Multifocal Synchronous Aorto-Iliac Femoro-Popliteal Aneurysms: Sequence & Strategies For Access And Treatment Does It Depend On Aneurysm Size?

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No disclosure regarding this presentation

Thanks Frank for your invitation

Professor Frank Veith

243 aortic aneurysms in 102 patients

P. Gloviczki et al, JVS 1989

Multiple Arteriosclerotic Arterial Aneurysms

3.9% of multiple aneurysms in patients with arteriosclerotic aneurysms

Multiple aneurysms occurred in 83% of patients who had at least one peripheral aneurysm

TL Dent et al, Arch Surg, 1972

Multiple Arteriosclerotic Arterial Aneurysms

Among patients with a common femoral aneurysm

95% had a second aneurysm
92% had a aorto-iliac aneurysm
59% had a bilateral femoral aneurysm

1488 patients seen from 1960 to 1971
TL Dent et al, Arch Surg, 1972
Unifocal Aneurysm

Simple Bifocal Aneurysms

AAA

55 mm AAA

45 mm Distal Common Iliac Aneurysm

Multifocal Aneurysms

But there are some more difficult cases ...

Simultaneous percutaneous endovascular exclusion of the aneurysms

With one EVAR Modular System

Case report # 1

2014

Giant Multifocal Aorto-iliac-femoral Aneurysms

Angio-CT Reconstruction

Severely angulated neck

Abdominal aorta, common iliac & hypogastric aneurysms

Bilateral Common Femoral & SFA aneurysms

Multi-Aneurysmal Disease
Maximum Aortic Diameter

Major Flattening of Inferior Vena Cava

Cell Saver

Aorto-Caval Fistula

Closure With PTFE Patch

Control Angio-CT @ 6 Months Follow-up

Case Report # 2

- 75 years old man
- Severe pulmonary insufficiency
- Multiple aneurysmal disease

3 different aneurysmal localizations

AAA > 58mm
Right ilio-femoral aneurysm > 60mm
Left common femoral aneurysm > 60mm
First stage

Sudden local pain with irradiation

Flexible Self Expanding Stent Graft
- Luminexx™ nitinol stent
- ePTFE encapsulated
- 2 ultra-thin layers
- 2mm bare ends
- Low Profile SF-9F
- Carbon impregnated
- Tracheobronchial indicated
- 6mm-10mm/40mm-80mm

Rupture femoral aneurysm

two stage bilateral exclusion

Proximal AAA