



The case of three-stage embolisation of parietal AVM using ONYX after free embolus embolisation (1991)

Andrey Petrov

The Department of vascular neurosurgery, Russian Polenov Neurosurgical Institute of prof. A.L.Polenov branch of NWMIC of V.A.Almazov
St. Petersburg 2017

65 year old female patient.

Seizures type manifestation

**1991 the first procedure - embolisation
with free polysterol embolus.**

No MRI, DSA, CT control was presented.

Till 2014 patient was out of medical control.

In april 2014 after emotional distress -
seizure.

MRI, DSA - fully functioning AVM

42 cm

AVM

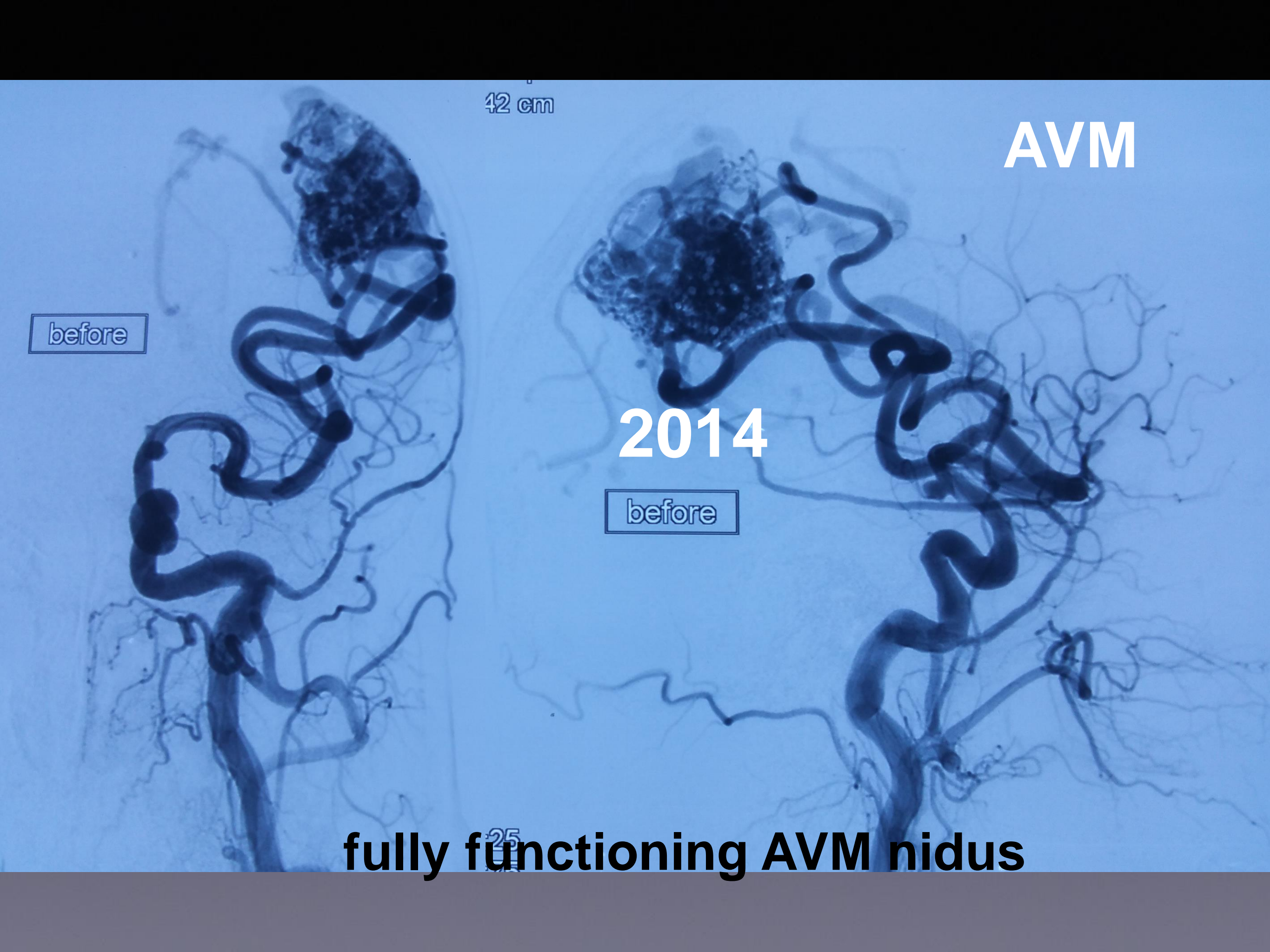
before

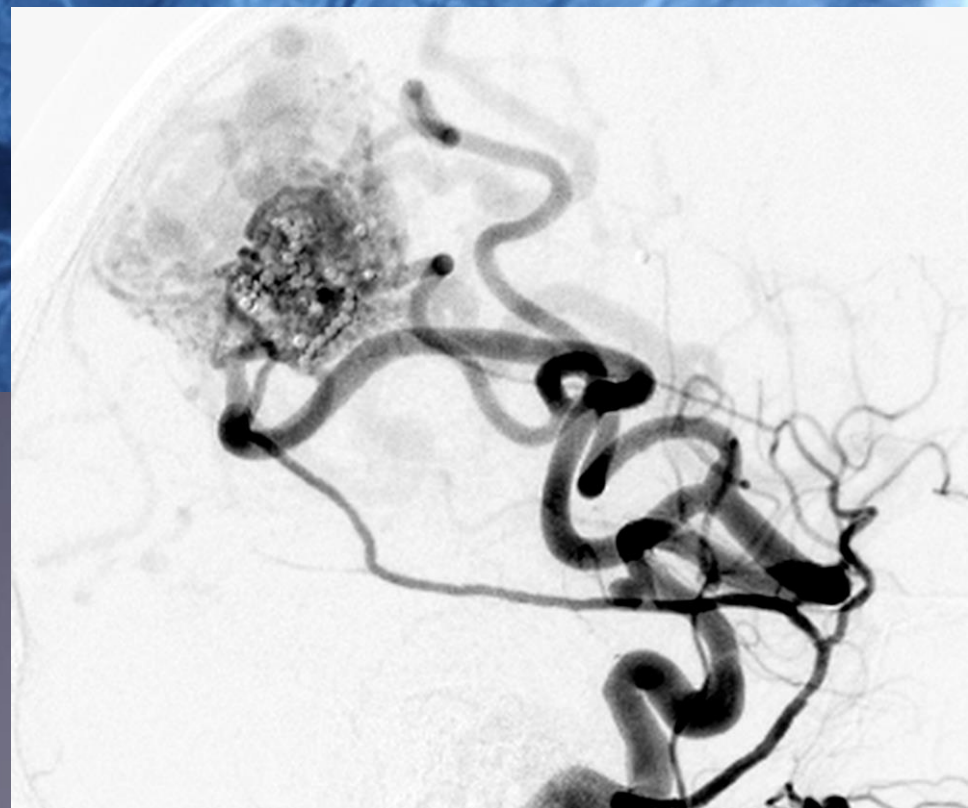
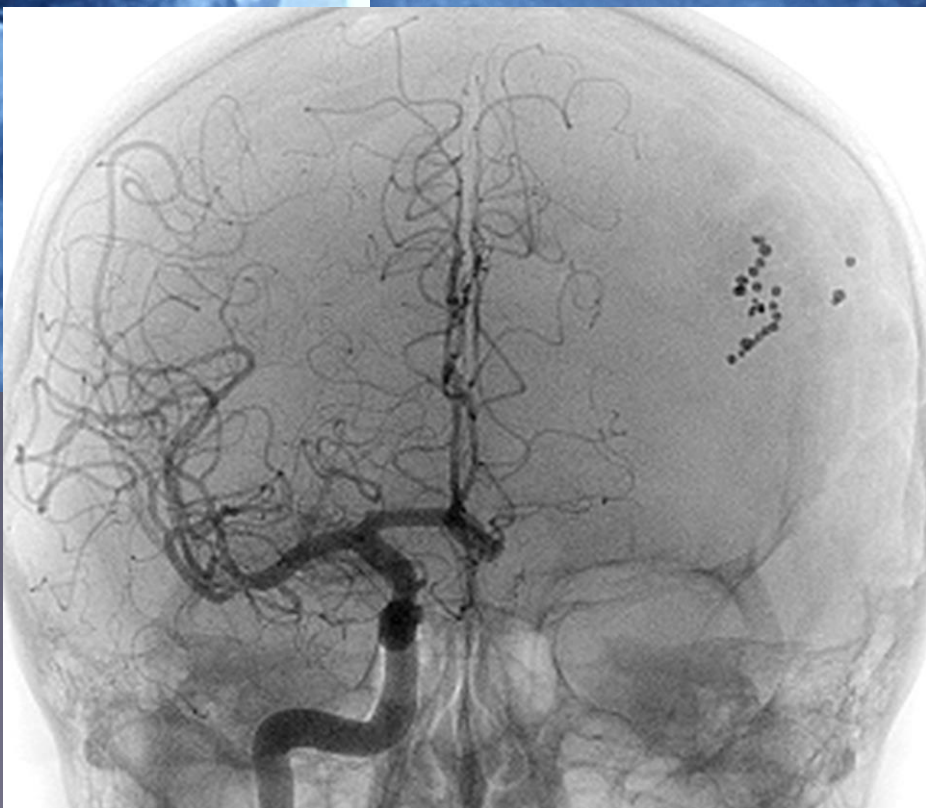
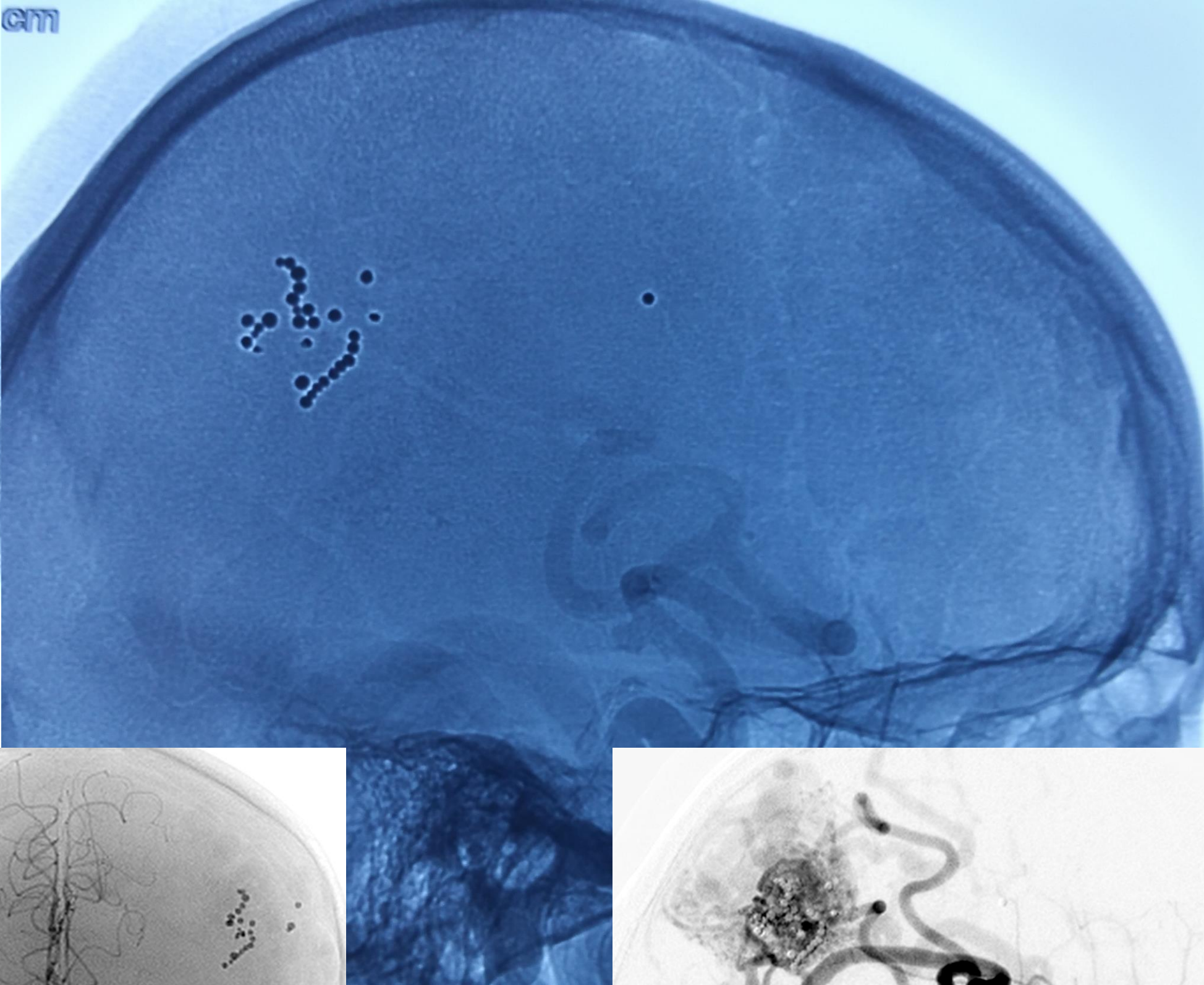
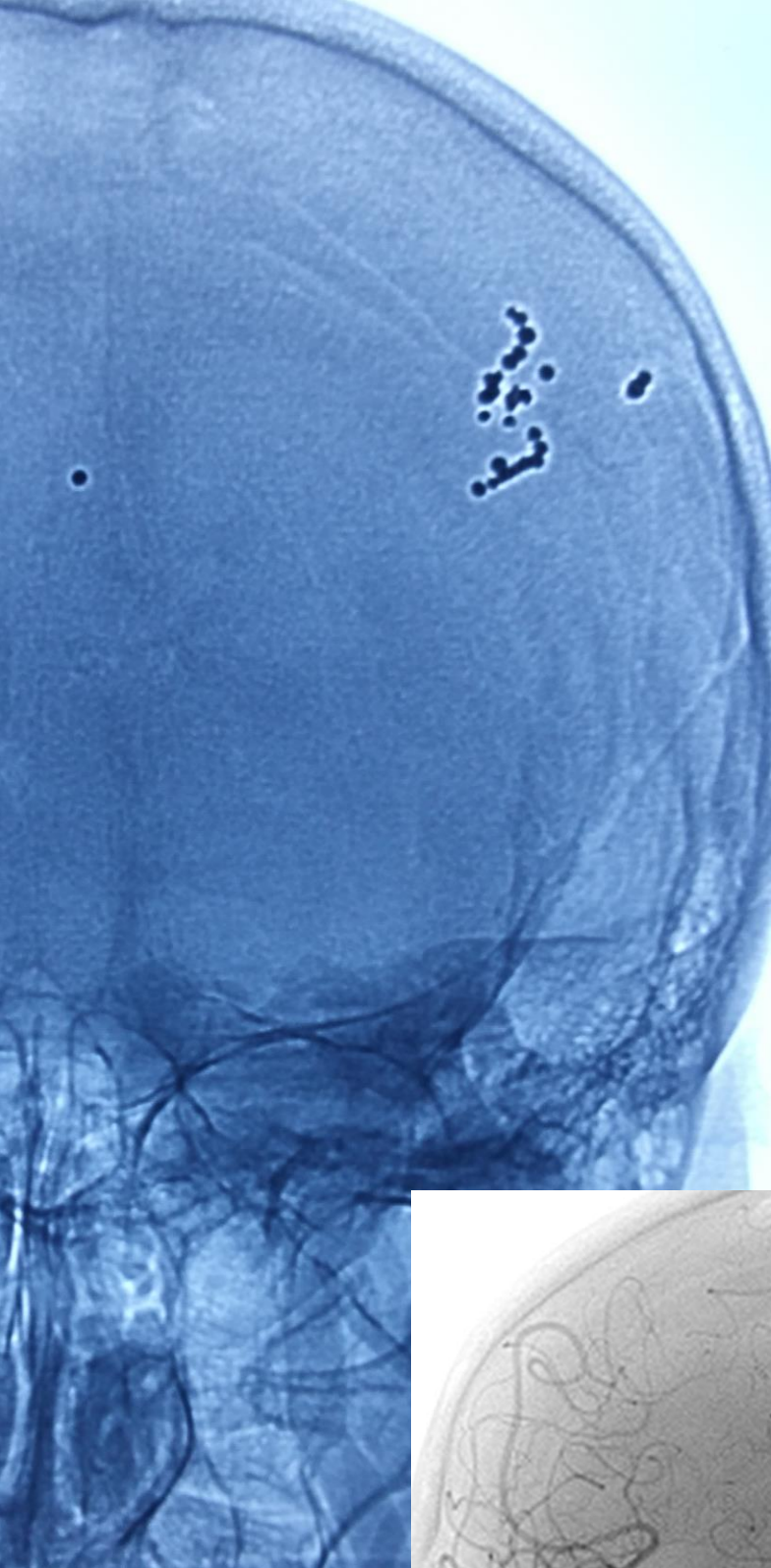
2014

