



Technical Note

Minimally Invasive Interhemispheric Approach for Giant Olfactory Groove Meningioma: Technical Note

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Background

Skull base tumors, such as large olfactory groove **meningiomas** (OGMs), are a challenge for neurosurgeons. However, the tendency to reduce invasive surgeries is gaining more adepts. We describe a minimally invasive interhemispheric approach with a falx window for **microsurgical** resection of the giant OGM as a technical note.

Methods

A minimal medial frontal **craniotomy** measuring 3–5 cm in size is performed, and an interhemispheric approach is combined with an opening in the falx to improve microsurgical resection of the giant OGM. The technique and more details are described.

Results

A minimally invasive interhemispheric approach with a falx window was performed in this case. Gross total resection of the OGM was possible with minimal brain retraction. Simpson grade I was achieved, and there was a good outcome on the **postoperative recovery** period of the patient, with vision improvement, preservation of **olfaction**, and no other complications.

Conclusions

The minimally invasive interhemispheric approach with a falx window is effective and safe for giant OGM with a good outcome for the patient. The opening in the falx improves the interhemispheric pathway and allows gross total resection with minimal brain retraction and low **morbidity**.

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Key words

Interhemispheric approach; Minimally invasive; Olfactory groove meningioma; Skull base tumors

Abbreviations and Acronyms

OGM, Olfactory groove meningioma; SSS, Superior sagittal sinus

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