Aortouniiliac Modification of the Trivascular Abdominal Stent Graft with an Ex-Vivo Ligation of the Contralateral Limb

Steve Henao MD FACS FACC
New Mexico Heart Institute
Albuquerque, NM USA
Disclosure

Speaker name: Steve Henao MD FACS FACC

I have the following potential conflicts of interest to report:

• Trivascular Medical Educator
Ovation Prime Abdominal Stent Graft System

Tri-Modular Design

Suprarenal Stent with Integral Anchors for Fixation

14F OD PTFE Main Body

Polymer Filled Rings for Optimal Seal

Low-Viscosity Radiopaque Fill Polymer

13F OD Iliac Limbs

Sealing Rings Conform to Anatomy, No Chronic Expansile Radial Force

Confidential
# Indication Statements vs. Anatomical Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Self-Expanding Stent IFU</th>
<th>Ovation Prime System IFU</th>
<th>Typical Male Patient</th>
<th>Typical Female Patient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neck Length, mm</td>
<td>&gt; 10 - 15</td>
<td><strong>No conventional length requirement</strong></td>
<td>16 (9-27)</td>
<td>12 (6-20)</td>
</tr>
<tr>
<td>Neck Diameter, mm</td>
<td>18 - 32mm</td>
<td>16 - 30mm</td>
<td>23 (21-26)</td>
<td>21 (19-24)</td>
</tr>
<tr>
<td>Neck Angulation, °</td>
<td>&lt; 45 – 60</td>
<td>&lt; 45 – 60</td>
<td>36 (26-47)</td>
<td>45 (34-58)</td>
</tr>
<tr>
<td>Access vessel</td>
<td>&gt; 6–7</td>
<td>&gt; 4.7</td>
<td>7 (4.8–9.2)</td>
<td>5.6 (3.8–7.4)</td>
</tr>
</tbody>
</table>

*Data from Morrison et al1 and Sweet et al.2 Values are median or mean (interquartile range). Abbreviations: IFU, instructions for use.

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patient 1

- 82 year old man
- COPD
- CHF
- debilitating claudication
- symptomatic 6.4 cm aortic aneurysm
- calcified, occluded right common iliac artery and bilateral, occluded external iliac arteries on CTA

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appearance of the unsheathing step of deployment
crimp and resheath
crimp and resheath
patient 2
- 77 y/o man
- symptomatic aneurysm with migrated AAA stent and occluded iliac limb
- multiple previous abdominal surgeries
- COPD
Conclusions

- Aortic iliac challenges can make it difficult...
- Aortoiliac challenges can make it difficult, if not impossible, to place a bifurcated stent graft system
- Uni-iliac conversion of the Ovation Prime device with the limb ligation technique appears to be safe and reproducible technique that may serve to broaden the applicability of this device