



Balloon occlusion test

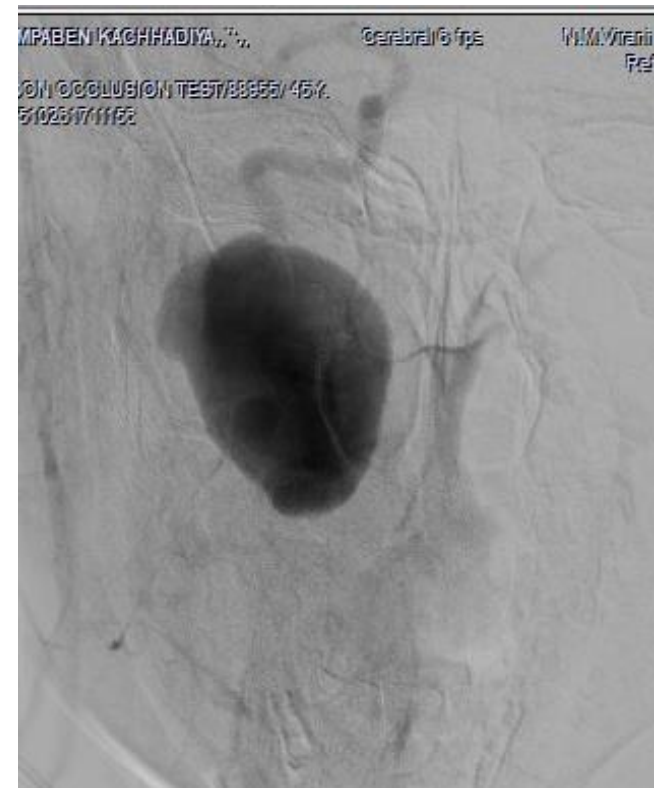
Dr Vikash Jain

Balloon test occlusion(BTO)

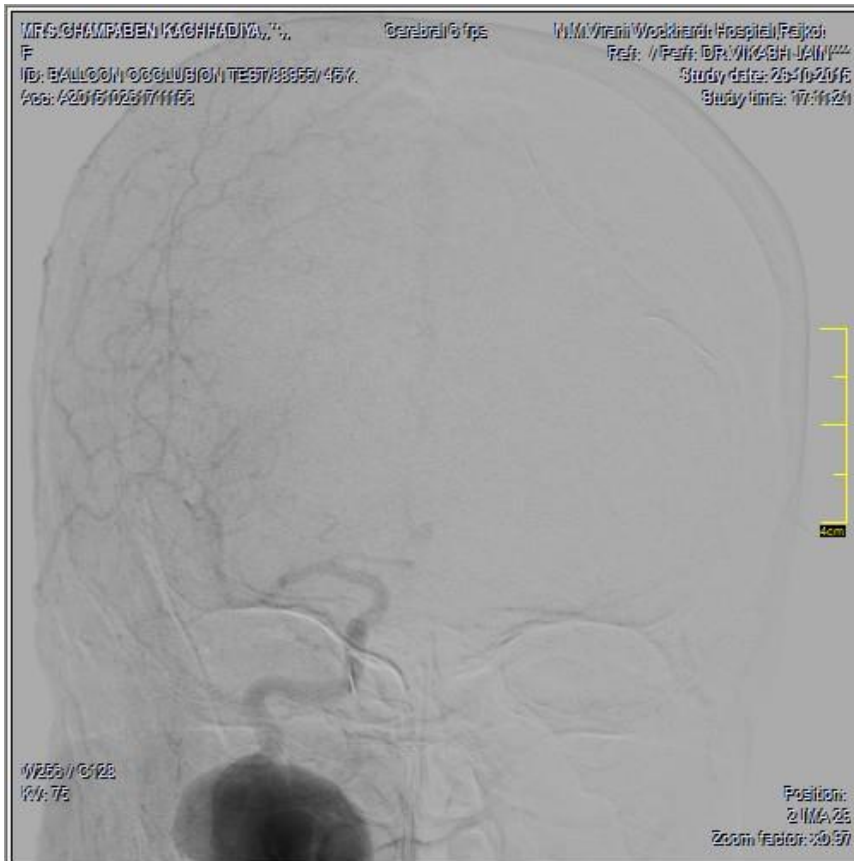
- BTO is performed to assess the ischemic tolerance among preoperative patients in cases of treatment of skull base lesions such as tumors, aneurysms, and traumatic lesions which may require internal carotid artery (ICA) sacrifice.
- BTO is an angiographic test to evaluate ischemic tolerance after permanent occlusion of an ICA.
- During BTO, the cerebral hemisphere ipsilateral to the tested ICA may be perfused by collateral blood flow, depending on the development of collateral pathways.
- Patient is monitored clinically and angiographically during the procedure for any neurological deficit.

