



**LUND**  
UNIVERSITY

# **Percutaneous access and bailout to the femoral and supra-aortic trunks including the carotids**

**Björn Sonesson**

**Dept of Cardiothoracic and Vascular Surgery  
Skane University Hospital  
Malmö Sweden**



No disclosures

**Endovascular rescue after failed proglide/prostyle in the femoral artery .**

**Percutaneous carotid access**

# Femoral Rescue



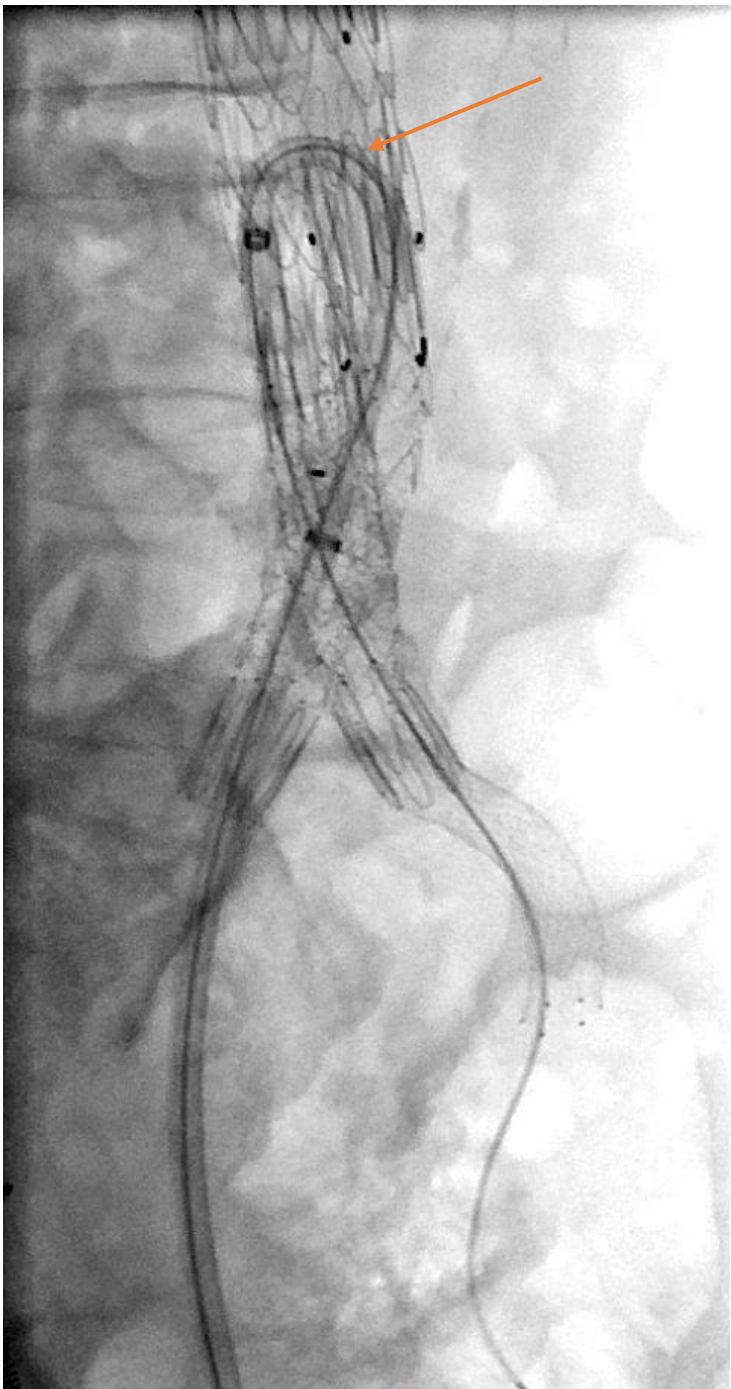


# Femoral Rescue

Steerable sheath

Angiography





# Malmö 2018-2023

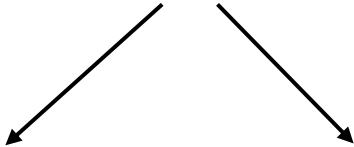
n=751

n=685 (91,3 %)

no intraoperative access complication

n=66 (8,7%)

intraoperative access complication



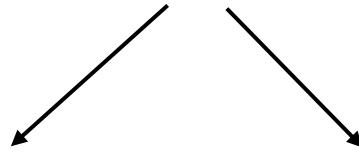
n=39

Bleeding

n=27

Stenosis/Occlusion

**n=39 (59 %)**  
**Bleeding**



**n=22 fascia closure**

**n=17 vessel exploration/closure**



**n=27 (41 %)**  
**Stenosis/Occlusion**



**n=17 open repair**

**n=10 endovascular solution**

# Results

Characteristic feature	Value
Procedural success	100%
Stent length (mm)	27.5(20-40)
Stent diameter (mm)	7 (1-8)
Follow up time (months)	22.5 (6.5-26.5)
Primary patency	100%
Restenosis rate (>50% restenosis)	7.6% (N=1)
Clinical success	100%
Adverse events	
Immediate – Local	Two hematomas – resolved spontaneously
Short to mid term	No adverse events described in the endpoints

