Advances and Perspectives of Arch Endografts

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Disclosures

• Research support, Consulting
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Preoperative measurements with CPR on workstation
Editor’s Choice — Subsequent Results for Arch Aneurysm Repair with Inner Branched Endografts,

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WHAT THIS STUDY ADDS
This study reports early outcomes following endovascular repair of arch aneurysms in patients unfit for open surgery and is the first evaluation of arch aneurysm endovascular repair performed after the initial learning curve.
Post Type A Repair
Pre-operative CT

2-year control
Deployment of bridging stent in left common carotid branch
LSA Branch Scallop Design

- **Graft Design Parameters**
  - 34 - 46mm - 100% of patients
  - Triple wide scallop (3cm wide) - Circumferential offset - 100%
  - Seal Length below LCA > 20mm - 90%
  - Appropriate LCA - LSA Distance - 94%
  - LSA diameter < 16mm - 94%*

Total population captured 88%

* Only an exclusion on a fully preloaded system
Single Center Analysis

- Study period: 2011 to 2016 - 80 TEVAR w/LSA Coverage
- 65 patients (81%) could have been treated with an OTS LSA branched TEVAR configuration
- **Conclusion:**
  - low variability of LSA and LCC locations in patients with distal aortic arch disease
  - 80% applicability of a new standardised thoracic branched endograft
Delivery System
Proposed Preloaded Delivery System
Fusion model registration
Case example: 3 branch arch endograft
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Case example: 3 branch arch endograft
Dissection of the SAT
Perspectives?
CONCLUSIONS

• Off the Shelf Endografts for Arch Aneurysms
• 3-branch design
• Chronic dissections with prior ascending repair
• High volume centers performing both open and endovascular repairs