

# WORLD NEUROSCIENCE SUMMIT

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## **The relation between central auditory processing disorder and Alzheimer disease: Psychoneurological interactions**

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Central auditory processing problems like peripheral auditory problems have negative effects on psychosocial performance and quality of life in older adults. Difficulties in speech perception especially in crowded environments cause withdrawal from family gatherings and communication. Older adult with age-related central auditory processing disorder because of distress and mental pressure due to lack of speech perception tend to be isolated and lonely. Isolation can affect emotional health and make depression and anxiety in older adults. So increased level of oxidative stress associated with depression and several studies have been shown oxidative stress is a main risk factor for Alzheimer disease. Performing central auditory processing tests is very important to identification of CAPD in older adults and we can early start the rehabilitative strategies according to plasticity as the brain's ability to change neuronal connections and neuroscience principles. Peripheral and Central auditory system have interplay together. The role of peripheral auditory system is reception and translation of auditory signals and sends them to the higher auditory centers (bottom-up mechanisms). Auditory signals processing in central auditory system lead to top-down mechanisms of perception.

### **Biography**

I have completed my PhD at the age of 31 years from Iran University of Medical Sciences, Iran. I am an assistant professor of Babol University of Medical Sciences, Iran. I do research in Audiology and Alzheimer's disease.

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