#### 17th Annual Congress on

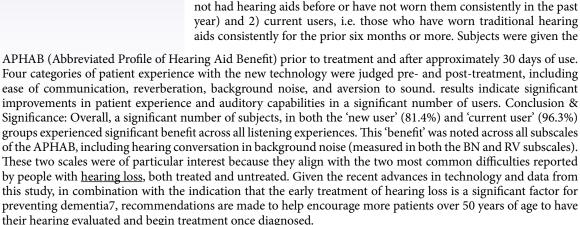
## **Neuroscience**

July 18-19, 2022 | Webinar

Keith N. Darrow, J Alzheimers Dis Parkinsonism 2022, Volume 11

# Hearing loss & increased risk of dementia: Treatment options

Hearing loss is estimated to plague nearly 500 million people worldwide and can grow to affect 1 billion by 2050. With advances in modern medicine that extend the human life-span, rates of presbycusis (i.e. age-related hearing loss) will only continue to increase, and for many, is considered inevitable as a result of genetic disposition1. The hallmark features of presbycusis are a progressive loss of cells within the cochlea followed by, or in tandem with, a degeneration of nerves throughout the central auditory pathway2. Presbycusis has a major impact on social, emotional and cognitive health by increasing the risks of isolation, depression, cognitive decline and dementia. Recent reporting indicates that hearing loss can increase the risk of cognitive decline and dementia by a factor or 200%-500%, depending on degree of loss3. Current treatment for presbycusis with hearing aids is encouraging and indicated to improve quality of life4, increase cognitive function5, reduce tinnitus6, and reduce the risk of cognitive decline7, and perhaps slow down, the progression of dementia8. However, estimates indicate that nearly 50-80% of people do not treat their hearing loss for several reasons including price, aesthetics and believing that they provide minim al benefit (i.e patient dissatisfaction). The goal of this study is to understand if new hearing loss treatment technology that can enhance semantic features of speech and reduce background noise can increase patient satisfaction. Methodology & Theoretical Orientation: Study participants of older adults with presbycusis included two groups: 1) new users (i.e. those who have not had hearing aids before or have not worn them consistently in the past





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#### **Biography**

Dr. Keith N. Darrow is a Harvard Medical School and M.I.T. trained <u>neuroscientist</u>, clinical audiologist, tenured professor, author of two Amazon. com best-selling books and Director of Treatment at AuDExperts. Dr. Darrow's clinical experience is vast and includes a clinical fellowship at the Department of Otolaryngology at Brigham and Women's Hospital and he is co-founder of the Hearing and <u>Brain</u> Centers of America. Dr. Darrow has chosen to lead the Excellence In Audiology movement across the country to improve the lives of the 42 million people living with untreated hearing loss. Dr. Darrow is a nationally recognized speaker, trainer, and researcher and has been conducting research at the Massachusetts Eye and Ear Infirmary for over fifteen years. His publications and research have been cited over 1000 times

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