Treatment Of Visceral And Renal Artery Aneurysms: Technical Tips And When To Use Coils, Covered Stents Or Uncovered Stents: How To Maintain Critical Arterial Flow

Paulo Eduardo Ocke Reis MD, PhD

Head of Vascular Surgery- UFF- HUAP / RJ, Brazil
Professor of Vascular Surgery- UFF – HUAP/ RJ, Brazil

Disclosure Statement of Financial Interest

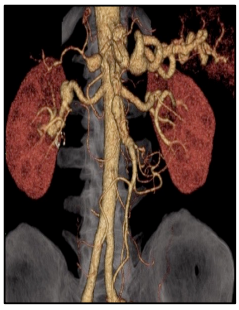
Company	Affiliation / FinancialRelationship

- No disclosures

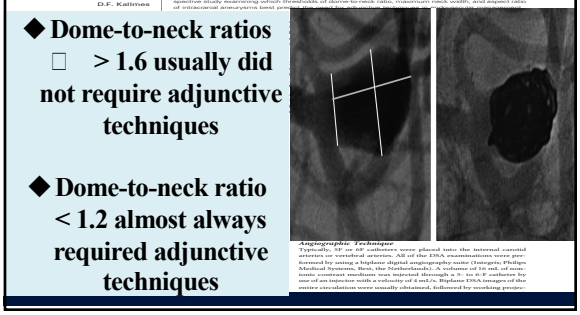
Main Technical Tips
Percutaneous Transcatheter Coil Embolization (PTCE)

Preoperative – CT Scan

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



Technical Tips



ORIGINAL RESEARCH

Difficult Aneurysms for Endovascular Treatment: Overwide or Undertall?

W. Brinjikji
H.-J Cloft
D.F. Kallmes

BACKGROUND AND PURPOSE: Aneurysm geometry has been shown to predict the need for adjunctive techniques in the endovascular treatment of intracranial aneurysms. We conducted a systematic retrospective study examining which thresholds of dome-to-neck ratio, maximum neck width, and aspect ratio of intracranial aneurysms best predict the need for adjunctive techniques

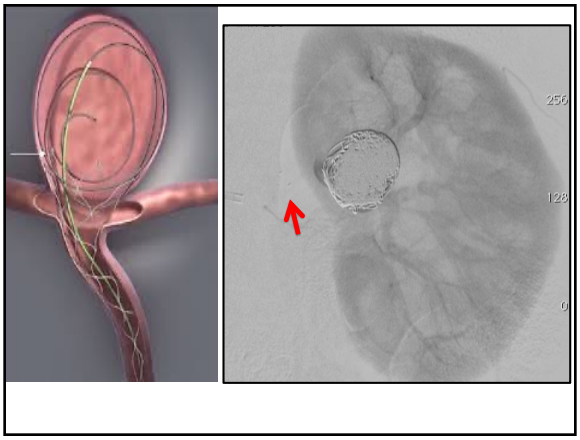
Angiographic Technique

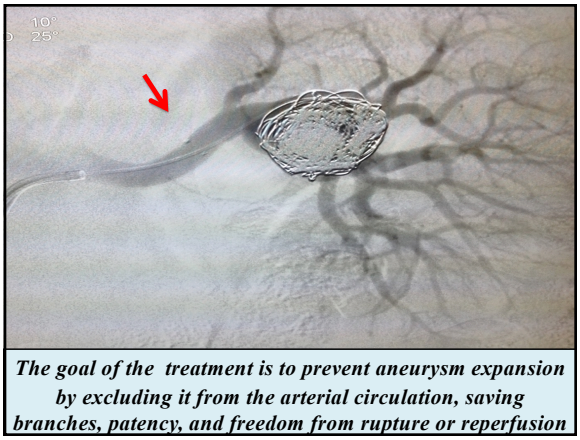
- Dome-to-neck ratios > 1.6 usually did not require adjunctive techniques
- Dome-to-neck ratio < 1.2 almost always required adjunctive techniques

Technical Tips

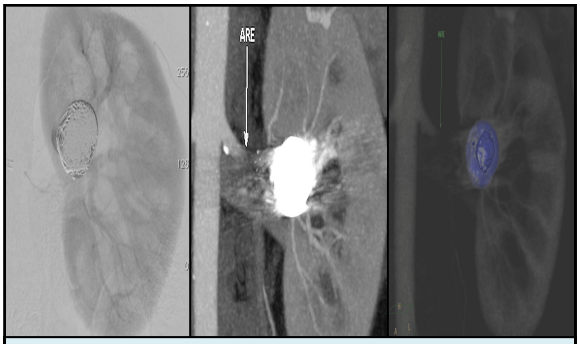
- GENERAL ANESTHESIA
- TRANSFEMORAL OR TRANSBRAQUIAL
- AORTOGRAM , SELECTIVE VESSEL
- COAXIAL TECHNIQUE
- ROAD-MAPPING
- " SCAFFOLDING"

