


New Findings From The ANCHOR Study Support The Prophylactic Use Of Heli-FX Endoanchor (Medtronic) Fixation: Use Of Its Variable Curve Sheath As A Rescue Tool To Fix Poorly Deployed Endografts



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Disclosures

CME Standards → NONE

Clinical Investigator – paid to Augusta University Research Institute
Gore, Medtronic, Endoron

Consultant – paid to Augusta University Research Institute
Gore, Medtronic

Member, Writing group for TBAD Clinical Practice Guidelines for Society for Vascular Surgery

Equity Shareholder
None

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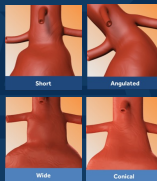
Hostile neck anatomy challenges EVAR outcomes¹

Aortic seal zone is dependent on many factors:

- Length, angle, width, conicity, Ca²⁺, thrombus, device design, etc.

Hostile neck characteristics leads to:

- Higher risk of type Ia's, neck degeneration, secondary procedures, late failure²




4.5x Increased risk of developing Type Ia endoleak at 1 year (P = 0.01)¹

9x Increased risk of aneurysm-related mortality at 1 year (P = 0.01)¹

1. Vignati M et al. J Vasc Med Biol. 2013;25(1):22-28. 2. Vignati M et al. J Vasc Med Biol. 2013;25(1):22-28.

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ANCHOR Registry


Registry design	Prospective, observational, international, multi-center
Principal investigators	Europe: Dr Jean-Paul de Vries, US: Dr William Jordan
Enrollment period	April 2012 to December 2019
Follow up duration	5 years

ANCHOR registry (n=1032 AAA subjects enrolled)

Primary arm (n=771)	Revision arm (n=261)
88.7% with Hostile Necks (572/645) <ul style="list-style-type: none"> <15mm >28mm >60° Conical Ca2+/Thrombus >50% 	



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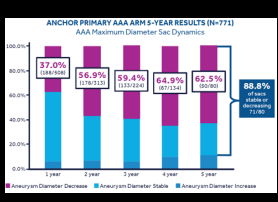
ANCHOR Primary AAA Arm 5-Year results (n=771)¹

Reinforced Proximal Seal

- 89.0% - Freedom from Type Ia EL
- 96.0% - Freedom from Reinterventions for Type Ia EL
- 0 - Migrations through 5 years


Clinical Durability

- 98.4% - Freedom from Aneurysm Related Mortality
- 97.7% - Freedom from Rupture
- 88.8% - Stable or Regressing sac



Hostile Necks: 88.7% (1032/1164)
<15mm, >28mm, >60°, Conical, Ca2+/Thrombus >50%

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ANCHOR Wide Neck Cohort: (n=72)

Three-Year Outcomes

Female: **11.1%**

Mean: 73.0 years (n=71)

Neck Diameter: **29.5 ± 1.3 mm**

Conical Neck: **23.6%**

Neck Length: **18.3 ± 10.3 mm**

Infrarenal Angulation: **32.8 ± 28.2°** (n=67)

