

WASHINGTON, Oct. 10, 2013 /PRNewswire-USNewswire/ -- As research showing a link between hearing loss and cognitive function mounts, the [Better Hearing Institute](#) is urging people to pay close attention to their hearing and take a confidential online hearing check at www.hearingcheck.org in recognition of National Alzheimer's Disease Awareness Month in November. BHI is raising awareness of the relationship between hearing loss and dementia, and is underscoring the importance of addressing hearing loss for the benefit of overall cognitive function. Today, nearly 40 million people in the United States have some degree of hearing loss.

While the causality requires further investigation, the increasingly evident link between hearing loss and dementia elevates the urgency of diagnosing and treating hearing loss as soon as possible.

A [study](#) published earlier this year found that hearing loss is associated with accelerated cognitive decline in older adults. Conducted by Johns Hopkins otologist and epidemiologist Frank Lin, M.D., Ph.D. and other hearing experts, the study found that older adults with hearing loss are more likely to develop problems thinking and remembering than older adults whose hearing is normal. According to a [Johns Hopkins press release](#), volunteers with hearing loss, undergoing repeated cognition tests over six years, had cognitive abilities that declined some 30 to 40 percent faster than in those whose hearing was normal. The researchers also found that the greater the hearing loss, the greater the levels of declining brain function.

In a 2011 [study](#), Lin found that seniors with hearing loss are significantly more likely to develop dementia over time than those who retain their hearing. The study also found that the more hearing loss they had, the higher their likelihood of developing dementia.

Exploring the hearing loss-cognition connectionOther studies have shown related findings, including several involving Brandeis

University

Professor of Neuroscience, Dr.

Arthur Wingfield

. For many years, Wingfield has been studying cognitive aging and the relationship between memory and hearing acuity.

Wingfield and his co-investigators have found that older adults with mild-to-moderate hearing loss performed poorer on cognitive tests than those of the same age who had good hearing. These findings have included a significant interaction between hearing acuity and the level of difficulty listeners experience in cognitively processing linguistic information—which is a higher-level brain activity than simply interpreting the sound.

These findings, Wingfield says, suggest that the listener's hearing ability not only affects their sensory processing of auditory information, but that it also affects higher level linguistic processing.

The study participants with hearing loss expended so much cognitive effort on trying to hear accurately, Wingfield concluded, that it diminished their ability to comprehend rapid speech and remember what had been heard.

More recently, Wingfield, along with colleagues at the University of Pennsylvania and Washington University

in

St. Louis

, used MRI to look at the effect that hearing loss has on both brain activity and structure.

Their study found that people with poorer hearing had less gray matter in the auditory cortex, a region of the brain that is necessary to support speech comprehension. Wingfield believes that the participants' hearing loss had a causal role. He and his co-investigators hypothesize that when the sensory stimulation is reduced due to hearing loss, corresponding areas of the brain reorganize their activity as a result.

"The sharpness of an individual's hearing has cascading consequences for various aspects of cognitive function," said Wingfield. "We are only just beginning to understand how far-reaching these consequences are."

"Even if you have just a mild hearing loss that is not being treated, you have to put in so much effort just to perceive and understand what is being said that you divert resources away from what you would ordinarily use to store what you have heard in your memory," Wingfield continued. "Cognitive load increases significantly."

As people move through middle age and their later years, Wingfield suggested, it is reasonable for them to get their hearing tested annually. If there is a hearing loss, it is best to take it seriously and treat it.

For more information on Alzheimer's disease and National Alzheimer's Disease Awareness Month, visit the Alzheimer's Association at www.alz.org.

Hearing aids can benefit people with Alzheimer's disease and hearing loss—and their caregivers BHI reminds people with Alzheimer's disease and their caregivers that hearing health is an important factor in their quality of life. The ability to communicate with the help of hearing aids can help [enhance quality of life](#) for individuals with Alzheimer's and their caregivers.

BHI advocates that hearing checks, hearing healthcare, and hearing aids when appropriate be included in the regimen of care for people with Alzheimer's disease. Identification and remediation of hearing loss prior to the evaluation of dementia also can help ensure a more accurate medical evaluation. BHI advocates that a comprehensive hearing examination and hearing healthcare be part of the diagnostic process.

For information about the 10 Early Signs and Symptoms of Alzheimer's, visit www.alz.org/10signs.

Dementia-Hearing Loss Link Warrants Routine Hearing Checks, BHI Stresses for National Alzheimer's Dis

Written by Australian Business

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