

Vestibular Schwannoma Treatment Cost

Research furthering treatment efficacy for microsurgical resection and stereotactic radiosurgery for vestibular schwannoma treatment (VS) is ever-growing; however, there remains a paucity of research addressing treatment costs.

The aim was to define the reported costs of different treatment modalities used for vestibular schwannoma .

A systematic review of the literature for VS treatment cost was conducted in accordance with the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines using PubMed and Web of Science databases. Literature that presented cost of VS treatment specific to the modality was included. Articles from 1990 to present day in English were considered. Cost was corrected for inflation to April 2022 dollars using the US Bureau of Labor Statistics Inflation Calculator. Results A total of 407 articles were included in the analysis. After review, eight articles provided data on cost of treatment. In total, 687 patients were included across seven studies, with study dates ranging from 1997 to 2020. The average cost of resection was \$54,321.99 (range = \$10,243-95,590, n = 8), radiosurgery \$27,837.92 (range = \$6,281-51,676, n = 6), and observation \$6,304.88 (range = \$2,149-11,886, n = 3).

The findings describe the limited and significant variability of data on published costs for the treatment of VS. Given the relative clinical equipoise between treatment modalities in some scenarios, better understanding of this end-point will help physicians make more responsible recommendations in the resource-constrained environment of modern healthcare and this analysis should serve as a starting point for more robust analysis into cost-effectiveness of treatment for VS ¹⁾

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Koester SW, Dambrino Iv RJ, Bhamidipati A, Wong G, Liles C, Feldman M, Chambless LB. Cost of Vestibular Schwannoma Treatment: A Systematic Review and Meta-Analysis. J Neurol Surg B Skull Base. 2023 Oct 18;85(6):659-665. doi: 10.1055/a-2162-1134. PMID: 39483167; PMCID: PMC11524727.

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