Published online: 2019-02-26



Skull Base: Operative Videos S285

## Retrosigmoid Approach for Resection of Large Cystic Vestibular Schwannoma

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| Neurol Surg B 2019;80(suppl S3):S285.

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## **Abstract**

Objectives This video was aimed to describe the surgical indications, relevant anatomy, and surgical steps of retrosigmoid approach for resection of a large cystic vestibular schwannoma (VS).

**Design** The operative steps are described in a surgical instructional video.

**Setting** The surgery took place at a tertiary skull base referral center.

Participant Patient is a 62-year-old man who reported with right sided profound hearing loss with no word recognition, progressive dizziness and tinnitus, excruciating burning pain in the V2 distribution of right trigeminal nerve, wide-based gait, and a right cerebellopontine angle (CPA) cystic VS measuring 3.3 cm.

Main Outcome Measures The large cystic VS was resected through retrosigmoid approach.

Results The surgery resulted in removal of the large cystic VS with initial delayed facial weakness that completely resolved (House Brackmann grade 1) by 3 month follow-up. The patient had no other postoperative complications and is convalescing well from the procedure.

**Conclusion** Cystic VS presents some unique challenges compared with their solid counterparts. The cystic tumor capsule may be very adherent to the adjacent structures, and distinguishing thin cyst walls from the arachnoid of the CPA, can be guite challenging. The retrosigmoid approach provides adequate surgical exposure for VS tumor resection. The link to the video can be found at: https://youtu.be/sFNvRWG465Q.

## **Keywords**

- retrosigmoid
- vestibular schwannoma
- acoustic neuroma
- ▶ skull base

Conflict of Interest None.



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received May 31, 2018 accepted after revision November 11, 2018 published online February 26, 2019

DOI https://doi.org/ 10.1055/s-0039-1677850. ISSN 2193-6331.

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