

**Effects of Temporalis fascia and Cartilage island graft in type 1 tympanoplasty**Dr. Kalpesh Patel<sup>1</sup>, Dr. Abhishek Gugliani<sup>2</sup>, Dr. Dhvani Mehta<sup>3\*</sup>, Dr. Rajesh Vishwakarma<sup>4</sup>

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**Abstract:**

Our objective of the study was to compare the outcomes of type 1 tympanoplasty using temporalis fascia and cartilage island graft, which was done in a tertiary hospital as a prospective study. **Materials & method:** Out of 80 patients, 40 underwent tympanic membrane repair using temporalis fascia as the graft while in the other group, tragal cartilage was used. Patients having >50 % perforation of tympanic membrane, a dry ear for > 1 month, and intact ossicular chain with pure conductive hearing loss were included in the study. Result: At 9 months follow up, the graft uptake was 90 % for temporalis fascia and 97.5 % for cartilage island graft. There was no significant difference in post-operative hearing between the two groups. **Conclusion:** Graft take up rate is higher when cartilage island graft is used. There is a significant improvement in hearing status using both temporalis fascia graft and cartilage island graft but no significant difference when the two are compared..

**Keywords:** Cartilage, Hearing, Temporalis fascia, Tympanoplasty.