



JANUARY 23-25 2014 -

MARRIOTT RIVE GAUCHE & CONFERENCE CENTER PARIS, FRANCE

Low profile TEVAR: is it an added value?

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www.cacvs.org

STANDOMY BUT CAUCHE & COMPERCIAL CONTRACTOR BARRY COAR

Disclosure Speaker name:Michel Bosiers..... I have the following potential conflicts of interest to report: 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 X



Reason for unsuitability

- Access issues: 20-30% -





Size of introduction system for current thoracic devices is 20-25 French

Company	Device	Metal	Covering	Tapered	Free flow	Outer diameter of delivery system (Fr)
Medtronic	Valiant	Nitinol	Polyester	Yes	Proximal	20 – 25
Gore	TAG	Nitinol	ePTFE	No	No	NA*
Cook	ZenithTX 2	Stainless steel	Polyester	Yes	Distal	23 - 25
Duke Vascular	TAArget	Nitinol	ePTFE	Yes	Proximal	22 - 24
Jotec	Evita	Nitinol	Polyester	Yes	Prox-Distal	20 - 24
Bolton	Relay	Nitinol	Polyester	Yes	Proximal	22 - 25
*18 – 24 ID; Sheath required						www.cacvs.org

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Zenith Alpha Low Profile TAA Endovascular Graft

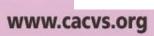
Zenith Alpha was designed to:

- Address vascular access issues associated with larger profile devices
- Enable magnetic resonance compatibility
- Improve conformability in tortuous anatomy
- Increase TEVAR applicability

Comparison to Zenith® TX2

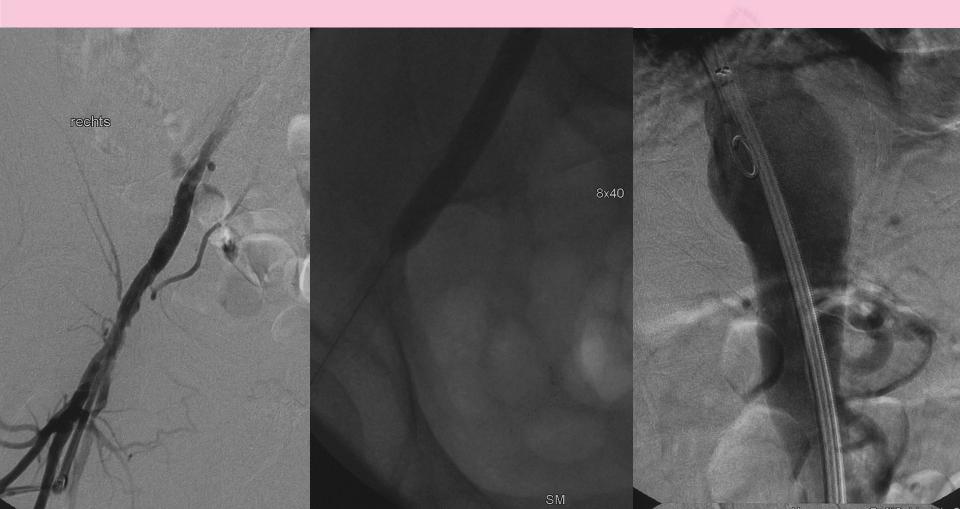
Zenith TX2 [®] TAA Endovascular Graft	Zenith [®] TX2 [®] Low Profile TAA Endovascular Graft
Stainless steel Z-stents	Nitinol Z-stents
Standard Dacron	Thinner, more tightly woven Dacron
Covered proximal stent	Bare rounded proximal stent
20-24 Fr Z-Trak Plus® Introduction System	16-20 Fr Z-Trak Plus® Introduction System
22-42 mm diameter devices	18-46 mm diameter devices
-	MR compatible