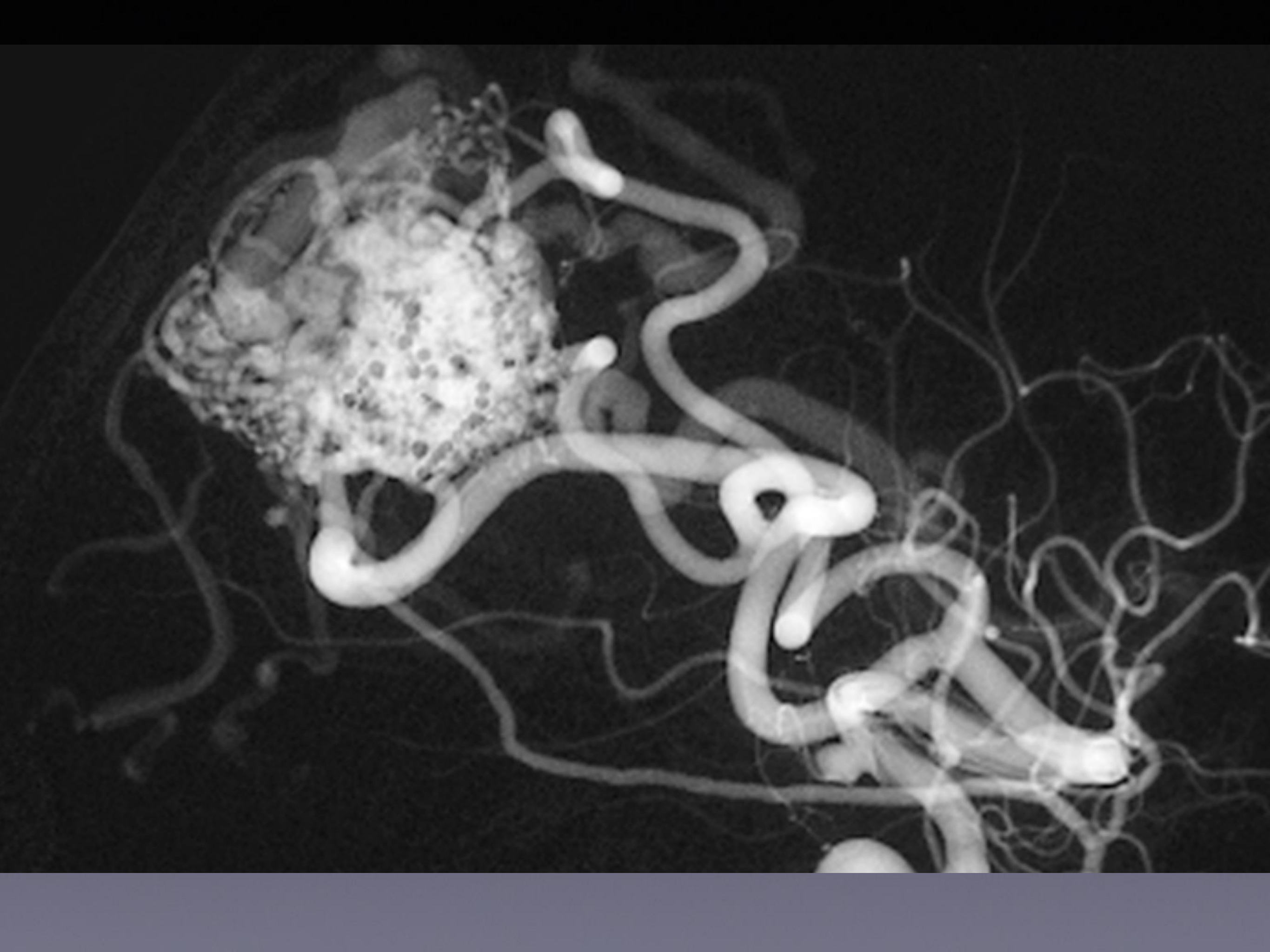
before

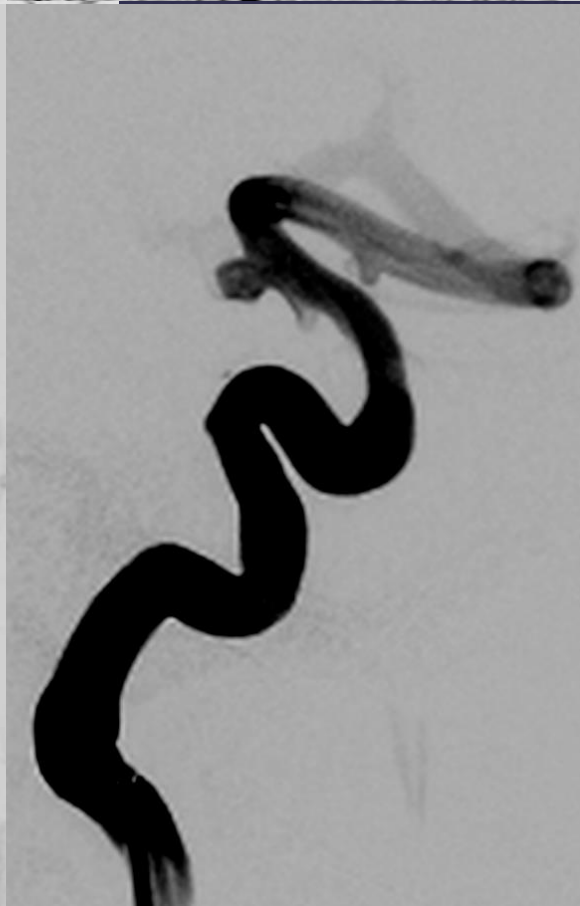
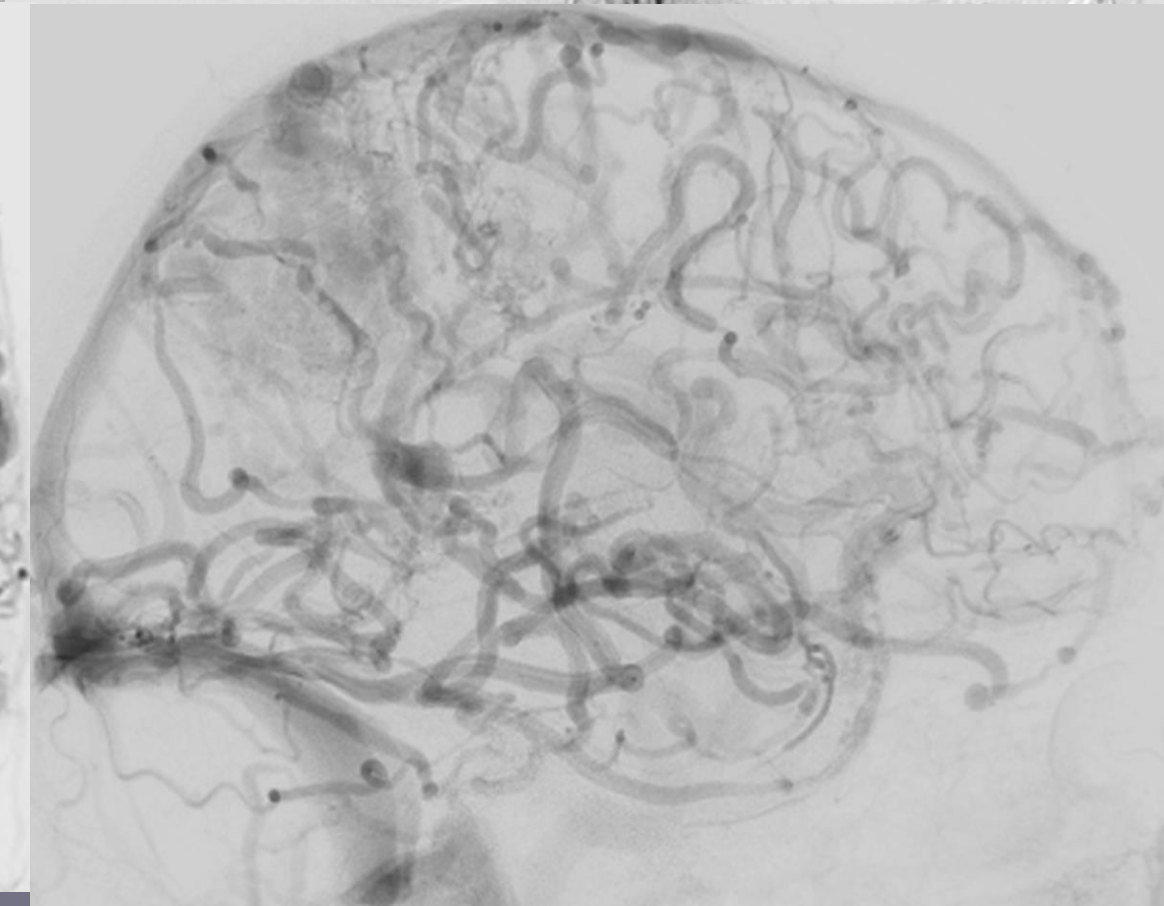
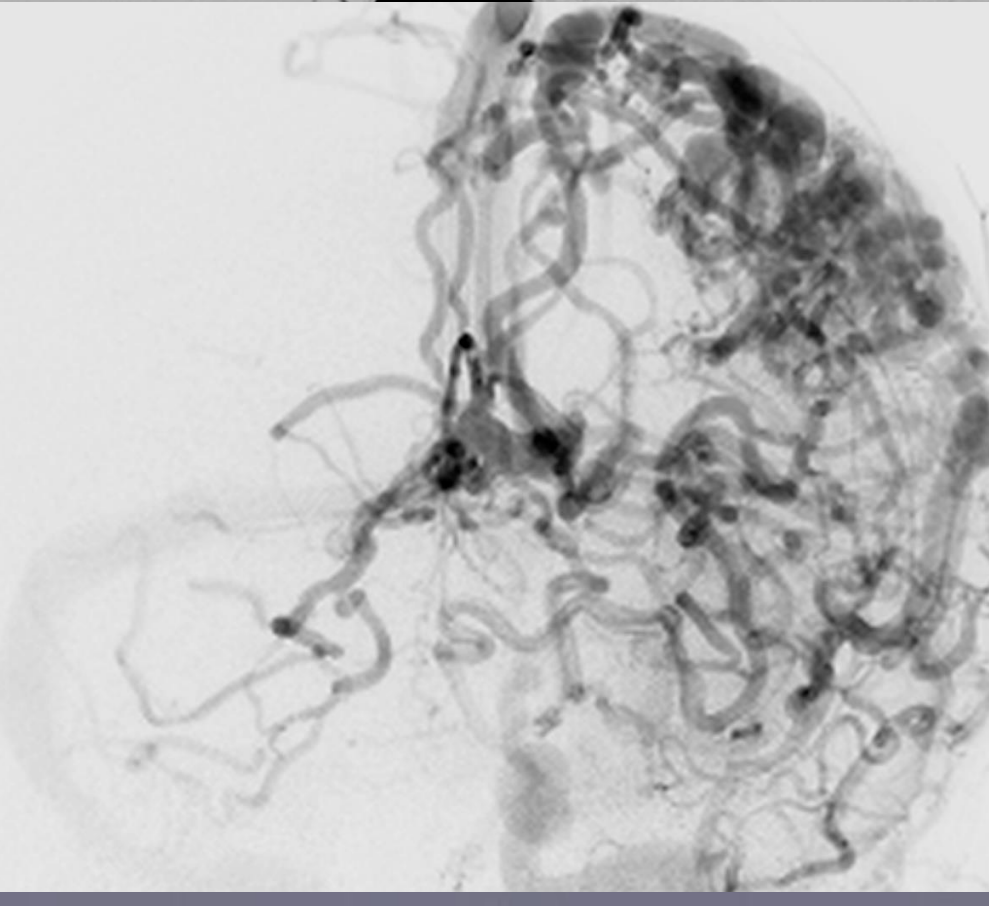
