

Review on Local and General Anesthesia

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Abstract: *Objective.* To assess hearing results following primary stapes surgery in patients with otosclerosis, comparing local and general anesthesia. *Data Sources.* PubMed, Embase, the Cochrane Library, CINAHL, and Scopus. *Review Methods.* A systematic search was conducted, followed by assessment of directness of evidence and risk of bias. *Studies reporting original data on the effect of local anesthesia, compared to general anesthesia, on closure of air-bone gap in patients undergoing stapes surgery for otosclerosis were included.* *Results.* A total of 257 unique studies were retrieved, of which 3 (including 417 procedures) satisfied the eligibility criteria. *Assessment showed that all studies carried high risk of bias, and only 1 study provided direct evidence.* *Conclusion.* There is no difference in postoperative air-bone gap, worsening of sensorineural hearing loss, and postoperative vertigo between the 2 groups. A statistically significant increased risk of immediate dead ear following stapes surgery performed under general anesthesia was reported in 1 study.

Keywords: Anesthesia

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