Diagnosis and Treatment of Endoleaks with Nellix Endografts (EVAS): Much is Different

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Conflicts of interest

Disclosure
Speaker name: Fabio Verzini

- I have the following potential conflicts of interest to report:
  - Receipt of grants/research support
  - Receipt of honoraria and travel support

From: Abbott, Cook, Gore, Medtronic

Endovascular Aneurysm Sealing (EVAS) with Nellix

- Designed to seal entire aneurysm with contained biostable polymer
- Non-modular design with complete fixation
- Aims to eliminate the endoleak risks

N=105
Mortality 1%
Type I Endoleak @ 30 dd 4%
> 30 dd 0
Type II 0
Adjunctive iliac stenting 59%

Endovascular Aneurysm Sealing for Infrarenal Abdominal Aortic Aneurysms: 10-Day Outcomes of 105 Patients in a Single Centre

N=150
Mortality 0.7%
Type I Endoleak @ 30 dd 0.7%
> 30 dd 0
Type II 5.4%

Thirty-day results of the Nellix system investigational device exemption pivotal trial for endovascular aneurysm sealing

- Saffay F, Caruso, MD; Robert Gaff, MD; Clifford Bockholt, MD; Christopher Haber, MD; Nathan Sato, MD; David J. Bockholt, MD; John C. Nance, MD; Adam S. Hobbs, MD; Ronald Bockholt, MD for the Nellix Investigators, Center, MD Great Western, West Springfield, VA; Portland, ME; Indianapolis, Ind; Bethesda, Md. Aortic, venous, and Cerebral Aneurysms.

- N=150
Mortality 0.7%
Type I Endoleak @ 30 dd 0.7%
> 30 dd 0
Type II 5.4%
Perugia Experience

Nov. 2014 - Nov. 2015
N = 19
Mortality 0
Type I Endoleak @ 30 dd 0
> 30 dd 0
Type II 0

91 y.o., 12 cm symptomatic AAA
2007 Talent EVAR

Normal Early Appearances on CT
- Endobags demonstrate uniform radiodensity due to iodine distributed in the biogel

CT without contrast  CT with contrast

Late Normal Appearances on CT
- Polymer radiodensity within endobag decreases with time
- Precipitation of contrast may appear at endobag inner edge
Follow up schedule after EVAS

- 10 most experienced Italian Centers
- Different protocols, most still rely on post-op & 1-y imaging by CT
- After 1 year, most switch to Duplex, as for EVAR pts.

Conclusion

- EVAS experience is short
- Promising early results
- Post-op Imaging is unique
- Complications may be unique
- Strict follow up protocols needed