

The focus of [vestibular schwannoma surgery](#) has shifted from low mortality and tumor resection to retention of neurological function. [Hearing preservation](#) is another point in addition to facial nerve function preservation. Hearing preservation rates overall ranged from 2% to 93% in recent studies. Characteristics such as approach, pre-operative neurological function, tumor size, nerve of origin and [fundal fluid](#) of the internal auditory canal have been reported as possible influencing factors ¹⁾.

The presence of fluid in the [fundus](#) on preoperative MRI is predictive of hearing outcomes and should be used in counseling patients who are considering hearing preservation surgery via a middle cranial fossa approach for the treatment of isolated vestibular schwannoma ²⁾.

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Tan HY, Wang ZY, Wu H. [Factors of hearing preservation in acoustic neuroma surgery]. Zhonghua Er Bi Yan Hou Tou Jing Wai Ke Za Zhi. 2017 Oct 7;52(10):783-786. doi: 10.3760/cma.j.issn.1673-0860.2017.10.016. Chinese. PubMed PMID: 29050101.

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Goddard JC, Schwartz MS, Friedman RA. Fundal fluid as a predictor of hearing preservation in the middle cranial fossa approach for vestibular schwannoma. Otol Neurotol. 2010 Sep;31(7):1128-34. doi: 10.1097/MAO.0b013e3181e8fc3f. PubMed PMID: 20657334.

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