Fenestrated and Branched Thoracic Endografts for Complex Arch Pathology

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Conflicts of Interest

- Nil disclosures
Demographics

- Retrospective review of prospectively collected data
- 7 patients in 2 institutions over 5 years
  - 2 Kommerell’s Diverticula
  - 1 Chronic Dissection
  - 4 Aneurysms
- 6 males, 1 Female
- Age 37-73 (mean 58)
Intervention

- All Cook Custom-made Endografts; Five single vessel fenestrations for SCA
- Two cases with (L) SCA fenestration and (R) SCA branch
- Access
  - 3 percutaneous, 4 cutdowns
  - 22Fr devices (8.6mm outer diameter)
- Procedural Imaging
  - Mean 42min screening time (20-56)
  - Mean 1122229 xray dose (uGcm2) (606879-1650825)
- Contrast Dose
  - 264ml (130-400)
Single Fenestration
Single Fenestration
Single Fenestration
Fenestration & Branch

- RSCA Ø9-10mm
- LSCA Ø8-9mm
- RCCA
- LCCA
- 33X54
- 25
- 34
- 30
- 26
- 2
Fenestration & Branch
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Post-Operative Outcomes

- LOS
  - Mean 4 days (2-8)
- 1 Early reintervention (access related)
- 1 minor stroke?- Normal CT and MRI
- 1 AKI (370ml volume contrast, open aortic exposure)
- No Mortality
Follow Up

- Mean follow up 27 months (3-60)
  - No mortality

- 2 reinterventions
  - Type 1/2 endoleak (Kommerell’s)
    - 32x39 ANDRA balloon expandable stent
    - V12 stent to (L) SCA
  - Type 2 endoleak (Aneurysm)
    - 10x37 Begraft

- 1 small intercostal endoleak for ongoing surveillance
Follow Up
Follow Up
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Follow Up
Thank You for Listening

- Questions?