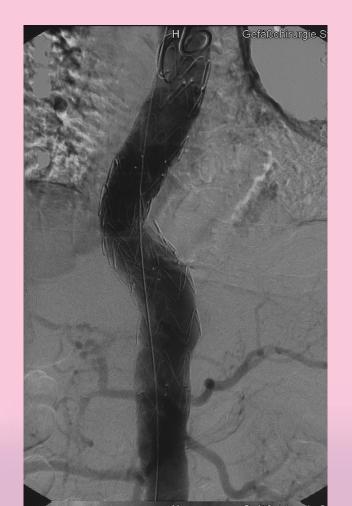
TEVAR attempted with other graft Stenosis of the right iliac /wound problem left groin

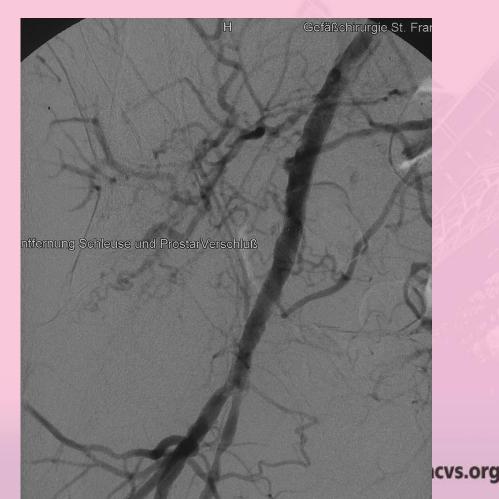




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Angiography after TEVAR and PTA of the right iliac artery

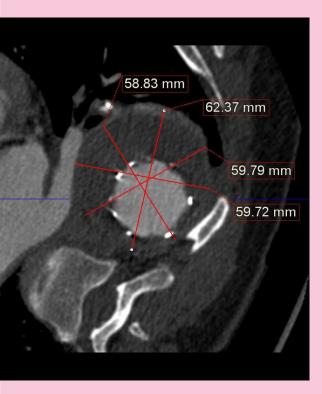


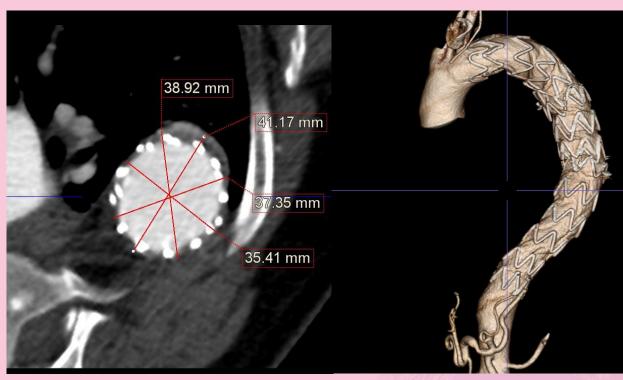






Aneurysm Exclusion with TX2-LP





1-month CT

24-month CT

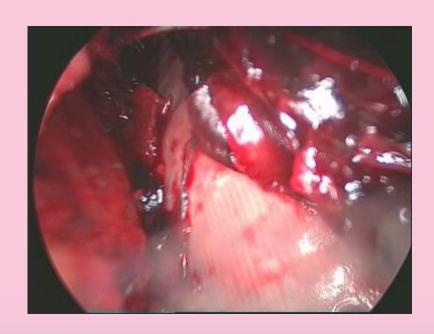


Type I endoleak after treatment of ruptured TAA with Zenith Alpha





Videoscopic view of the Zenith LP Endograft after coil embolization





Study Overview

- Prospective, non-randomized, multicenter study in Europe, Japan, and the U.S.
- Target enrollment of 110 patients was completed in January 2013
- Patients will be followed for 5 years
- Results up to 1 year for the first 35 patients are presented



Demographics

	Result (n = 35)
Age (years)	71 ± 11 (42-87)
Gender	
Male	57% (20/35) 43% ()5/35)
Female	43% () 5/35)
Ethnicity	
Asian	31% (11/35)
Black/African-American	9% (3/35)
White/Caucasian	60% (21/35)

