



TITLE: Effect of tinnitus on the performance of central auditory system: a review

Name: Behieh Kohansal

Affiliation: Instructor, Department of Audiology, School of Rehabilitation, Arak University of Medical Sciences, Arak, Iran

Country: Iran

Email ID: kohansal.b@gmail.com

ABSTRACT (upto 300 words)

Background and Aim: Tinnitus is one of the most difficult challenges in audiology and otology. Previous studies have been shown that tinnitus may interfere with the function of central auditory system (CAS). Involvement of CAS abilities including speech perception and auditory processing has led to serious problems in people with tinnitus. Due to the lack of enough information about the impact of tinnitus on CAS and its function, and given that there is no standardized protocol for assessment and management of tinnitus, this study aimed to review the studies on the effect of tinnitus on the CAS function.

Recent Findings: Sixteen eligible articles were reviewed. Temporal and spectral resolution, frequency differentiation and speech perception deficits were reported in patients with tinnitus, especially in background noise. This was reported even in tinnitus patients with normal hearing.

Conclusion: Assessment of central auditory processing and speech perception in noise seems to be useful for proper management of tinnitus in clinical practice.

BIOGRAPHY (upto 200 words)

I have completed Master of Science in Audiology at the age of 23 years from Tehran University of Medical Sciences, Tehran, Iran. I am the head of Audiology department in school of rehabilitation, Arak University of Medical Sciences, Arak, Iran. I have 8 publications, and my publication h-index is 1. I have been a member of Scientific Committee of Iranian Association of Audiology from 2021.

Presenter Name: Behieh Kohansal.

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Contact number: +98 918-361-2227

