What should be done when an AAA Sac Enlarges after EVAR: What should be done diagnostically and for treatment: Is Endotension without an Endoleak real

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Treatment versus surveillance

Question before Answer

• Is sac enlargement always benign?
• Can we always detect endoleak?

Can we always detect endoleak?

- NO -

• Hidden type II
• Hidden type I a-b, position dependent?
• Hidden type III?
• Fabric (micro) porosity, suturehole leakage?
• Combination of the above

Can we always detect endoleak?

- NO -

• Detection is limited by the tools we have
• CTA, even in the delayed phase and Duplex-scan with contrast might not always be good enough for detection
So, at this moment...

- We don't know always whether contrast in the Aneurysm Sac is only due to type II
- Detection of type II is limited by the tools we have
- But, the choice and success of the treatment/intervention is dependent on the kind of endoleak

Clinical relevance of type II

- It’s low pressure
- EVAR for RAAA works really well in the “presence” of open lumbar arteries
- But, you have to be sure that type II is the only cause of Aneurysm Sac Expansion

Is unlimited Sac Expansion harmless?

- NO -

- Large expansion may cause a new type I endoleak or dislodgement of a modular stent graft system
- This will lead to increasing risks for morbidity and even mortality

Treatment of persistent type II in combination with Sac Expansion

- Selective Coil-Embolisation is preferred and more durable above simple thrombin/glue injection into the Sac
- Techniques to enter the Sac:
  - CTA guided Stereotactic Puncture and catheter/wire entrance through the puncture needle (TLA approach)
  - “Classic” catheterisation of the SMA and/or Hypogastric
  - Trans Caval approach and entrance of the Sac
  - Access from Distal stent-graft landing zone

G.Coppi et al. EJVES, April 2014
Prevention of type II during EVAR

• Coil embolisation during EVAR (in high risk patients?) D. Fabre et al. JVS, July 2015
• EVAS
• Follow-up will tell us...

The approach to sac enlargement without evident endoleak

- CONCLUSIONS -

• Unlimited Sac Expansion is not harmless, even QoL is involved?
• Meticulous investigation for the cause of Aneurysm Sac Expansion is mandatory to achieve a durable treatment
• Unfortunately, after treatment periodic surveillance remains necessary anno 2017