Custom EVAR (c-EVAR) designs
a step in between standard EVAR and FEVAR devices

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C-EVAR
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
Custom-EVAR is a step between EVAR and f-EVAR/b-EVAR
Case presentation

- 74 year old male
- Former smoker
- Ischemic cardiopathy after myocardial infarction in 1993
- Hypertension
- Dyslipidaemia
- Laparotomy with resection right colon 1994
Case presentation

• September 2016
  – CT scan for suspected diverticulitis
    • Diverticulitis
    • Aneurysm with diameter of 53 mm (asymptomatic)
  – 2nd laparotomy with sigmoid resection
Case presentation
Case presentation
Case presentation

TREO Abdominal Custom Made Stent-Graft
6x12 Proximal Scallop

Ø 24mm ±1 ID

100mm ±2

Ø 14mm ±1 ID

6mm ±1

12mm ±1
Case presentation

Delivery System Advancement
Case presentation

- Proximal Stent-Graft Markers
- Proximal Scallop Distal Marker
- Maximum Overlap Marker
- Minimum Contra Overlap Marker
- Minimum Ipsilateral Overlap Marker
Case presentation

Stent-Graft Deployment
Case presentation
Case presentation
Case presentation
Case presentation

Contralateral Leg Deployment
Case presentation
Case presentation
Case presentation
Case presentation
Case presentation

[Images of baseline and 13 month follow-up CT scans]

Baseline

13 month FU
c-EVAR

• 313 devices manufactured and delivered as of December 2017

• Clinical follow-up ongoing
Conclusion

• c-EVAR can be a step in between standard EVAR and FEVAR
• Initial clinical experience is encouraging
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