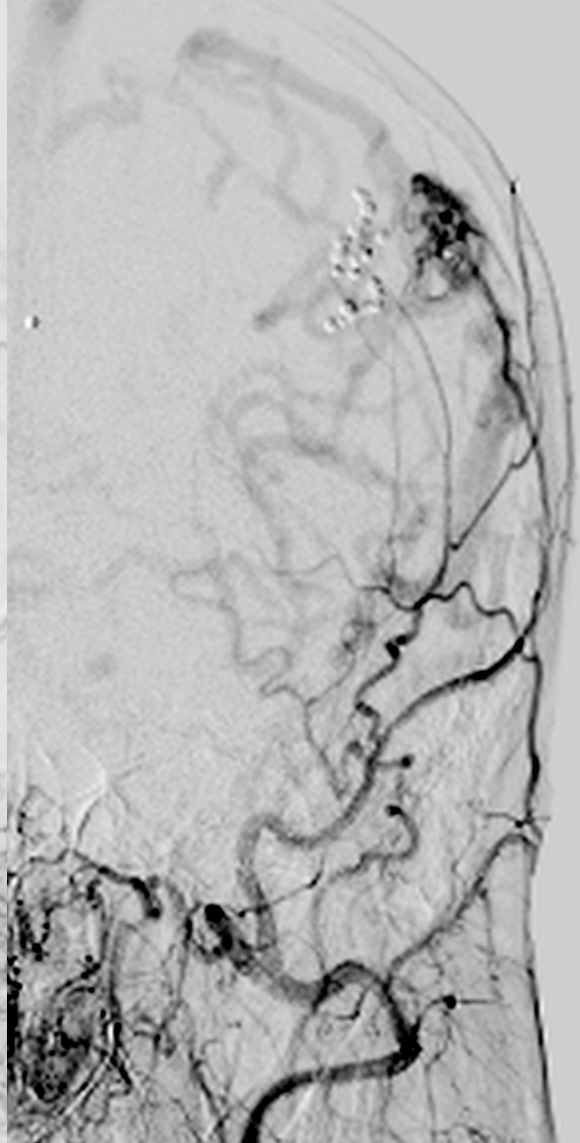
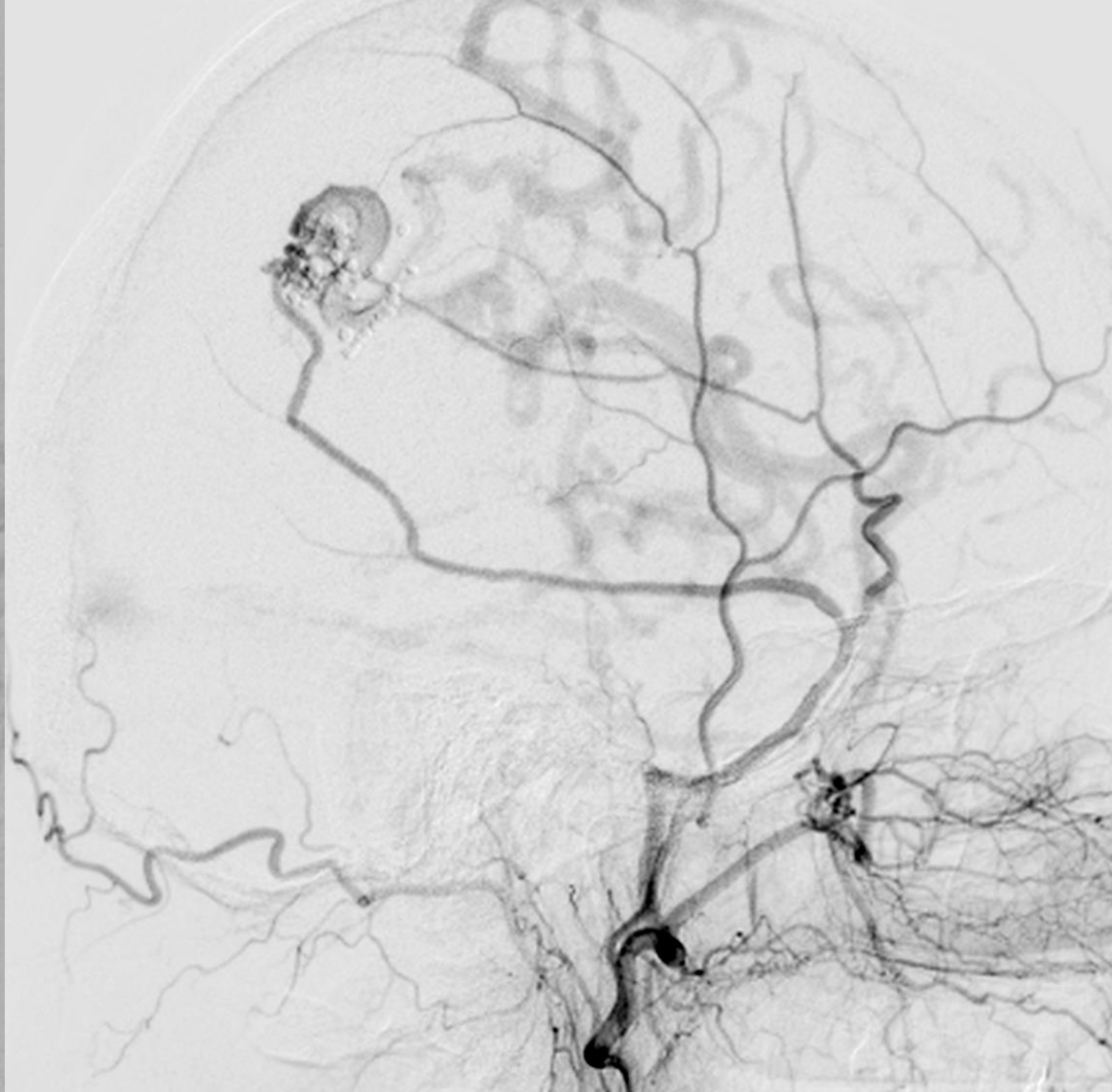
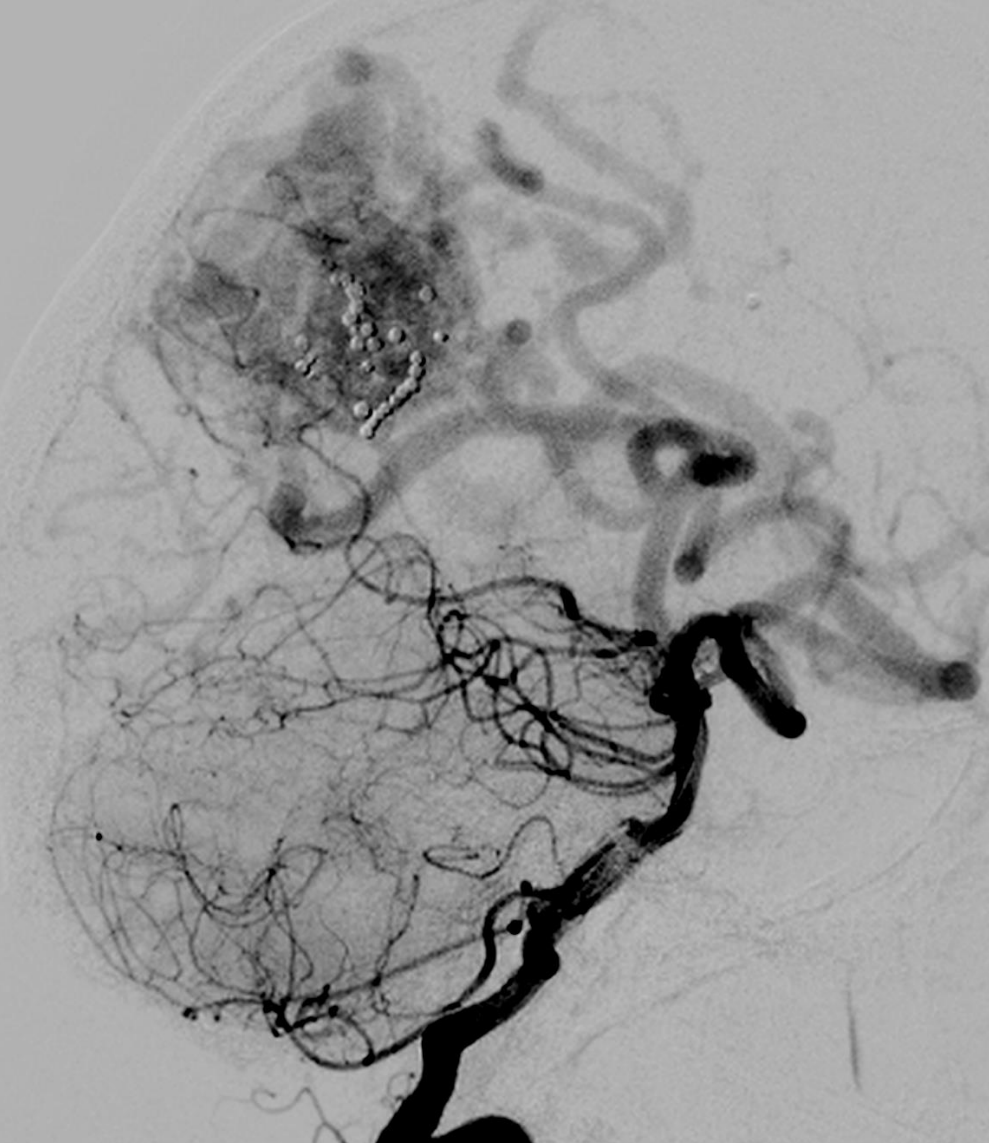
fully functioning AVM nidus

