Long-Term Patency Of Renal And Splanchnic Arteries After TAAA Open Repair

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Disclosures

- PI/Co-PI for several thoracic and abdominal aortic stent graft trials (Cook, Inc, Cordis® Corporation, Bolton Medical)
- Proctor and participated as a lecturer at symposia hosted by Cook, Inc., Bolton, W.L. Gore and Associates, Jotec and Medtronic, Inc.

1) Carrel patch
What is the fate of reimplanted visceral vessels?

SAN RAFFAELE Study

- Single-centre retrospective analysis
- Open TAAA repairs (Jan 2009 - Jul 2015)
- Follow-up data with CT scan yearly thereafter
- KM analysis: survival and visceral vessels patency

Drawback: risk of graft kinking / thrombosis
Follow-up: flow-chart

- 353 early survivors
- 15 lost to follow-up
- 247 complete F-U (with CTs)
- 91 only partial F-U (no CT-scan)
- 382 TAAA OR
- 338 available follow-up
- 29 peri-op deaths
- 952 VV analysed

Overall survival

- 338 patients
- 1 year survival: 94%
- 5 years survival: 70%

VV patency (on 247 pts with available CT scan)

<table>
<thead>
<tr>
<th>Months</th>
<th>CT</th>
<th>SMA</th>
<th>RRA</th>
<th>LRA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 year</td>
<td>99%</td>
<td>100%</td>
<td>100%</td>
<td>91%</td>
</tr>
<tr>
<td>5 yrs</td>
<td>98%</td>
<td>100%</td>
<td>96%</td>
<td>82%</td>
</tr>
</tbody>
</table>

Log-rank (Mantel-Cox) P < .0001

VV occlusion by reconstruction strategy

- Group 1: 94 pts
  - All VV in Carrel patch
- Group 2: 127 pts
  - 3 VV in Carrel patch + 1 separate
- Group 3: 26 pts
  - All VV separate reattachment

Log-rank (Mantel-Cox) P = .13 (NS)

Focus on the LRA: by reconstruction strategy

<table>
<thead>
<tr>
<th>Months</th>
<th>Patency (%)</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>12</td>
<td>95</td>
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<tr>
<td>24</td>
<td>88</td>
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<tr>
<td>36</td>
<td>80</td>
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<tr>
<td>48</td>
<td>85</td>
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Log-rank (Mantel-Cox) P = .37
For more details...

**Conclusions**

- Open TAAA repair: durable results
- Vessels patency is high (mean: 94% at 5 yrs)
- LRA = highest risk for occlusion in time
- Not related to the revascularisation technique

... we wait for you in Milan!