Balloon Applications in Intracranial Endovascular Embolization



Guilherme Dabus MD
Director, Fellowship
NeuroInterventional Surgery
Miami Cardiac & Vascular Institute
Baptist Neuroscience Center



Herbert Wertheim College of Medicine



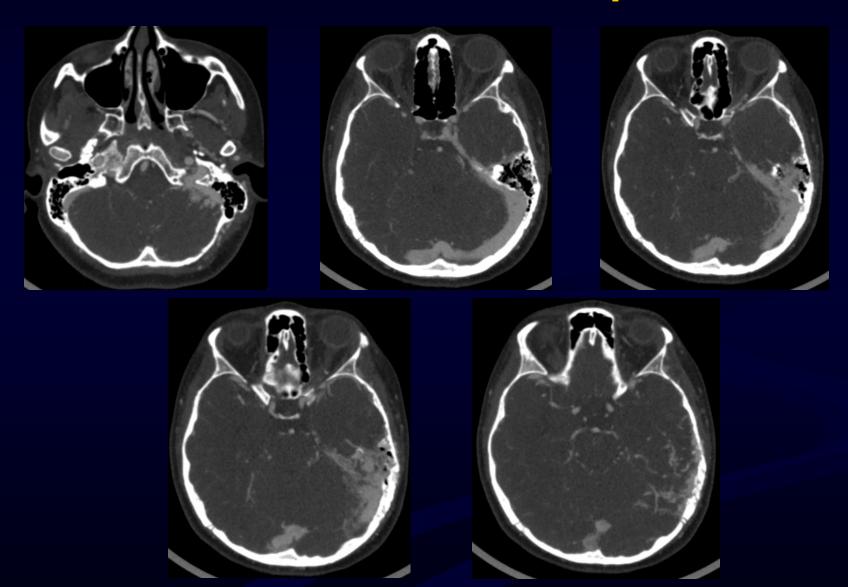
Dural AVF: treatment strategies

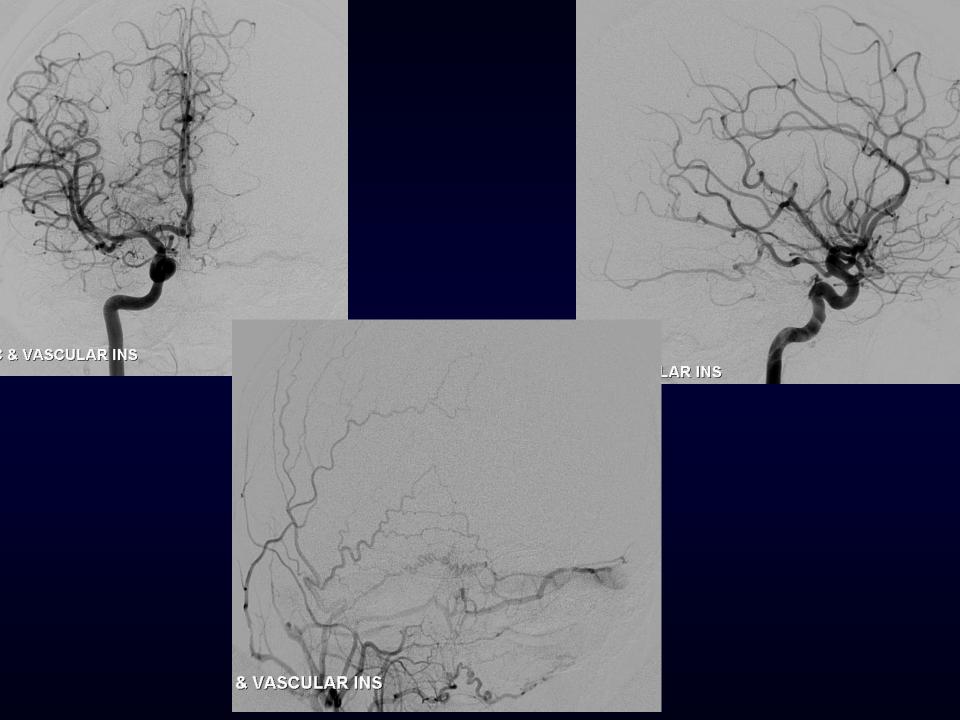
- Dual lumen balloon-assisted Onyx injection
 - balloon inflated temporary plug
 - "pressure technique"
 - more controllable injection and reflux
 - better penetration of embolic agent
 - faster injections decrease radiation exposure
 - lower risk of microcatheter retention

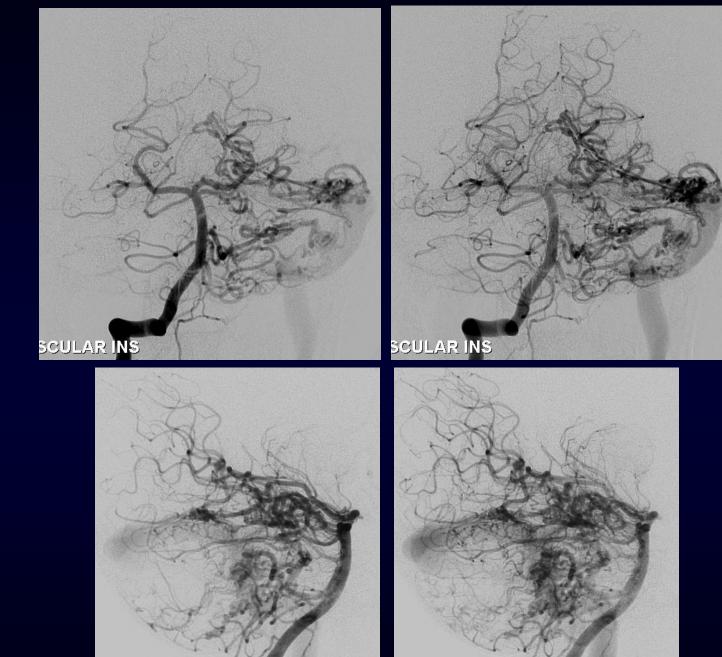
Dabus G, et al. Clin Neurol Neurosurg 2014