25

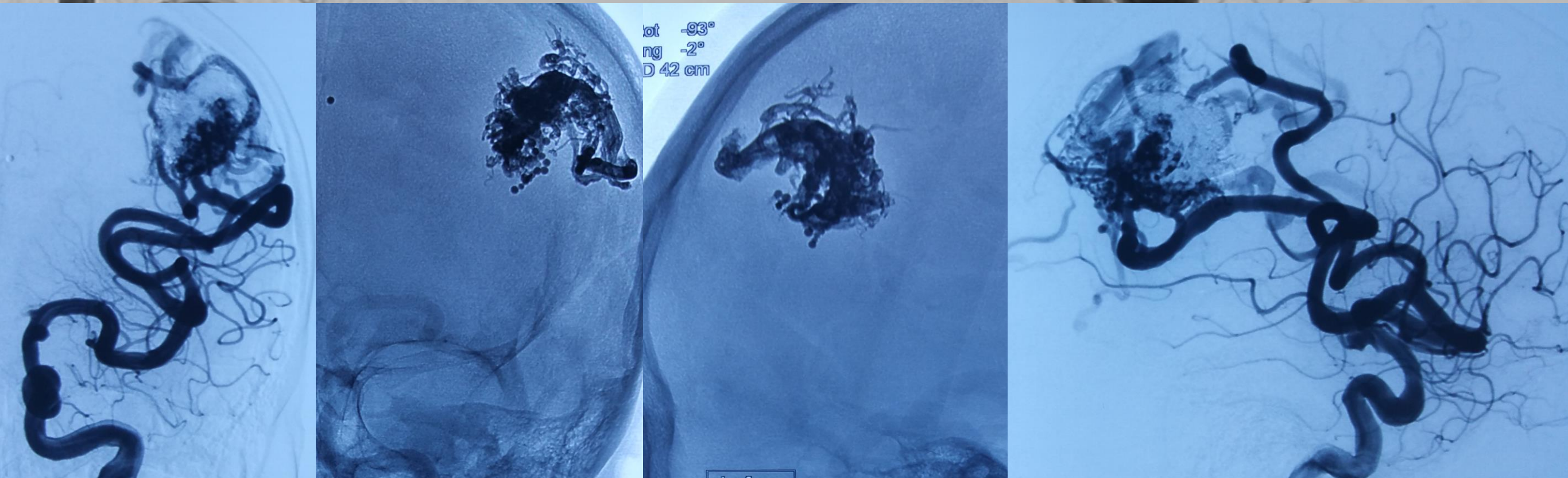
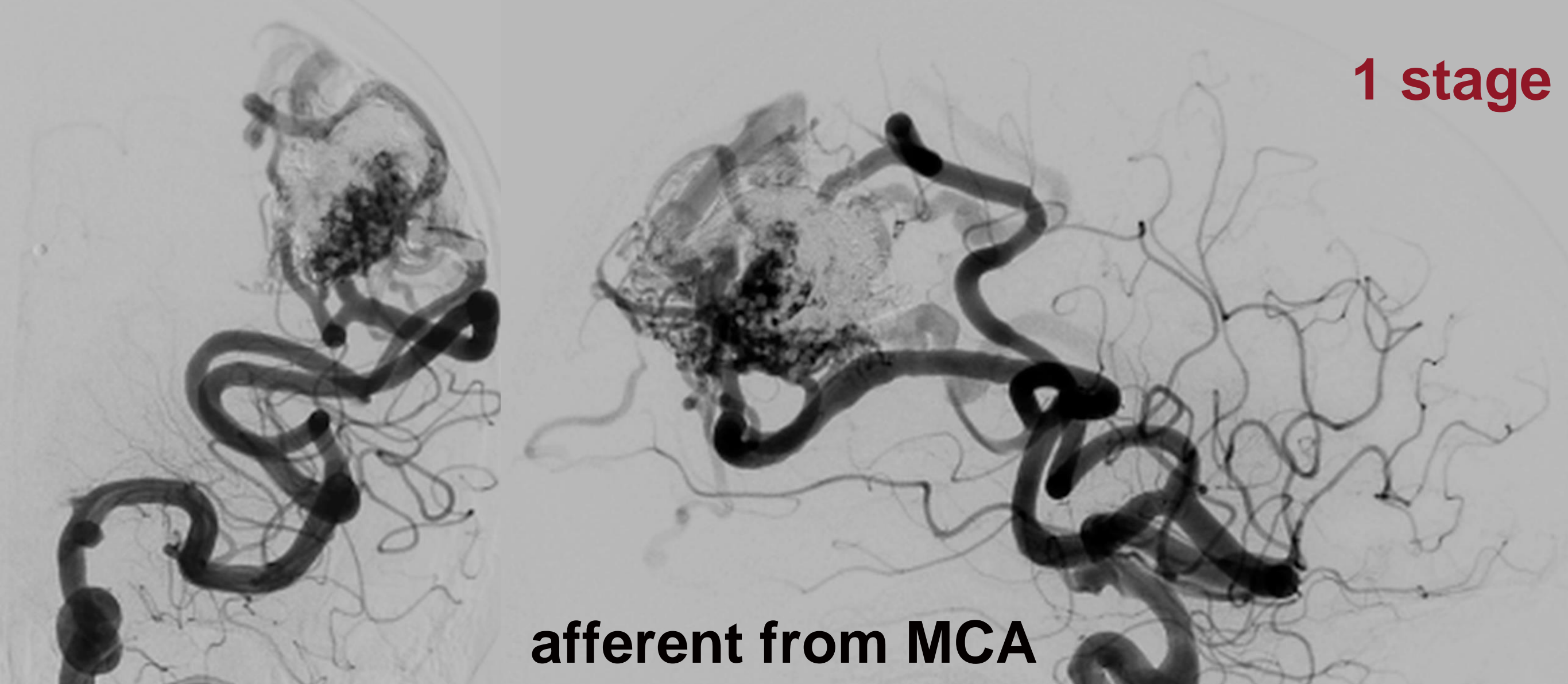


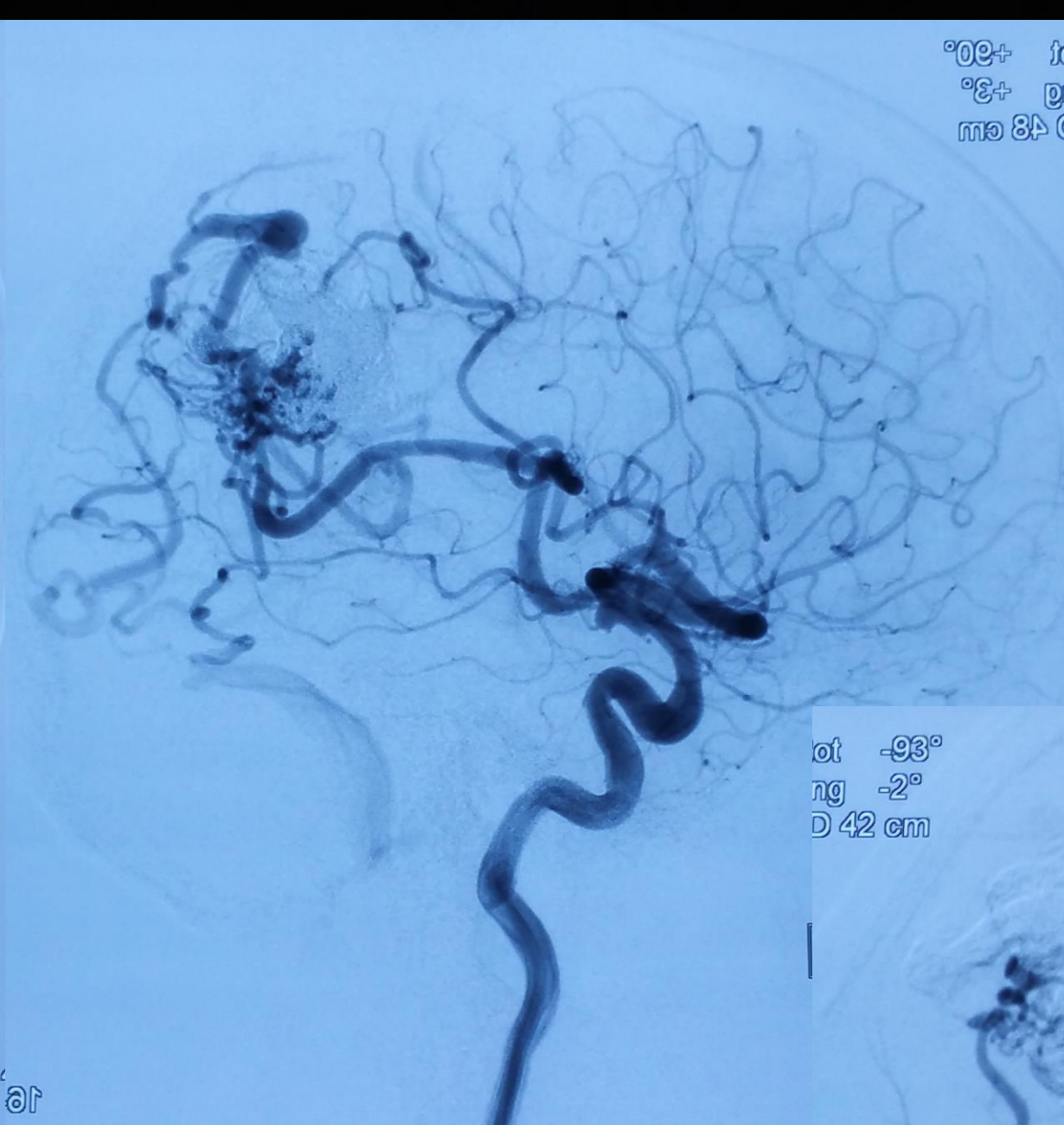
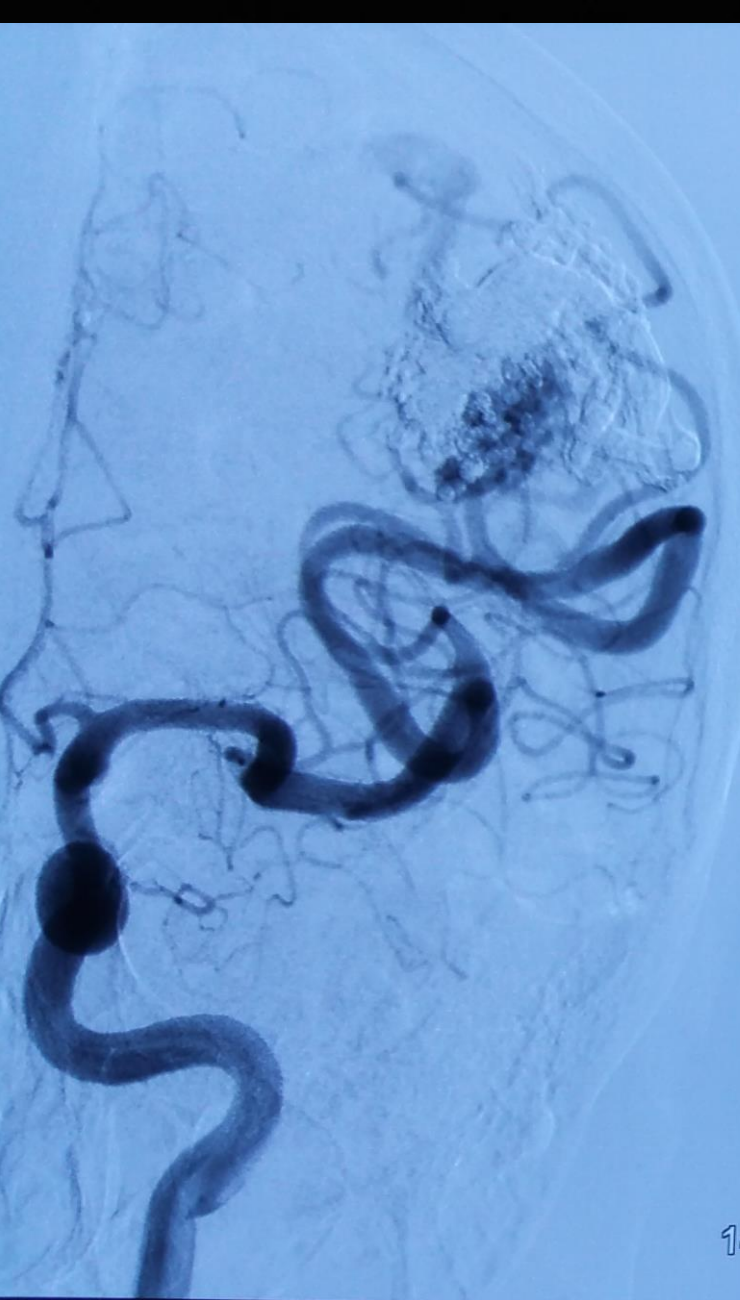