50yr/F

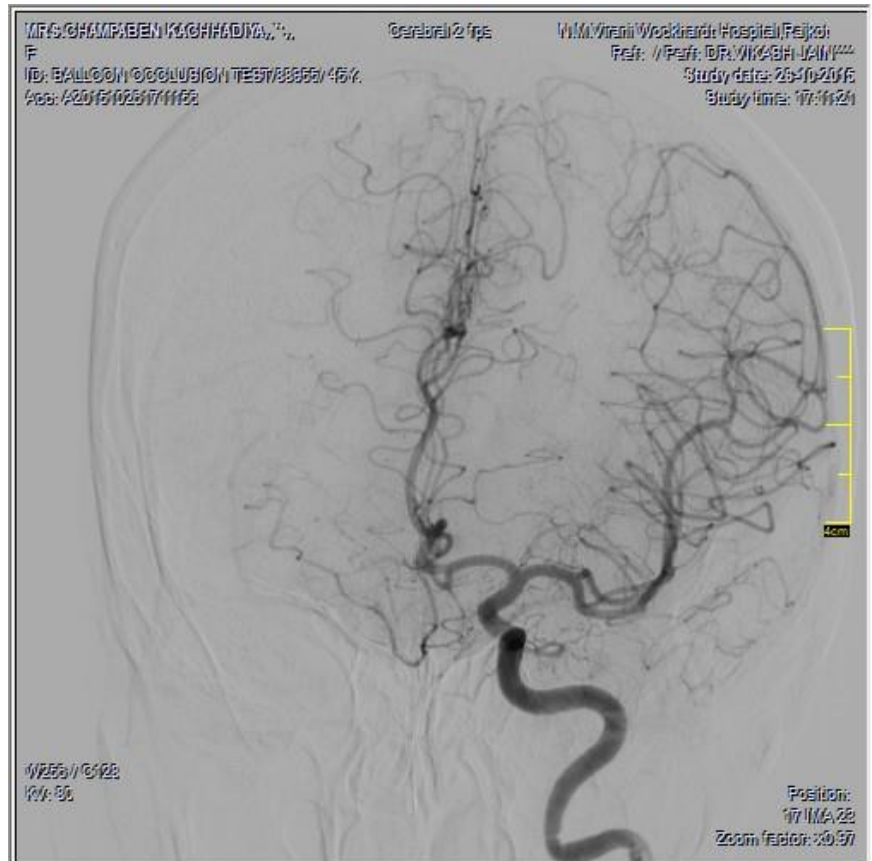
- Pain in right side of throat since 3 months
- Referred to ENT surgeon for Tonsillectomy.
- Vigilant surgeon identifies pulsatile swelling and gets an MRI
- MRI showed: right cervical ICA large aneurysm