23 F left sided pulsatile tinnitus hx of trauma 6 months prior

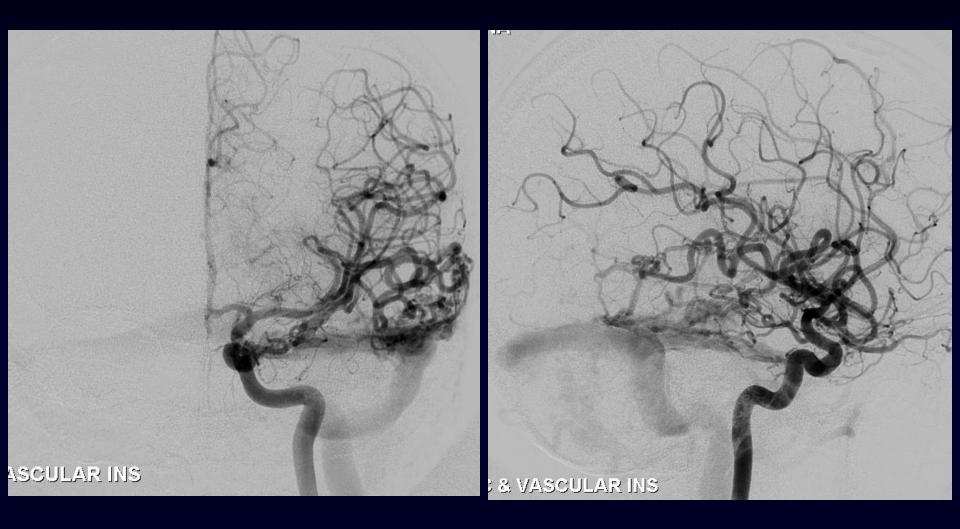


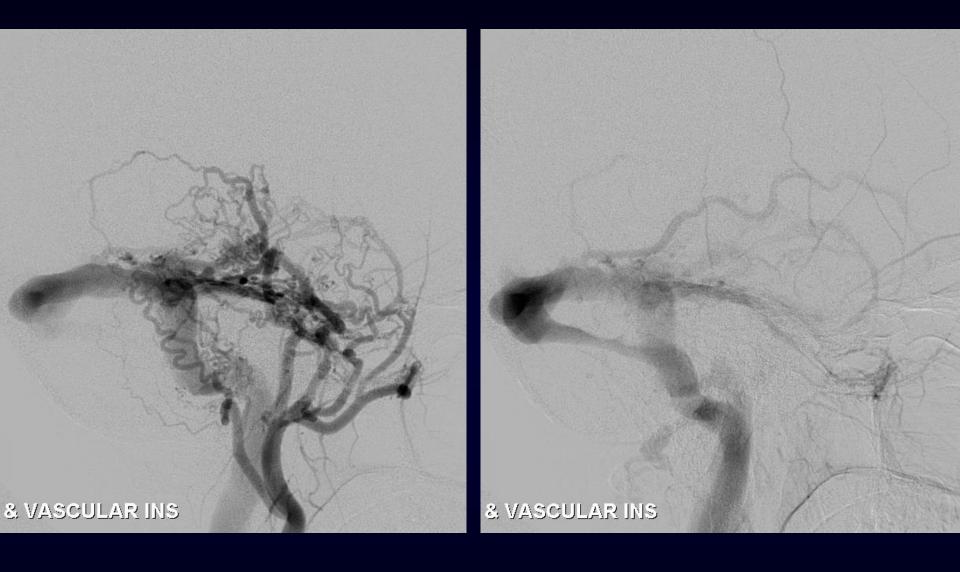


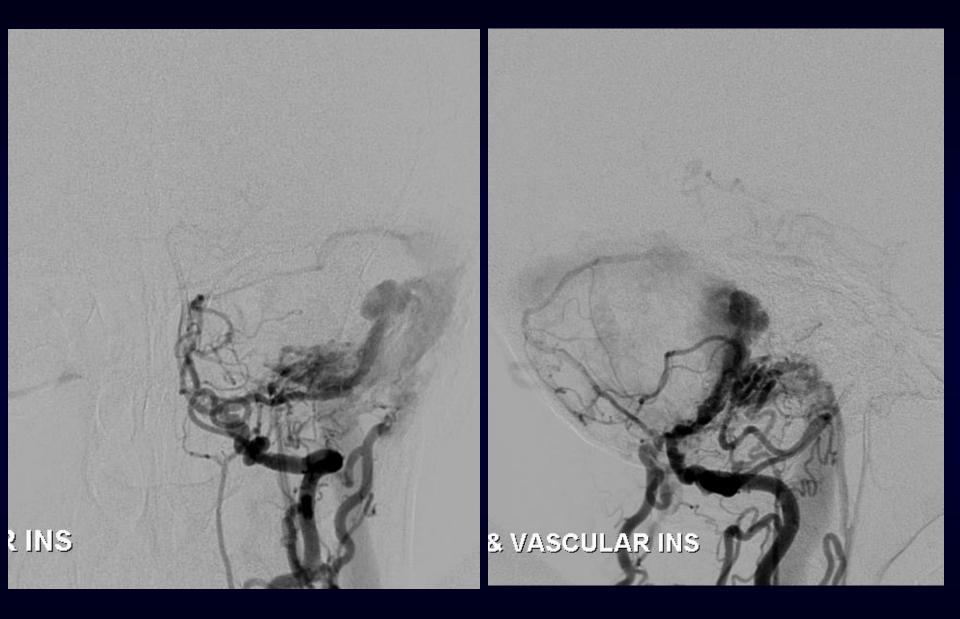


VASCULAR INS

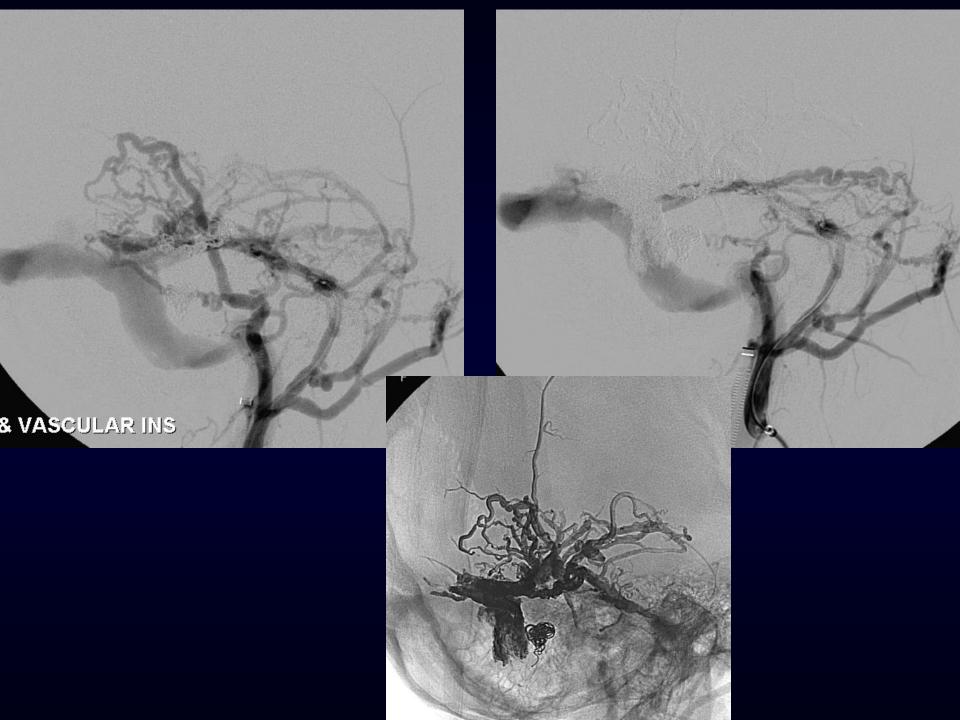
VASCULAR INS

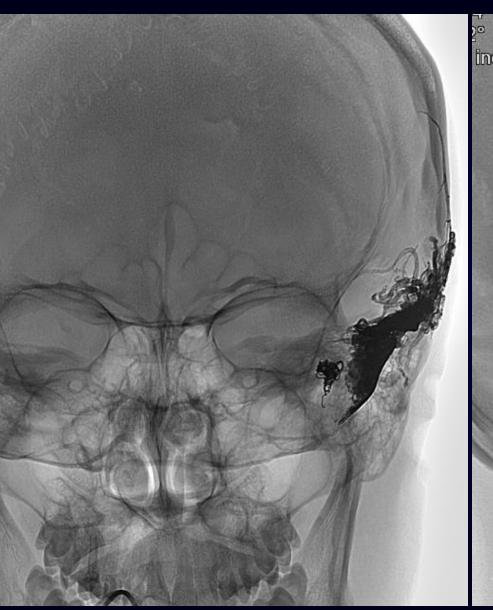










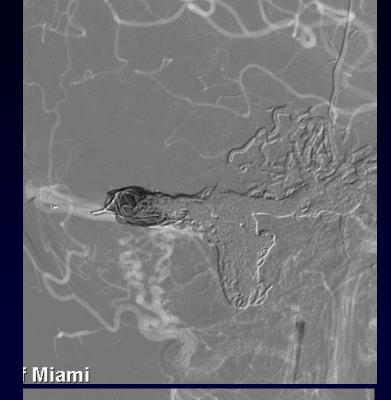


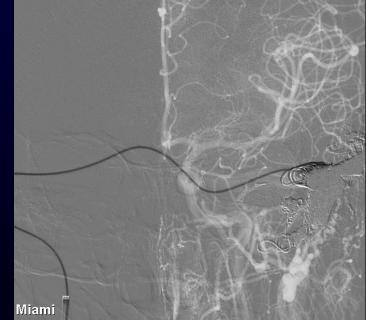


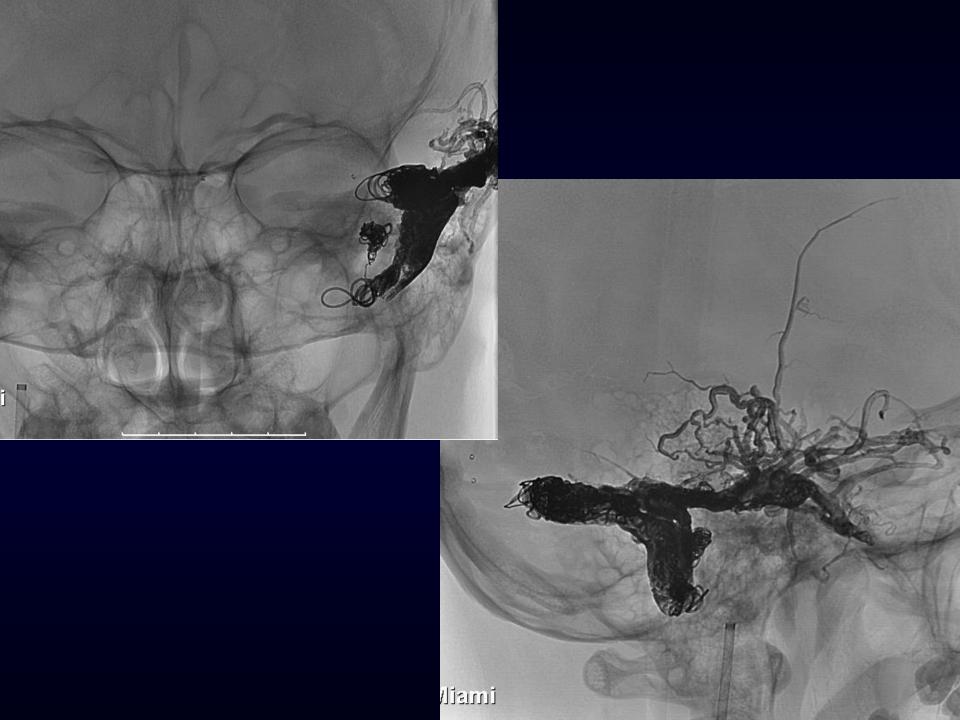