Aneurysm Diameter: **61.5 ± 11.7 mm**


Baseline Demographics

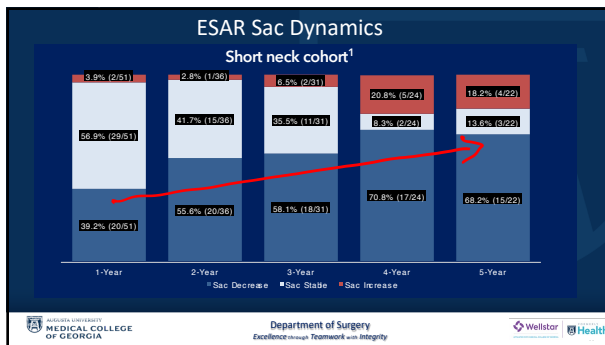
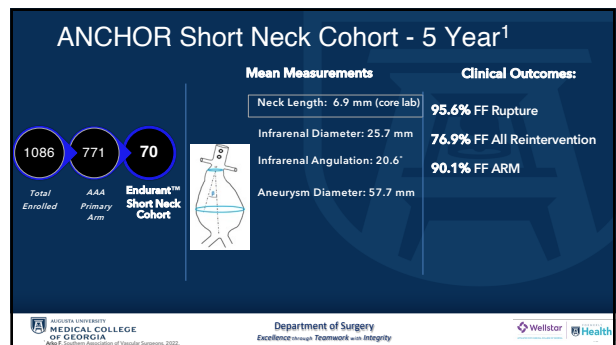
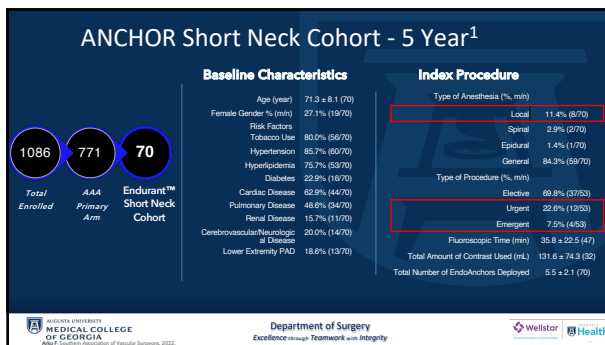
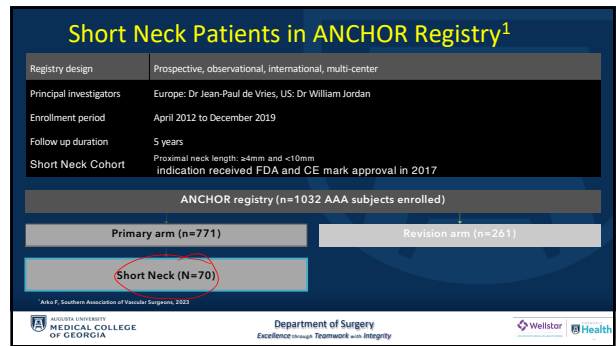
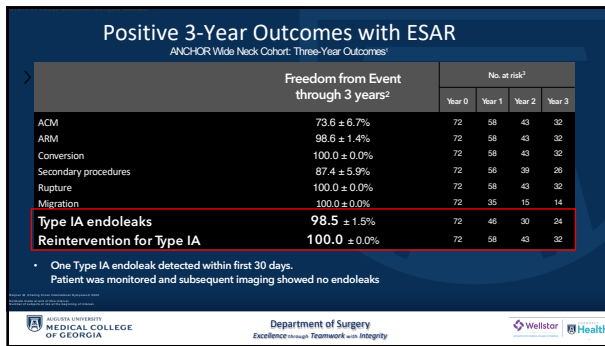
To back to work	83.3%
100% pain free	80.6%
CR at 60 days	59.7%
100% pain free at 60 days	55.0%
100% in stable remission	26.4%

