Penile Prosthesis Utilization at One and Two Years: Results of the PROPPER Study

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Disclosure

• This study is supported by Boston Scientific, Inc.
Objective

• Assess penile prosthesis (PP) utilization at one and two years after AMS PP placement in men with ED using PROPPER
Method

- PROPPER
  - Prospective Registry of Outcomes with Penile Prosthesis for Erectile Restoration
  - 11 sites in US and Canada
  - IRB/EC oversight
  - Patients received AMS 700, Ambicor, or Spectra
Method

• Patients who answered device use question were included

• Utilization was analyzed by:
  – Age
  – Etiology of ED
  – Device model
  – Race
  – Etc
Results

• 826 patients included at one year

• 554 patients included at two years
<table>
<thead>
<tr>
<th></th>
<th>Average Age</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>1 Year</td>
<td>Two Years</td>
</tr>
<tr>
<td></td>
<td>737</td>
<td>490</td>
</tr>
<tr>
<td>Avg ± SD</td>
<td>63.8 ± 9.8</td>
<td>63.4 ± 9.8</td>
</tr>
</tbody>
</table>
Utilization by ED Etiology

<table>
<thead>
<tr>
<th>Condition</th>
<th>1 Yr</th>
<th>2 Yrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radical prostatectomy</td>
<td>93%</td>
<td>92%</td>
</tr>
<tr>
<td>Diabetes</td>
<td>86%</td>
<td>84%</td>
</tr>
<tr>
<td>Cardiovascular disease</td>
<td>90%</td>
<td>90%</td>
</tr>
<tr>
<td>Peyronie's disease</td>
<td>87%</td>
<td>86%</td>
</tr>
<tr>
<td>Priapism</td>
<td>83%</td>
<td>80%</td>
</tr>
<tr>
<td>Other</td>
<td>89%</td>
<td>88%</td>
</tr>
</tbody>
</table>
Utilization by Device Type

<table>
<thead>
<tr>
<th></th>
<th>1 Year</th>
<th>2 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectra</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Ambicor</td>
<td>83.3%</td>
<td>85.7%</td>
</tr>
<tr>
<td>AMS 700</td>
<td>89.2%</td>
<td>88.4%</td>
</tr>
</tbody>
</table>

Spectra: 10/10, 2/2
Ambicor: 15/18, 6/7
AMS 700: 712/798, 482/545
Utilization by Penile Girth

• With device inflated (1 yr post-op)
  – 11.6 ± 2.3 cm (n=157)

• With device inflated (2 yr post-op)
  – 12.6 ± 1.2 cm (n=32)
Utilization by Penile Length

• With device inflated (1 yr)
  – 12.4 ± 2.5 cm (n=488)

• With device inflated (2 yr)
  – 12.3 ± 2.5 cm (n=356)
Utilization by Other Variables

- No significant difference in utilization at 1 or 2 yrs
  - Previous ED treatment
  - Baseline IIEF-5
  - Surgical approach
  - Surgical type
  - Curvature correction procedure
  - AMS 700 reservoir placement
Overall Utilization (All)

- 1 year: 89.2%
- 2 years: 88.4%
Conclusion

• PP utilization is high
  – 89.2% at one year
  – 88.4% at two years
Questions?