo, Navicross

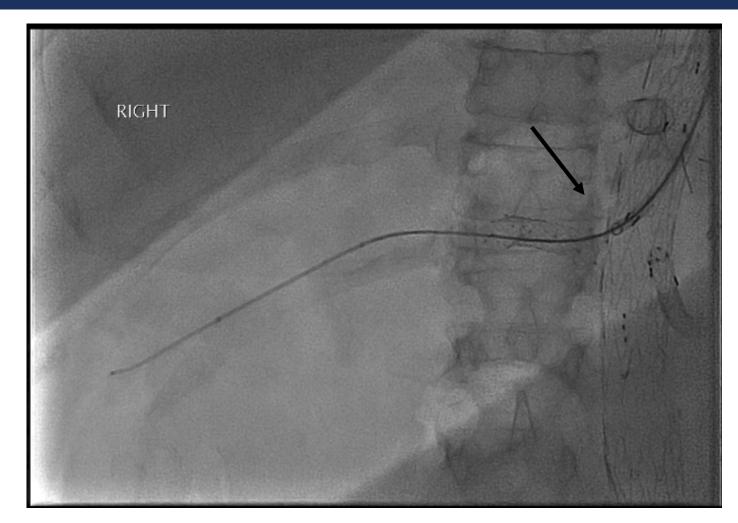




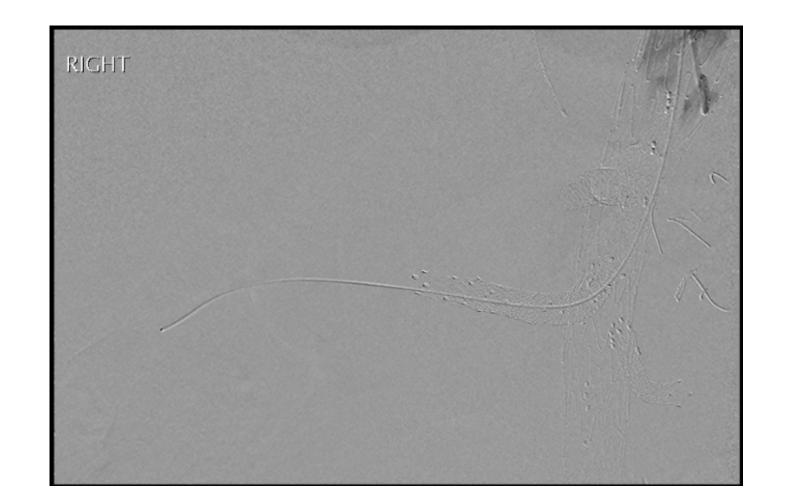
Access to SMA with Sidewinder 1

Then Terumo, Navicross

Fluency x 2

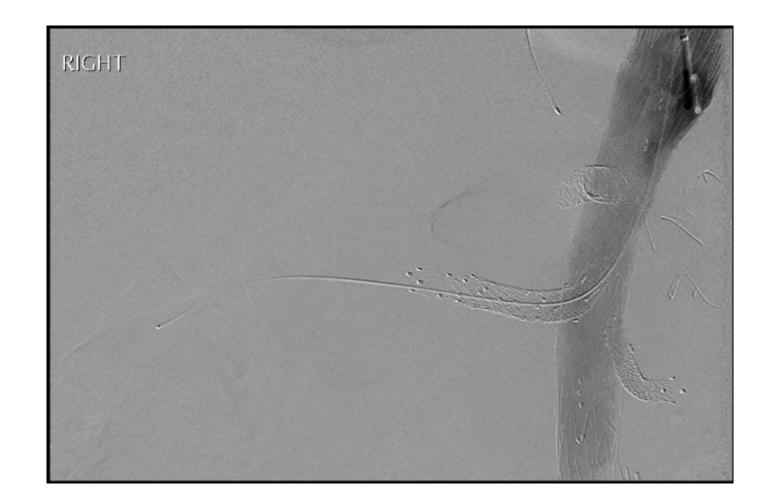




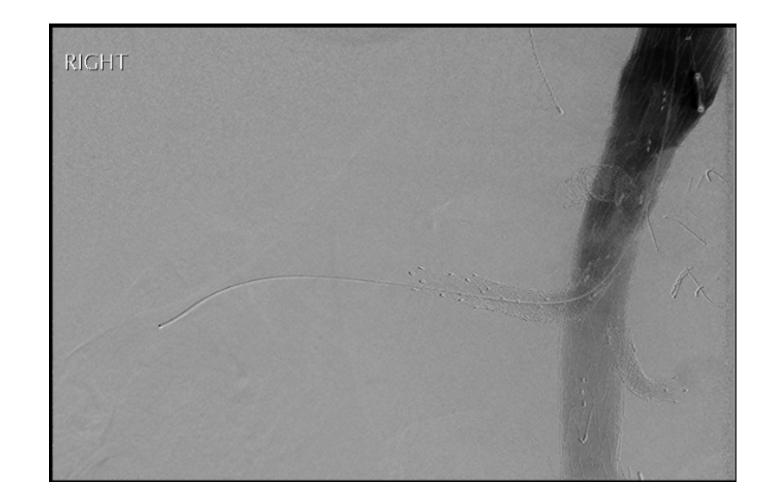




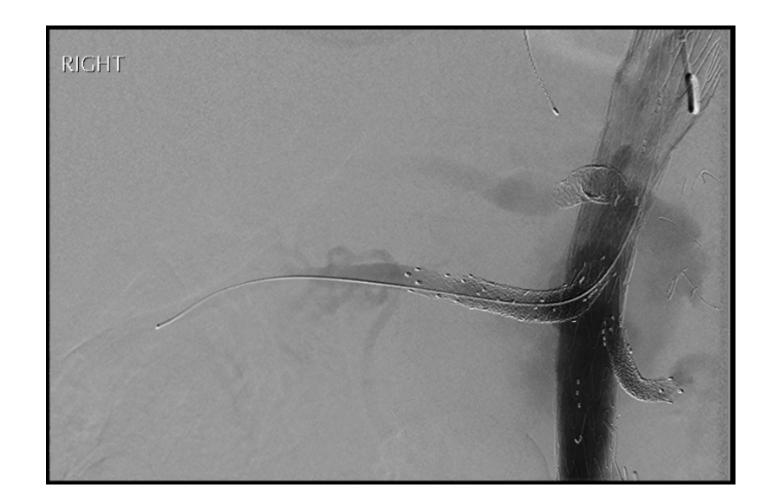




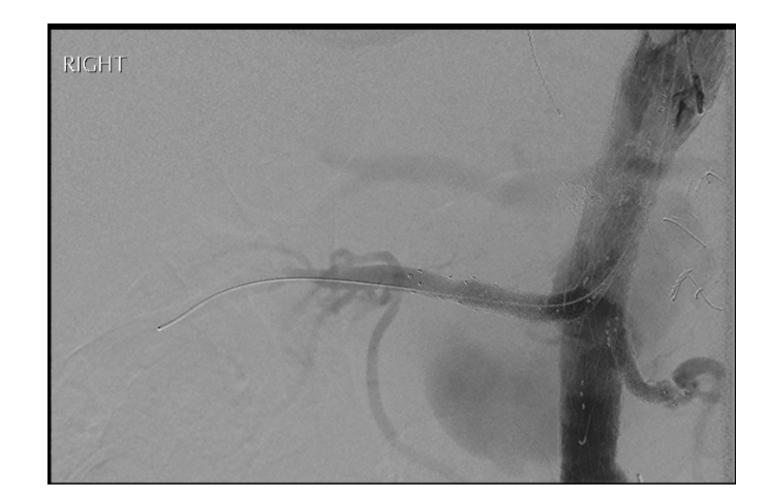


















FABRIC HOLE IN CA STENT

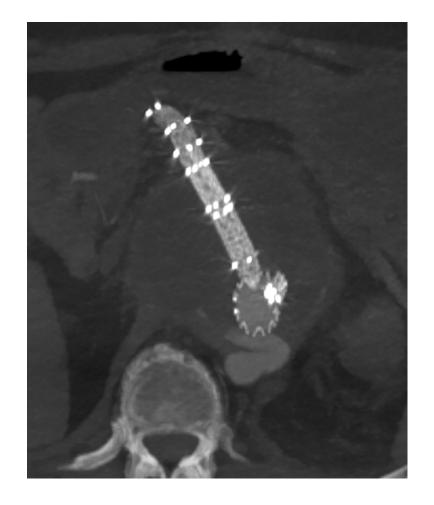






POSTOPERATIVE CT









DISCUSSION POINTS

New treatments are imperfect
they can save life
they can cause new complications

Visceral patch vs multi-branched grafts for open TAAA repair

Fabric holes in balloon-expandable stents

Diameter discrepancy between branches and target vessels

