Adjunctive Techniques to Induce False Lumen Thrombosis after TEVAR for TBAD

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Disclosures

- Research-grants, travelling, proctoring speaking-fees, IP, royalties with Cook.
- Consultant with Philips
- Research, consulting, royalties with Vascutek.
- Shareholder Mokita Medical
False Lumen Occlusion

- Perfusion and pressure unchanged in false lumen
- Presence of Intercostals originating from false lumen
- False lumen back flow to Intercostals
- FL-TAA in 1/3 of TEVAR-patients!
Coils, Plugs, Glue

Preop. CT

Intervention

Postop. CT
The Candy-Plug Technique: Technical Aspects and Early Results of a New Endovascular Method for False Lumen Occlusion in Chronic Aortic Dissection

Fiona Rohlffs, MD¹, Nikolaos Tsilimparis, MD¹, Beatrice Fiorucci, MD¹,², Franziska Heidemann, MD¹, Eike Sebastian Debus, MD, PhD¹, and Tilo Kölbl, MD, PhD¹

<table>
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<th>Patient</th>
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<th>Most Recent Measurement, mm</th>
<th>Aneurysm Development</th>
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</table>

Rohlffs et al. 2107; J Endovasc Ther 24:549-55
Candy-Plug Multicenter

- \( N = 21 \)
- Technical success 21/21
- No rupture
- No SCI
- No early mortality
- 3 reinterventions for continuous perfusion
- Secondary FL-thrombosis 20/21 patients
Remodeling after Candy-Plug

February 2016  July 2016
Candy-Plug Sizing

True Lumen SG:
- Croissant-length
- No oversizing

FL candyplug:
- FL-diameter
- 10%-30% oversize
- 32-50mm
Other Candyplugs

Bolton CMD-Candyplug

Courtesy of Dr. M Youssef, University of Mainz

Ogawa et al. 2016; J Endovasc Ther 23:482-6

Gore sm-Candyplug

Medtronic sm-Candyplug

Courtesy of Prof. I-Hui Wu, National Taiwan University

Gore/Cook sm-Candyplug

Candyplug II

2017
Candyplug II

2017
Candyplug II

2017

Candyplug II
Ballon-occlusion to prevent plug-embolisation
External Iliac Artery

44.5mm
Conclusion

- False-lumen occlusion techniques increasingly utilized in aortic branch-vessels.
- Short-term results of Candyplug promising.
- Alternative smCandyplug materials reported.
- Second generation self-occludingCook Candyplug obviates AVP/ZIP-occluder
Welcome to Essen!

5th AORTIC LIVE SYMPOSIUM

AORTIC LIVE 2018
October 29-30, 2018
Congress Center Essen, Germany

In 2018 Aortic Live Symposium will return to Essen, Germany again. We are looking forward to welcoming you again next year!
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