

23RD INTERNATIONAL EXPERTS SYMPOSIUM CRITICAL ISSUES in aortic endografting 2019 LIVERPOOL UNITED KINGDOM MAY 23-24

Latest on the re-constrainable platform of FEVAR

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Thanks to:

www.critical-issues-congress.com



Disclosure

Speaker name:

Robin Williams.....

□ I have the following potential conflicts of interest to report:

IX Consulting

- Employment in industry
- □ Shareholder in a healthcare company
- Owner of a healthcare company

Other(s)

I do not have any potential conflict of interest





- Terumo Aortic paid for my travel
- I am paid by Terumo Aortic for proctoring and consultancy
- I will be paid for the CIEG workshop (hopefully)
- Data collection and analysis was independent of Terumo Aortic

TERUMO AORTIC ANACONDA FEVAR

Inherent advantages

Re-constrainable

Unsupported fabric

- Almost unlimited positions for fenestrations
- Less affected by shelves and narrow lumen
- Flexible, capable of conforming to angulation

Free access to proximal end during deployment (without prior planning)

Sequential stenting of fenestrations

Migration resistance



Total Implanted Devices (3160)



Aortic

Design evolution -







Device Customisations



Pleating

 Reduces fabric in region of aortic narrowing





Additional Fenestration Support

 Helps to alleviate excess fabric overlapping with fenestrations

Tapered Graft

 Reduces the fabric diameter in cases of more extreme narrowing

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Flared Graft

 Increases the fabric diameter in cases of more extreme widening



Extra-long Body

• 90-100mm long. Required joining ring to attach two pieces of fabric together and the contralateral flare is removed.















Extending upwards





TEVAR combinations

Concept

- A solution to provide a secure proximal landing zone for a custom Fenestrated Anaconda[™] stent graft where there is:
- Thoracoabdominal aneurysmal disease
- Unhealthy aorta above CA
- Dilated vessel above CA >32.5mm

Design

- Proximal fixation hooks required
- Bifurcated, cuff or AUI body design available
- Proximal Anaconda typically based on OLB34 ring stents to seal in 28mm or 30mm TEVAR device





TEVAR combinations

Case Planning

TEVAR should be planned to land within 5mm of top of CA (or highest target vessel)

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5-40mm

100 mm max

in aortic endooraftino

2

100mm max

210mm

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5mm

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- Bolton (now Terumo Aortic) Relay Medtronic Valiant/Endurant Medtronic Valiant/Alpha Bottom of valley hook planned to be 10-15mm above top of CA to ensure sufficient overlap with TEVAR
 - Aim for min 15mm where possible
- Peaks of device will be possible 40mm above tops (Compatibility •

































Docked in a TEVAR

■Yes ■No



Extending downwards









Fenestrated Legs

ERUMO

Aortic

Concept

- A solution to allow internal iliac artery to be preserved where there is no distal sealing zone within the common iliac artery
- Suitable for use in narrow anatomy where IBD is not an option
- Available as straight, flared or tapered legs

Indications

- Common iliac artery disease
- Type 1b endoleak of previous EVAR
- Proximal internal iliac artery disease
- Used in conjunction with Anaconda[™]
- Existing EVAR/FEVAR
- Isolated iliac repair
- Previous open bifurcate graft



































Verv clever - but does Anaconda fEVAR work?









Outcomes at 5 yrs

24 patients (2012-Apr2013) incl 3 redo EVAR

- 4% peri-op death (1 pt bled from iliac conduit stump)
- 75% 5yr survival (no late AA related deaths)
- TVP (no late loss)
 - 98.5% (66/67) procedural
 - 98.1% (52/53) at 5yrs
- Secondary intervention
 - 12.5% overall (including patient who died)
 - 11% at 5yrs (2/18)
 - APTUS
 - Open T3EL



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Survival after arterial bypass surgery

Survival after amputation surgery





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Innovation of the big snake continues....

- Indications expand
 - TAAA
 - AAA
 - Iliac AA



- Early positive results now extend to the medium term
 - 101 multi-centre study
 - 5yr follow-up now complete
 - Global Star 2
 - Global Fenestrated Anaconda[™] Clinical sTudy (Global FACT)
 - 160pts out to 10yrs
 - UK COMPASS