Strategies And Techniques To Treat Short Proximal Neck AAAs

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Conflicts of interest
Consultant/grants:
Medtronic
Cordis
Cook
Maquet

Freedom from proximal type I endoleak in short and long necks

Use of a specific endograft
- Exact deployment
- Suprarenal fixation

ENGAGE Registry

<table>
<thead>
<tr>
<th>8-731 days</th>
<th>16-15mm</th>
<th>15-20mm</th>
<th>≤20mm</th>
<th>p value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rupture</td>
<td>0%</td>
<td>0%</td>
<td>0.3%</td>
<td>0.94</td>
</tr>
<tr>
<td>Conversion</td>
<td>0%</td>
<td>0%</td>
<td>1.1%</td>
<td>0.69</td>
</tr>
<tr>
<td>Secondary Procedure</td>
<td>4.2%</td>
<td>6.5%</td>
<td>6.6%</td>
<td>0.58</td>
</tr>
<tr>
<td>Secondary Procedure to correct Type I/III endoleak</td>
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<td>1.3%</td>
<td>1.9%</td>
<td>0.02</td>
</tr>
<tr>
<td>Type I</td>
<td>0%</td>
<td>0%</td>
<td>0.7%</td>
<td>0.67</td>
</tr>
<tr>
<td>Migration</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>ns</td>
</tr>
</tbody>
</table>

Several studies described promising results in “off label” conditions
At 5 years no difference in terms of survival, reinterventions and graft occlusion

Specific endografts
Conclusions

• Studies support the use of specific endografts in necks to 10 mm
• The results are comparable with those in standard necks
• For shorter (<10 mm) consider other techniques

Disadvantages of the new technologies

- Price for endograft and covered stents
- Demanding implantation technique
- Angiosuite necessary
- Unsuitable arterial anatomy
- Delay in manufacture (acute case)

18.11.2015
Fenestrated grafts for pararenal aneurysm
Pararenal aneurysm treated with the chimney technique

Limitations of chimney
- Supraaortic access?
- Standardization of the technique
- Gutters
- Long-term results

Results of „chimney“ vs. fenestrated

<table>
<thead>
<tr>
<th></th>
<th>PERICLES</th>
<th>Linsen et al [2012]</th>
<th>Do et al [2012]</th>
</tr>
</thead>
<tbody>
<tr>
<td># patients</td>
<td>517</td>
<td>629</td>
<td>776</td>
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<tr>
<td># grafts</td>
<td>898</td>
<td>1622</td>
<td>1728</td>
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<tr>
<td>Mortality</td>
<td>3.7%</td>
<td>2.3%</td>
<td>2.5%</td>
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<tr>
<td>Type I endoleak</td>
<td>5.8%</td>
<td>4.6%</td>
<td>7.9%</td>
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<tr>
<td>Branch patency</td>
<td>94.1%</td>
<td>93.3%</td>
<td>94.0%</td>
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<tr>
<td>2nd intervention</td>
<td>6.0%</td>
<td>17.8%</td>
<td>17.6%</td>
</tr>
</tbody>
</table>

Choice of graft and technique in short necks

- Favorable access from below
- Multiple target vessels
- Emergency
- Little experience w/ fEVAR

Your preferred graft

Specific graft

- fEVAR
- chEVAR

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Thank you!