Dual Antiplatelet Therapy



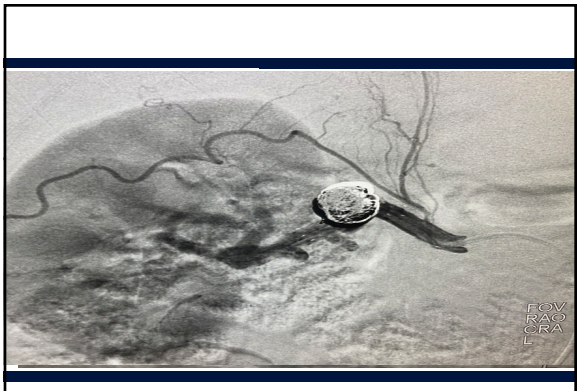


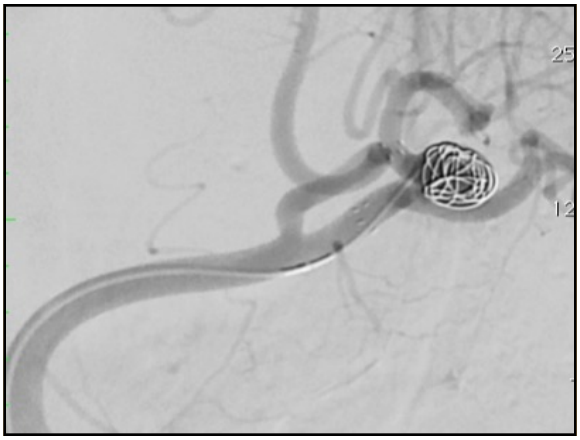
The goal of the treatment is to prevent aneurysm expansion by excluding it from the arterial circulation, saving branches, patency, and freedom from rupture or reperfusion

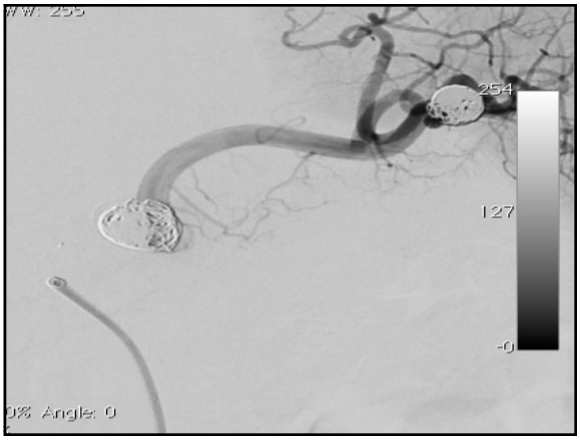


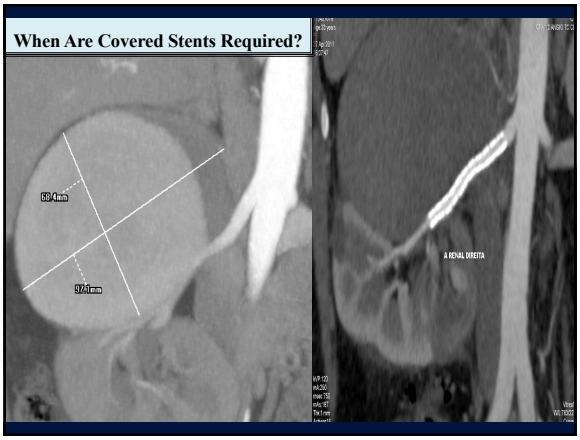
CT CONTROL

Exclusion of an Intraparenchymal Saccular Aneurysm - 27 x 20 mm



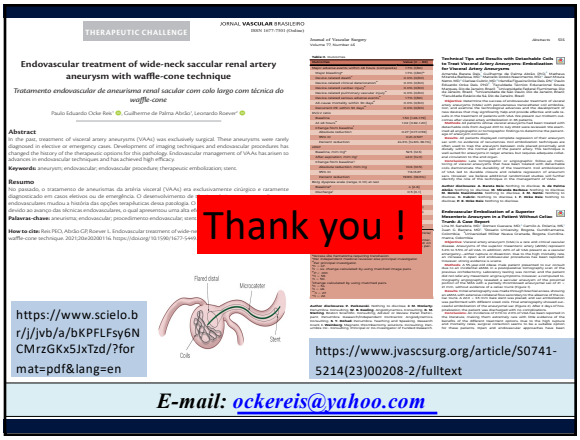






CONCLUSIONS

- ❑ The Endovascular Treatment with embolization technique of VAAs 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 VAAs, however if there is any technical or anatomical restriction, don`t forget that open surgical approach is always an option .



E-mail: ockereis@yahoo.com