

## Endoscopic Assisted Ear Surgeries: A Case Series

**Shreya Rai,**

Civil Hospital Ahmedabad, India

### Abstract

Microscope have been used for surgeries of middle ear, mastoid and lateral skull base for decades but there is a need for a change with the advent of endoscope and its fineness to visualise various structures. Our philosophy is that the curves and niches of the middle ear are best visualised by the endoscope rather than straight line view of the microscope. Microscope is mainly the domain of the mastoid. We are not surgeons of the tool we are surgeons of the ear. Thus we need to combine both for the benefit of the patient. The aims of our study is to see the endoscopic anatomy of the ear and perform various surgeries using it. This study is a prospective analysis of 50 patients diagnosed with chronic suppurative otitis media with tympanic perforation and/or adhesive drum in our tertiary care referral centre. The period of study was from January 2017 to January 2019. Fifty patients were taken for the study. The mean age was 30.47 years. Thirty-three patients (66%) were males and seven (14%) were females. There were 30 cases (60%) in which type 1 underlay tympanoplasty was done and in 10 cases (20%) of type 2 tympanoplasty was done, 5 cases (10%) of exploratory tympanotomy and in 5 cases (10%) atticotomy was done. In 38 patients (76%) tragal cartilage was used and in rest 12 (24%) fascia lata graft was used. In patients with tympanic membrane perforation 35 (70%) had blocked ventilation pathway which was cleared and thus showed no failure rates post op. Graft uptake was seen in 46 cases (92%) and there was mean AB gap of 35.8 which was reduced to 16.06 post op.

Thus to conclude one should routinely use endoscope to see middle ear anatomy even while operating through post aural routes. Ventilation pathway are best visualised and if blockage present are cleared by the endoscope. The future of endoscopic ear surgery lies in approach to the lateral skull base via sub cochlear tunnel with minimal morbidity.

### Biography

Dr Shreya Rai is an ENT surgeon working in Public sector hospital in India. She thrives to be a surgeon who is always evolving and focussed on research. She along with her mentor Dr Bela J Prajapati are focussed on developing role of endoscope in ear surgeries and lateral skull base surgeries. Due to their work in public sector their funding is restricted though that has not stopped them from focussing on development of their skills. She strives to show how even in a developing nation with limited resources the era of microscope based ear surgeries can change.

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