# Conclusion

- **Endovascular bail out avoiding open exploration feasible**
- **Low frequency of complications related to stent during 22,5 months FU**

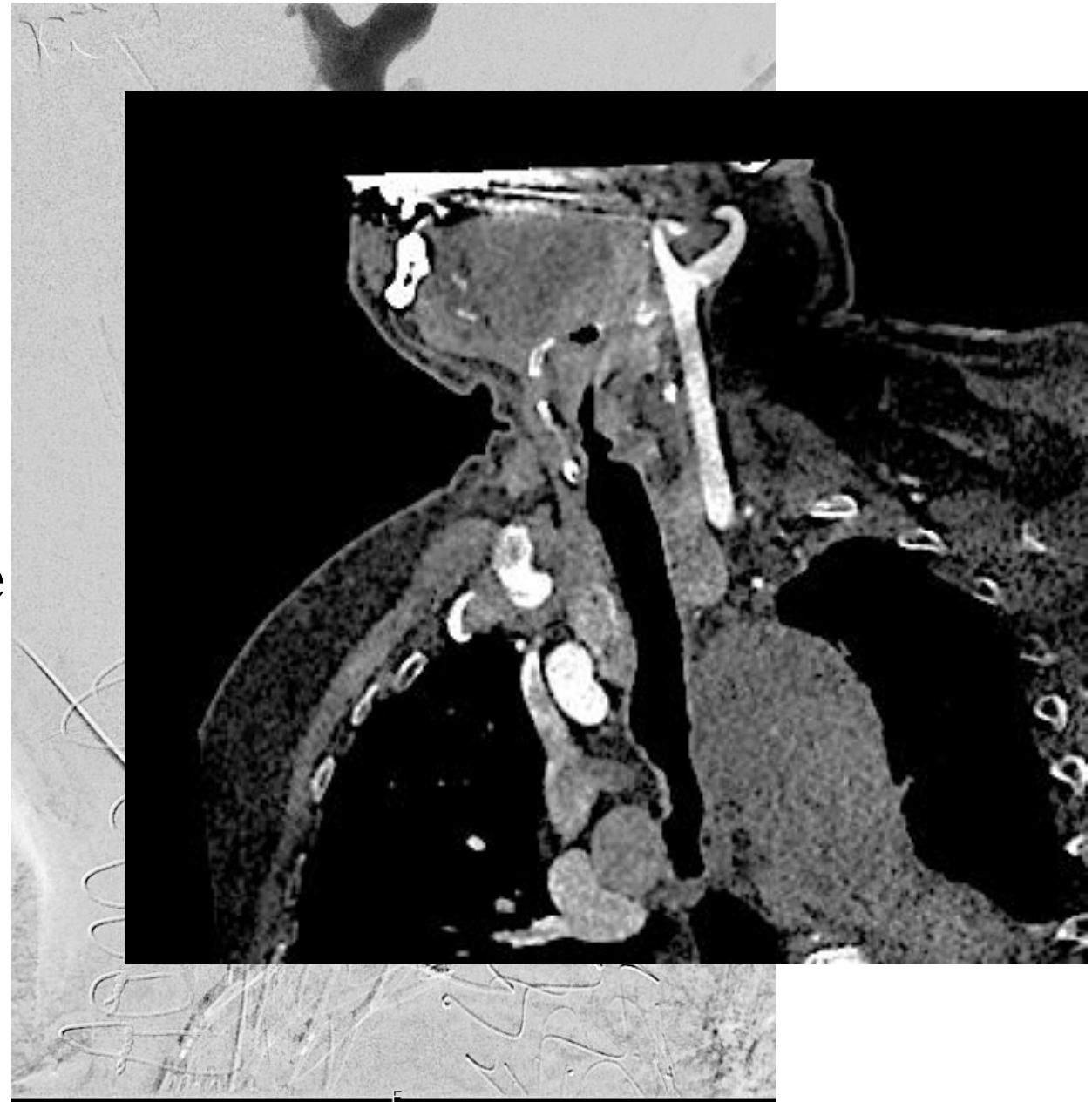
# **Percutaneous carotid access**

- **Why?**
  - **Avoiding neck swelling**
  - **Prolonged ventilator treatment**
  - **Postop awake patient-easier SCI evaluation**



# How is it done?

- **Ultrasound guided puncture**
- **Pro-glide/style**
- **Arch procedure**
- **Sutures tied down- wire in place**
- **Angiography**



# **Percutaneous carotid access**

- **2018-2023**
- **N=14**

# Results

- **Technical success 92 %**
- **30 day mortality 14 %**
- **30 day adverse events**
  - 1 carotid dissection (not flow limiting)**
  - 1 TIA**
  - 1 false aneurysm**

# Results

- **FU 14 months (9-22 IQR)**
- **All carotids patent/no significant stenosis**



# Conclusion

- **Percutaneous carotid access with Pro-glide/prostyle feasible**
- **Results encouraging**