CURATIVE ENDOVASCULAR TREATMENT OF COMPLEX MULTIPLE AVMs OF THE HEAD & NECK

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AVMs

- Protean Presentations
- Ranging from an Asymptomatic Birthmark to Fulminant Heart Failure
- Infections, Pain Syndrome, Neuropathy, Hemorrhage
- You Name It, AVMs Can Present with It!
- Challenging to the Most Experienced Clinician to Attribute a Vascular Malformation as the Cause

Yakes Type IIa AVM

32 yo male with growing, painful, pulsatile mass in the left facial area

Lt face painful growing pulsatile mass

24 hrs post-embo
2 year f/up

48 year old male with painful Lt neck growing mass, increased pulsatility and bruit in the Lt neck, and intermittent bleeding by mouth who presents for diagnosis and treatment.

Lt LARYNX
YAKES
TYPE IV AVM

Lateral
Lt Superior
Thyroidal artery DSA

Diffuse infiltrative AVM in the Lt neck & larynx; Yakes Type IV AVM

Pre-ethanol embo DSA
Lateral Lt Superior Thyroidal artery DSA
1 year F/up…Yakes Type IV AVM
Cure with all normal arteries intact.

38 year old male with painful growing Rt scalp mass referred for endovascular treatment.

Rt scalp AVM
Marking the vein aneurysm puncture site

Direct puncture with 23 g needle into AVM.

Direct puncture DSA #1 into Vein aneurysm.

3 month
26 yo female with painful, pulsatile, and growing right ear after first pregnancy. After delivery the ear calmed down, shrunk slightly, and became asymptomatic. During her second pregnancy, the ear became much worse with increasing pain, growth, and hemorrhages. After delivery the pain and hemorrhages continued requiring treatment.

Yakes Type IV AVM

Pre-Embo #2
Note areas of AVM occlusion

2 year F/U
CONCLUSIONS

Complex AVMs are curable in the head & neck without surgery. Surgery is useful to contour and resect redundant tissues, once the AVM is cured.