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### Initial experience of endoscopic ear surgery in Bangladesh

**Background:** Endoscopic ear surgery is an emerging technique with recent advancement highlighting advantages over the traditional microscopic approach. In Bangladesh we started doing myringoplasty since 2005 with otoendoscope and stopped due to few problems but again, since 2007, all types of middle ear surgeries with nasal endoscopes has been being done with bright, wide & clear view. We did different types of Transcanal Tympanoplasties, ossiculoplasties, stapedotomies, also few cholesteatoma surgeries by endoscope. As Rigid endoscopy allows for wide-field view of the surgical field improved resolution with high magnification, and the ability to look around corners, enabling direct visualization of the hidden recesses including the retrotympanum, epitympanum, supratubal recess, peritympanum and hypotympanum, granulation tissue or cholesteatoma matrix can be removed easily.

**Methods:** A cross sectional study done during March, 2010 to June, 2014 in otolaryngology & Head-Neck surgery dept of Bangabandhu Sheik mujib Medical University (BSMMU) after having permission from Eethical review board of the University.

**Results:** During the study period 1200 different types of transcanal Endoscopic Tympanoplasties like underlay & interlay tympanoplasty using different graft matrials, temporalis fascia, perichondrium, cartilage with graft taken up rate & hearing gain equivalent with tympanoplasty done by microscope. 517 different types ossiculoplasties and stapedotomies were done with similar hearing gain done by microscope. 117 cholesteatoma surgery – Atticotomy, attico-antroostomy with reconstruction have been done without any major complication or recurrence. Learning curve of surgery among the residents is higher with endoscope.

**Conclusions:** Endoscopic ear surgery is a new technique that is gaining momentum in Bangladesh and there is enthusiasm for its incorporation into future practice. Further investment in training courses and guidance for those who looking to start or advance the use of endoscopes in their practice will be vital in the the years to come.

### Biography

Md Monjurul Alam has been working as Professor of Otolaryngology & Head - Neck Surgery at Bangabandhu Sheikh Mujib Medical University (BSMMU), Shahbag, Dhaka since 2010. He Passed MBBS from Rajshahi Medical College, FCPS (ENT) from Bangladesh College of Physicians & Surgeon, Qualified MS in Otolaryngology from Dhaka University,obtained FICS from USA. He got advanced training in Micro-ear Surgery, FESS & RhynoPlastic Surgery, Snoring & Sleep Surgery, LASER Surgery, Skull-Base surgery from USA, UK, Australia, India, Singapore, Bangkok, Malaysia & different countries of Europe. He is a pioneer of Endoscopic Ear surgery in Bangladesh. He actively participated in workshop, seminar, conference, Congress in different countries. He has more than 80 articles published in different national & international journals.More than 5 research works has been going on under his supervision in BSMMU.

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