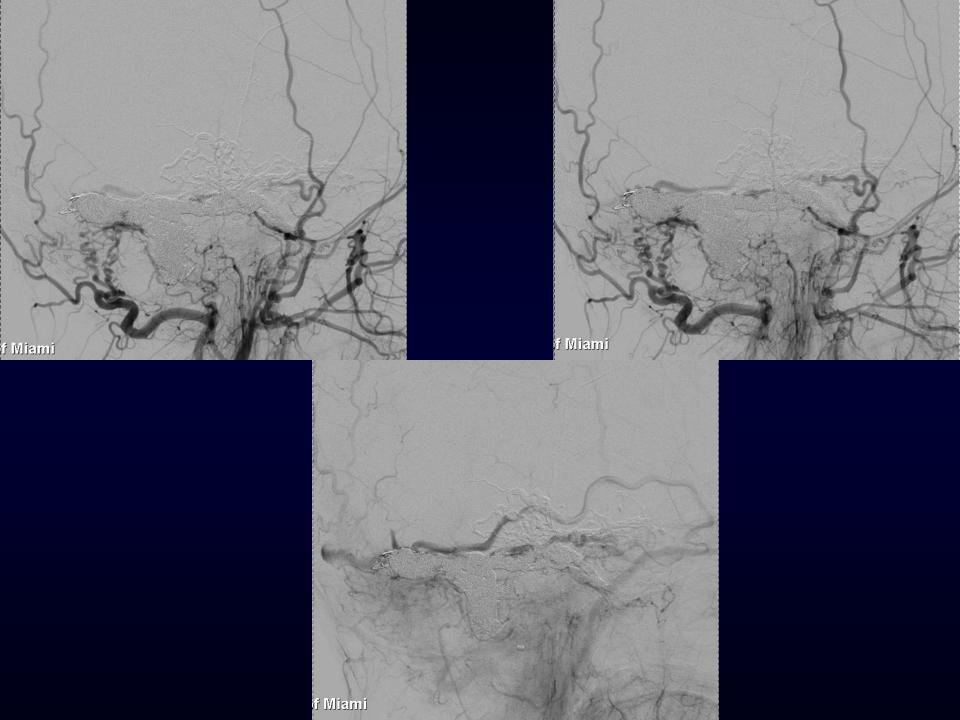


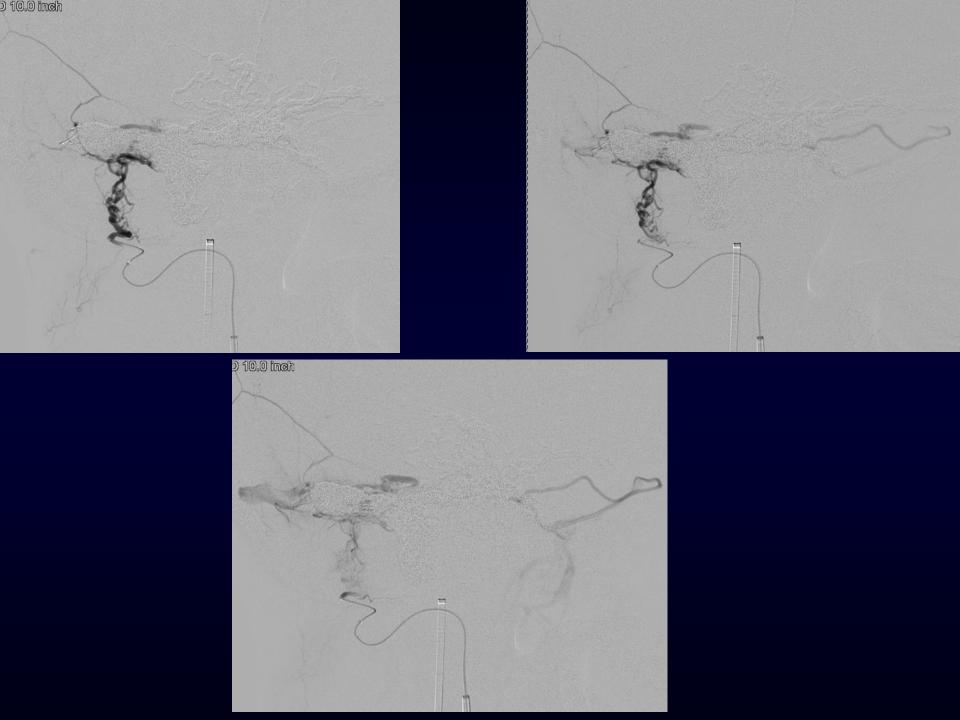


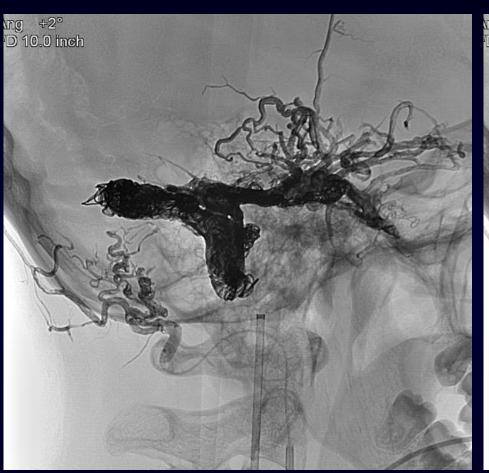






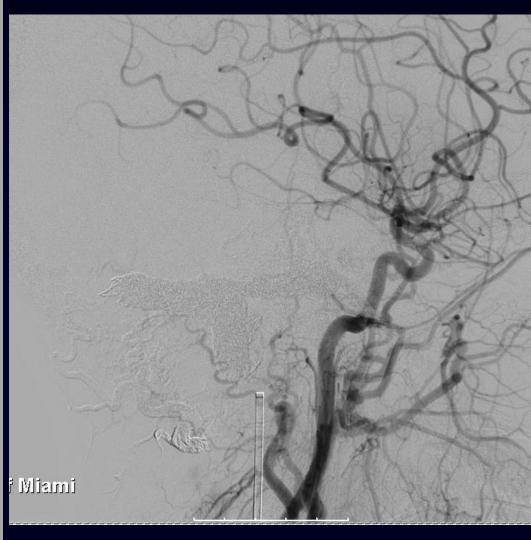


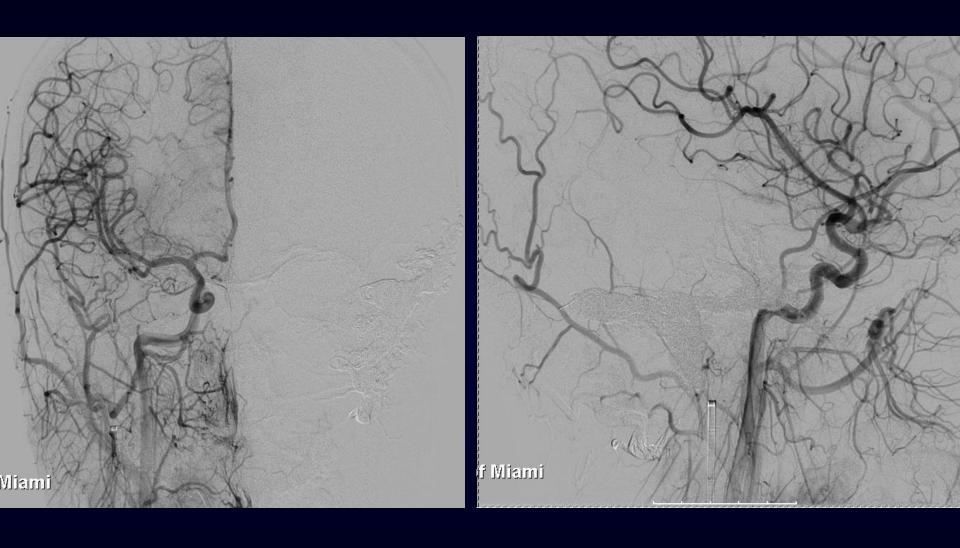


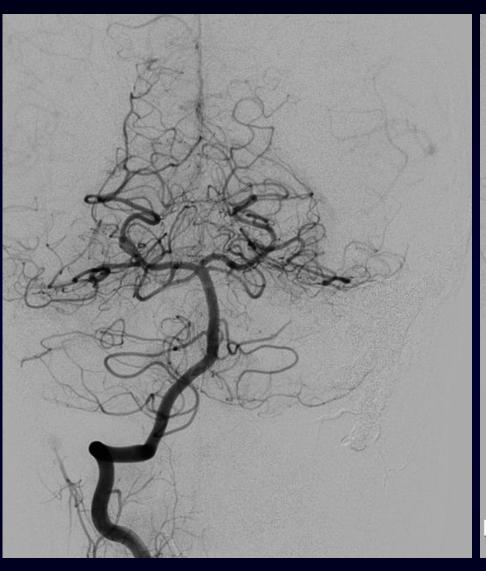




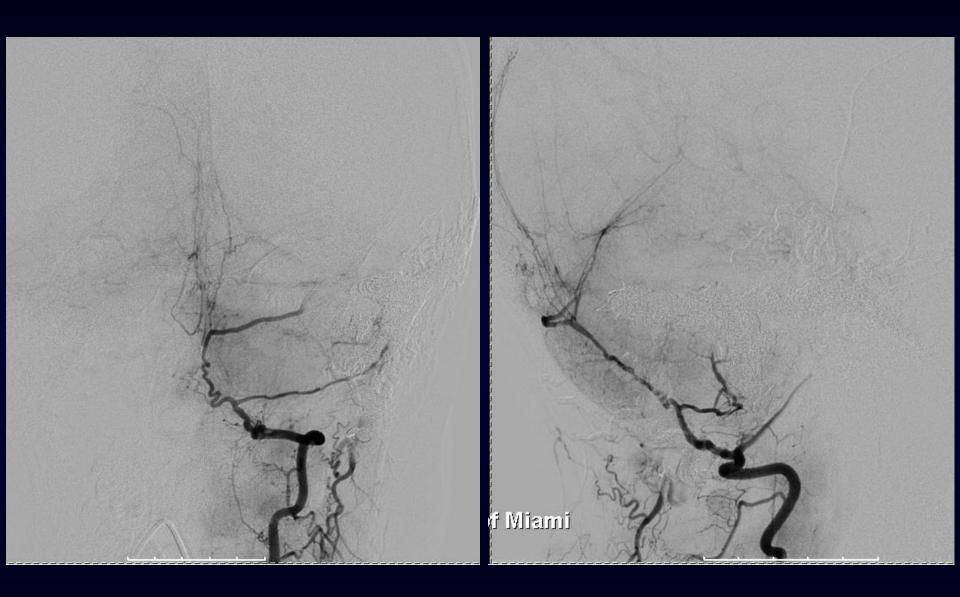










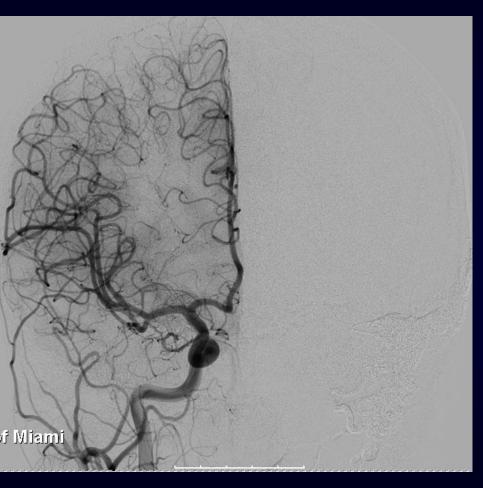


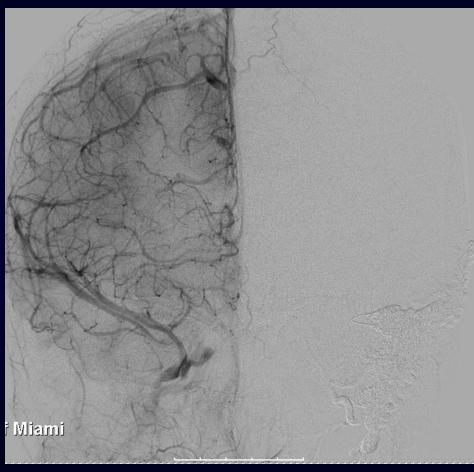




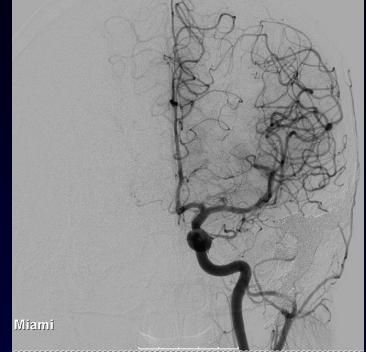


