Incidence and Mortality of patients surgically treated for aortic dissections in Germany


Munich Aortic Center (MAC)
Klinikum rechts der Isar (MRI) der Technischen Universität München (TUM)
Disclosure

I do not have any potential conflict of interest
2006 – 2014

72.970 = Cohort 2
Surgically treated patients with ICD-10 I71.00-07 PD/SD

13.935 = Cohort 3
ICD I71.00-07 PD/SD, transfer without surgery

38.013 = Cohort 3
ICD I71.00-07 PD/SD, no surgery performed

20.533 = Cohort 2
Surgically treated patients with ICD-10 I71.00-07 PD/SD

14.911 = Cohort 1a
Type A AD

5.622 = Cohort 1b
Type B AD
Surgically treated aortic dissections

→ Overall hospital incidence: 2.8/100,000/year

→ Overall in-hospital mortality: 16.7%

<table>
<thead>
<tr>
<th></th>
<th>Type A aortic dissection</th>
<th>Type B aortic dissection</th>
</tr>
</thead>
<tbody>
<tr>
<td>n (%)</td>
<td>14.911 (72.6)</td>
<td>5.622 (27.4)</td>
</tr>
<tr>
<td>Incidence per 100,000</td>
<td>2.1 (1.8-2.2)</td>
<td>0.7 (0.6-1)</td>
</tr>
<tr>
<td>(median, Q_{25}-Q_{75})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age (years, median, Q_{25}-Q_{75})</td>
<td>64 (53-73)</td>
<td>66 (56-74)</td>
</tr>
<tr>
<td>Treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open Repair</td>
<td>94.3 %</td>
<td>6.4 %</td>
</tr>
<tr>
<td>Endovascular</td>
<td></td>
<td>92.3 %</td>
</tr>
<tr>
<td>Hybrid</td>
<td>5.7%</td>
<td>1.3 %</td>
</tr>
<tr>
<td>In-hospital mortality</td>
<td>19.5 %</td>
<td>9.3 %</td>
</tr>
</tbody>
</table>
Hospital - Incidence 2006-2014

Type A dissection

Type B dissection

Standardised incidence per 100,000
In-hospital Mortality 2006-2014

Type A dissection

Type B dissection

Mortality

p = 0.03

p = 0.24
Conclusion

➢ First reported hospital-incidences and mortality for surgically treated AD on a national basis

➢ Overall, the incidence and mortality of surgically treated AD is increasing.

Thanks a lot!

Benedikt Reutersberg, MD
benedikt.reutersberg@gmail.com