

Case Study 1

Patient

- 78-year-old right-handed man
- Lives at home independently with his wife

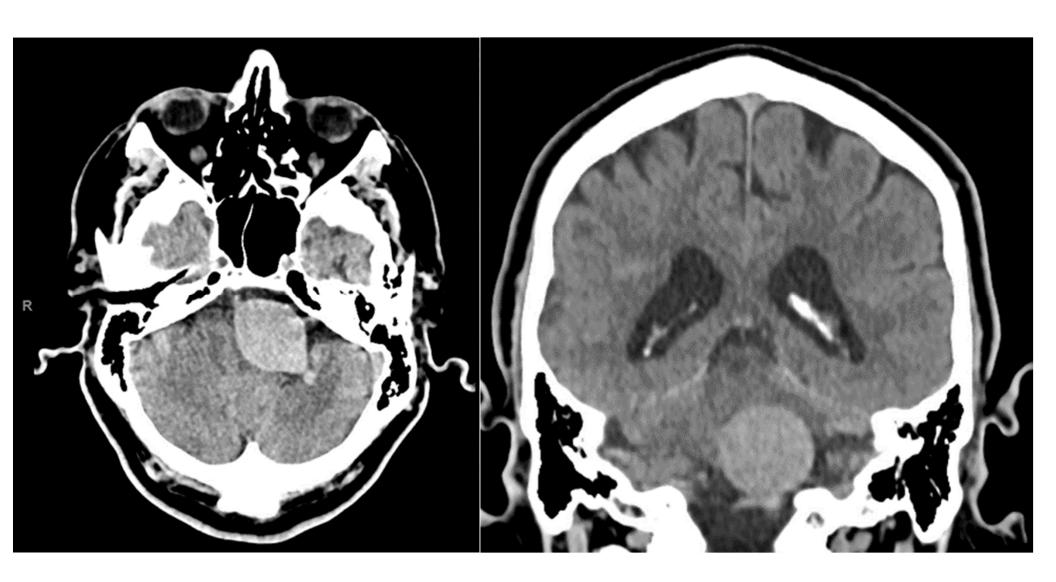
Past Medical History:

- Coronary artery disease
- Hyperlipidemia
- Hypertension
- Atrial Fibrillation

Presentation

- EMS called initially after an episode of incontinence, weakness and intermittent slurred speech
- On arrival to the outside facility physical examination was notable for right sided tongue deviation and generalized weakness. No focal weakness, speech disturbance or visual changes noted
- A stroke alert was initiated at the outside facility and a noncontrast head CT scan was complete
- NIHSS: 0

Thoughts on differentials?



Transfer to Essentia Health Fargo

- Further clinical information:
 - Has had frequent falls and gait has been unsteady
 - Has regular headaches at base of skull
 - Denies any seizure activity
 - Does take Eliquis for atrial fibrillation

CT Angio Head/Neck



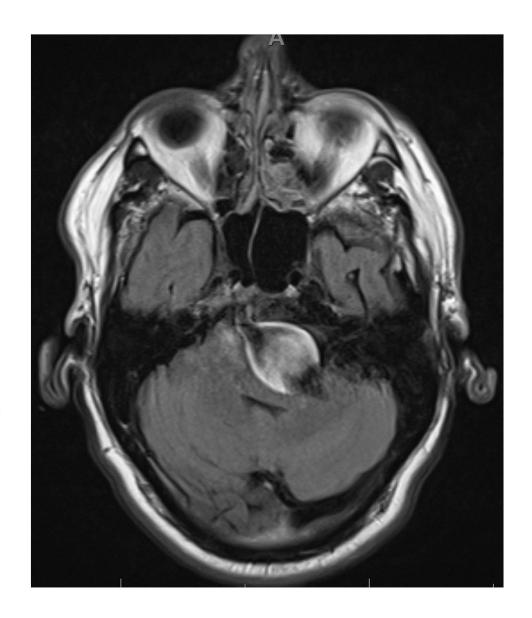
Giant Basilar
Artery
Aneurysm
3.3cm



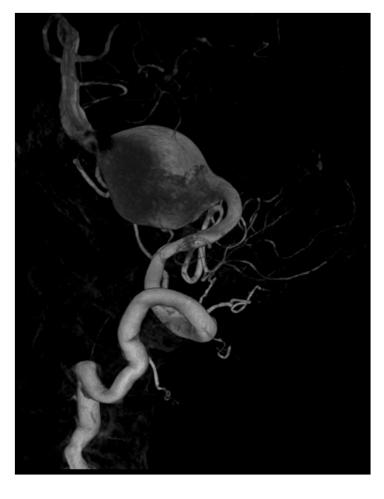
MRI Brain - FLAIR

IMPRESSION:

- 1. No evidence of acute or subacute infarction.
- 2. Large basilar artery aneurysm, best evaluated on recent prior CT angiogram. This causes rightward mass effect on the pons and medulla with possible signal abnormality at the right pontomedullary junction.
- 3. The large basilar aneurysm causes mass effect on the fourth ventricle with questionable mild hydrocephalus.