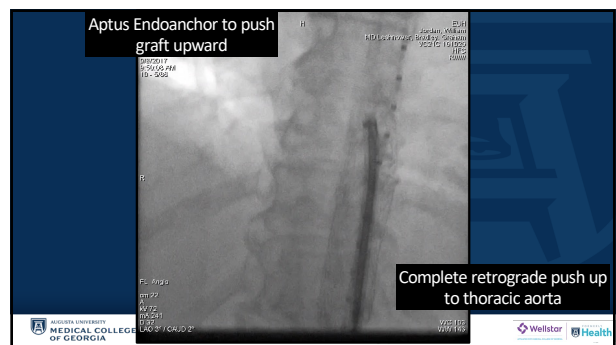
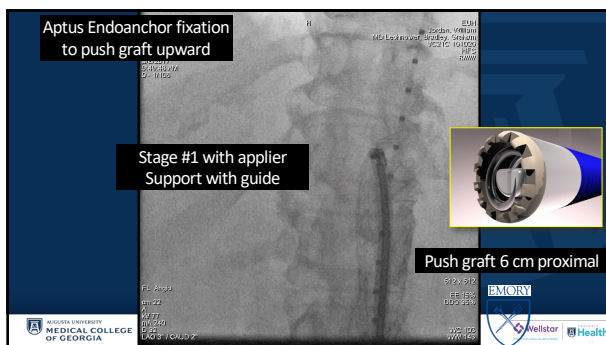
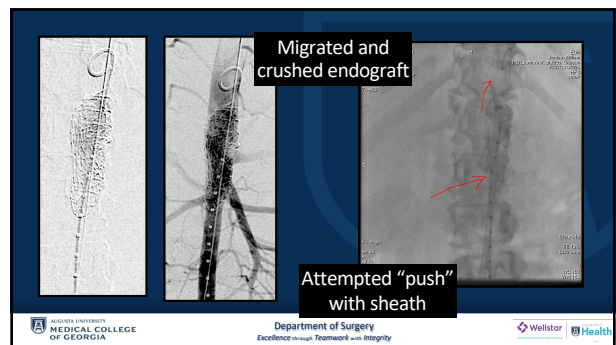
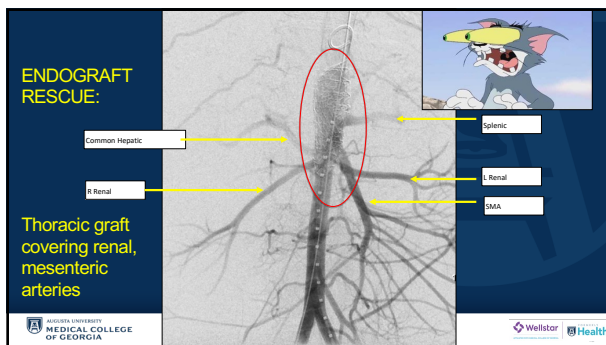
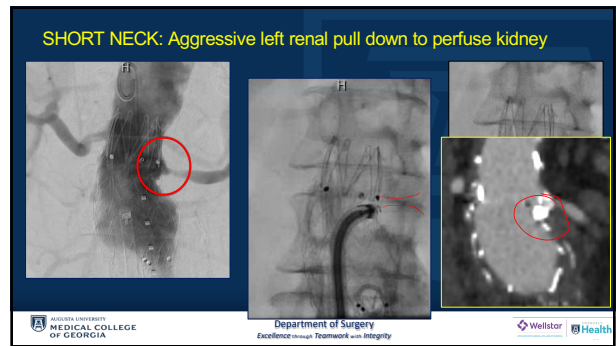
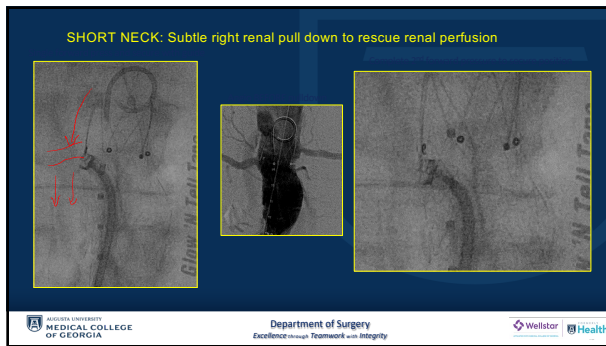
Outcomes Pie Chart:

- 70.8%
- 4.2%
- 12.5%
- 8.3%
- 1.4%
- 2.8%


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Conclusions



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- ESAR has good durability for hostile neck aneurysm patients with 90% freedom from ARM at 5 years
- EndoAnchors with sheath can be used to improve graft position in-situ
- Experience with grafts and devices can improve results

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