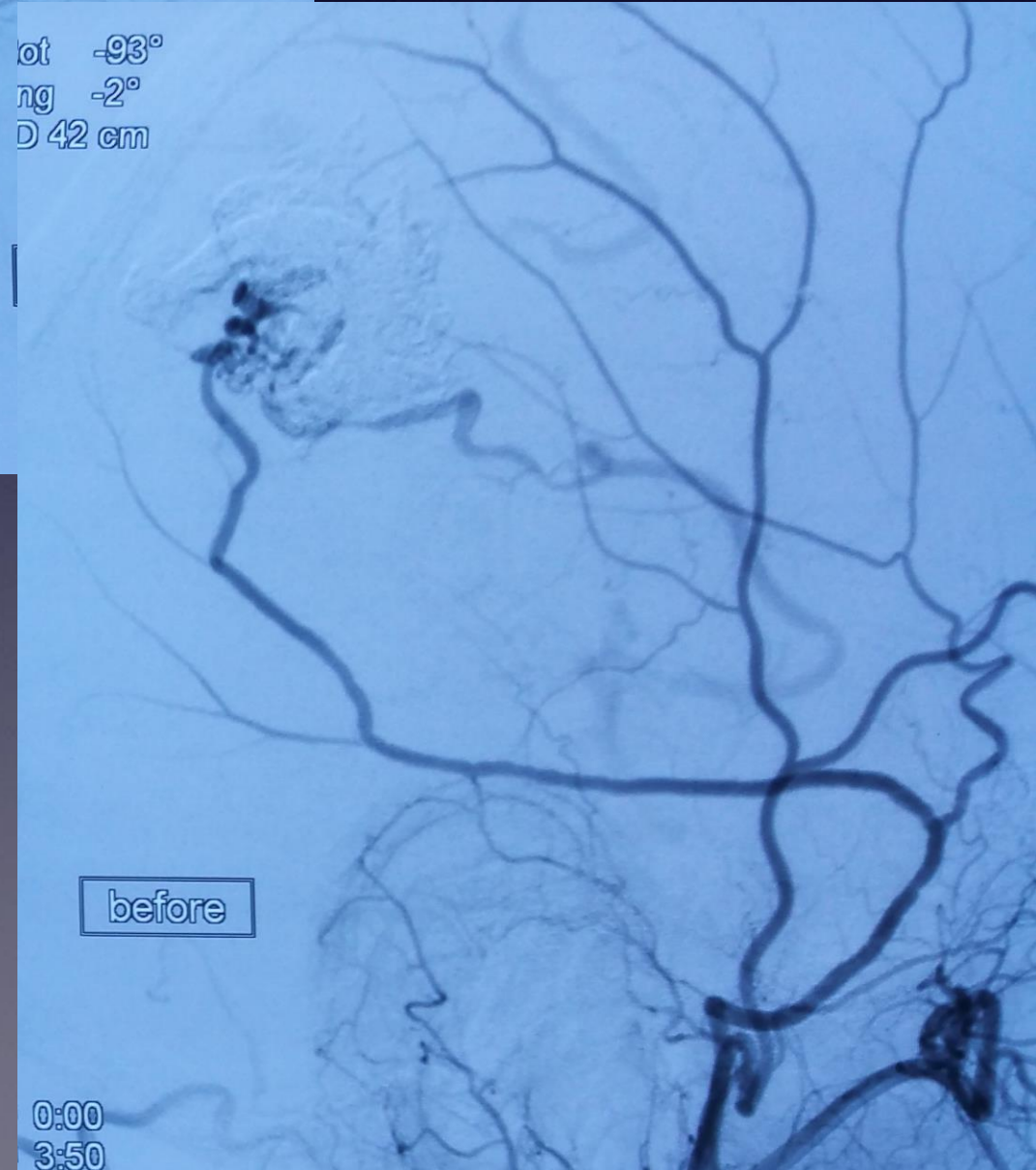


1 stage

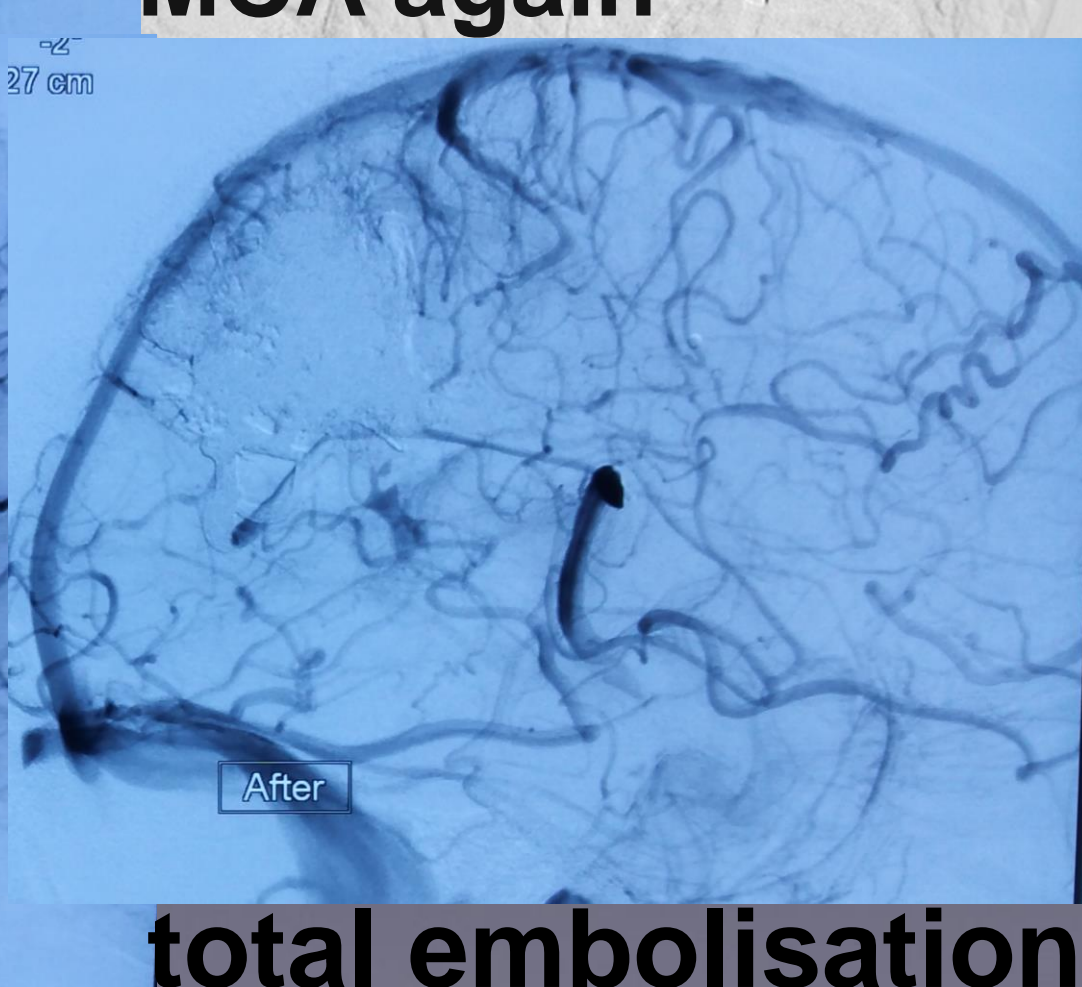
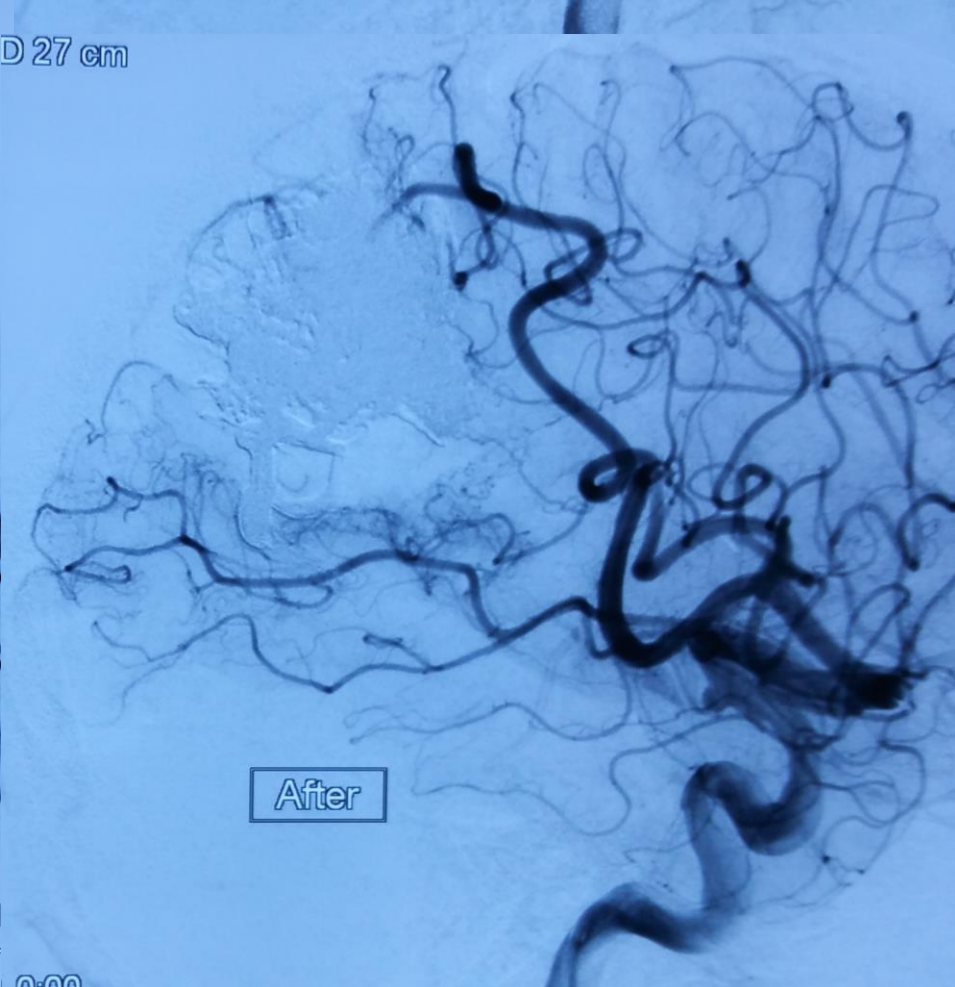