Intracranial angiogram

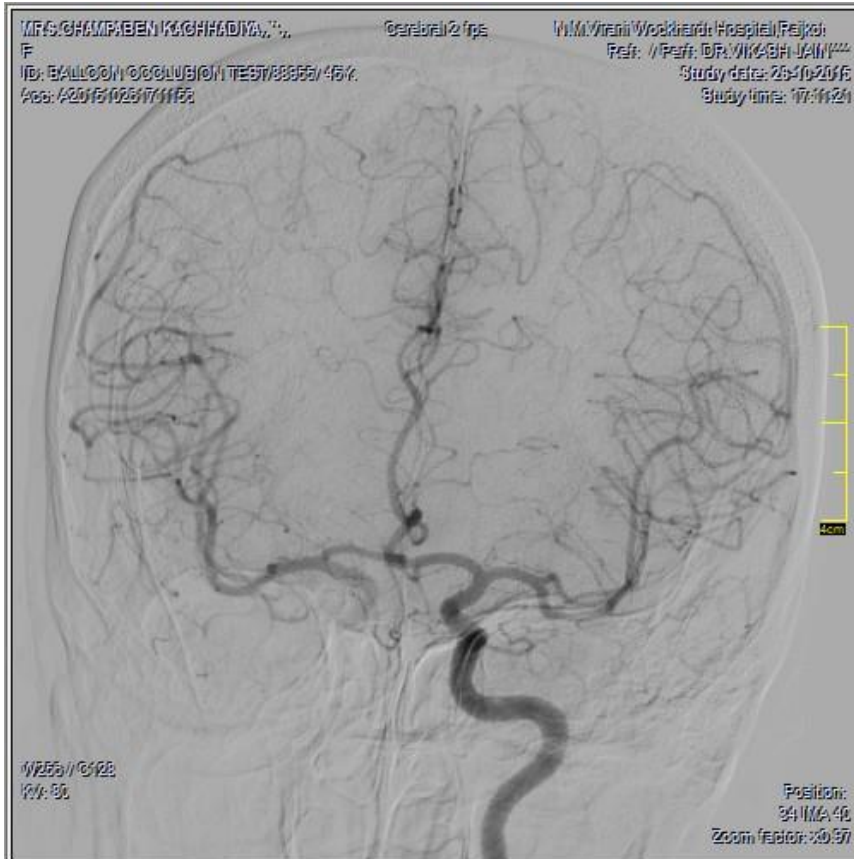


RICA



