

## Involvement of Ossicular Chain and Its Management in Chronic Suppurative Otitis Media

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### Abstract

**Background:** Chronic suppurative otitis media is commonly found in children. Otorrhea is present if there is a perforation of the tympanic membrane. We in the current study tried to Reconstruction of ossicular chain using graft materials. To compare pre-operative and post-operative hearing thresholds (Air Bone Gap dB) in patients who underwent ossiculoplasty.

**Methods:** This cross-sectional study was performed in the Department of ENT, Prathima Institute of Medical Sciences, Naganoor, Karimnagar. Based on the inclusion and exclusion criteria n=40 cases were studied in this study. intact canal wall and canal wall down procedures were included. The operations were performed under local or general anesthesia. **Results:** N=35 patients (87.5%) had a hearing threshold of more than 30 dB. The type of procedure performed was intact canal wall technique in n=32(80%) of cases and canal wall down technique was used in n=8(20%) of cases. n=15 patients (37.5%) had air conduction threshold within 30db and n=17 patients (42.5%) had > 30 dB in intact canal wall procedure and canal wall down procedure n=6 patients had air conduction threshold >30 dB. **Conclusion:** In our study, in patients with safe chronic suppurative otitis media, we have found good hearing results in patients implanted with autogenous cartilage and bone. These are easily available and cost-effective. Moreover, they are stable and are easily accepted by the body and are never extruded out.