

A comparative study of Post-aural approach and End-aural approach for Type-1 tympanoplasty.

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Abstract:

Background & Objectives: Tympanoplasty is preferred procedure of choice for repair of tympanic membrane by otologists. No single technique is best for tympanoplasties as several variables come into play that affect surgical outcomes like size of meatus and perforation, site of perforation, graft source and its placement technique, disease extent which determines the approach to middle ear. Postauricular, Endaural and Permeatal approach are commonly used. We compared postaural and endaural approach to study the outcome in type-1 tympanoplasty in relation to graft uptake, Hearing improvement, Success in various age groups. **Materials and Methods:** This prospective study data was collected from 50 randomly selected patients admitted in ENT department of Shardaben General Hospital. 25 patients underwent type-1 tympanoplasty with postaural approach and 25 with endaural approach. Grafts were all Temporalis Fascia for purpose of uniformity. All grafts were kept by Inlay technique for ease of comparison. **Results:** Percentage of graft taken up in case of endaural approach is 92.0% and in case of postaural approach is 88.0%. Percentage of rejected graft in case of endaural approach is 8.0% and in case of postaural is 12.0%. Hearing gain in case of endaural approach is 11.62 db and in case of postaural approach is 11.24 db. **Conclusion:** Both postaural approach and endaural approach have excellent outcomes and gives equivalent results irrespective of age or sex of the patient or size of perforation. We concluded hearing improvement is same in both endaural and postaural approaches irrespective of other factors.

Key Words: End-aural, Post-aural, Tympanoplasty type-1.

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