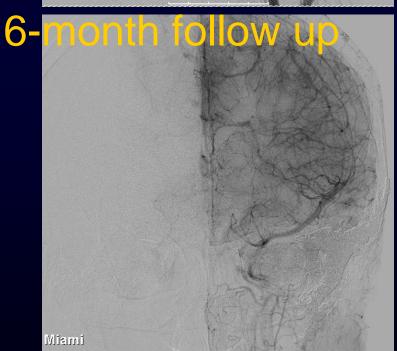
6-month follow up





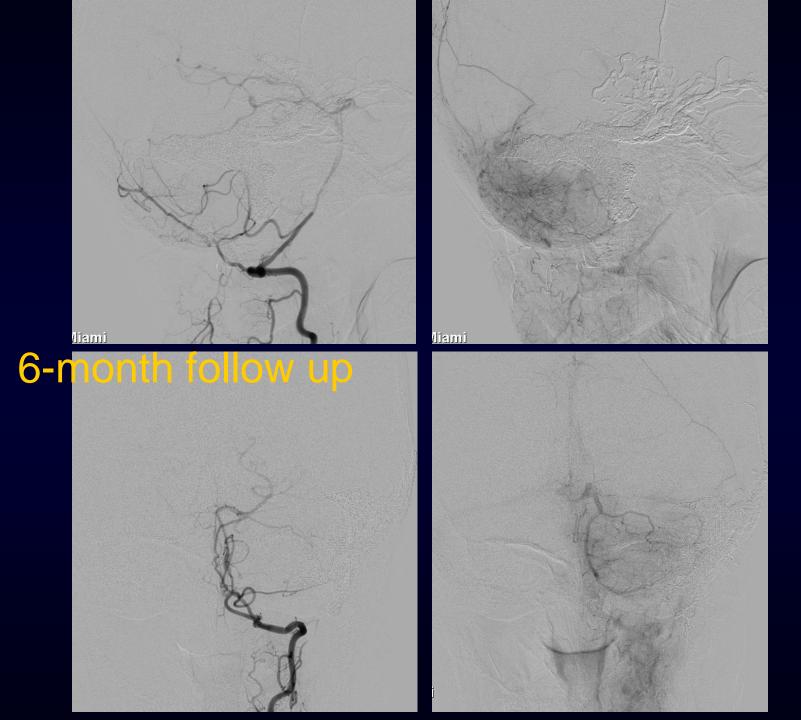




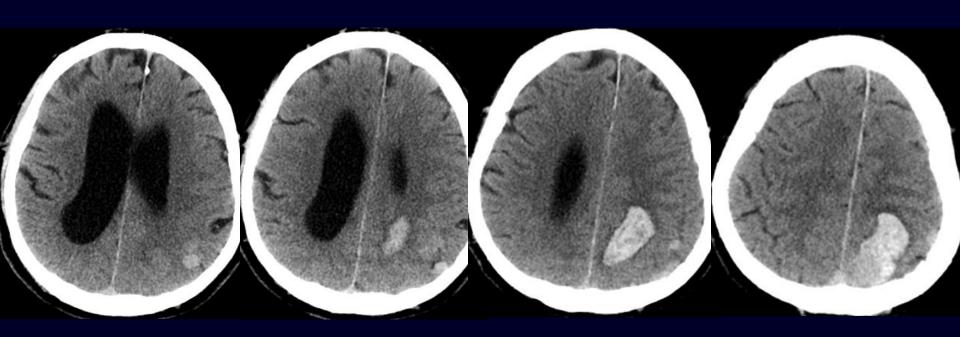


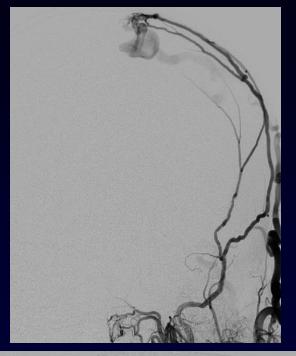




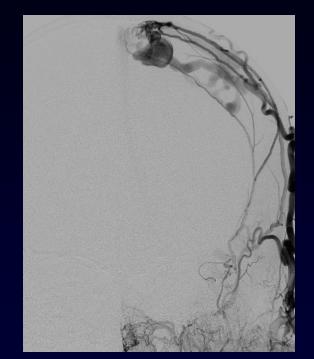


61 M presenting with HA and right side weakness

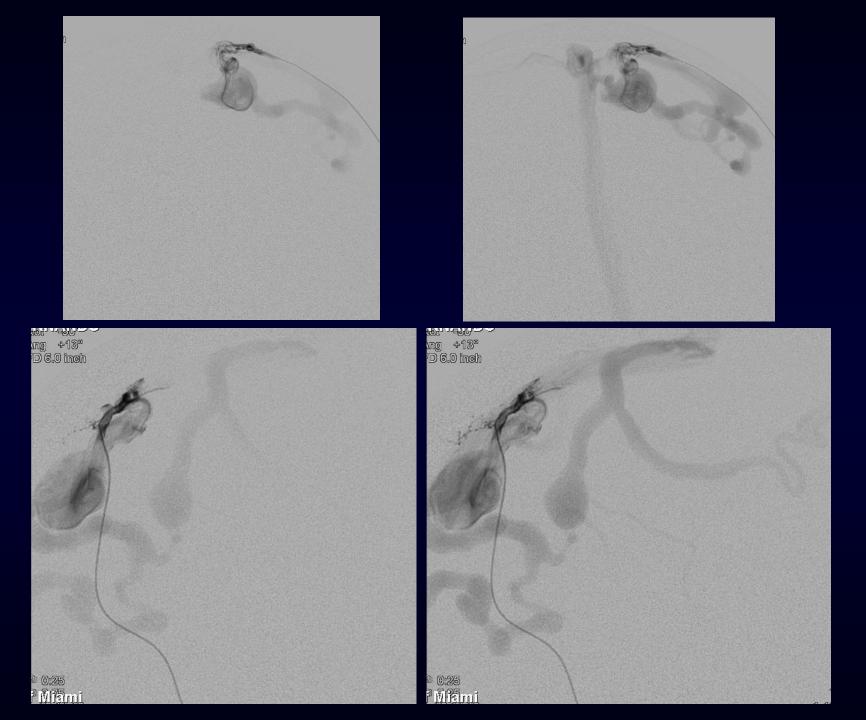






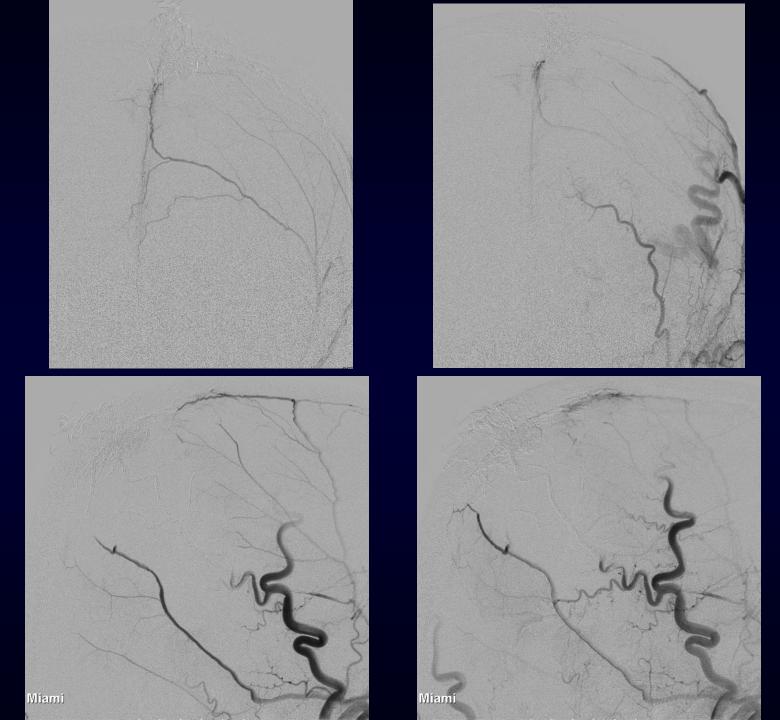




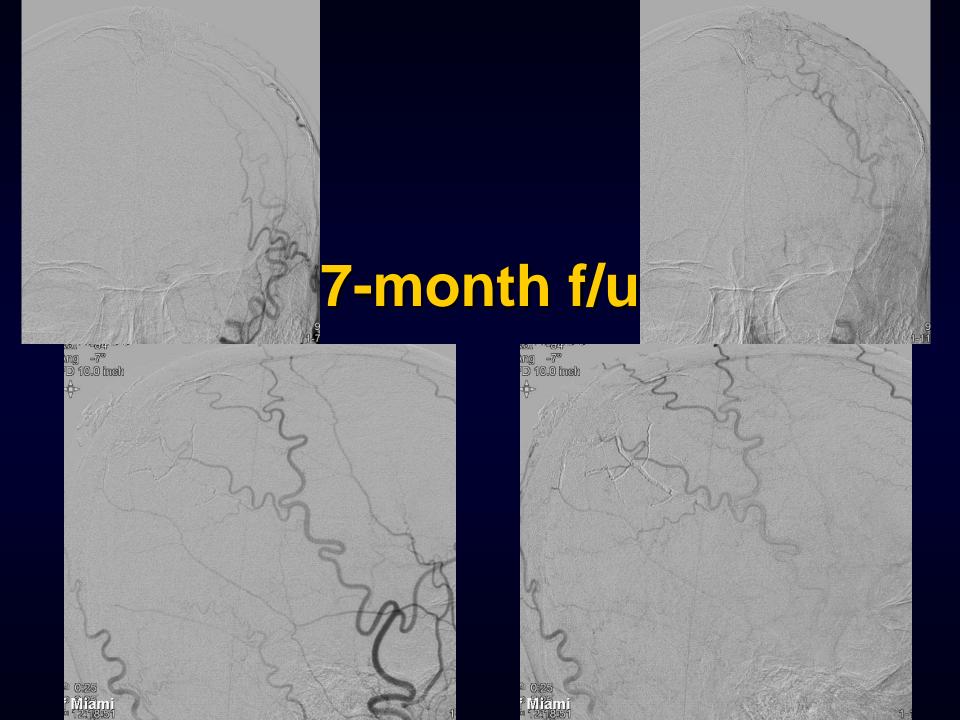




