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Prevalence of otological disorders in diabetic patients with hearing loss

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Diabetes mellitus is a systemic metabolic disease, characterized by fluctuating levels of glucose which affects multiple organs. Hearing loss is one of the most common otological disorders in adults with diabetes. This study aims to evaluate the prevalence of otological diseases and hearing loss patterns in adults suffering from diabetes. A total of 174 diabetic patients with hearing loss visiting MAA ENT Hospitals, Hyderabad, India constituted the study subjects. The patient's age ranged from 40-80 years and the diagnosis was confirmed by otological examinations. Hearing loss was evaluated using pure tone audiometry and average for the frequencies at 0.5, 1, 2, 4 and 8 kHz was recorded. Binary logistic regression analysis was used to determine the association risk factors with hearing loss in diabetes subjects. In the present study, otitis media (60.3%), presbycusis (27%) and otosclerosis (4.6%) were the common otological disorders in diabetic patients with hearing loss. 41.1% of the total subjects were also affected with tinnitus. 44.3% of the subjects showed conductive, 38.5% is sensori-neural and 17.2% is of mixed hearing loss. The prevalence of sensori-neural hearing loss in tinnitus subjects is 34.3% which was more compared to the patients without tinnitus. It was also observed that there was a significant association of sensorineural hearing loss (OR=4.23; 95% CI=2.10-8.49; $p<0.001$) with >60 years of age group. The present study revealed significant association of sensorineural hearing loss in elderly patients affected with co-morbid condition of diabetic mellitus.

Biography

Manche Santoshi Kumari is pursuing her PhD from Osmania University and is a research scholar of Institute of Genetics and Hospital for Genetic Diseases. She is currently working as scientist in MAA Research Foundation, Hyderabad, India.

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