

AB122. SOH21AS072. Total endoscopic ossiculoplasty

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Background: Over the past few decades, the endoscope has been increasingly introduced and utilized in ear surgery with growing tendency towards a totally endoscopic technique and a less invasive surgery. The purpose of this study is to present our experience with endoscopic ossicular chain reconstruction (OCR), and evaluate the postoperative audiometric and functional outcomes.

Methods: Retrospective review of a single institution experience with total endoscopic OCR over a one-year period. Audiometric results were evaluated before and after ossiculoplasty including bone and air pure-tone averages (PTA) and air-bone gap (ABG).

Results: Total endoscopic OCR was performed in 15 patients. Patients were subdivided based on prosthesis type [total ossicular replacement prosthesis (TORP) and partial ossicular replacement prosthesis (PORP)], and whether primary or staged ossiculoplasties. TEES was successfully performed in all patients without resorting to a retroauricular incision. Patients were evaluated for postoperative hearing levels which were found to fall within an acceptable range and for postoperative ABG by pure tone audiometry with a resulting mean of 9.2 dB.

Conclusions: Endoscopic ossiculoplasty appears to provide

superior visualization and satisfactory early audiological outcome with smooth postoperative recovery.

Keywords: Endoscopic ear surgery; ossiculoplasty; ossiculoplasty outcomes; total ossicular reconstruction prosthesis; transcanal

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Footnote

Conflicts of Interest: The authors have no conflicts of interest to declare.

Ethical Statement: The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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