What Is The Best Current Treatment For Long SFA Occlusions: BMSs, DESs, DEBs, Atherectomy And PTA Or Viabahn

Johannes Lammer MD
Medical University Vienna, Austria

Disclosures
• None

Durability II US

287 patients, lesion length: 4-20 cm
length>8cm: mean 12.4 cm
1y PP 70.2%


SIROCCO Trial – Primary Patency

Randomized, 93 patients, lesion length <20cm, mean 8.3cm

BMS
9/12mo: 89%
93%

SES
9/12mo: 93%
93%

4y: 72%
67%

Zilver PTX randomized trial


STRIDES DES versus VIENNA-BMS-PTA

Single arm, 104 patients, mean lesion length 9.0cm

12-month Primary Patency 68%
**Zilver PTX Registry**


- 1y 81%
- 2y 72%
- 4y 67%

- > 10 cm lesions
- ≤ 10 cm lesions

**Drug-eluting balloon: 6 months „late lumen loss”**

**LEVANT II – Trial**

476 patients (DCB 316, PTA 160), mean lesion length was 6.3cm

12-months primary patency rate:

- DCB 65.2%
- PTA 52.6%, p=.001


**INPACT.SFA trial**

331 patients (220 DCB 111 PTA); mean lesion length 8.9cm.

12-months primary patency rate:

- DCB 82.2%
- PTA 52.4%, p=.001


**VIASTAR trial**

RCT, 141 patients, mean lesion length 18.1cm

Primary Patency, ITT

<table>
<thead>
<tr>
<th>All</th>
<th>&gt; 20 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1y 71% VIA 2y 63%</td>
<td>1y 55% BMS 2y 41%</td>
</tr>
<tr>
<td>1y 37% BMS 2y 27%</td>
<td></td>
</tr>
</tbody>
</table>

P = 0.036

P = 0.015


**Atherectomy – Definitive LE**

Single Arm registry, claudicants n=536
Mean lesion length 8.1cm

12mo primary patency rate:

- All claudicants 78%
- Lesion >10cm 65%

### CONCLUSION

Patency rates of Stent - DES - DEB - VIABAHN

<table>
<thead>
<tr>
<th>Study</th>
<th>Length</th>
<th>9mo</th>
<th>12mo</th>
<th>24mo</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESILIENT</td>
<td>6.6cm</td>
<td></td>
<td></td>
<td>81%</td>
</tr>
<tr>
<td>DURABILITY II</td>
<td>12.4cm</td>
<td>70%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIASTAR (BMS)</td>
<td>17.6cm</td>
<td>55%</td>
<td></td>
<td>41%</td>
</tr>
<tr>
<td>SIROCCO</td>
<td>8.3cm</td>
<td>93%</td>
<td></td>
<td>77%</td>
</tr>
<tr>
<td>STRIDES</td>
<td>9.0cm</td>
<td></td>
<td>68%</td>
<td></td>
</tr>
<tr>
<td>ZILVER PTX RCT</td>
<td>5.4cm</td>
<td>83%</td>
<td></td>
<td>75%</td>
</tr>
<tr>
<td>ZILVER PTX registry</td>
<td>&gt;10cm</td>
<td></td>
<td>81%</td>
<td></td>
</tr>
<tr>
<td>MAJESTIC</td>
<td>7.8cm</td>
<td></td>
<td></td>
<td>96%</td>
</tr>
<tr>
<td>LEVANT II</td>
<td>6.3cm</td>
<td>65%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INPACT.SFA</td>
<td>8.9cm</td>
<td>82%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEFINITIVE LE</td>
<td>&gt;10cm</td>
<td>65%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIASTAR (Viabahn*)</td>
<td>19.0cm</td>
<td>71%</td>
<td>63%</td>
<td></td>
</tr>
</tbody>
</table>