

Success rate of tympanoplasty in chronic suppurative otitis media patients: A retrospective study

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Abstract

Abstract Objectives: This study aimed to determine success rate of tympanoplasty in CSOM patients & its prognosticating factors. **Design and setting;** A facility based retrospective cross sectional study design was employed to assess the characteristics of chronic suppurative otitis media patients and the success rate of tympanoplasty of patient who underwent surgery at ORL-HNS of SPHMMC, Addis Ababa, Ethiopia. **Methods:** Ninety patients who had undergone tympanoplasty in the year 2019 from a retrospective database were studied. Data was collected using a structured checklist and analysed using SPSS 25. Baseline profiles of participants were computed using descriptive statistics. Paired t-test was used to compare preoperative and postoperative ABG results. Multiple regression analyses of potential factors (intra-& pre-operative characteristics) were used to identify predictors for success of tympanoplasty while the level of significance was set at $p < 0.05$. Anatomical success was defined as a complete integration of the graft and functional success as an ABG closure of $[?]20\text{dB}$ after 6 months postoperatively. **Results:** The postoperative anatomical & functional success rates for tympanoplasty were 81.1% and 60%, respectively. According to the statistical results of the study, neither the anatomic success nor the functional was found to be prognosticated by the potential factors analyzed. **Conclusion:** Tympanoplasty is an effective surgical procedure that can result in improved auditory function in patients and prevents complications satisfactorily irrespective of baseline characteristics. With tympanoplasty, the ear heals and the patient hears. **Keywords:** Tympanoplasty; CSOM; success rate; SPHMMC Succinct points: Endaural Tympanoplasty; temporalis fascia graft; air bone gap in dB; endoscopic tympanoplasty; 6months follow up period

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