

OTORHINOLARYNGOLOGY

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Type I tympanoplasty using an underlay cartilage graft in children having contralateral otitis media with effusion secondary to enlarged adenoids

Introduction & Aim: The use of cartilage grafts in tympanoplasties is recommended in cases with a higher probability of failure. In children, such cases make cartilage tympanoplasty the ultimate choice. Therefore, this research was designed to address the proper surgical plan and technique in children with chronic suppurative otitis media (CSOM) with otitis media with effusion (OME) in the contralateral ear secondary to enlarged adenoids.

Materials & Method: Children with unilateral CSOM were selected for the study. Anatomical (otoscopic) and functional (audiologic) evaluation was fulfilled both pre and postoperatively. The condition of the other ear divided the patients into two groups: group I with normal other ear and group II with OME due to enlarged adenoids. Patients of the second group had endoscopic guided adenoidectomy using microdebrider and myringotomy with insertion of ventilation tube three months prior to cartilage tympanoplasty. All patients had underlay cartilage tympanoplasty in the CSOM side and followed up for variable periods.

Results: The management plan for CSOM proved successful in both groups (100% in the first and 85.18% in the second) with remarkable improvement in the air-bone gap (ABG). Stepwise regression analysis revealed that preoperative ABG was the best predictor of success followed by condition of the other ear.

Conclusions: Underlay cartilage tympanoplasty is a successful technique in the management of CSOM in children even if associated with OME secondary to enlarged adenoids.

Biography

Mohamed Wael Mustafa is the Head of Audio-vestibular Department, South Valley University, Qena, Egypt. He is also playing the role of Department Head of Audio-vestibular Medicine from past one year. He has published many research papers in the field.

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