

# Beyond the Sound: Mental Health and Hearing Loss

Hearing loss is often connected to other health conditions. Recognizing these links can support early detection, reduce misdiagnosis, improve care planning, and enhance overall quality of life.





Hearing loss can make communication difficult, leading to social withdrawal, isolation, and frustration - all of which increase the risk of depression. In fact, adults with hearing loss are more than twice as likely to experience depression.<sup>1</sup>



#### **Diabetes**

High blood sugar levels can damage the blood vessels and nerves in the inner ear. Research shows that people with diabetes are about twice as likely to have hearing loss compared to those without diabetes. <sup>2</sup>

## **Kidney Disease**



Chronic kidney disease can lead to a buildup of toxins in the blood, which may affect nerve function, including the nerves responsible for hearing. Certain medications used to treat kidney issues may also be ototoxic (harmful to the ear). <sup>3</sup>



## **Cognitive Impairment or Dementia**

Hearing loss can reduce brain stimulation, making it harder for the brain to process sound and speech. Over time, this may contribute to cognitive decline and has been strongly linked to an increased risk of dementia. <sup>4</sup>





## **Cardiovascular Disease**

The inner ear depends on good blood flow. Conditions that affect circulation, like high blood pressure, stroke, or heart disease, can limit oxygen to the auditory system, leading to hearing loss. <sup>5</sup>

#### References:

Cosh, S., Helmer, C., Delcourt, C., Robins, T. G., & Tully, P. J. (2019). Association of hearing loss with depression in older adults: A systematic review and meta-analysis. JAMA Otolaryngology—Head & Neck Surgery, 145(3), 215–225.

Bainbridge, K. E., Hoffman, H. J., & Cowie, C. C. (2008). Diabetes and hearing impairment in the United States: Audiometric evidence from the National Health and Nutrition Examination Survey, 1999 to 2004. Annals of Internal Medicine, 149(1), 1–10.

Kang, E. Y., Chen, H. C., Chien, L. N., Lin, H. C., & Chien, C. R. (2015). Risk of hearing loss in patients with chronic kidney disease: A nationwide, population-based cohort study. Medicine, 94(42), e1828.

Livingston, G., et al. (2020). Dementia prevention, intervention, and care: 2020 report of the Lancet Commission. The Lancet, 396(10248), 413-446.

Friedland, D. R., Cederberg, C., & Tarima, S. (2009). Audiometric pattern as a predictor of cardiovascular status: Development of a model for assessment of risk. The Laryngoscope, 119(3), 473–486.



This material was created by the Center of Excellence for Behavioral Health in Nursing Facilities. This work is made possible by grant number 1H79SM087155 from the Substance Abuse and Mental Health Services Administration (SAMHSA). Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Substance Abuse and Mental Health Services Administration. 8/2025