New Developments In In Situ Fenestration: How Can It Be Made To Work In Complex Aortic and Arch Endografting

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• No Disclosures

In situ fenestration

Laser assisted in situ fenestration for LSA
• n=9 since 2014
• n=8 technical success
• no 30 day stroke/death (1 TIA carotid territory-chimney)
• All fenestrations patent and all patients alive Nov 2015

Total Arch- 6 Year FU
Is the *in situ* fenestration technique needed?

**Issues in situ fenestration**
- How to fenestrate?
  - How to dilate the fenestration?
  - How to maintain end organ perfusion until the fenestration is ready
  - How to maintain long-term durability of the fenestration

Excimer ("blue or cold") laser

**Risk of embolization with laser fenestration?**
- Laser effect on the endothelium-thrombosis?
- Embolization
- Graft material?
- Clot?

Animal model
Result

Conclusions

- No embolization of clot or graft material during laser fenestration.
- Laser fenestration might in future be an option for LSA/Arch revascularization.