Staged Approach for Petroclival Meningioma Resection

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Abstract

Introduction Petroclival meningiomas represent very uncommon and challenging tumors. Surgical morbidity is high due to the difficult and complex approaches to this area. In the present video presentation, we demonstrate a staged‐approach surgical resection for petroclival meningioma.

Patient and Methods A 47-year-old female was incidentally diagnosed with right sizable petroclival meningioma (► Fig. 1). The decision to proceed with a staged approach was made based on size and extension of the tumor to both the middle and posterior fossa. At the first stage we performed a right anterior petrosectomy with the patient in the supine position and the head turned 45 degrees to the left. Residual tumor was left behind along its inferior pole. At the second stage, 2 weeks after the 1st surgery, a right retrosigmoid craniotomy was performed with the patient placed on left park-bench position and the residual tumor was removed. The patient tolerated both stages very well without significant neurological deficits except a transient diplopia after the first stage. Postoperative magnetic resonance imaging (MRI) revealed gross total resection of the tumor.

Conclusion Staged approach for petroclival meningiomas represents a safe and effective surgical management, tolerable for the patient and more comfortable for the neurosurgeon.

The link to the video can be found at: https://youtu.be/QJJchjAwD5c.

Keywords
► petroclival meningioma
► staged approach
► anterior petrosectomy
► retrosigmoid craniotomy

Conflict of Interest
None.

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**Fig. 1** MRI T1 + gad demonstrates a sizable petroclival meningioma. MRI, magnetic resonance imaging.