Access Techniques To Simplify Fenestrated and Branched EVAR: Upper Extremity Access Is Not Needed Any Longer!

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Disclosures

- Consultant: Cook Medical, Philips, Getinge, Terumo Aortic, Arterica, Medyria
- Research-grants: Cook Medical, Philips, Terumo Aortic, Medtronic
- Travel-grants: Cook Medical, Getinge proctoring speaking-fees,
- Speaking fees: Cook Medical, Philips, Getinge
- Shares: Mokita-Medical, Arterica, Medyria, Siemens, Philips
- IP: Cook Medical, Terumo Aortic, Mokita Medical
- Royalties: Cook Medical, Terumo Aortic
Upper Extremity Access Complications

- Hematoma
- Nerve damage
- Plexus damage
- Stroke
- Rupture
- Ischemia
- Prolonged operating time
- Radiation exposure
How About......

From Oderich: EVAR-Textbook
Steerable Sheath in TAAA

Use of a Steerable Sheath for Retrograde Access to Antegrade Branches in Branched Stent-Graft Repair of Complex Aortic Aneurysms

Vladimir Makaloski, MD, Nikolaos Tsilimparis, MD, PhD, Fiona Rohlffs, MD, Konstantinos Spanos, MD, E. Sebastian Debus, MD, PhD, and Tilo Köbel, MD, PhD

- Case series n=4, 8 target vessels
- Technical Success 8/8
- Procedural time unchanged
- Currently n=>50
- Preferred sheaths:
  - Fustar 10F 55cm
  - Flexor 12F 80cm

Makaloski et al. 2018; J Endovasc Ther 25:566-70
Case 4

Makaloski et al. 2018; J Endovasc Ther 25:566-70
Stabilisation Technique

- Outside graft through-and-through wire
- Inside graft contralateral through-and-through wire
- Inside graft ipsilateral through-and-through wire/suture
Through-and-Through Suture Technique to Stabilize a Sheath in Branched Endovascular Aortic Repair

Giuseppe Panuccio, MD, Fiona Rohlfss, MD, Vladimir Makaloski, MD, Ahmed Eleshra, MD, Nikolaos Tsilimparis, MD, PhD, and Tilo Köbel, MD, PhD
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Panuccio et al. 2019; J Endovasc Ther: epub
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T&T Suture/Wire Technique

Courtesy of Gustavo Oderich
Endovascular repair of TAAA has matured over 15 years and can be considered gold-standard in TAAA-repair.

Transfemoral access with T&T suture/wire technique offers superior stability, faster procedure-time and lower stroke rate compared to UEA.

Upper extremity access for antegrade branches in TAAA repair should probably be avoided wherever possible.
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  - Ascending aorta
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  - Thoracoabdominal aorta
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