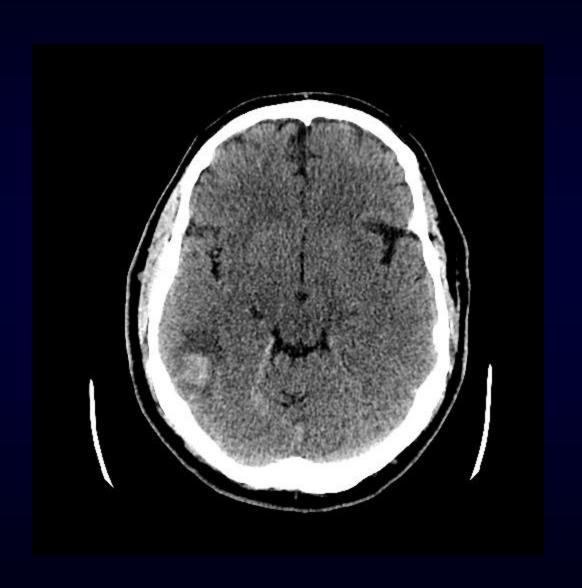


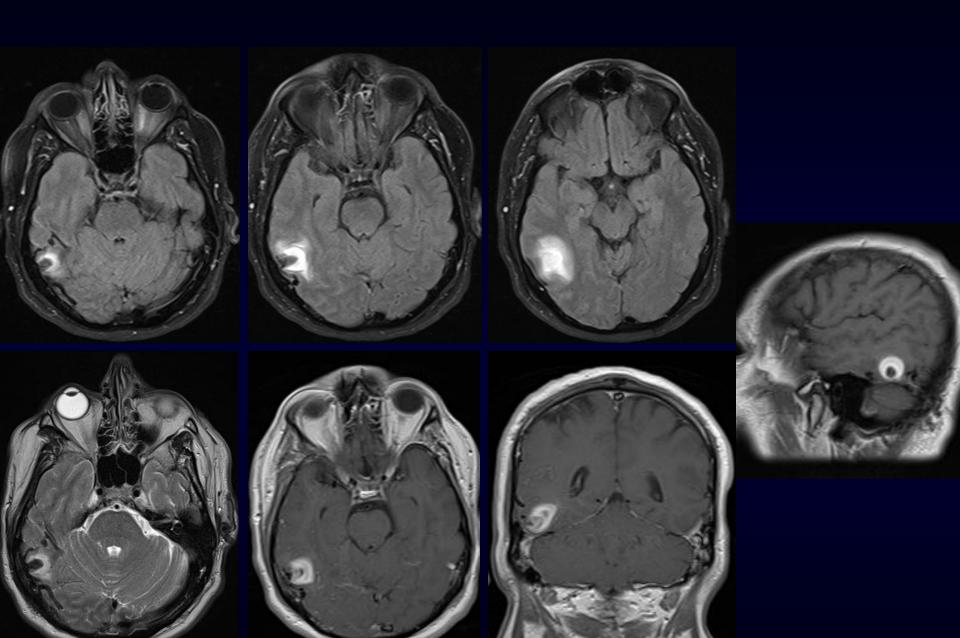


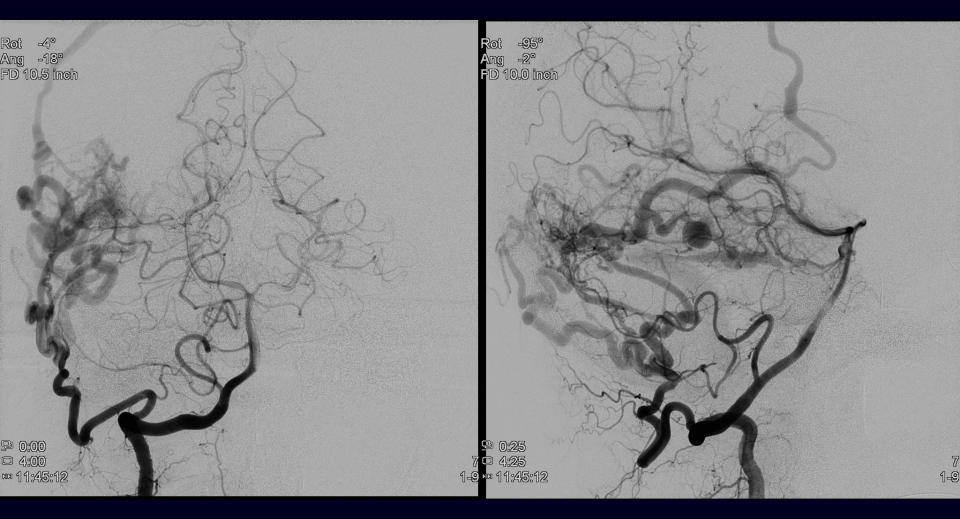


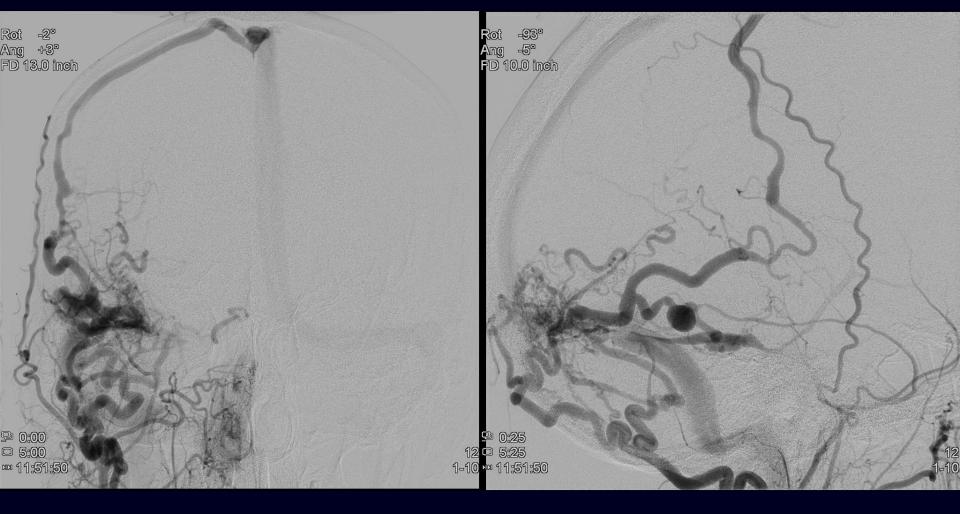


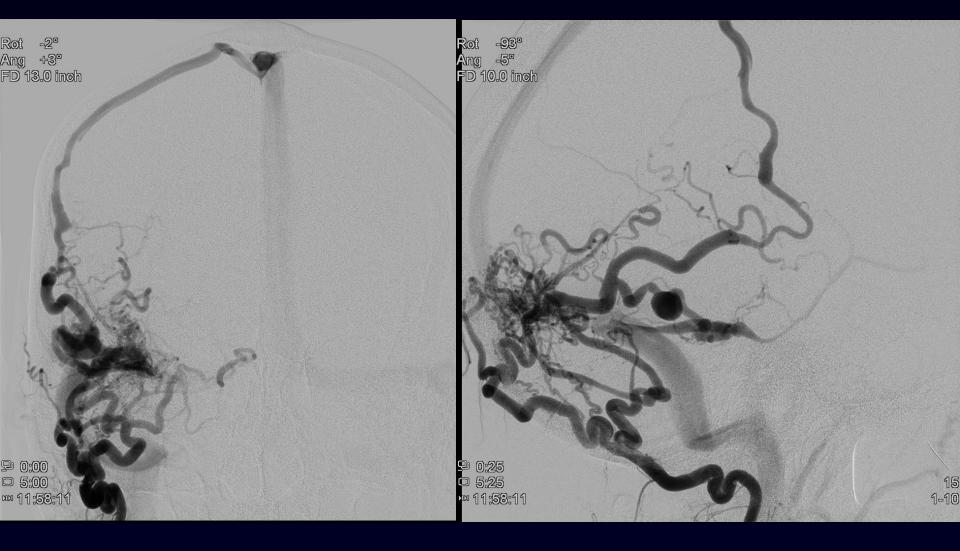
62 M presenting with partial seizures

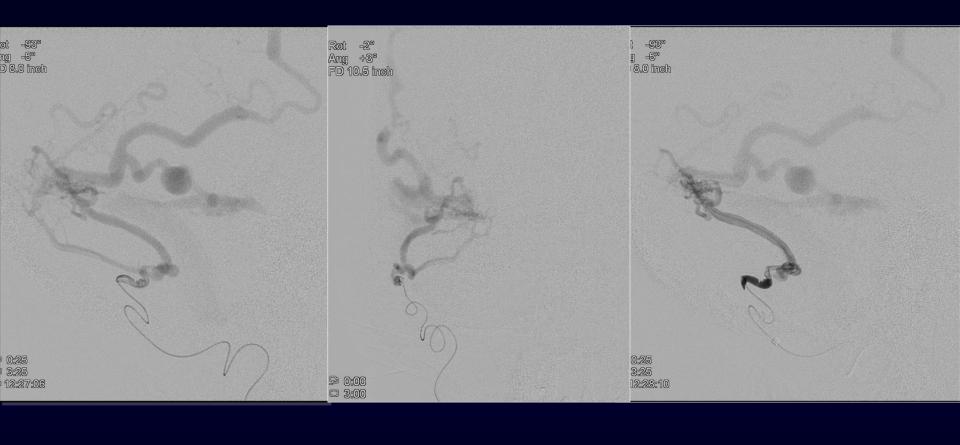


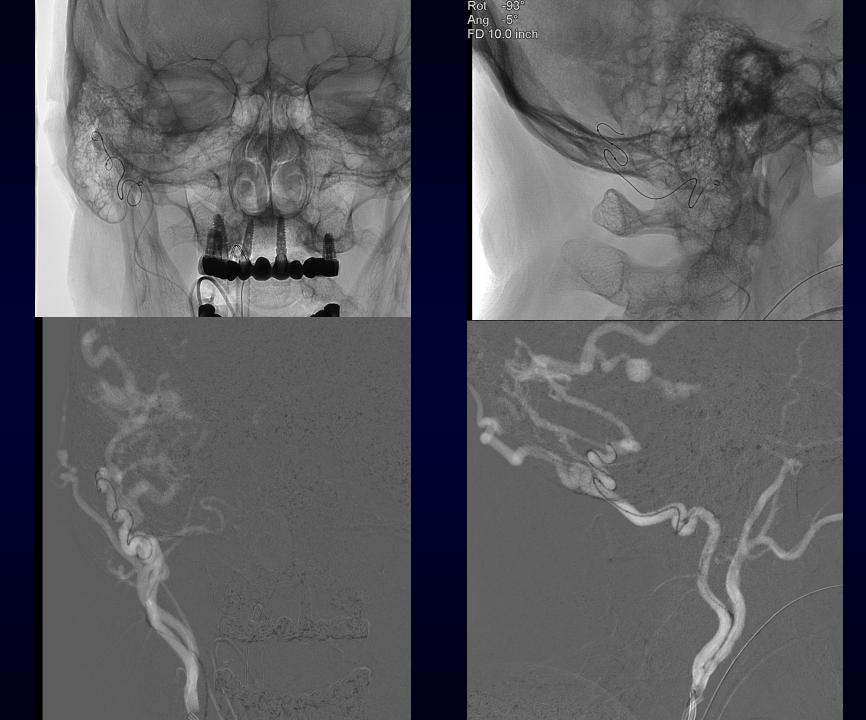


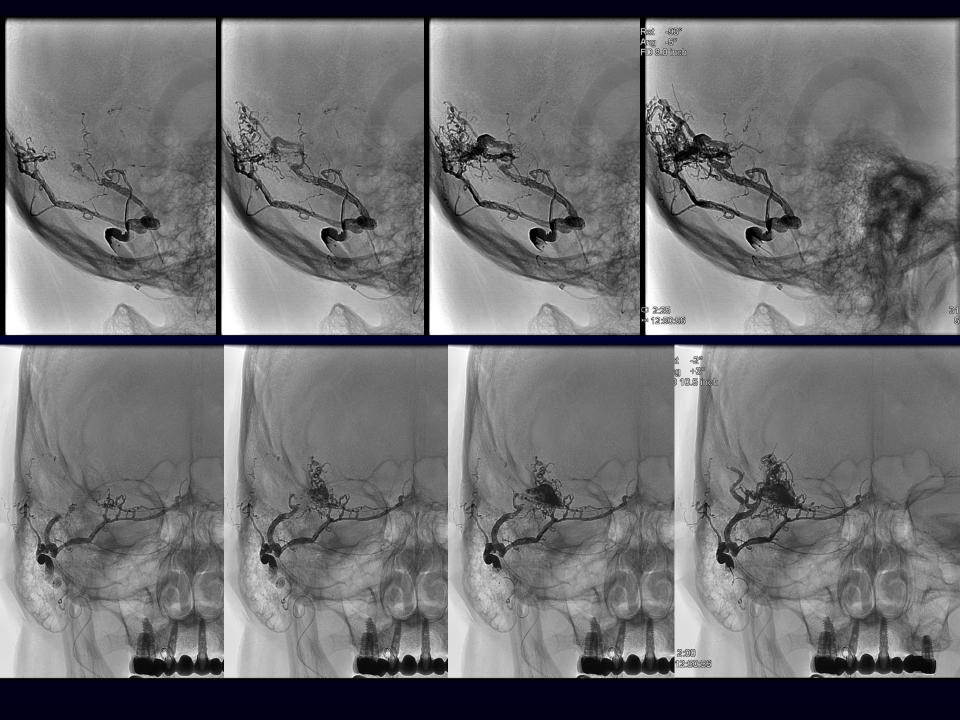


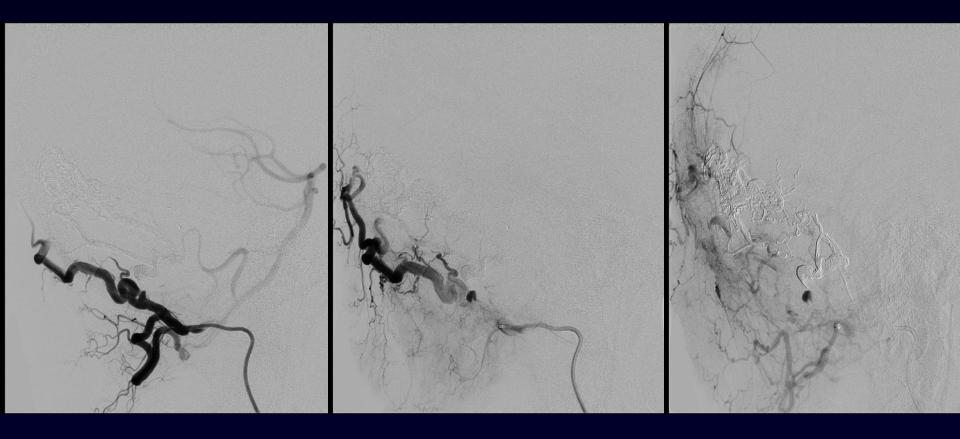