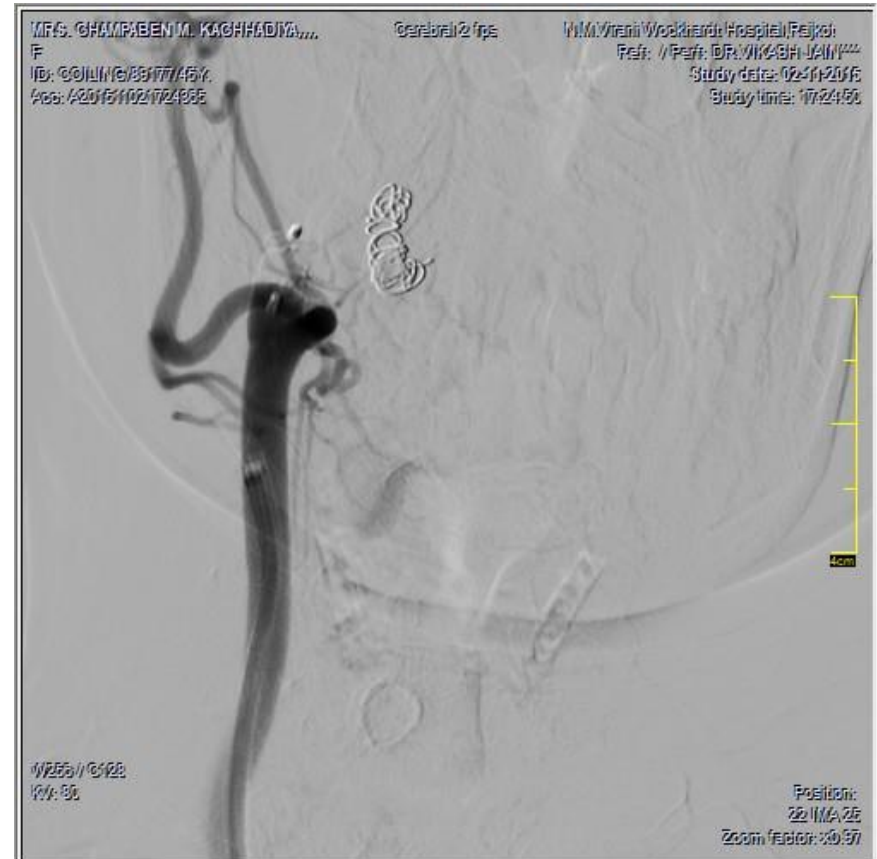
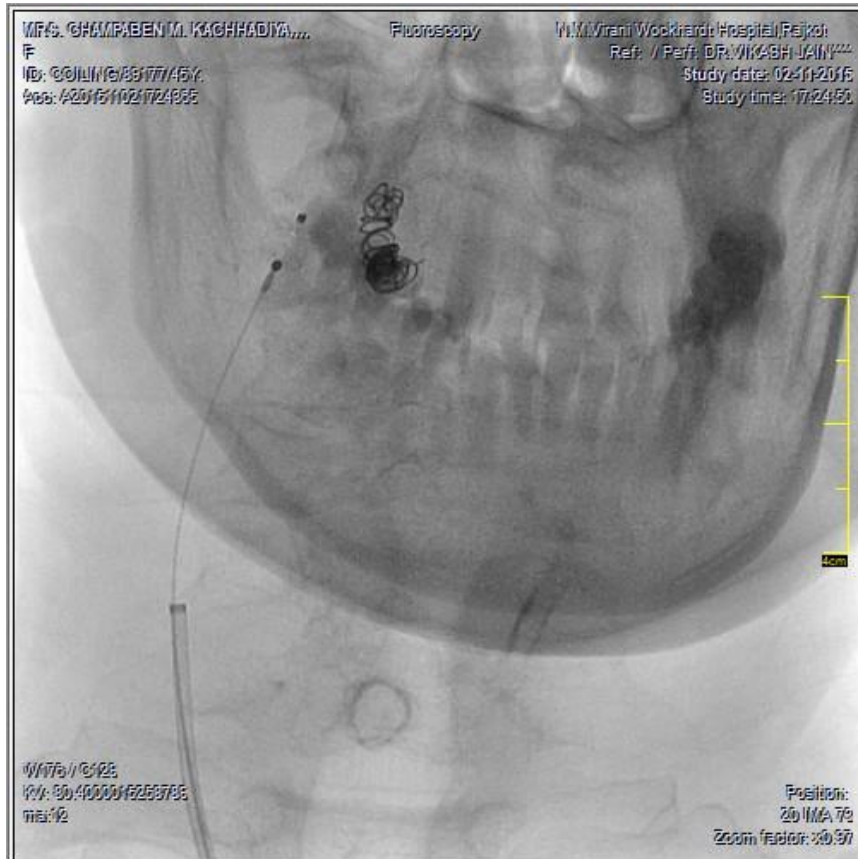
LICA

