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Endoscopic approach for stapedectomy: A series of cases in a teaching hospital from Brazil

Henrique F Pauna, Luiz H Chequim, Raquel A Lauria, Alexandre C Guimarães, Vagner A Rodrigues, Walter A Bianchini and Arthur M Castilho
University of Campinas, Brazil

Surgical management of otosclerosis is one of the therapeutic options, and differential diagnosis includes ossicular malformations, oval or round window atresia, congenital cholesteatoma, middle ear tumors, or ossicular trauma. Recent advances in endoscopic surgery have provided greater evolution within the concept of minimally invasive procedures. Endoscopic stapes surgery is becoming one important option to treat otosclerosis, however, only few studies have described their techniques and results. Here we describe our experience using endoscopic approach on stapes surgery. Eight patients underwent to complete endoscopic stapes surgery. Three of the patients were submitted to conventional stapes surgery with surgical microscope helped with an endoscope. All of the eight patients were submitted to stapes surgery with local anesthesia. Six patients had their complete audiological evaluation with a closing gap after the surgery. Only one patient had no audiometry after the procedure because of the short period of time after his surgery. The duration of the surgery – endoscopic or conventional – was a longer in endoscopic approach, however it was not significant. Endoscopic stapes surgery is an option available for training and also an option to treat otosclerosis. Our results may help to improve data regarding this subject.

h_pauna@hotmail.com