Comparative Study Of Cartilage Tympanoplasty And Temporalis Fascia Tympanoplasty In Young Patients

Dr. Shivani Patel

(Department Of ENT, G.M.E.R.S Medical College, Gandhinagar, Gujarat, India)

Dr. Khyati Patel

(Department of ENT, G.M.E.R.S Medical College, Valsad, Gujarat, India)

Dr. Grishma Sakariya

(Department Of ENT, G.M.E.R.S Medical College, Gandhinagar, Gujarat, India)

Dr. Prachi Patel

(Department Of ENT, G.M.E.R.S Medical College, Gandhinagar, Gujarat, India)

Abstract

Background

Hearing is one of the most vital senses, and its restoration remains a primary concern for ENT surgeons. This comparative study aims to evaluate and enhance our understanding of different graft materials used in Type I tympanoplasty, focusing on graft uptake and audiological outcomes in young patients.

Materials and Methods

This study was conducted at the Department of Otorhinolaryngology, GMERS Medical College, Gandhinagar, Gujarat. A total of 30 patients, aged between 14 to 18 years, who underwent Type I tympanoplasty, were enrolled and divided into two groups:

- Group A (n = 10): Underwent cartilage tympanoplasty (tragal cartilage).
- Group B (n = 20): Underwent temporalis fascia tympanoplasty.

Results

- The graft uptake rate in the cartilage group was 90%.
- The graft uptake rate in the temporalis fascia group was 85%.
- Audiological improvement was found to be better in the temporalis fascia group.

Conclusion

Cartilage tympanoplasty demonstrated a higher graft uptake rate, whereas temporalis fascia grafts yielded better audiological outcomes. Although both parameters are important, the durability of the graft material plays a more critical role. Therefore, cartilage is preferable in cases with a high risk of graft failure specially in young patients.

Date of Submission: 15-04-2025 Date of Acceptance: 25-04-2025