

## THE AUDIOLOGICAL RESULTS POST-STAPEDOTOMY/STAPEDECTOMY

Mas Diana Samsudin

The retrospective study was done with the purpose to review the audiological results of patients who underwent stapes surgery due to otosclerosis. 19 samples from 16 subjects, whose names were listed in the operation theatre record of the ENT Department, HUKM had been chosen via purposive sampling method. 9 subjects (56.3%) were female and 7 subjects (43.7%) were from the male population. Age ranges from 28 to 56 years old. Stapedotomy, which is the primary technique used in stapes surgery had been performed in 14 subjects (73.7%), whereas the other 5 subjects (26.3%) had undergone stapedectomy. All data was analysed descriptively and statistically. Research findings were categorized into three main components, namely, air conduction threshold, bone conduction threshold and also the air-bone gap. Improvement in hearing is seen as difference in mean of the pre- and post- surgery results. Wilcoxon Sign Rank test had been applied to see the significance of the differences. Other than that, difference on hearing results of the two surgical methods was also assessed by using Mann-Whitney's U test. Overall, all samples had shown significant differences on hearing results at all of some of the test frequencies pre- and post-operatively. It is found that there is no significant difference between stapedotomy and stapedectomy results.

Samsudin, M. D. 2002. The Audiological Results Post-Stapedotomy/Stapedectomy. Bachelor of Audiology Thesis. Universiti Kebangsaan Malaysia.