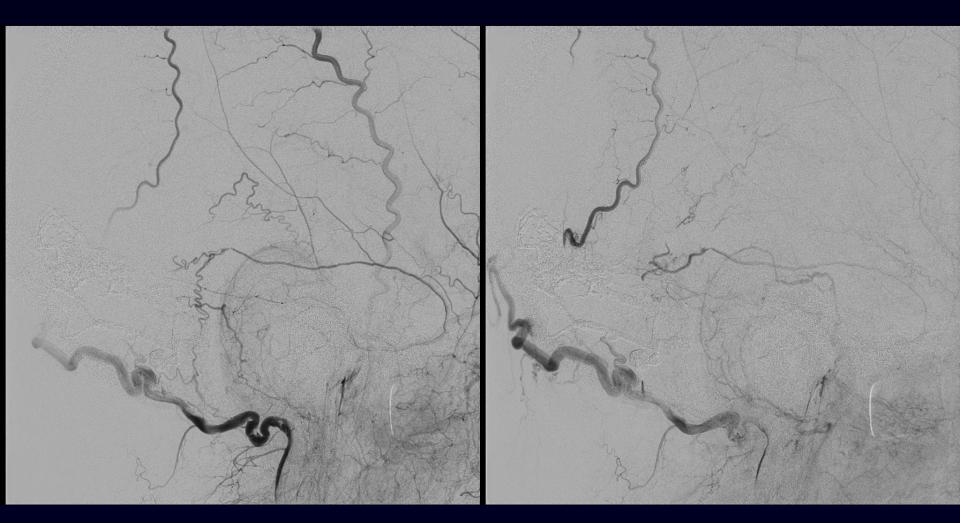


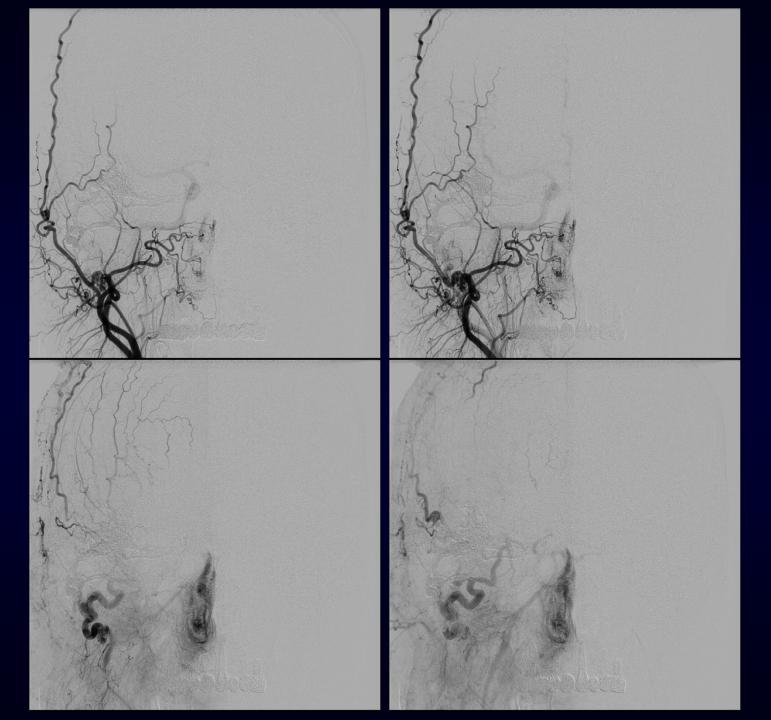


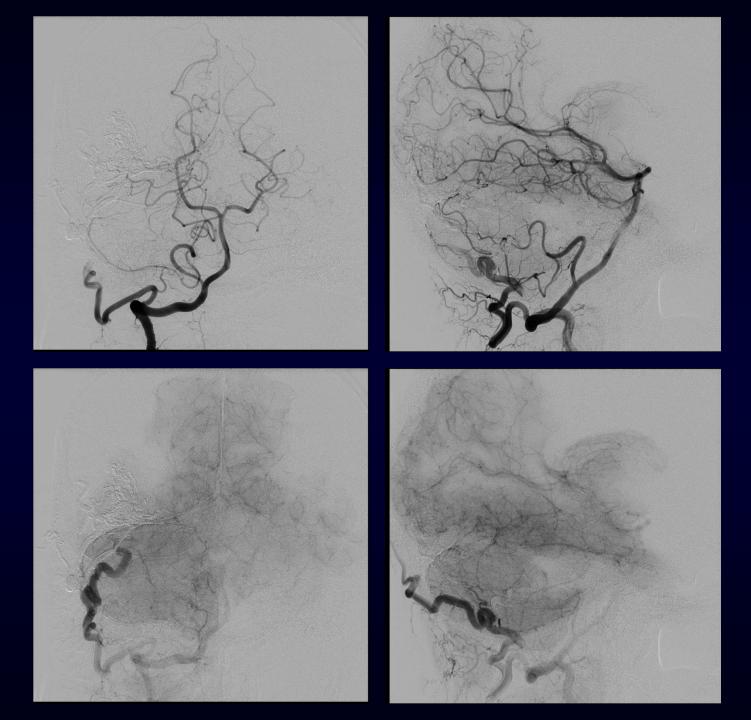




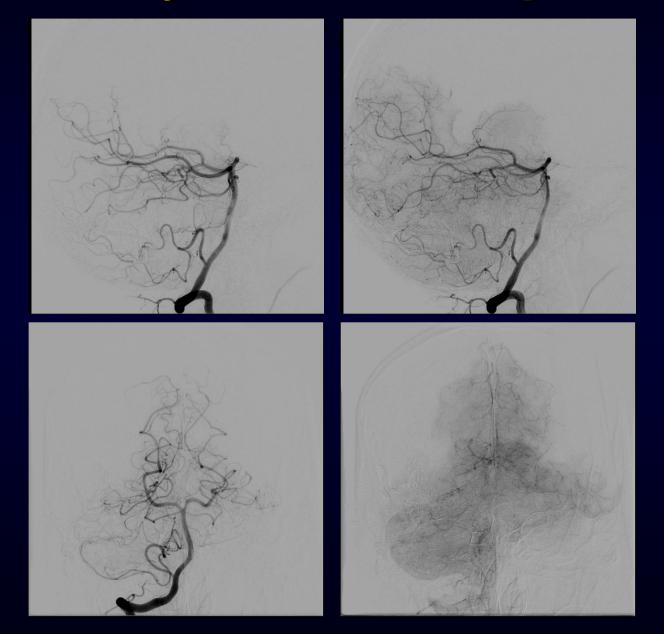




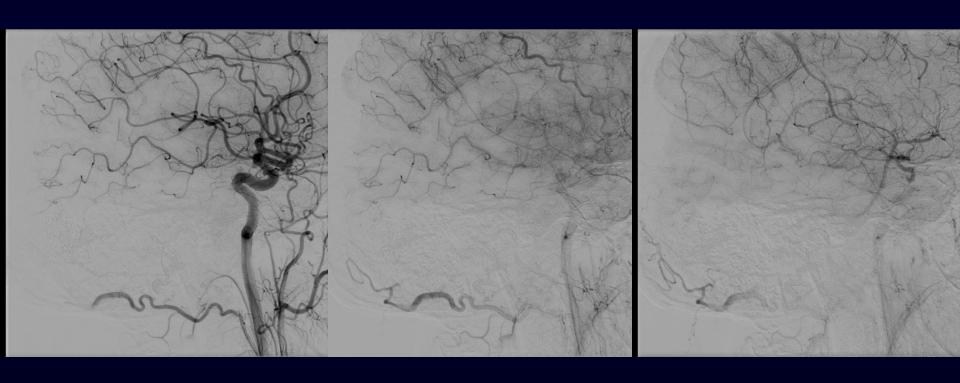




1-year follow up



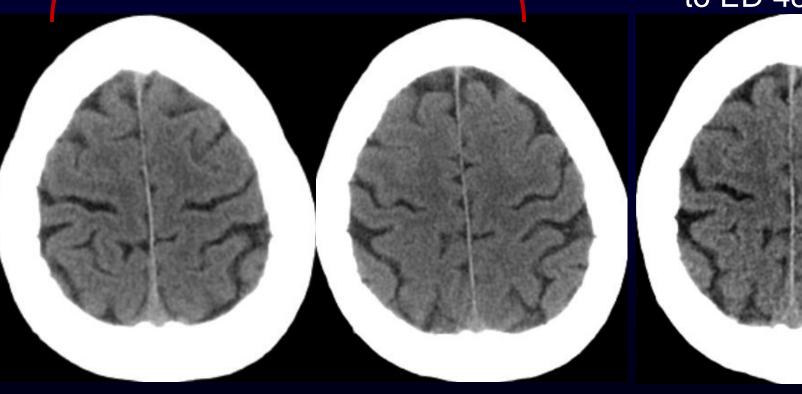
1-year follow up

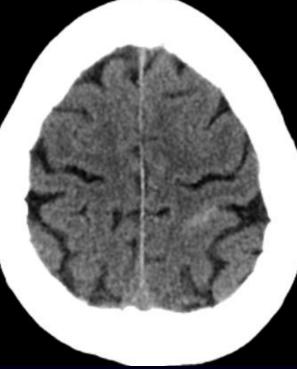


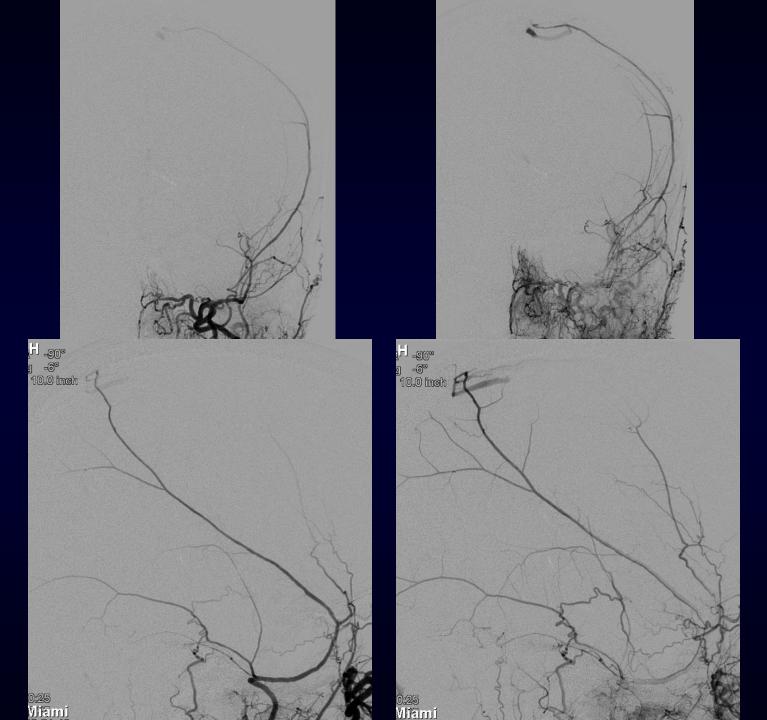
62 yo F presenting to ED with sudden onset severe HA