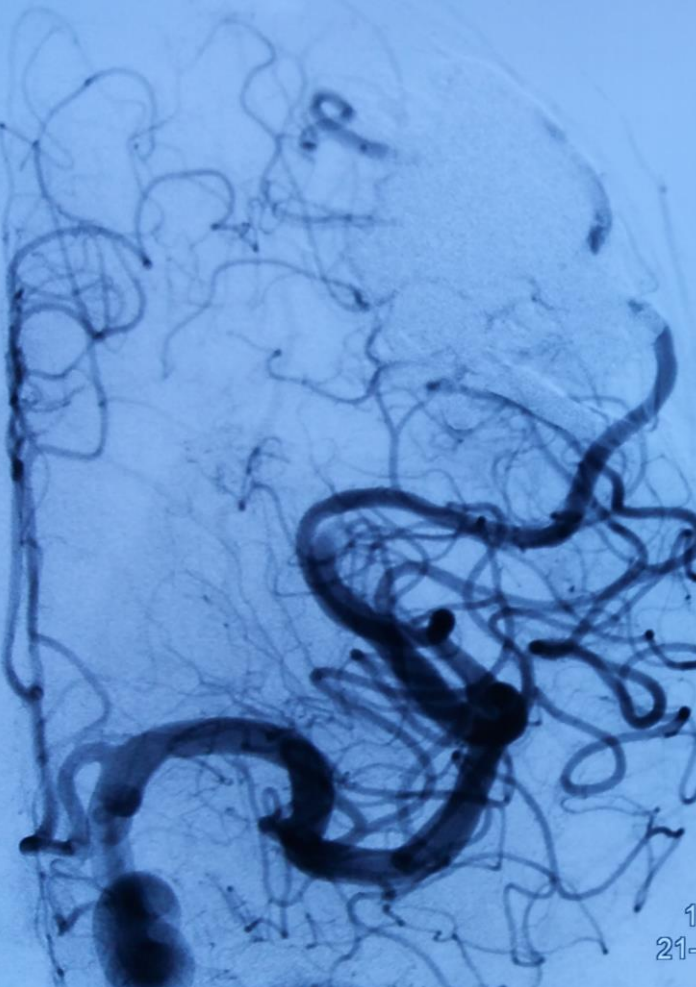
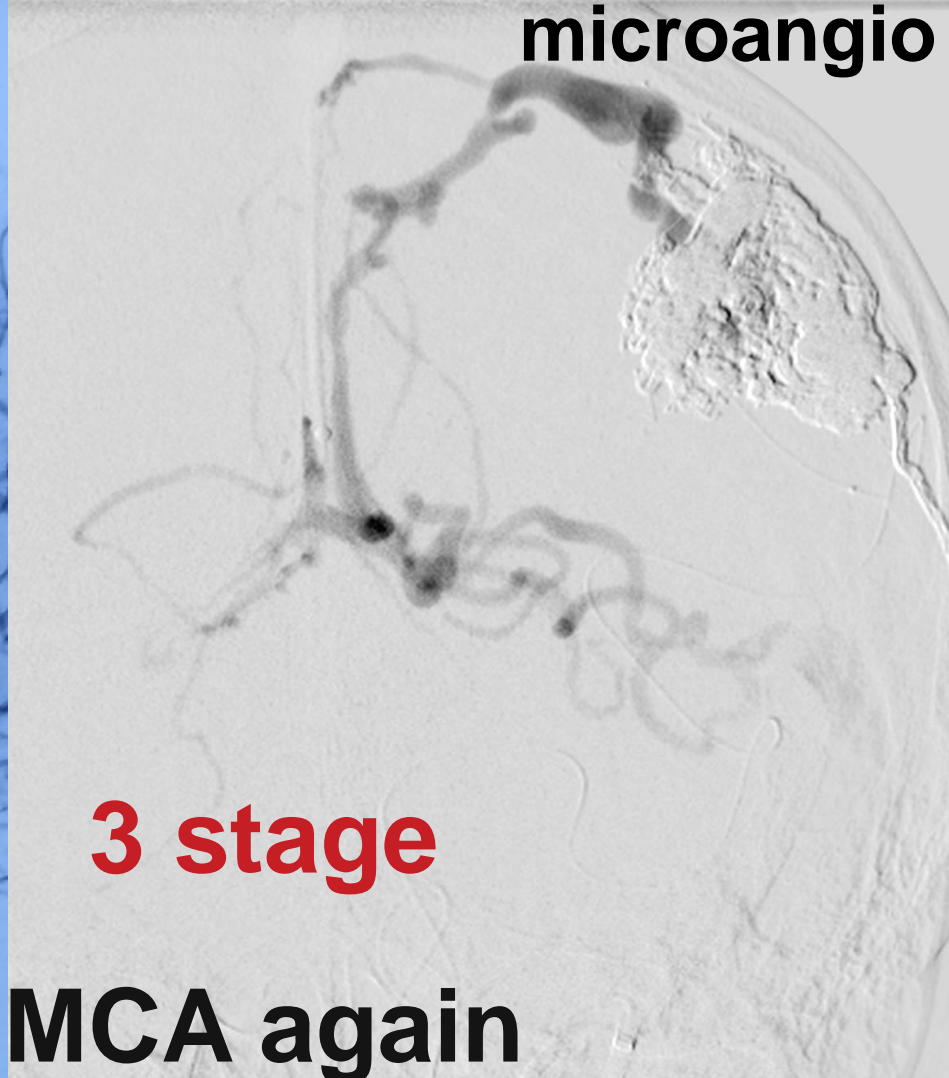
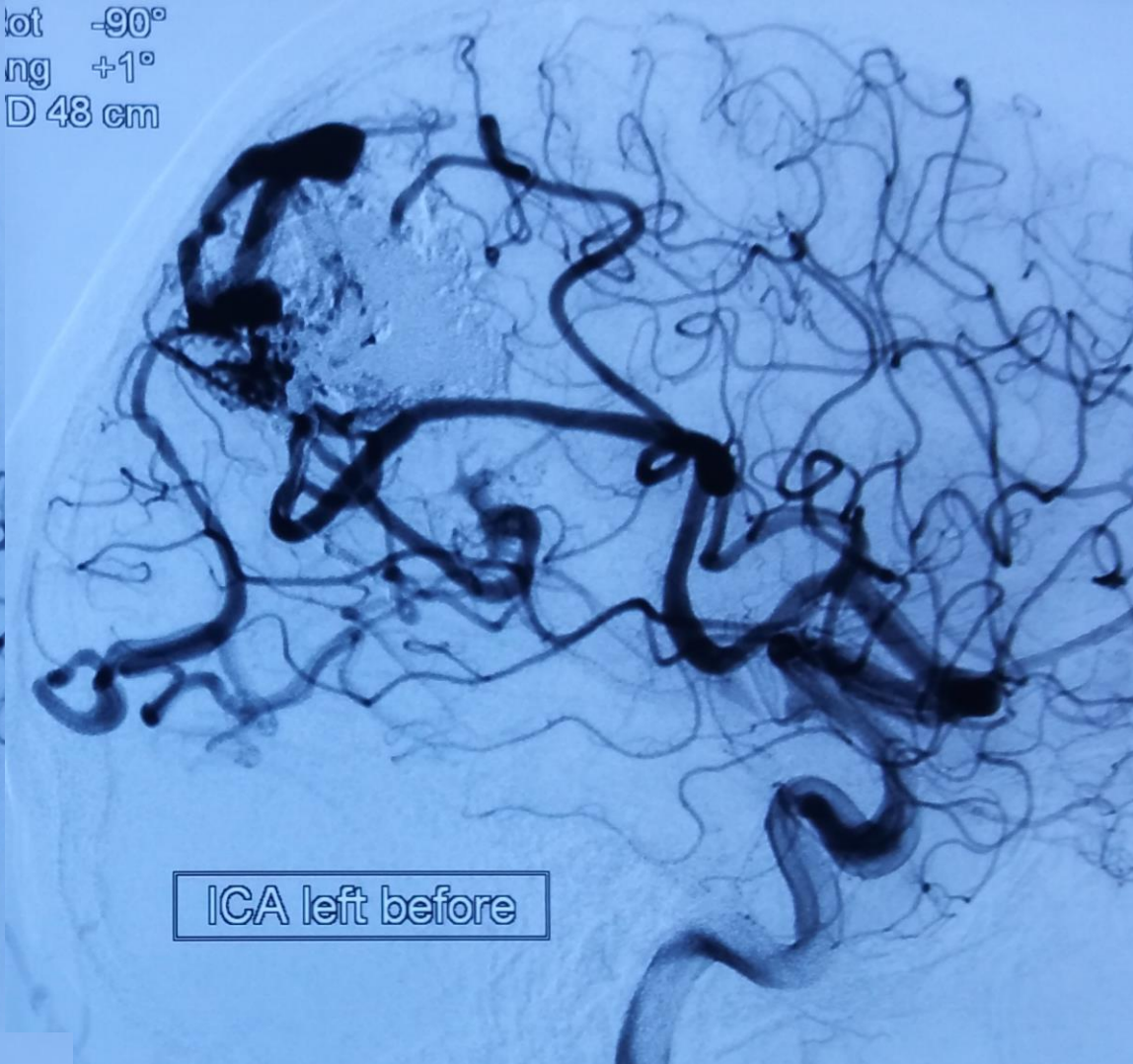
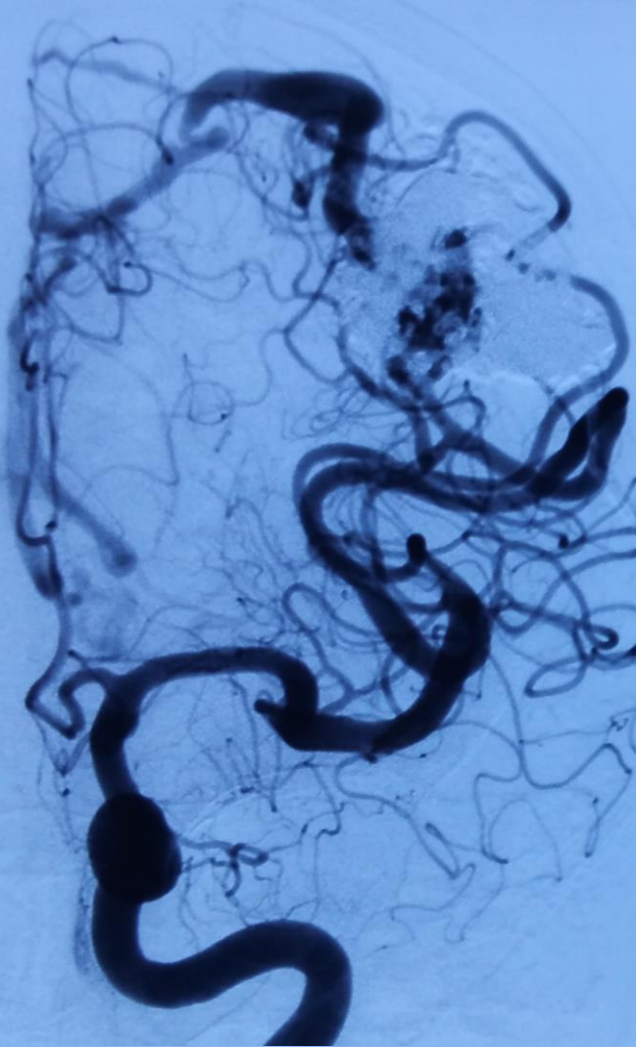




