Peter Papagiannopoulos, ¹ Gregory Glauser, ² Nithin D Adappa, ¹ Omar Choudhri²

¹Otorhinolaryngology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA ²Neurosurgery, Hospital of the University of Pennsylvania, Philadelphia, USA

Correspondence to

Gregory Glauser, Gregory.glauser@uphs.upenn. edu

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DESCRIPTION

This video illustrates a transcribriform resection of a symptomatic olfactory meningioma (figure 1). The patient described in this video is a 70-year-old man who presented with headaches and dysosmia. He was found to have an expanding olfactory meningioma on radiographic studies. Multiple treatment options were considered, including surveillance imaging, craniotomy for resection of the lesion and endoscopic transcribriform resection. For this case, endoscopic resection was the ideal treatment option as this approach avoids the need for brain retraction, with a higher chance for a Simpson Grade I Resection. The patient underwent endoscopic resection of the lesion with stereotactic navigation and extended skull base exposure with a Draf exposure and a lumbar drain in place. A few important technical nuances are addressed within this video. Of note, the bimanual microsurgical technique is useful for defining tumour margins, which is of the utmost importance in skull base procedures.



Figure 1 Operative view of olfactory groove meningioma.



Video 1 Olfactory groove meningioma, endoscopic resection, transcribriform, skull base.

Learning points

- ► Endoscopic meningioma resection.
- Extended skull base exposure.
- ▶ Uncomplicated postoperative recovery.

Debulking is a key aspect for meningioma resection, which is accomplished through the use of microsuction in conjunction with an ultrasonic aspirator. The bimanual technique enables the surgeon to fully expose and identify the arachnoid plane around the tumour. It is critical to fully develop the arachnoid plane with a no-touch technique on the brain side before the tumour is completely released and removed. The patient made an uncomplicated recovery and was discharged to home with no neurological deficits.

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