Current and next generation AAA Endografts to treat simple to complex anatomies

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Current Devices – EXCLUDER® C3

- Current EXCLUDER® C3 for AAA treatment:
  - Proven durability - backed by clinical and commercial data
  - Intuitive repositionable delivery system
Neck Anatomy

- Hostile neck definition:
  - Thrombus, Calcification
  - Short neck ≤ 15 mm
  - Angulated neck ≥ 60°
  - Wide neck > 28 mm
Risks treating Hostile Necks

- Endoleak Type I
- Migration
  - Higher Re-Intervention Rates
- Late Rupture
  - Death
Treatment of Complex Neck Anatomies

- Patient Selection, Individual Planning
- Use of the complete neck for sealing
  - Precise positioning
  - Correct setting of the C-Bow
- Precise deployment
  - Fenestrated/Chimney/Open
Design EXCLUDER® C3

- No major changes of the GORE EXCLUDER®
  - Same Construction, Materials
  - Same Profile
  - Same Flexibility
  - No Implantation of additional elements

Furthermore:
- Option for Repositioning
- More exact deployment
<table>
<thead>
<tr>
<th>Reasons for repositioning</th>
<th>Number of repositions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioning closer to renal arteries</td>
<td>10 (40%)</td>
</tr>
<tr>
<td>Contralateral gate positioning</td>
<td>12 (48%)</td>
</tr>
<tr>
<td>Other</td>
<td>4 (16%)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of repositions per case</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean (SD)</td>
<td>1.1 (0.9)</td>
</tr>
<tr>
<td>Median</td>
<td>1.0</td>
</tr>
<tr>
<td>Range</td>
<td>(0.0, 3.0)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of repositions per case</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>7 (28.0%)</td>
</tr>
<tr>
<td>1</td>
<td>11 (44.0%)</td>
</tr>
<tr>
<td>2</td>
<td>5 (20.0%)</td>
</tr>
<tr>
<td>3</td>
<td>2 (8.0%)</td>
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</tbody>
</table>

Verhoeven et al.: First experience with the new repositionable C3 Excluder stent-graft, J Cardiovasc Surg; 2011, 52:637

49% Registry
Short-term outcomes of the C3 EXCLUDER® with complex proximal aortic seal zones

- Retrospective Analysis (n=44)
- C3 vs EXCLUDER®
- “unfavorable neck”
  - Length <15mm, Diameter >28mm, Angle >60º
- Reduction of aortic cuffs
- No endoleaks
- No obstruction of renal arteries

Clinical Requirements

- Use of the complete neck:
  - Good wall apposition
  - Positioning close to the renal arteries
  - Precise deployment/repositioning

- Good Wall-Apposition (Conformability)
  - Adaption of the graft to the anatomy - not other way round
Conformability

- GORE® Conformable TAG® introduced the concept of conformability into the thoracic aorta
GORE® EXCLUDER® Conformable

- Tested for
  - $\leq 90^\circ$ proximal neck angulation
  - $\geq 10$ mm neck sealing length
- 16 Fr delivery catheter for most trunks
GORE® EXCLUDER® Conformable
Conclusions

- GORE® Excluder® Conformable will introduce a new conformability to EVAR
- Excluder® Conformable will feature a new positioning option which will allow to use all available neck length
- It can maximize wall apposition and sealing
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