Abstract: **P5598**

**Long term outcome and quality of life following acute type A aortic dissection**

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Introduction: Acute aortic dissection (AAD) represents surgical emergency and current literature mainly consists of postoperative outcome reports. Long term outcome and quality of life have not extensively been investigated.

Purpose: This is a single center study to assess long term outcome and quality of life of patients who underwent emergency surgery for AAD.

Methods: From January 2007 until December 2009, 74 consecutive patients were operated for AAD type A in our hospital. Seventeen died during hospital stay and 12 died during follow-up. Mean follow up was 108±10 months. Seventeen patients refused to answer the SF-36 questionnaire; therefore our study group consists of 28 patients. The SF-36 Questionnaire was retrospectively obtained by phone calls, the first, fifth and tenth postoperative year and 2 summary scores are reported, physical (PCS) and mental (MCS).

Results: Our in-hospital mortality was 23%, late mortality 21.1% and the overall mortality was 39.2%. Significant differences in both physical and mental score over time were found among the 28 long-term survivors (Table). Both PCS and MCS at 1st, 5th and 10th year did not differ compared to age-matched general population but compared to subjects with one or more chronic diseases both PCS and MCS were both significantly better at 5yrs in our patients vs controls (p=0.0028 and p=0.0259, respectively). Likewise, at 5 years PCS but not MCS was better in comparison to subjects with a history of one hospitalization the preceding year (p= 0.035 and p= 0.1, respectively).

Conclusion: Quality of life improves after the 1st post-operative year and is comparable to healthy subjects. Although acute dissection is a catastrophic event with high mortality despite successful and timely repair, long term survival and quality of life on the long term are favorable.

<table>
<thead>
<tr>
<th></th>
<th>1 year (FU1)</th>
<th>5 years (FU2)</th>
<th>10 years (FU3)</th>
<th>p-value</th>
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<tbody>
<tr>
<td>Score PCS</td>
<td>45.4 (7.7)</td>
<td>50.3 (7.0)</td>
<td>46.8 (9.2)</td>
<td>0.008*</td>
</tr>
<tr>
<td>Score MCS</td>
<td>42.8 (15.1)</td>
<td>49.7 (12.7)</td>
<td>49.1 (12.3)</td>
<td>0.001**</td>
</tr>
</tbody>
</table>

PCS, Physical component summary * 1 vs 5: p=0.003, 1 vs 10: p=0.469, 5 vs 10: p=0.027

MCS, Mental component summary ** 1 vs 5: p=0.001, 1 vs 10: p=0.001, 5 vs 10: p=0.939

SD, standard deviation

Descriptive statistics of physical and mental component summary score over time