2 stage



via meningeal media artery



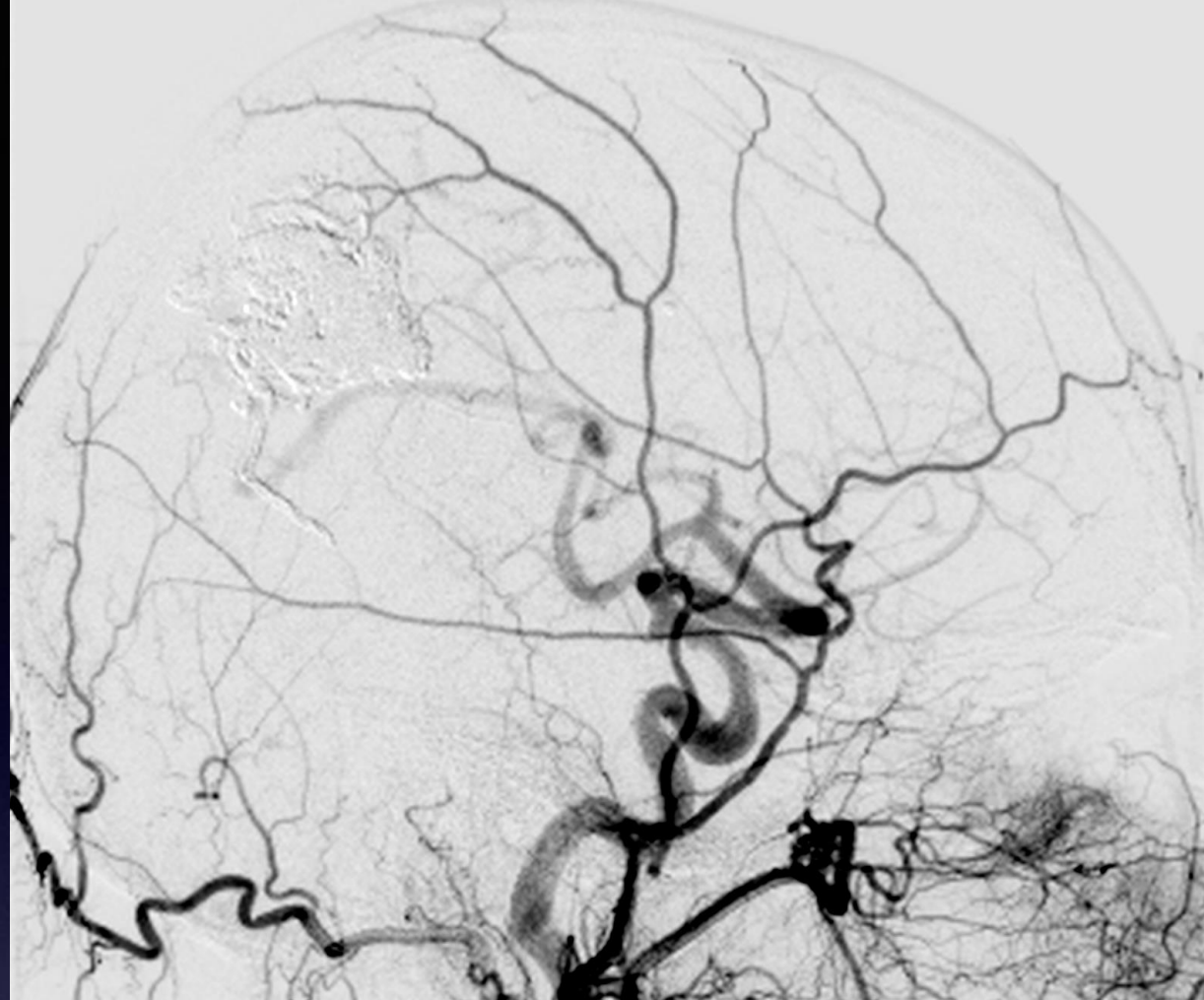
total embolisation

For 24 hours prolonged general anesthesia and controlled hypotension were performed.

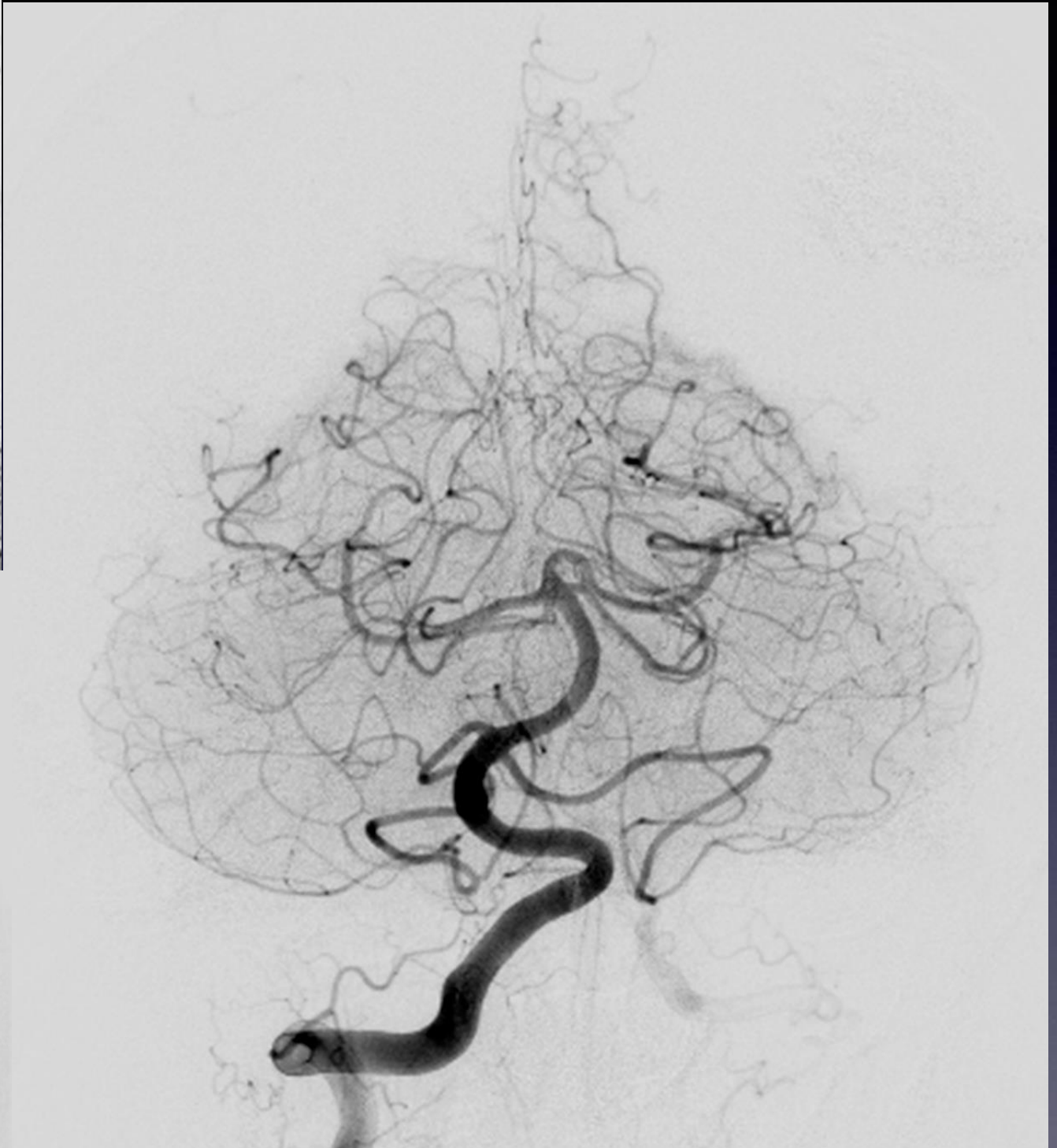
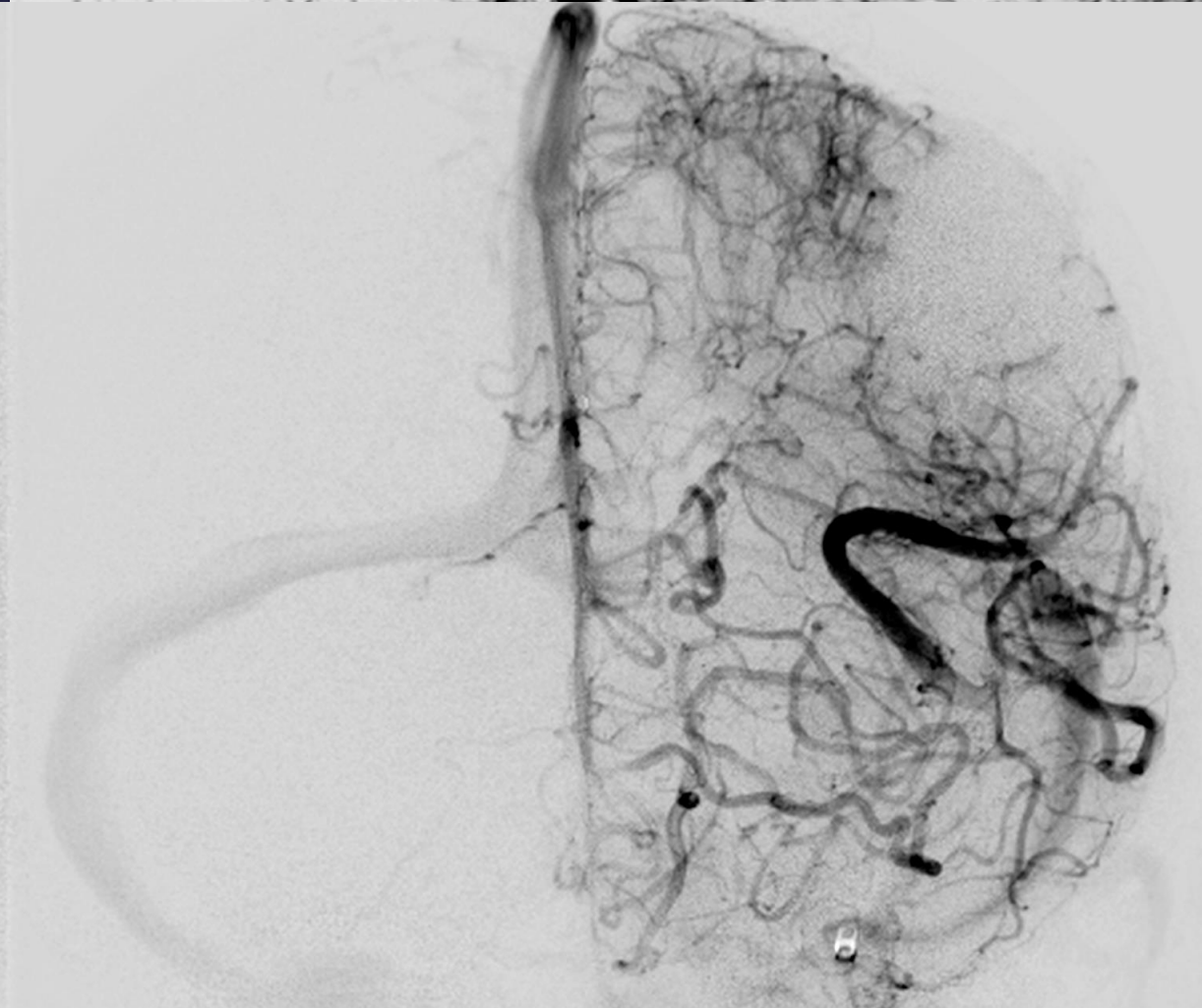
The next day after embolisation
CT, DSA