CT at initial presentation

HA continue to get worse; pt returns to ED 48h later



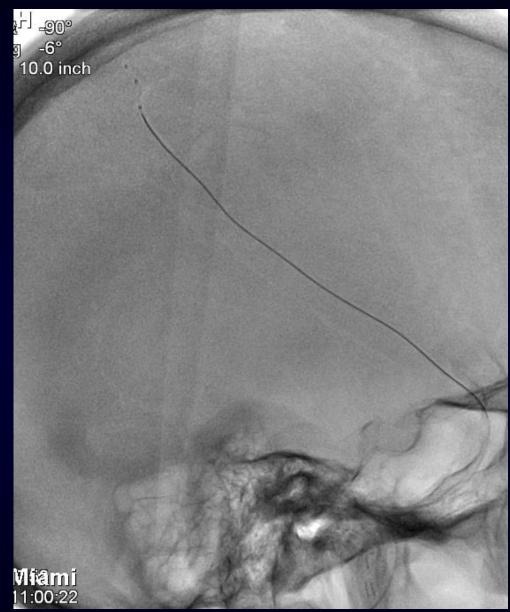


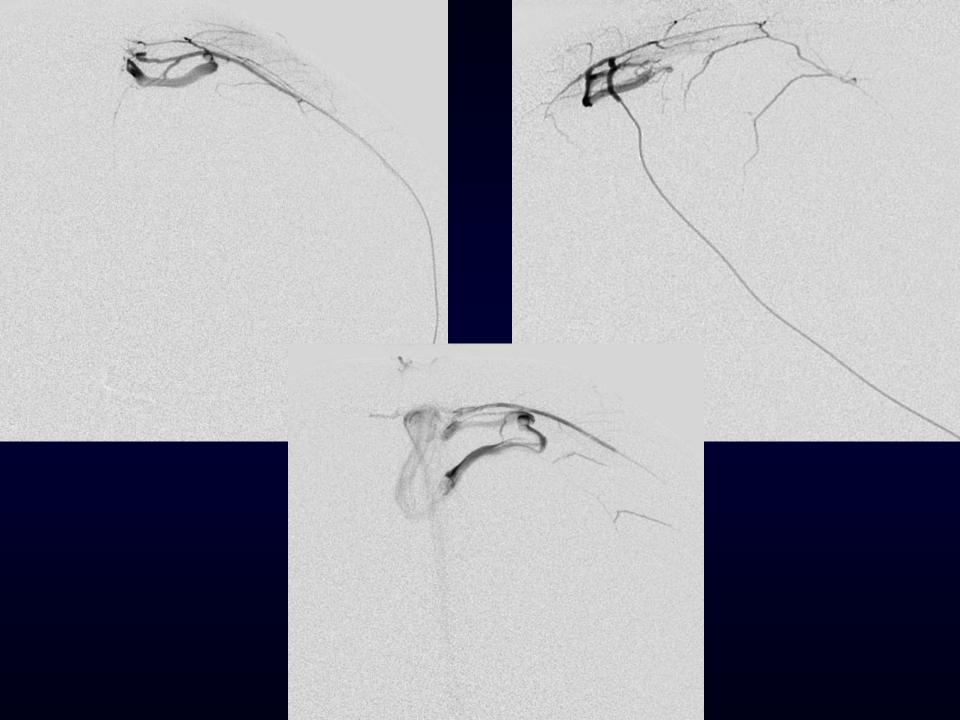


№ A; 0.79 mm

B: 0.79 mm

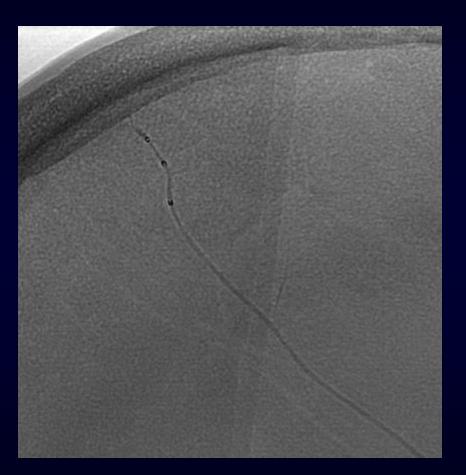


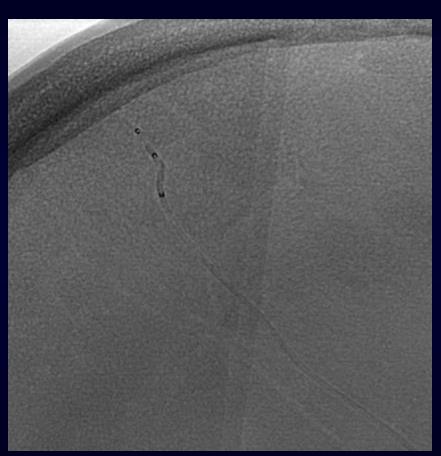


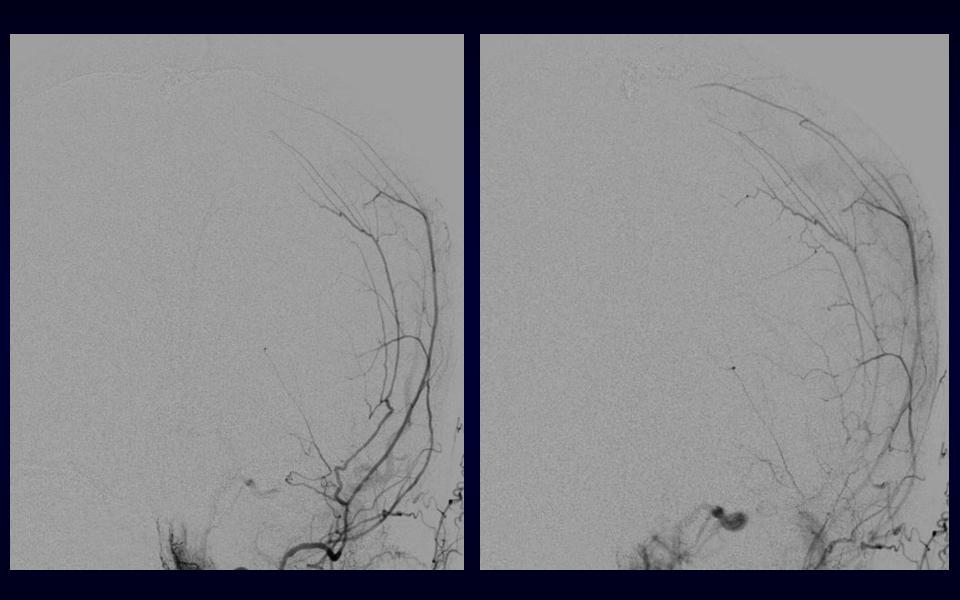


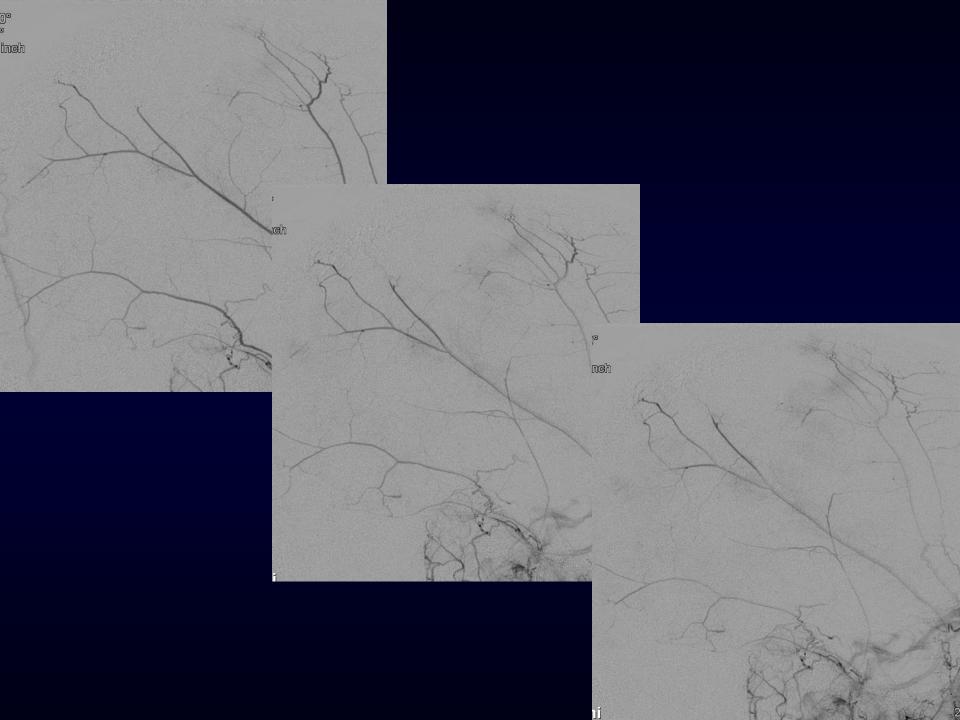
Pre-Inflation

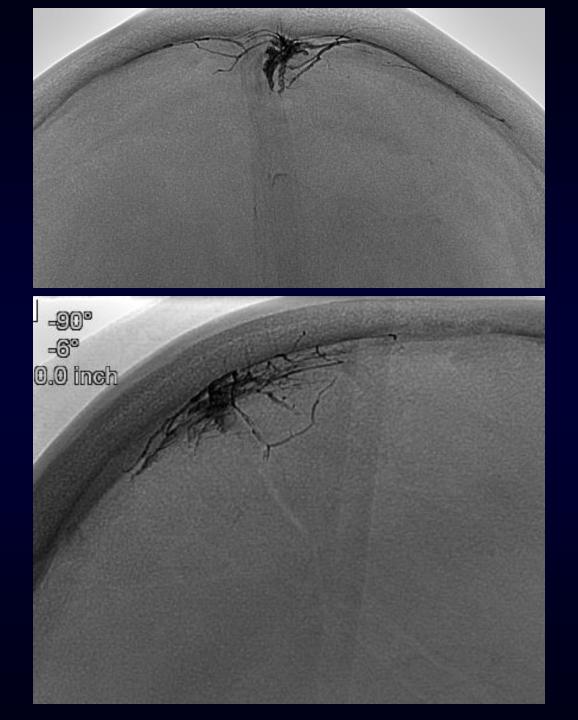
Post-Inflation



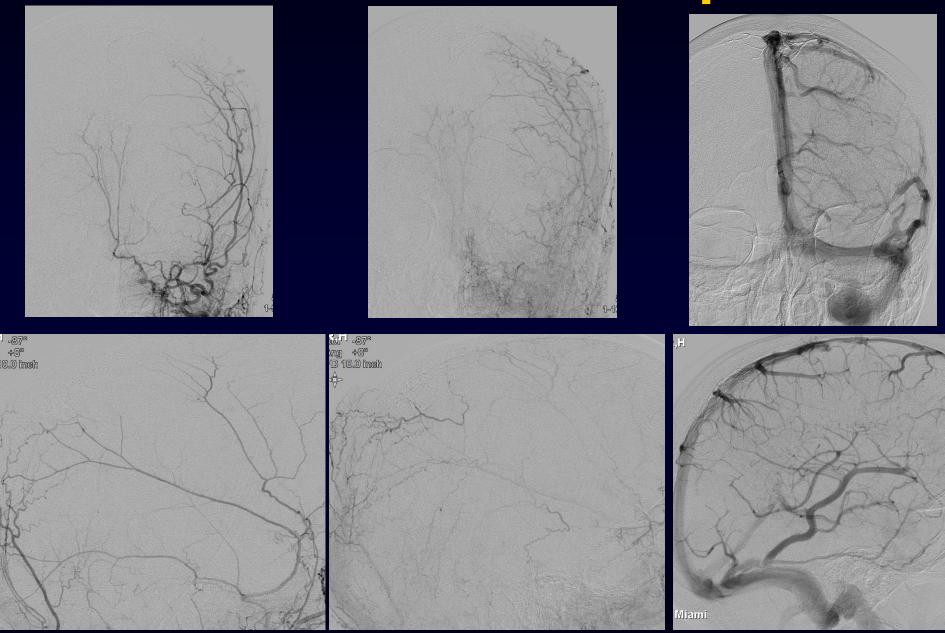






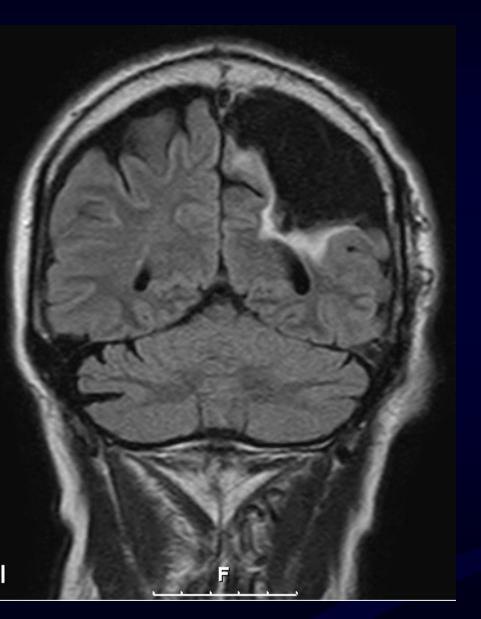


