

Endoscopic Approach for Stapedectomy: A Series of Cases in a Teaching Hospital

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ABSTRACT

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 8 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.

RECENT PUBLICATIONS

- 1- Pauna HF et al. (2017) Evidence Against the Mucosal Traction Theory in Cholesteatoma. *The Laryngoscope*, accepted in August 29th.
- 2- Guimarães AC, Pauna HF, et al. (2017) Speech Language Development After Cochlear Implants in Pre-Lingual Children According to the Age of Implantation. *Indian J Otol.* 23(3). DOI:10.4103/indianjotol.INDIANJOTOL_50_17.
- 3- Pauna HF et al. (2017) Cochlear Implants in Labyrinthitis Ossificans. *Chron J Otolaryngol.* 1(1):3-7.
- 4- Pauna HF et al.(2017) Multidisciplinary Approach to the Patient with Obstructive Sleep Apnea. *J Otol Rhinol.* 6:4.
- 5- Pauna HF and Carvlho GM. (2017) Surgical Approach for Cerebello-Pontine Angle Lesions and Vertigo. *Chron J Otolaryngol.* 1(1):1-2.



BIOGRAPHY

Henrique F. Pauna is a M.D. and completed his ENT training in 2015. He has his expertise in otopathology and middle ear diseases. He underwent to a Research Fellowship at the University of Minnesota, under the supervision of Dr. Michael M. Paparella and Dr. Sebahattin Cureoglu, from 2015 to 2016. He is now a Ph.D. student at the University of São Paulo – Ribeirão Preto, focusing his research in meningitis and hearing loss. Additionally, he is a volunteer at the University of Campinas, teaching 4th year students about ear anatomy and pathologies of the ear.