Technical Tips and Results With Detachable Coils To Treat Visceral Artery Aneurysms: How to Maintain Critical Artery Flow: When are Covered Stents Required

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Disclosure Statement of Financial Interest

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Main Technical Tips
Percutaneous Transcatheter Coil Embolization (PTCE)
Preoperative – CT Scan
Selected patients - Angiography

- Size
- Neck
- Artery
- Localization
- Length
- Diameters
- Access
- Number of coils

Technical Tips

- General Anesthesia
- Transfemoral or Transbraquial
- Aortogram, Selective Vessel
- Coaxial Technique
- Road-Mapping
- “Scaffolding”

The goal of the treatment is to prevent aneurysm expansion by excluding it from the arterial circulation, saving branches, patency, and freedom from rupture or reperfusion.
CT CONTROL
Exclusion of an Intraparenchymal Saccular Aneurysm - 27 x 20 mm

PROCEDURE TECHNIQUE
- STENTS – ENTERPRISE / SOLITAIRE AB
- DETACHABLE COILS – AXIUM™ 3D
- STENT GRAFT – SOLARIS

MIDTERM OUTCOMES AFTER VAAs EMBOLIZATION
- From 2011 to 2018
- 26 VAAs treated electively in 21 patients
- Coiling alone in 65%
  wide-neck with Stent-assisted coiling 25%, balloon remodeling 10%
- Follow up- 1/3/12 months. The percentage of aneurysm exclusion

MAIN RESULTS
- All patients displayed complete regression of their aneurysm sac, with no evidence of recurrences up to now
  - NO DEATHS
  - NO SECONDARY INTERVENTIONS
  - 1 RETROPERITONEAL HEMATOMA
When Are Covered Stents Required?

SOLARIS Endoprosthesis is a flexible self-expanding stent graft, comprised of a durable electrospinning PTFE encapsulating a Nitinol stent structure.

Features SOLARIS Endoprosthesis

- Radial Strength
- Minimal Shortening
- High Flexibility
- Nitinol stent structure

MULTILAYER FLOW MODILATOR MFM
**CONCLUSIONS**

- The Endovascular Treatment with embolization technique of VAA is feasible, safe, and should be done with low risk.
- Meticulous and individualized planning is necessary to get positive results.
- Endovascular treatment is the first line of option for VAA, however if there is any technical or anatomical restriction, don’t forget that open surgical approach is always an option.