Revealed: Hearing Loss
The #1 Most Modifiable Risk Factor of Dementia

By Dr. Keith Darrow, PhD
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Mt. Harrison Audiology
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INTRODUCTORY LETTER FROM DR. DARROW

“Everyone knows someone who is a cancer survivor, but no one knows an Alzheimer’s survivor.” – Dr. Bredesen

Thank you for taking the time to read this updated report detailing the links of Hearing Loss and Dementia. There are always new reports coming out helping us to better understand the science of Dementia and ways to help us avoid the devastating fate of a Dementia diagnosis. Perhaps the most impressive report I recently read was from a European Dementia commission titled: Dementia Prevention, Intervention, and Care published in the Lancet Journal.

Let’s start by reviewing some of the facts about Dementia. Nearly every 3-4 seconds another individual is diagnosed with Dementia. The average annual cost to care for a loved one with Dementia is approximately ~$57,000 per year. Nearly 50% of all cases of Dementia are Alzheimer’s related. And, there is not a SINGLE drug available on the market approved to treat Alzheimer’s.

Perhaps even more troubling, is that the Government spends nearly 13 times less on Dementia research than on Cancer research. And in case you missed the recent headlines, Pfizer, one of the world’s largest pharmaceutical companies, has decided to close its Dementia research center.

But, not all news is bad news. In fact, the Lancet report highlighted that nearly 35% of all Dementia cases are considered preventable. Phew! The report even laid out the most important modifiable lifestyle factors that can help each of us prevent Dementia.

And (not surprisingly), the #1, single most modifiable factor for preventing Dementia is the treatment of hearing loss. Yes, reducing obesity, diabetes, and/or cardiovascular disease are important. It is also important to increase social activity, enhance our education, and supplement our nutrition. These can all play a part in helping us to prevent Dementia; but none, even when combined, are nearly as effective as the treatment of hearing loss. I think Dr. Doraiswamy, a Neuropsychologist from Duke University said it best:

“The benefits of correcting hearing loss on cognition are twice as large as the benefits from any cognitive-enhancing drugs now on the market. It should be the first thing we focus on.”

I believe you will find the information in this report helpful when wanting to learn more about your cognitive health and when it comes to choosing the right treatment plan for you. I encourage you to take advantage of our courteous offer to provide a hearing evaluation and cognitive assessment for all new patients at no-charge. Feel free to call the office at 1 (508) 714-7409 to schedule your appointment.

Sincerely,

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Amazon #1 New Release & Best-Selling Author
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Director of Audiology Research at Intermountain Audiology
Professor at Worcester State University
Nationally Recognized Speaker, Trainer, and Researcher
Research Associate at Massachusetts Eye and Ear Infirmary
His publications and research cited over 550 times

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Recent research has found that hearing loss can increase the risk of developing Dementia by 200-500%. This report, from researchers at Johns Hopkins Medical Center and the National Institute on Aging found that individuals with hearing loss (when compared to participants with normal hearing) are at a significantly higher risk of developing Dementia overtime. The more hearing loss they had, the higher their likelihood of developing the memory-robining disease. “A lot of people ignore hearing loss because it’s such a slow and insidious process as we age,” Dr. Frank Lin (of Johns Hopkins Medical Center) says. “Even if people feel as if they are not affected, we’re showing that it may well be a more serious problem.”
Research Report: Summary
Hearing Loss & Dementia

Three risk factors associated with hearing loss and Dementia include Social Isolation, Cerebral Atrophy and Cognitive Overload.

1. Social Isolation - The Impact of reduced social and physical activity. Withdrawal from social situations is common in individuals with hearing loss. Many studies cite feelings of embarrassment, fear of making mistakes in conversations, and feeling like you are not part of the conversation as the common rational for individuals with hearing impairment to separate themselves from family, friends and community. This retreat from social activity has even been found in individuals with a mild degree of hearing loss. In addition, individuals with hearing loss are less likely to engage in physical activity. Both increased social isolation and reduced physical activity are strong risk factors for the development of Dementia.

