Custom EVAR (cEVAR)
a step in between
standard EVAR and FEVAR

Ernst Weigang
Department of Vascular Surgery and Endovascular Therapy,
Academic Hospital Hubertus Berlin
Vascular Center Berlin-Brandenburg, Germany
E-Mail: ernst.weigang@web.de
Disclosure

Speaker name:
Prof. Dr. Ernst Weigang

I have the following potential conflicts of interest to report:

✓ Consulting
☐ Employment in industry
☐ Stockholder of a healthcare company
☐ Owner of a healthcare company
☐ Other(s)

☐ I do not have any potential conflict of interest
Bolton Medical has a long history of custom made thoracic stentgrafts

Angiograms are courtesy of:
1. Carlos Esteban, MD - Hospital Germans Trias i Pujol, Badalona, ES
2. Ernst Weigang, MD – Academic Hospital Hubertus, Berlin, DE
3. Mohamad S. Hamady, MD - Imperial College, London, UK
4. Mohamad S. Hamady, MD - Imperial College, London, UK
Treovance

A 3 piece system with multiple size options

Treovance is indicated in neck lengths of:
- 10 mm with an infrarenal angle of less than 60° degrees
- 15 mm or greater with an infrarenal angle between 61° and 75° degrees
Expand the custom program to the abdominal aorta to offer a more personalised approach.

The custom program strives to deliver more endovascular options to patients with aortic disease.

### Custom Configurations:

**Current available designs**
- Tapers
- Reverse/Extreme Tapers
- Extreme Lengths
- Scallop
- Single Fenestration / Scallop
- Double Scallop

**Future available designs**
- Double Fenestration
- Double Fenestration w/Scallop

The custom program is not available in the US.
Hybrid OR
Clinical Case: 1

- Clinical history
  - 80 years old men
  - Status after implantation of a aorto-bi-iliac prothesis with proximal anastomosis aneurysm

- Customisation indication
  - Endovascular repair after open AAA surgery

- Stent-Graft design
  - **Component:** cuff
  - **Customization:** Diameter, length, tapering
  - **Proximal** \( \Theta \). 30 mm
  - **Distal** \( \Theta \). 33 mm
  - **L.** 65 mm
Preoperative: CT
Intraoperative: Angio
Clinical Case: 2

- Clinical history
  - 67 years old men
  - Status after open AAA-repair with aorto-bi-iliac prosthesis
  - postop. thrombosis of right iliac leg —> cross over bypass
  - Status after stent implantation of left iliac leg due to kinking of the iliac leg
  - Now: prox. progressive de-novo AAA

- Customisation indication
- Status after open repair with difficult anatomical situation

- Stent-Graft design
  - Component: aorto-uni-iliac
  - Customization: prox. and dist. diameter, tapering, length
  - Proximal \( \Theta \). 28mm
  - Middle \( \Theta \). 36mm
  - Distal \( \Theta \). 8mm
  - L. 130mm
Preoperative: CT
Intraoperative: Angio
Clinical Case: 3

- Clinical history
  - 58 years old female
  - Infrarenal AAA
  - Occlusion of right common iliac artery
  - 5mm proximal landing zone

- Customisation indication
  - Aorto-Uniliac stent-graft with proximal scallop

- Stent-Graft design
  - Component: AUI
  - Customization: Proximal Scallop
  - Proximal Ø. 24mm
  - Distal Ø. 14mm
  - L. 110mm
  - Scallop W/L. 10x10mm
Intraoperative: Angio

Clinical Case courtesy of: Dr. Klaus Hausegger / Krankenhaus Klagenfurt / Austria
Intraoperative: Right Renal Artery cannulation

Clinical Case courtesy of: Dr. Klaus Hausegger / Krankenhaus Klagenfurt / Austria
Postoperative: CT scan

Clinical Case courtesy of: Dr. Klaus Hausegger / Krankenhaus Klagenfurt / Austria
Clinical Case: 4

• Clinical history
  • 70 years old male
  • Previous EVAR repair in 1996
  • A Vanguard Stent-graft implanted
  • Type III endoleak

• Customisation indication
  • short Main Body to apply a Bifurcation over previous Stent-Bifurcation

• Stent-Graft design
  • Component: Main Body
  • Customization: Length
  • Proximal $\bigcirc$. 24mm
  • Distal $\bigcirc$. Contra 14mm / Ipsi 10mm
  • L. 50mm (end of contra limb)
Preoperative: stent disconnection and aneurysm sac refilling
**Intraoperative:** Deployment of contralateral leg

Clinical Case courtesy of: Dr. Franz Karnel / Hospital SMZ-Süd / Wien / Austria
Postoperative: Flow exclusion in the aneurysm sac

Clinical Case courtesy of: Dr. Franz Karnel / Hospital SMZ-Süd / Wien / Austria
Clinical Case: 5

- **Clinical history**
  - Patient with a previous EVAR and Type Ia endoleak
  - Right and left renal offset

- **Customisation indication**
  - Stent-graft with proximal scallop for left renal artery

- **Stent-Graft design**
  - **Component.** Cuff
  - **Customization.** Scallop
  - **Proximal / Distal** 33mm
  - **L.** 50mm
  - **Scallop W/L.** 11x15mm

Clinical Case courtesy of Guttorm Jenssen, MD / University Hospital / Bergen, Norway
Type Ia endoleak (CT/ Angio)

Clinical Case courtesy of Guttorm Jenssen, MD / University Hospital / Bergen, Norway
Intraoperative: scallop and cannulation
Final angio and discharge CT
Clinical Case: 6

- **Clinical history**
  - 83 old female
  - Infra- and juxtarenal aneurysm
  - Right and left renal offset

- **Customisation indication**
  - Stent-graft with proximal fenestration for the Right Renal Artery

- **Stent-Graft design**
  - **Component.** Main Body
  - **Customization.** Single Fenestration
  - **Proximal / Distal** ⊗. 28mm
  - **L.** 100mm (end of contra gate)
  - **Fenestration** ⊗. 7mm
Preoperative: gap between Right and Left Renal Artery
Intraoperative: stent implantation

Clinical Case courtesy of Guttorm Jenssen, MD / University Hospital / Bergen, Norway
Intraoperative: Final Angio

Clinical Case courtesy of Guttorm Jenssen, MD / University Hospital / Bergen, Norway
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