

Case 5:

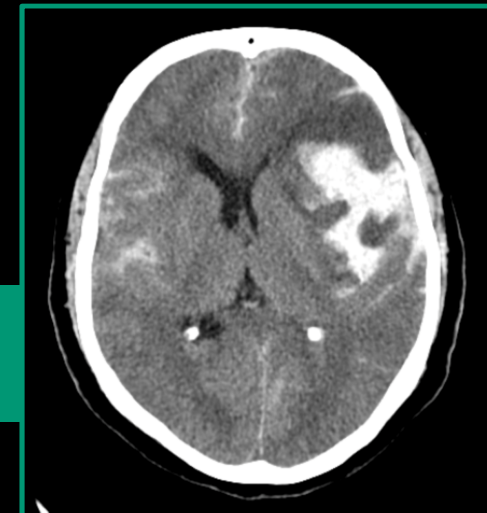
Balloon Assisted Coiling

Balloon-assisted coiling (BAC) of cerebral aneurysms was first described by Moret et al. in 1997, and has since become a well-established technique for the endovascular treatment of wide-neck aneurysms. The balloon is inflated across the neck of the aneurysm until enough coils have been deployed to create a stable coil mass within the aneurysm. The balloon is then deflated and removed. The balloon can also be used to stabilize the coiling microcatheter within the aneurysm and protect the origins of branch vessels arising from the aneurysm neck. Over the decades, there have been several advances in balloon catheter technology like from single lumen catheter attached balloon to a dual-lumen catheter attached to a compliant balloon that accommodates a 0.014 inch microwire, making the procedures more safer.

67 YEAR OLD FEMALE

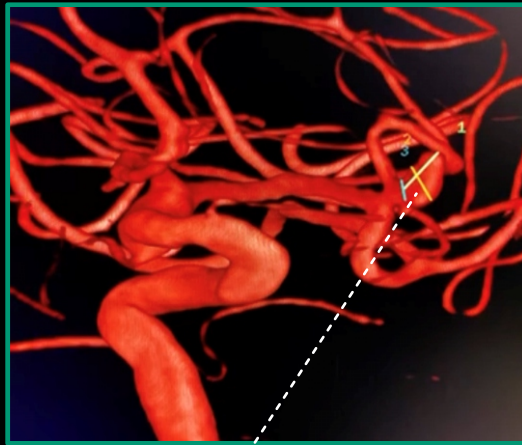
- Presented with acute onset headache vomiting followed by loss of consciousness and right sided weakness
- Intubated at near hospital and shifted for further treatment
- On examination - unconscious, right hemiplegia grade 0, spontaneous movement on left side
- CT scan showed diffuse SAH left more than right with left fronto-temporal bleed
- She underwent DSA which showed wide necked left MCA bifurcation aneurysm
- She underwent balloon assisted coiling for left MCA bifurcation wide necked aneurysm

Diffuse SAH left more than right
with left fronto-temporal bleed

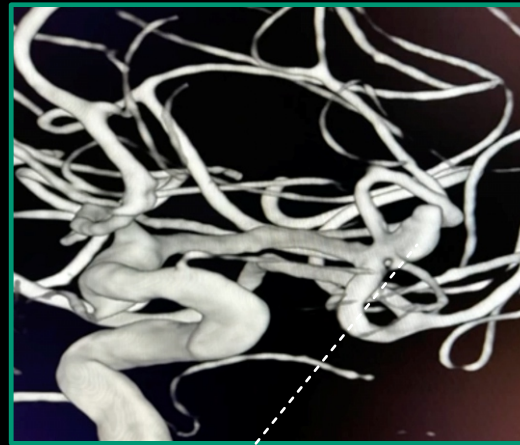




Scan/click to view
Cath Images

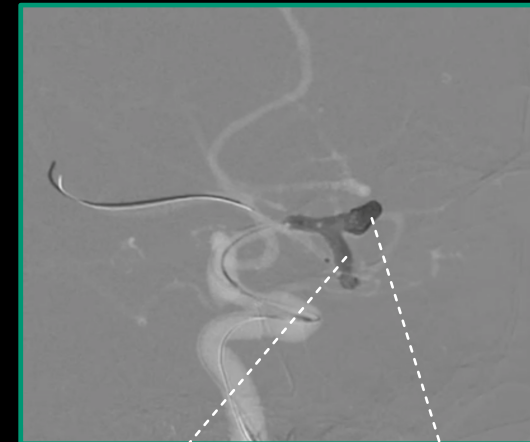


Left MCA bifurcation
wide necked aneurysm



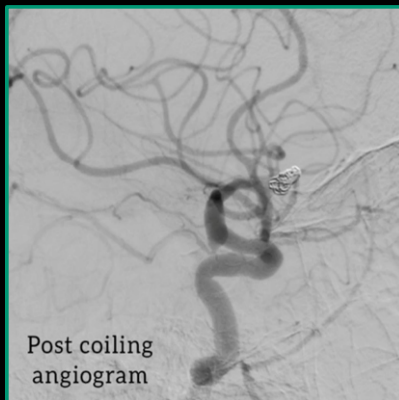
Left MCA bifurcation
wide necked aneurysm

Balloon Assisted Coiling



Balloon

Coil Mass



Post coiling
angiogram



Post Coiling Angiogram
complete obliteration
of the aneurysm and
all branches of MCA
filling with good run off



- Patient stabilized and later improved gradually
- Underwent tracheostomy meanwhile
- Patient was discharged on 35th day with right hemiparesis
- 3 months follow up she has right hemiparesis with word finding difficulties and independent for most of her activities of daily living