

Transnasal Endoscopic Approach for the Excision of Sellar Tumor

A 32-year-old male patient presented with history of sudden onset worsening of vision in both eyes. He had undergone trans-nasal pituitary surgery in 2012 when he had partial improvement in his left eye. All the relevant investigations were done. On examination, he had Bi-temporal hemianopia. MRI of brain showed compression of the optic chiasm, right optic nerve, and right hypothalamus.

The case was discussed in the team and decided to perform Transnasal endoscopic excision of Sellar and suprasellar tumor with navigation guidance. Trans-nasal endoscopic excision is a minimally invasive procedure to excise the sellar tumor by working through the nose. The patient underwent the procedure successfully and post-treatment, he made complete recovery of visual fields and reversal of hypothyroid status.

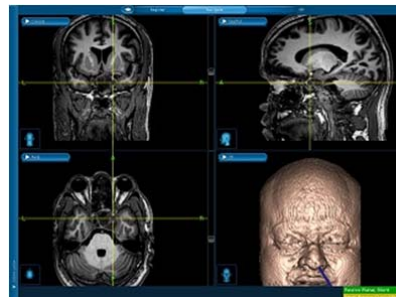
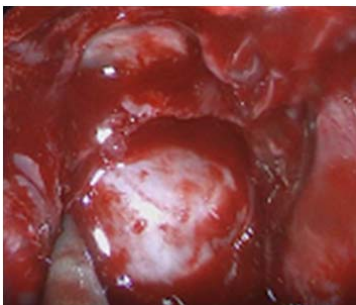
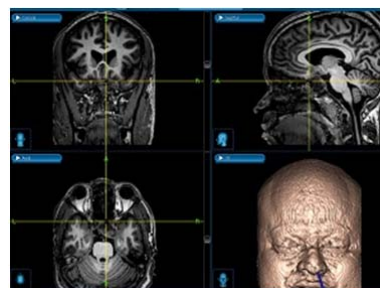
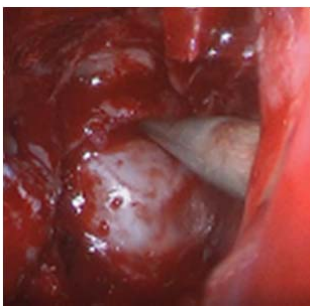
Conclusion: With prior trans-nasal approach surgery, for recurrence, pituitary tumour is operated trans-cranially as anatomy is distorted and there were higher chances of CSF leak. As tumour anatomy was not conducive for transcranial approach, it was decided to proceed with re-do trans-nasal approach. Patient recovered with near total tumour removal including cavernous extension, normalization of visual fields, hypothyroid status and no CSF leak was encountered.

Clinical Team:

Dr. Amit Kapoor, Senior Consultant, Neurosurgery

Dr. Harshad Nikte, Consultant, ENT Surgery

Navigation guided localization of Sella



Post-surgery

