Treatment Of Popliteal Aneurysms:
When Conservative, When Open, When
Endovascular: What Are The Hard Data?

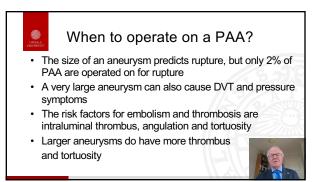
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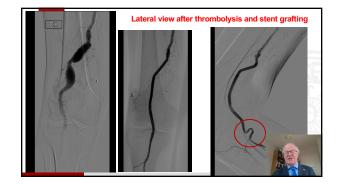
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I have no disclosures for this topic





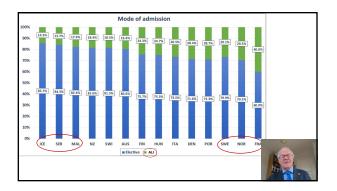


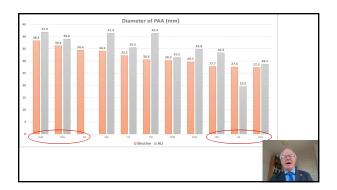


#### The largest database on PAA

- Data on PAA repair from 14 countries
- 9,823 cases of PAA repair
- - 73% elective repair
  - 25% acute ischaemia
  - 2% rupture
- · Great variability between countries was identified:
- Incidence of PAA repair, patient selection, surgical technique and outcome









#### How to operate a PAA?

- Endovascular treatment (stent graft) has worse outcome, especially if the outflow is poor, as with ALI
- Posterior open approach results in a shorter graft, and a possibility to correct tortuosity and angulation, better longterm results
- ...but more wound complications, dedication to detail is necessary, when the wound is closed and drained

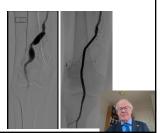


# Treatment of popliteal aneurysm: Endovascular surgery, read the IFU!

#### Viabahn Instructions for use

- Sealing zone of 2cm proximally and distally
- That the patient tolerates anticoagulants or antiplatelets
- At least one-vessel outflo





#### Elongation cannot be treated with endo







## Thrombolysis of PA with acute ischaemia improves outcome

- There is a great advantage of opening the occluded crural arteries before repair of the PA
- In a large national study, 92 of 118 who had preoperative thrombolysis for acute ischaemia, 78%, improved outflow
- Transforms an emergency into an elective situation



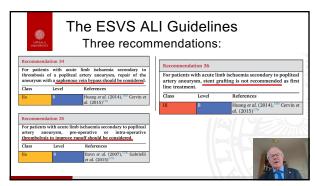
### Open Repair with posterior approach is the procedure of choice, why?

- The by-pass is shorter and in an anatomical position
- Although a venous by-pass has better long-term results, a prosthetic by-pass has better patency than an endograft
- · There are no problems with late expansion











#### Conclusions

- Operate when the diameter is > 20 mm or even when it is smaller if you see thrombus
- Open surgery with posterior technique has the best long term patency, without risk of late expansion
- Endovascular stent graft can be considered if the patients is a poor candidate for open surgery, and if there is no severe angulation or tortuosity

