Resection of middle petroclival meningioma via combined anterior transpetrosal and retrosigmoid approaches at two separate stages: 3D operative video

Ihsan Dogan, MD,¹ Pinar Eser Ocak, MD,¹ G. Mark Pyle, MD,² and Mustafa K. Başkaya, MD¹

Departments of ¹Neurological Surgery and ²Otolaryngology, University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin

Surgical access to the petroclival region poses a challenge to neurosurgeons. A wide range of approaches has been demonstrated in the past. In this video, the authors present a 69-year-old male patient who presented with 3-month history of worsening left-sided numbness. The tumor was totally removed in 2 sessions via anterior transpetrosal and retrosigmoid approaches, respectively. The authors demonstrate 2 separate skull base approaches to resect a petroclival meningioma and discuss pitfalls and problems of management for challenging meningiomas. The authors suggest that surgical approaches to petroclival meningiomas should be selected based on an individual case. A skull base team should be versatile in performing all these approaches.

The video can be found here: <https://youtu.be/BCVrn3TeNvE>.

KEYWORDS skull base; petroclival meningioma; anterior transpetrosal; retrosigmoid

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CORRESPONDENCE Mustafa K. Başkaya, Department of Neurological Surgery, University of Wisconsin Medical School, K4/834 CSC, 600 Highland Ave., Madison, WI 53792. email: m.baskaya@neurosurgery.wisc.edu.