control - no pathology

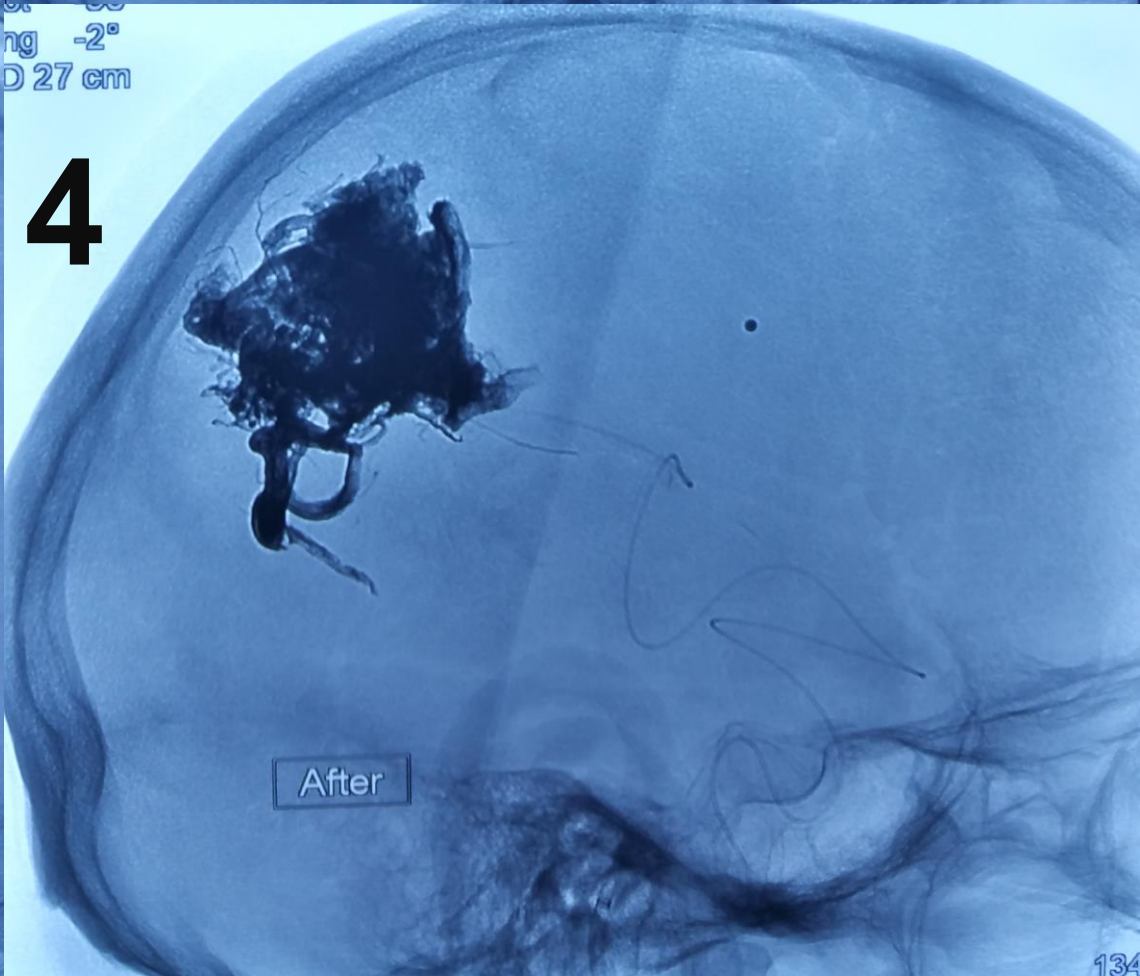
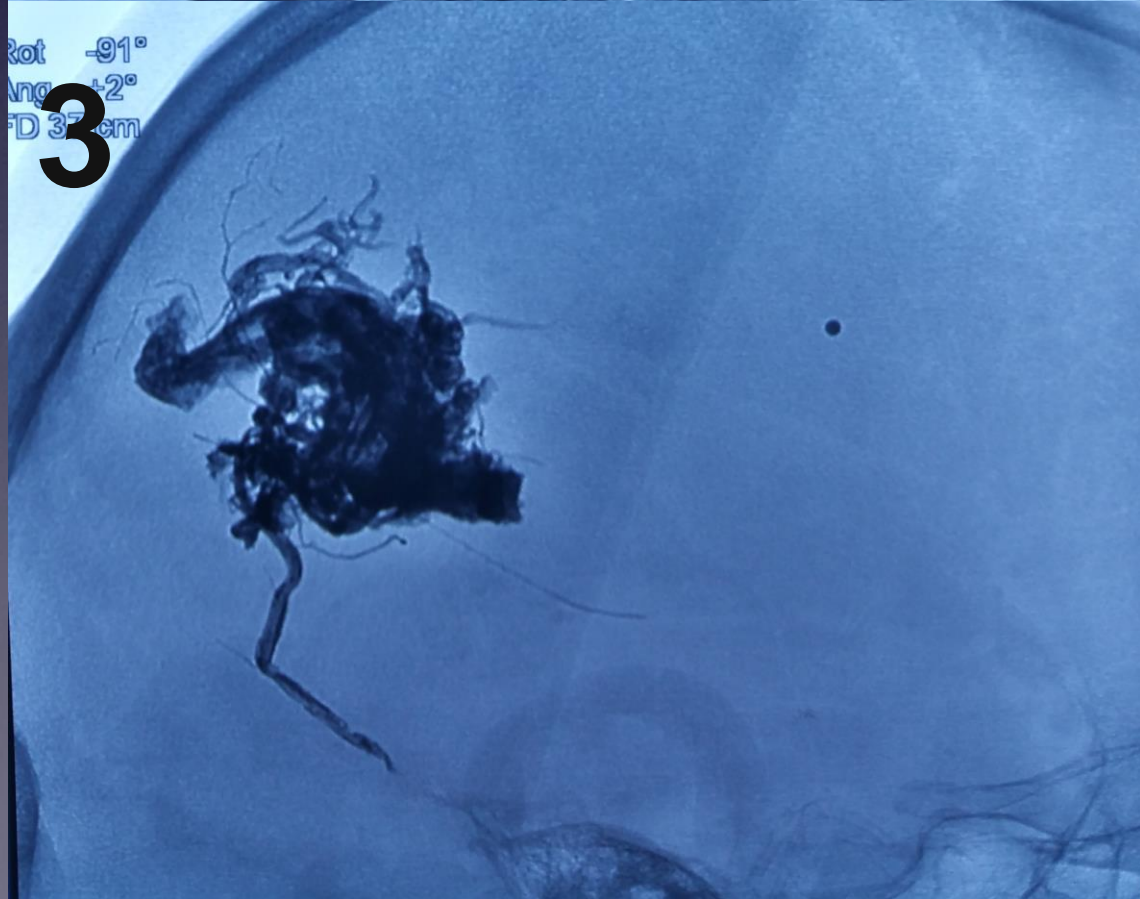
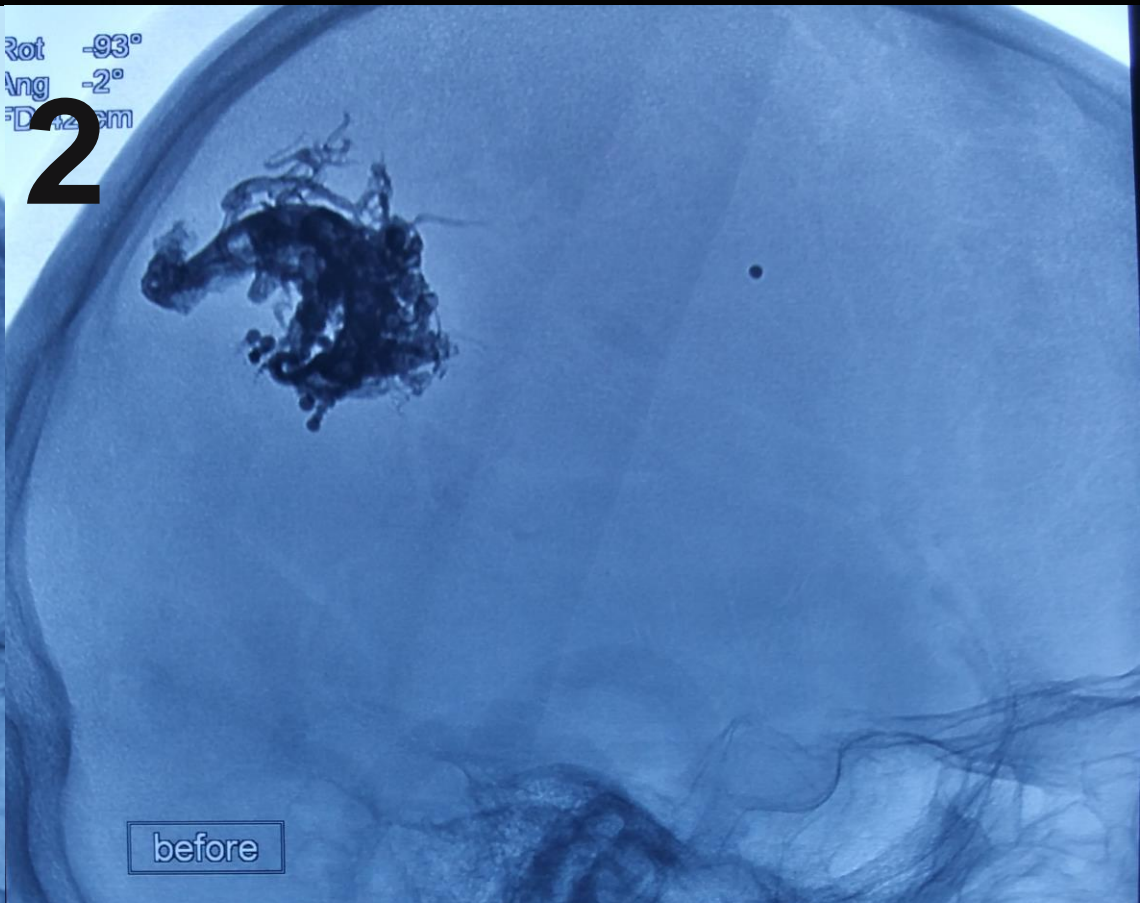
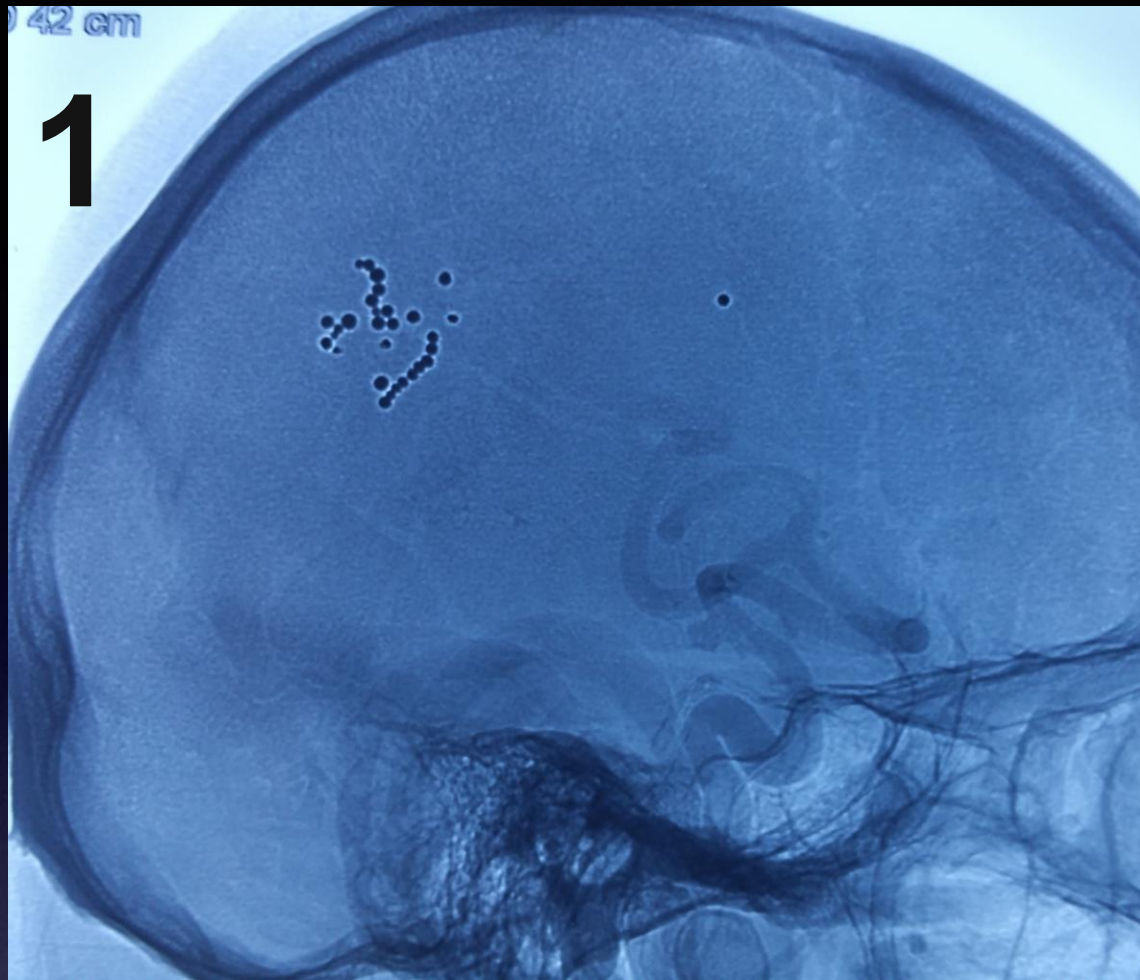
mRS - 0 after awakening



morning DSA control



no AVM



AVM embolisation with free embolus does not lead to occlusion of AVM nidus and recovery of the patient but at the same time does not prevent the free distribution of ONYX in the AVM nidus in subsequent embolisation due to the flow of non-adhesive composition around free embolus.

Thank you for your attention