Active Aging: How to Reduce Social Isolation

Active Aging – the process of optimizing opportunities for better health, continuing development of knowledge, and increased security in order to maximize quality of life as you age. The word ‘active’ is used to describe a person’s involvement with social, physical, economic, spiritual and civic affairs. We all share the same goal to maintain autonomy and independence as we age, and thus we must rely on preserving the tenants of interdependence (socialization and reliance on family and loved ones) and intergenerational solidarity (maintaining companionship with age-matched peers) to insure active aging.

Both Social Isolation and Depression are major risk factors for the development of Dementia, and both increase as we age. Being a lifelong learner and staying active is important to maintain a healthy, active brain, and can also reduce your risk of cognitive decline and dementia. Some studies have shown that social activities, larger social networks, and a history of social contact are associated with better cognitive function and reduced risk for cognitive decline.

Blindness Separates You From Things... Deafness Separates You From People.

Quote by Helen Keller

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Cerebral Atrophy (aka Brain Shrinkage)

The association of a shrinking brain, resulting from the loss of neurons, with Dementia has been long documented. Even people with MCI (Mild Cognitive Impairment) show signs of cerebral atrophy. In recent years, scientific studies using advanced brain imaging techniques (including fMRI - Functional Magnetic Resonance Imaging) have demonstrated that hearing impairment is associated with accelerated brain atrophy in both the overall brain, as well as even more advanced reductions in volume associated with the memory, hearing, speech and language portions of the brain.

Individuals with Hearing Loss can experience significant cerebral atrophy. The most significant reduction in cerebral volume occurs in areas involved in:

- Memory
- Speech
- Hearing
- Language

Tips for Active Aging include:

- Share a meal with family and friends 3-5 times per week
- Commit to an aerobics / exercise regiment
- Learn a new hobby each year
- Play an instrument (learn a new instrument if you already know how to play one)
- If you love to read.... Keep reading.
- If you don’t read much – try to read a book every other month
- Participate in classes at your local senior center
- Volunteering at a local hospital, shelter, etc.,
- Go back to school! Many local Universities offer free tuition to individuals over the age of 65.

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Research Report: Summary
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Cognitive Overload (i.e. Working Your Brain Too Hard To Hear)

Hearing loss is not normal, and neither is the excess strain that puts on your brain. While hearing loss may be more common as we age, it is critical that hearing loss be treated. With hearing loss, the brain is constantly on ‘overload’ trying to fill in the missing pieces, and follow the conversation. Increased cognitive load is considered a risk factor for developing Dementia. Cognitive load, as measured by pupillometry, is a measurement of how hard your brain is working to follow a conversation. Recent research has found that individuals who treat their hearing loss do not work as hard to listen (i.e. have a reduced cognitive load) and have as much as a 20% increase in memory recall when following a conversation.

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Research Report: Summary

Hearing Loss & Dementia

NeuroTechnology™: Reduce Your Risk of Developing Dementia

Improvements in Cognitive Function:

In a recent study, Dr. Jamie Desjardins, PhD, (University of Texas at El Paso), demonstrated that today’s current hearing loss treatment options can improve brain function in people with hearing loss. It is known that hearing loss, if left untreated, can lead to emotional and social consequences, reduced job performance, and diminished quality of life. Recently, research has shown that untreated hearing loss also can interfere with cognitive abilities because so much mental effort is diverted toward understanding speech.

The research was aimed at measuring core cognitive functions that were beginning hearing loss treatment with NeuroTechnology™. After only two weeks of hearing loss treatment, cognitive testing revealed a significant increase in percent scores for recalling words in working memory and selective attention tests, and the processing speed at which participants selected the correct response was faster. By the end of the study, participants had exhibited significant improvement in their cognitive function. Since 2011, multiple long-term studies have provided strong evidence that treating hearing loss may eliminate the risk of developing Dementia. Dr. Lalwani at Columbia University noted that treating hearing loss “may offer a simple, yet important, way to prevent or slow the development of dementia by keeping adults with hearing loss engaged in conversation and communication.”

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