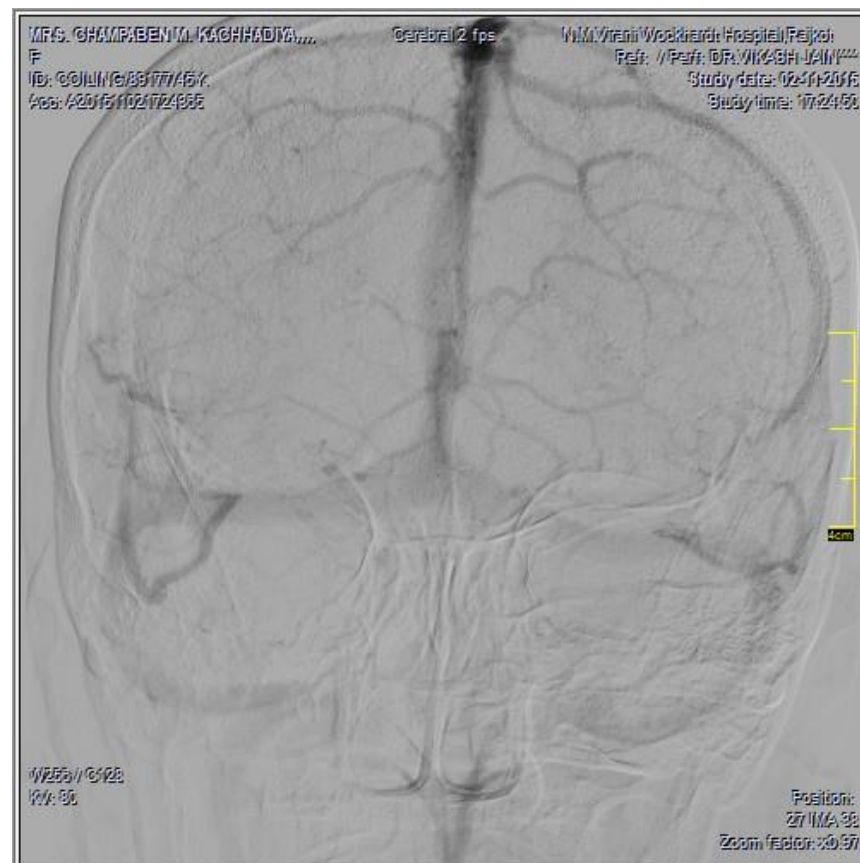
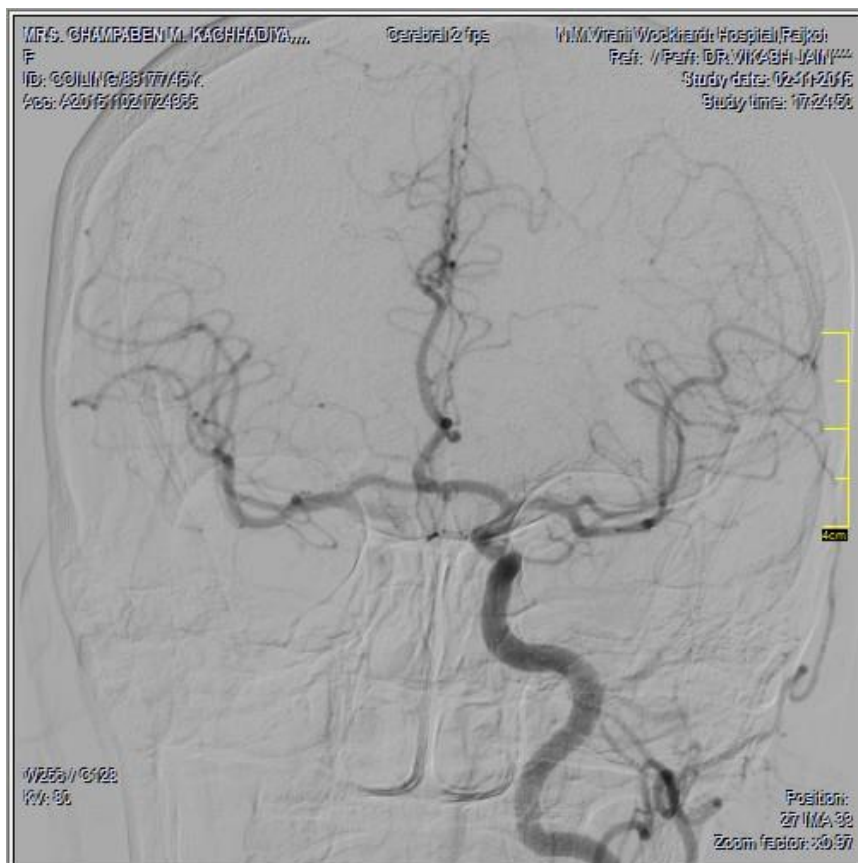
Balloon occlusion test



