

COMPARISON OF HEARING RESULTS OF TYPE III TYMPANOPLASTY WITH MASTOIDECTOMY WITH OR WITHOUT AUGMENTATION OF STAPES HEAD

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ABSTRACT:

Background: To assess and compare the hearing results in patients undergoing tympano mastoidectomy with classical type III tympanoplasty using temporalis fascia alone and with cartilage augmented type III tympanoplasty.

Methods: Patients of 5 years of age or more with the diagnosis of chronic otitis media (squamous) with conductive or mixed hearing loss, who underwent classical type III tympanoplasty with or without cartilage augmentation, were included in the study. Pure tone audiometry (PTA) was performed and patients were clinically evaluated. Post-operative hearing was assessed in terms of average air bone gap (ABG) and size of ABG closure. Post-operative hearing results were compared in between classical type III and cartilage augmented type III tympanoplasty groups.

Results: When comparing average post-operative ABG and size of ABG closure between classical and cartilage augmented type III tympanoplasty, cartilage augmented group showed marginally better results but this difference was statistically not significant.

Conclusions: Hearing results after type III tympanoplasty varied widely. There was no statistically significant improvement in post-operative hearing results in cartilage augmented tympanoplasty when compared to classical type III tympanoplasty, suggesting possibility of the effects of multiple other factors.