Impact of *Delay* In Treatment On Outcomes for CLI: for AAAs

Katarina Noronen, M. D.
Helsinki University Hospital
Veith Symposium 2015

---

**Critical Limb Ischemia**

- Threat of limb loss and death
- Aging population living longer -> more CLI
- Delay?

**AIM:**
- Flaws in the treatment process?
- Guidelines to help with timing and prioritizing?

---

443 limbs with suspected CLI and tissue loss

---

No Disclosures
17.11.2015

**Referral – Revascularization**

Delay > 2 weeks

**Delay before Elective AAA Repair?**

- No Guidelines for the Preoperative Period

- Target times from Decision to Surgery in Helsinki 2005-2010
  - 55-65mm – 3 months
  - >65 mm – 1 month

**Delay according to the AAA size**

<table>
<thead>
<tr>
<th>AAA Size</th>
<th>Referral-1st Evaluation</th>
<th>1st Eval-Decision</th>
<th>Preop evaluations ready</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;60mm(n=187)</td>
<td>14</td>
<td>28</td>
<td>20</td>
<td>50</td>
</tr>
<tr>
<td>61-70(n=85)</td>
<td>12</td>
<td>24</td>
<td>11</td>
<td>44</td>
</tr>
<tr>
<td>&gt;70mm(n=58)</td>
<td>12</td>
<td>10</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

**Causes for Delay (n=129)**

- No specific reason 77%
  - Lack of resources
  - Attitude problem
- Other medical treatment 14%
  - Patients choice 1%
- Complication on operating day 4%
  - Cancellation 1%

**Consequences of Delay?**

- 11 RAAAs before treatment 3.0%
  - <60mm – 4
  - 61-70mm – 4
  - >70mm – 3
- 9 RAAA-related deaths 2.5%
- 23 emergency operations 6.4%

**Conclusions**

- Optimal pathway from referral to treatment
  - Limb loss
  - Aneurysm ruptures
- Revascularization for DFUs in 2 weeks
- For AAs
  - 50-60mm – 3 months
  - 61-70mm – 2 months
  - 70-90mm – 1 month
  - >90 mm – emergency operation
Thank You