VEITH Symposium 2015

**EVAR Strategy to Deal with a Proximal Neck Over 35 mm in Diameter**

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No disclosure regarding this presentation

**Thanks Frank for your invitation**

Professor Frank Veith

**EVAR**

The Anatomy of the Proximal Neck

- Long / Parallel
- Short / Conical
- Angulated

**Proximal Neck > 35 mm**

BEVAR / FEVAR
Sandwich
EVAS

What should we do?

**Case Report**

- 70 years old man
- Two previous coronary angioplasties
- Slim & in good general condition
- Annual cardiac screening

Large Asymptomatic AAA
Ultrasound Duplex Scan

Angiographic Computerized Tomography

Angiographic Computerized Tomography

Angiographic Computerized Tomography

3D Reconstruction

The Problem

A large diameter of 36mm at the level of the aortic superior neck
3D Reconstruction & Sizing

Anatomy of the Superior Neck:
20mm in Length / 35mm in Diameter

3D Reconstruction & Sizing

Maximum External Diameter: 80mm

3D Reconstruction & Sizing

Right Common Iliac Aneurysm Not Including the Hypogastric Artery

3D Reconstruction & Sizing

Procedural Strategy
A bifurcated abdominal aortic endograft of 36mm with right iliac extension at the inferior level combined with
A straight thoracic aortic endograft of 40mm at the superior level with overlap zone

Endurant II AAA Stent Graft System

Maximum Aortic Diameter 36mm
Thoracic Endografts

a Large Range of Devices

Diameter Range:
30 to 42mm
At 2mm intervals
Standard Lengths
from 7 to 22cm

Intraoperative Initial Angiography

Renal Artery Level

Intraoperative Initial Angiography

20m long
35mm large
Angulated
Superior Neck

Intraoperative Initial Angiography

Superstiff
0.35 Wires

Intraoperative Initial Angiography

Aortic Bifurcation
Level
Some Different Steps of the Procedure

Operative Drawing

Follow-Up Control Angio CT

Follow-Up Control Angio CT

Satisfactory Apposition and Connection of both Thoracic and Abdominal Endografts

Satisfactory stent-graft proximal deployment

Patient & Graft Selection

General Comments / Recommendations

Accuracy of sizing
Oversizing of the endograft
Associated iliac aneurysm
Hypogastric arteries anatomy

Experienced Vascular Team in EVAR
Conclusion

Patient Selection
Off Label Use
New Generation of Endografts
Surveillance