Low Profile Devices For TEVAR And B/EVAR Disadvantages And Advantages Based On A 10-Year Experience With Matched Patients

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> > \SCU**PED**

Disclosures

I have the following potential conflicts of interest to report: Research grants/consultancy by:

Gore

Medtronic

Cook

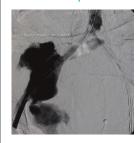
Boston

Bard

Cordis

VASCUPERIA

Why Low-Profile Stent-Grafts in TEVAR?



- Access Complication Rates 9-12%
- More Female, Asian and young Pts
- Iliac occlusive disease in 15%

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Zenith Alpha Thoracic Stent-Graft Comparison with the TX-2

Technical success: 93.9% Zenith Alpha vs. 91.2% Zenith TX-2

No case surgical death No conversion to open repair

Torsello GF et al. Initial Clinical Experience with the Cook Zenith Alpha Stent Graft JEVT 2015

VACCHIDER

Early experience with the Zenith Alpha

- Mean minimal iliac diameter: 5.8 mm
- 18% of the patients had a previous unsuccessful treatment attempt with a standard-profile device

Torsello GF et al. Initial Clinical Experience with the Cook Zenith Alpha Stent Graft JEVT 2015 $\,$

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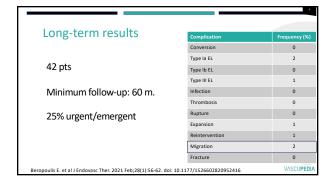
Will reduced profile affect durability?

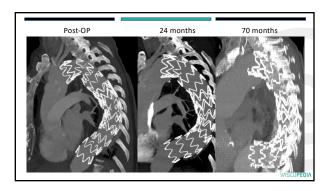
Will altered stent material lead to increased fracture rates?

Will the rate of type III/IV endoleak increase during FU?

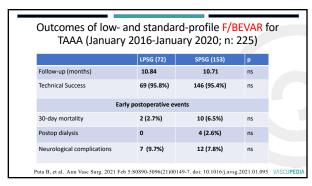
Will the need for secondary procedures increase during FU?

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Low- and standard-profile f/branched stent grafts for TAAAs Mid-term outcomes of matched patients SP Aortic-related reintervention 4.2% 8.3% NS 4.2% NS Type 1a Endoleak 0 Type 1b Endoleak 4.2% 0 NS Type 1c Endoleak 20.8% 12.5% NS Migration (mm) 3.40 4.5 NS Scoliosis (°) 4.20 8.25 NS Puta B, et al. Ann Vasc Surg. 2021 Feb 5:S0890-5096(21)00149-7. doi: 10.1016/j.avsg.2021.01.095 VASCUPEDI

Low-profile versus standard-profile multibranched thoracoabdominal aortic stent grafts.

Compared low-profile (18F; nitinol stents and thin-walled polyester fabric) and standard-profile stent grafts (22F-24F).

Aneurysm-related death, rupture, migration, type I or III EL, aneurysm enlargement, branch vessel occlusion, and reintervention rates were similar between the two groups.

However, LPSG lowered the number of patients who required conduit use, especially in women, thereby reducing an otherwise striking gender difference.

