

Endoscopic transsphenoidal resection of craniopharyngioma

ABSTRACT

Objectives: To demonstrate, step-by-step, the technique and efficacy of endoscopic transsphenoidal approach in resection of a suprasellar craniopharyngioma. **Design** The video shows a step-by-step approach to the resection, covering the exposure, access, resection, and confirmation of resection and reconstruction. **Setting:** The surgery was performed in the University of Malaya Medical Centre, a tertiary referral center in the capital of Malaysia. **Participants** Surgery was performed jointly by Professor Prepageran from the department of otorhinolaryngology and Professor Vicknes Waran from the division of neurosurgery. Both surgeons are from the University of Malaya. **Video compilation, editing, and voice narration** was done by Dr. Kong Yew Liew. **Main Outcome Measures:** Completeness of resection and avoidance of intra- and postoperative complications. **Results:** Based on intraoperative views and MRI findings, the tumor was completely resected with the patient suffering only transient diabetes insipidus. **Conclusion:** Central suprasellar tumors can be removed completely via an endoscopic transsphenoidal approach with minimal morbidity to the patient.

Keyword: Choroid plexus; Craniopharyngioma; intraoperative MRI; Third ventricle; Transsphenoidal