

## **ROUTE DECIDING COMPLICATION IN CAROTID**

Raman Chawla,<sup>1</sup>

<sup>1</sup> Caremax Superspeciality Hospital; Intervention Cardiologist; Cardiology

### **History**

- 75/ male presented with complain of recurrent tias as right hemiparisis
- Non hypertensive, non diabetic
- No obvious risk factors

### **Investigations**

- Ct scan head - essentially normal
- Carotid doppler – essentially normal right carotid system
- Soft ulcerated lesion with peak systolic velocity of 250 cm/sec
- Ecg – essentially normal
- Echo – essentially normal

### **Indication for intervention**

#### **Carotid angiography**

- 85% ulcerated lesion in left internal carotid artery
- Normal right carotid system
- Normal bilateral vertebral system
- Normal intra cranial vasculature

### **Intervention**

#### **Plan**

- Carotid endartrectomy/stenting

### **Procedural step**

#### **Carotid endartrectomy/stenting**

- Right radial artery approach
- Left common carotid artery hooked with jr4 with 0.035 terumo wire
- Jr4 guide kept in left common carotid artery with extra support amplatzer wire in external carotid artery
- Distal protection device angioguard 6mm used
  - Direct stenting with open celled tapered stent done (7-9 x 40mm stent)
  - Post dilatation done with balloon 6.0 x 20mm
- Post dilatation shot revealed thrombus/tissue prolapse in internal carotid artery
- Filter seemed to be clogged
- Aspiration with pronoto suction catheter done
- Multiple suction did not revealed significant result
  - Aspiration with guiding catheter was done
  - Relatively improved flow
  - Distal protection device was removed
- Slight difficulty in pushing the retrieval sheath in guiding across arch of aorta
- Tried removing the guide but it was stuck up
- Loop identified in ascending aorta

- On pulling the catheter it advancing in internal carotid artery without wire
- Tried unlooping the guide with
  - Soft end/hard end of terumo wire- failed
  - Soft end/hard end of teflon wire- failed
  - Soft end/hard end of ptca wire- failed
- Any suggestion??
- Femoral puncture done. Following maneuvers
  - Holding the catheter with biopsy forceps - failed
  - Tried forming loop with pigtail catheter and wire - failed
- Any suggestion??
- **Demon maneuver (stupid thought)** -just pulled the catheter quickly enough under fluoroscopy, before momentum of movement was transmitted to the tip of catheter, preventing forward movement of catheter

### Learning points of the procedure

#### Tips and tricks

- Proper guide support
- Aspiration by pronto catheter
- Thrombosuction by guide
- Don't only look at lesion, look at path way also