

## COMPLEX CAROTID INTERVENTION

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### History

- 24years old male
- Non htn
- Non diabetic
- Non smoker
- History of gradually increasing painful swelling in the right submandibular region
- No definite history of trauma

### Examination

- Genral examination normal
- Pulsatile non tender swelling left sub mandibular area
- Bruit present
- Clinical suspection of anurysem of carotid artery
- Carotid doppler study- pseudo aneurysum of right external carotid artery

### Imaging



### Indication for intervention

#### Carotid angiography

- Right femoral route
- 5fr. Right coronary diagnostic catheter
- Normal common carotid artery
- Normal carotid bifurcation
- Anurysemof right external carotid artery

### Intervention

#### Plan

- Do we need to treat?
- If yes what treatment options?
  - (1) surgical
  - (2) intervention

- Covered stent
- Coil embolization
- Glue injection
- Device implantation like vascular plug
- Treatment done: vascular plug
- Femoral route
- 5fr. catheter
- Thermo wire into the aneurysm
- Exchange 5fr. Diagnostic with 6fr. Guide
- Deployment of 8mm vascular plug
- Device released
- Aneurysm closed
- Normal internal carotid artery and bifurcation

### **Learning points of the procedure**

#### **Conclusion**

- Rare disease
- Protected vessels
- All pseudoaneurysms need treatment
- Treat according to site
- Multiple modalities
- Individualize treatment