43% female patients compared to 27% in the Zenith TX2 pivotal study (Matsumura et al. J Vasc Surg 2008;47:247-57)

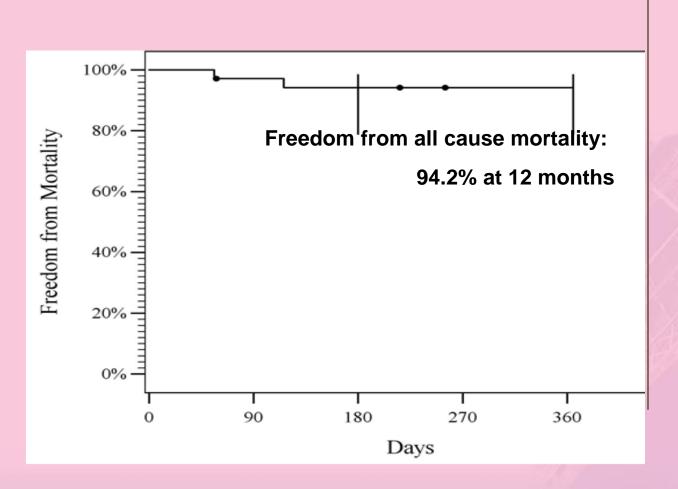


Procedural Measures

Access method for TX2-LP	
Percutaneous	31% (11/35) 69% (24/35)
Cutdown	69% (24/35)
Procedure time (min) (n = 35)	97 ± 63
Anesthesia time (min) (n = 35)	167 ± 78

31% of patients had percutaneous access, compared to 2.5% in the Zenith TX2 pivotal study (J VS 2008)

Mortality





Preliminary Outcomes

ltem	12-month
Rupture	0
Conversion to open repair	0
Paraplegia	0
Paraparesis	0
Stent fracture*	0
Barb separation*	0
Migration*	0



1-year outcomes

- Distal type I endoleak: 2 patients
 - aneurysm size decreased or stable
 - no treatment performed to date
- Aneurysm size decreased or stayed stable in most patients evaluated
 - Aneurysm growth in 1 patient at 12 months
 - no observed endoleak
 - secondary intervention with distal extension



Summary

- Preliminary device performance is promising
 - No TAA-related mortality, rupture, or conversion
 - No paraplegia or paraparesis
 - One secondary intervention to date
 - No device migration or integrity issues
- Results indicate expanded applicability with increased female population
- Follow-up is ongoing



MCQ

Do you think LP will decrease the durability?

A: yes

B: no

C: no idea





homepage: www.gefaesschirurgie-muenster.de

Thank you!



Universitätsklinik Münster

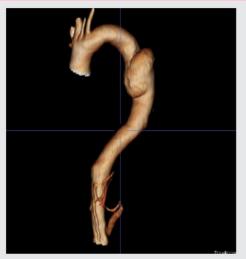


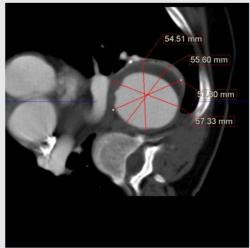
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Aneurysm Exclusion with The Columbia Co

LP

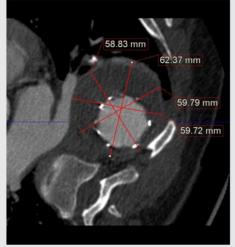
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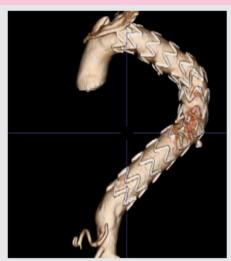


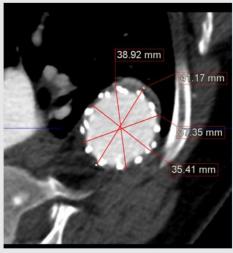


Pre-procedure CT









1-month CT

24-month CT