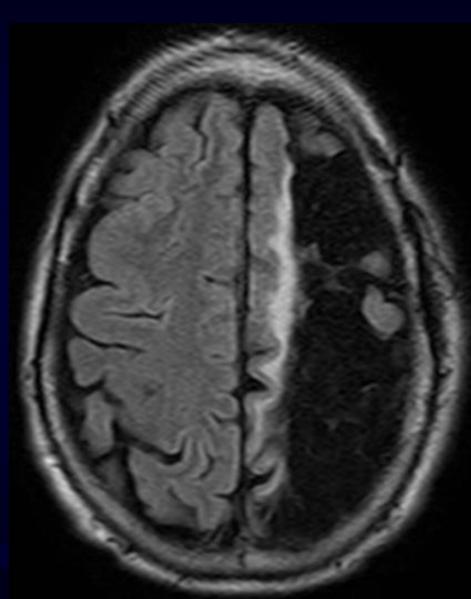
4-months follow up

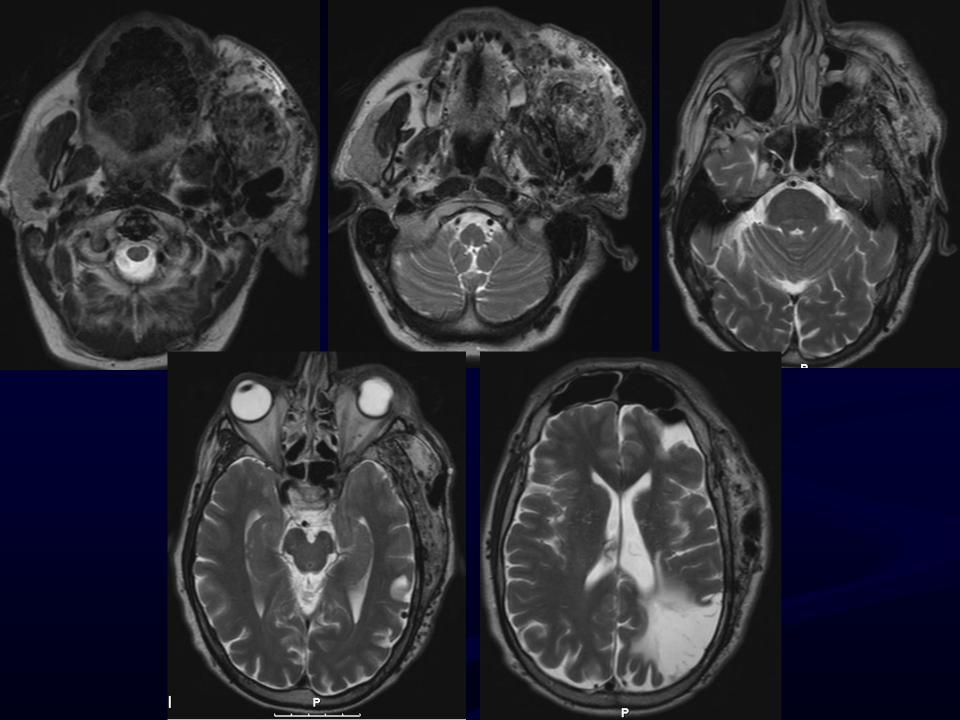


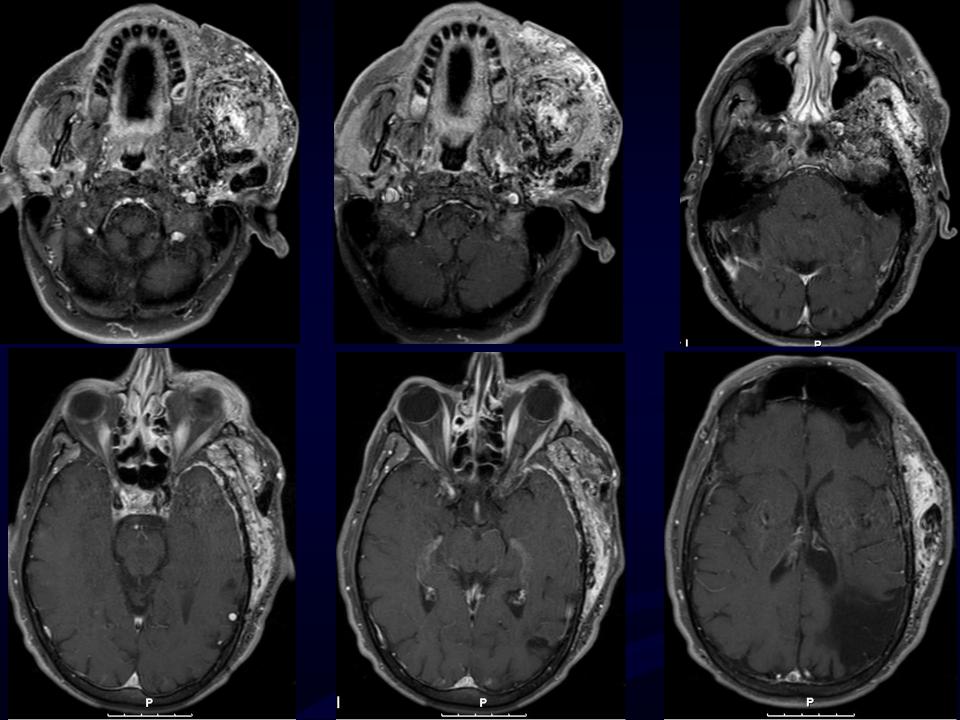
MEN 60S KNOWN LEFT CRANIOFACIAL AVM FOR LAST 45 YEARS - MULTIPLE EMBOLIZATION SESSIONS PRESENTING TO THE OFFICE WITH 2 EPISODES OF BLEEDING THROUGH THE SKIN IN THE LEFT CHEEK AREA

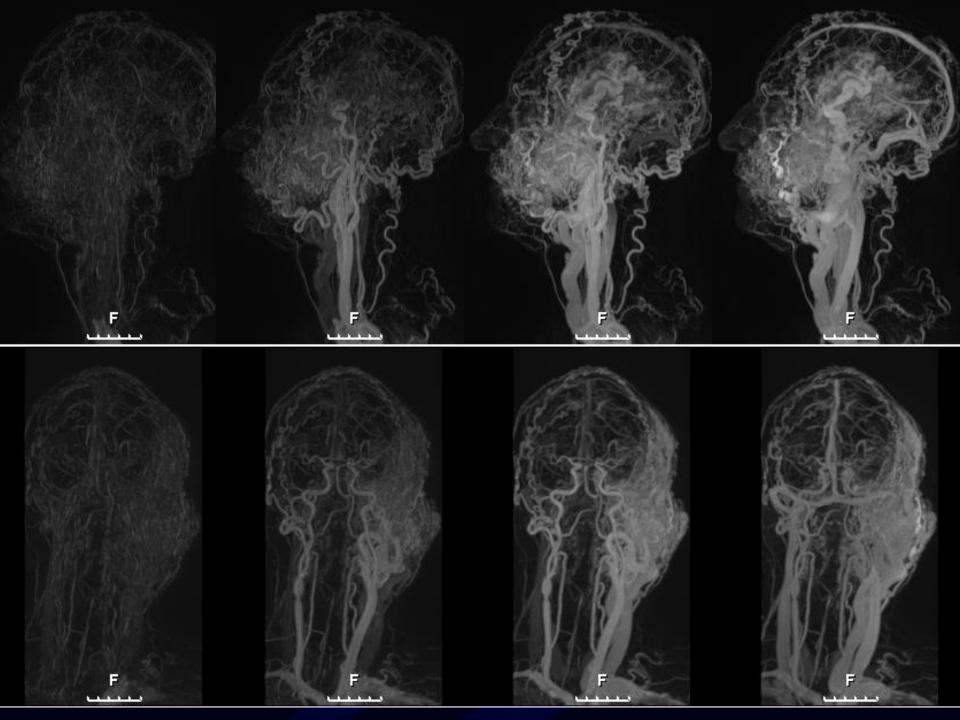
RESULT OF EMBOLIZATION IN 1983

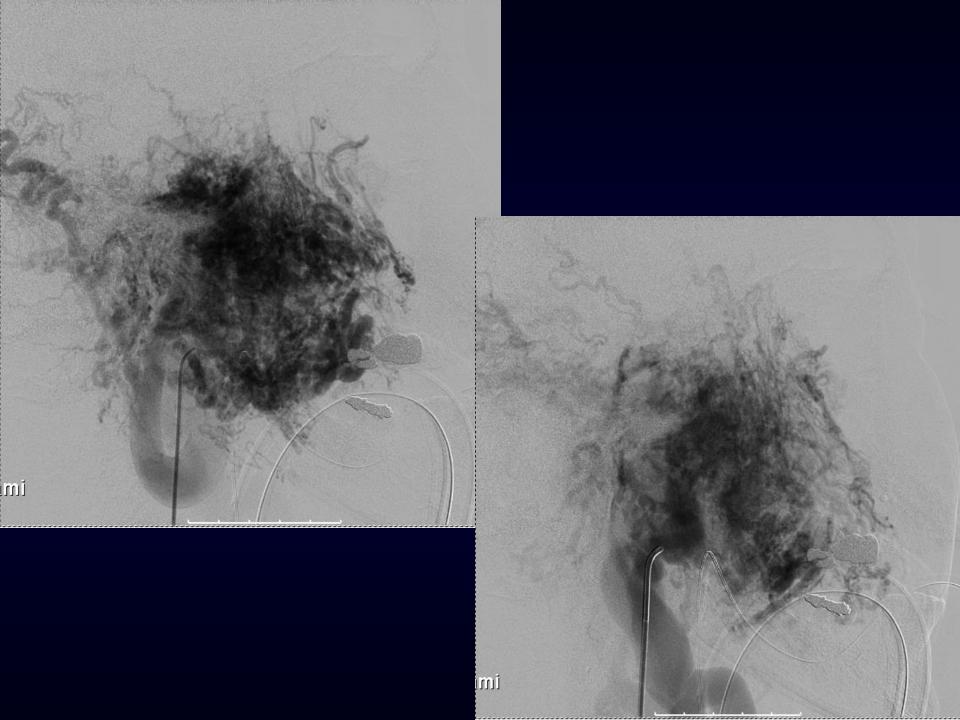


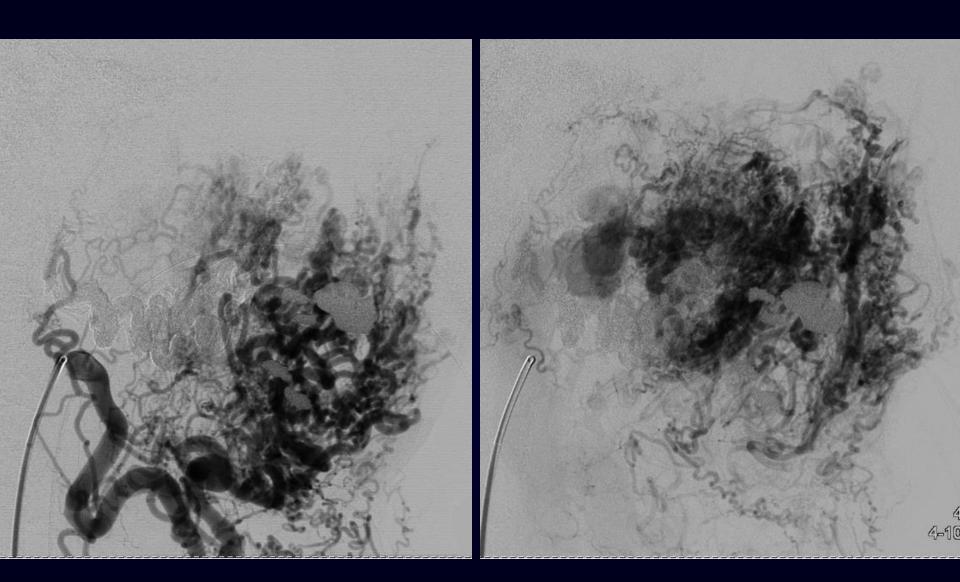




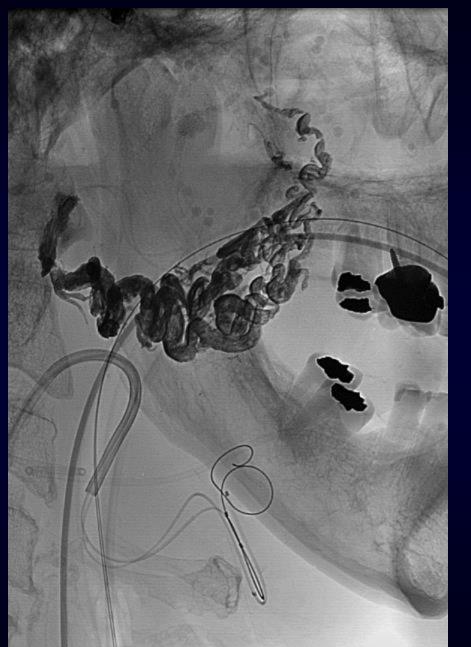














Left Facial Artery

