Retrosigmoid Craniectomy for Vestibular Schwannoma with Hearing Preservation

Anthony M. Tolisano1  Ankur R. Patel2  Samuel L. Barnett2  Brandon Isaacson1

1Department of Otolaryngology-Head and Neck Surgery, University of Texas Southwestern Medical Center, Dallas, Texas, United States
2Department of Neurological Surgery, University of Texas Southwestern Medical Center at Dallas, Dallas, Texas, United States

Address for correspondence Anthony M. Tolisano, MD, Department of Otolaryngology-Head and Neck Surgery, University of Texas Southwestern Medical Center, 5323 Harry Hines Blvd, Dallas, TX 75390, United States (e-mail: anthony.tolisano@gmail.com).

Abstract

Objectives To describe a retrosigmoid craniectomy, hearing-preservation approach for resection of vestibular schwannoma.

Design/Setting/Participants A video of a single patient undergoing the above approach at a tertiary care skull base surgery program.

Results This video demonstrates a retrosigmoid craniectomy approach for resection of an enlarging intracanalicular vestibular schwannoma in a patient with normal hearing. The video highlights the pertinent surgical anatomy and outlines in a step-by-step fashion the surgical steps. The patient obtained a gross total resection with preservation of hearing.

Conclusion A retrosigmoid craniectomy approach for vestibular schwannoma offers a potentially hearing preservation approach for selected tumors.

The link to the video can be found at: https://youtu.be/VM663XztRZw.

Conflict of Interest
None.

www.thieme.com/skullbasevideos
www.thieme.com/jnlsbvideos


License terms

received May 30, 2018
accepted August 19, 2018
published online October 15, 2018
Fig. 1  T1-weighted magnetic resonance images with gadolinium demonstrating (A) preoperative axial, (B) preoperative coronal, (C) postoperative axial, and (D) postoperative coronal images of a left intracanalicular vestibular schwannoma.