Plan : parent artery occlusion

Parent artery occlusion done with 6mm plug

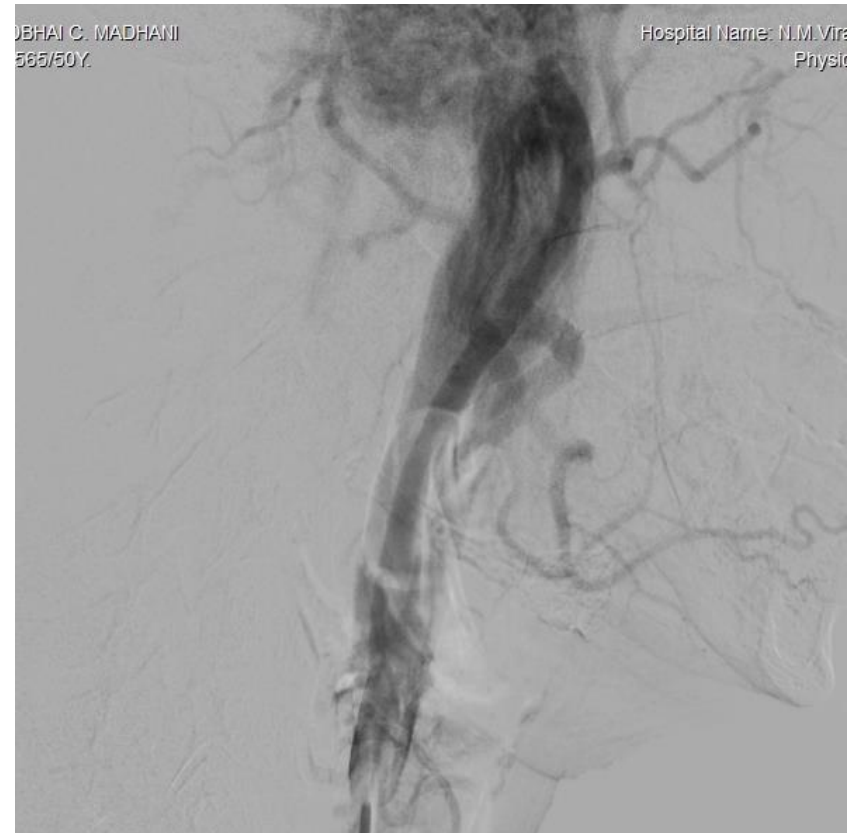
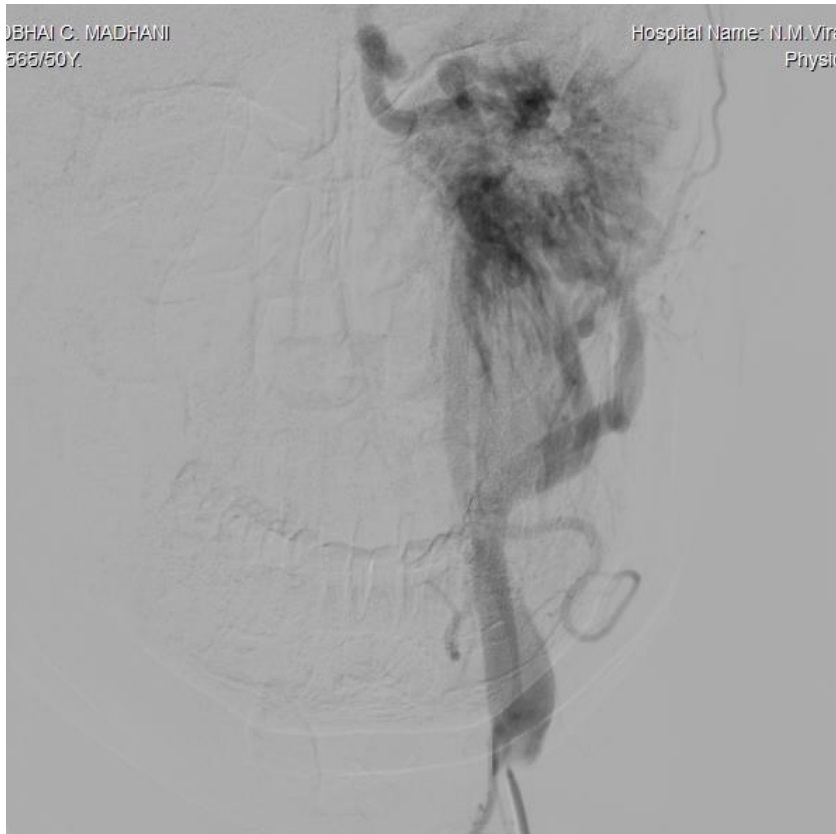




Discharged next day without any clinical deficit

55/M

- c/o large highly vascular glomus jugulare(tumor) encasing left Internal carotid artery.



Balloon inflated in left ICA to occlude flow, left cerebral circulation well catered by cross flow from right to left side





Thank you