How to Manage a Chronically Diseased Aorta Distal to Previous Type A Dissection Repair

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Disclosure
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- Speaker, Proctor for Educational Training
  - WL Gore & Associates
  - TERUMO AORTIC
  - ENDOLOGIX Inc.
  - MEDTRONIC

Long Term Follow-up after TAAD

Risk Factors for Descending Aortic Aneurysm Formation in Medium-Term Follow-up of Patients With Type A Aortic Dissection
CHEST 2003

Proximal Sealing in the Arch

The prognostic impact of distal endovascular new entry after acute type A aortic dissection repair

Frozen Elephant Trunk

Hybrid Total Arch Replacement

Distal implantation in a Fenestrated Aorta to Deploy Properly

Double Branched Stentgraft

Best Results in this Indication despite SAT Canulations
Reverse Endovascular Hemi-Arch Repair

Proximal Scallop Stentgraft

Simple Solution especially when Aortic Valve was Replaced

Custom-made or Home-made / Scallop or Large Fenestration

SAT Debranching

Chimneys / Parallel / Sandwichs

Many Other Techniques...

Initially Prepared Landing Zone

Collaboration with Cardiac Surgeon as an Aortic Team

Aneurymal Progression Despite Proximal Sealing

Distal Sealing

Stabilise Technique in Chronically diseased aorta

- Adapted Sizing of Distal Stentgraft / Bare Stent
- Stiffness of the Intimal Flap
- Partially Thrombosed FL
- Diameter of the Distal Descending ≤ 42 mm


STABILISE Concept
Thoraflex + STABILISE

Proximal Scallop Stentgraft + STABILISE

Open Fenestration

Endovascular Fenestration?

FEVAR / BEVAR

Open Fenestration

Endovascular Fenestration?
**Other Occlusion Technics**

Open Repair as a Back Up...

- Technical Aspects of Open Repair for Degenerative Aneurysmal Evolution Despite Early Thrombotic Endovascular Repair of Type B Aortic Dissection

3 to 4% of Mortality / 4% of SCI

- Results of Open Surgical Repair in Patients With Marfan Syndrome and Dissecting Aortic Dissection

**3 Take Home Messages**

1. No Compromise on Proximal Sealing

   - Reverse Endovascular Hemi-Arch Repair

2. Aggressive Management of Distal Tears

3. Management by an "Aortic Team"
   - Cardiac Surgeons
   - Vascular / Endovascular Surgeons
   - Cardiologist / Vascular Physician


**3 Take Home Messages**