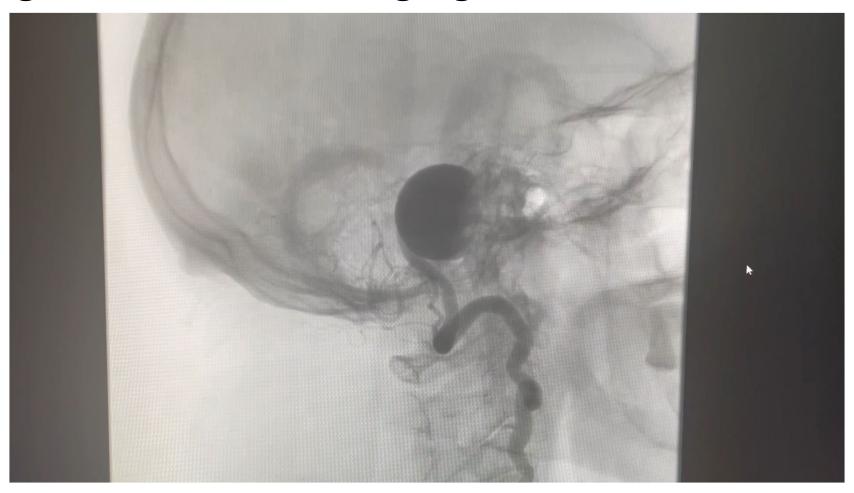


Diagnostic Cerebral Angiogram

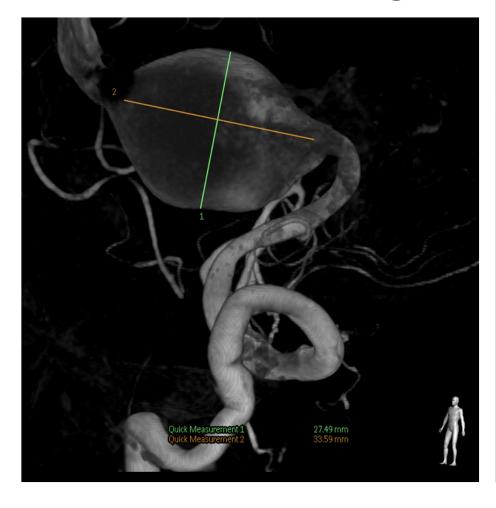


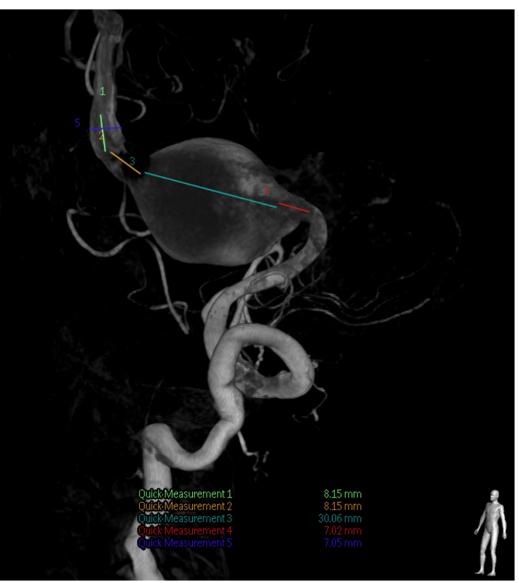


Diagnostic Cerebral Angiogram



Treatment Planning





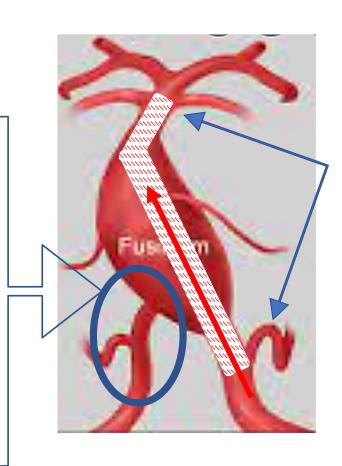
Pipeline Placement

- **❖**5 mm x 35mm
- **❖**5 mm x 16 mm
- ❖5 mm x 30 mm (3)
- **❖**5 mm x 25 mm
- **❖**5 mm x 20 mm



Other Consideration...

This a
vertebrobasilar
junction
aneurysm. The
right vertebral
artery is still
feeding the
aneurysm... mrc



Goal Achieved: Flow diversion through the aneurysm

2nd Stage of Treatment



Occlusion of the right vertebral artery successful after coil embolization





Outcome

- Discharged home with Home Health Services
- Discharged on Eliquis and Plavix
- Follow-up in clinic 1 month later

Thank You