



JOHNS HOPKINS
BLOOMBERG SCHOOL
of PUBLIC HEALTH

Cochlear Center for
Hearing and Public Health

COCHLEAR CENTER FOR HEARING AND PUBLIC HEALTH

Annual Report

2025–2026

TRAINING • EVIDENCE • ADVOCACY

Contents

2025–2026 Annual Report

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Letter from Interim Director

How well we hear shapes how we connect with the people and world around us, and that connection is central to health and well-being as we age. Over the past year as interim director, I have had the privilege of guiding the Cochlear Center through a period of growth, and I am proud of what our team has accomplished.



Our commitment to the Center's mission is as strong as ever. We are **training** the next generation of clinicians and researchers to become leaders in the field of hearing loss and aging. We are building the **evidence** that drives change. And through **advocacy**, we are bringing a public health approach to hearing care.

The heart of any center is its people. This year, we welcomed six new associate faculty, including **Amber D'Souza**, **Sabina Haberlen**, **Ian Saldanha**, **Sheree Schwartz**, **Vidya Kamath**, and **Qian-Li Xue** and celebrated the return of **Alison Huang** as core faculty and **Nicholas Reed** as affiliated faculty. These new and returning collaborators bring expertise in the translational research methods and implementation science needed to turn research findings into real-world change for older adults with hearing loss.

This year we have strengthened the Center's leadership team. **Alison Huang** returned to the Cochlear Center as Deputy Director of Research to oversee our research portfolio. **Pablo Martinez Amezcua** stepped into the role of Deputy Director of Academic Training to expand our training initiatives. Their leadership will be central to the implementation of our updated strategic plan. We also established a new Scientific Advisory Board to bring outside expertise to guide us in how we invest in new ideas.

Partnerships amplify our efforts and extend our reach. This year, we brought a new focus on collaboration within Johns Hopkins, drawing on the extensive expertise that already exists across the University, including the Center for Communications Programs and the Center for Clinical Trials and Evidence Synthesis. Beyond Johns Hopkins, we've grown our network to span the SENSE Network and other institutions, the National Institutes of Health, industry partners, professional societies in hearing and aging, the Consumer Technology Association and health departments and community organizations. Each of these partnerships helps carry our work beyond the Center and into the communities it is meant to serve.

This year was about building the foundation for our work ahead. In the coming year, we will expand our training programs and build on our research infrastructure to embed hearing into more studies of aging across the globe. With our partners, we will extend the ACHIEVE cohort, launch new research studies to get people into hearing care earlier, and expand hearing screening and care to new communities.

I am grateful to our faculty, staff, trainees, and advisory board, and to our partners, including Cochlear Ltd., whose support makes this work possible.

This Annual Report highlights our work in training, evidence and advocacy during the 2025-2026 academic year. I invite you to learn more about what we have accomplished and what lies ahead.

Sincerely,

Jennifer A. Deal, PhD, MHS

Associate Professor | Epidemiology | Otolaryngology-Head and Neck Surgery
Interim Director | Cochlear Center for Hearing and Public Health
The Johns Hopkins University



SECTION 01

Training

People to carry it forward



Training By the Numbers since our Founding

390

students, researchers and clinicians **overall** have received training through Cochlear Center programs

72

undergraduate, MPH, Master's, MD, PhD, postdoctoral fellows have been mentored, including 3 visiting students

24

audiology, doctoral and medical students have gone through CHAMPs since 2021

294

clinicians and researchers from across East and Southeast Asia, Latin America, and North America have completed the Summer Fellows program

30 countries

Cochlear Center training programs draw participants from around the world

Trainees

The cohort of eleven trainees during the 2025-2026 academic year worked with Cochlear Center mentors on research involving the connections between sensory loss and healthy aging.



2025-2026 Cochlear Center trainees
Back row, left to right: Xi Sissi Wang, Diefei Vicky Chen, Di Li, Wuyang Zhang, and HEARS staff Peter Hope and Julia Mance;
Front row, left to right: HEARS staff Jalisa Bass, trainees Wenji Cai, Yiyang Cai, Alexa Balmuth, and Yuetong Toria Liu. Not pictured from this trainee cohort: Jiayi Jessica Chu, Susan Richmond, AuD, Madison Saunders, AuD

2026 Graduates

Yiyang Cai graduated with a Master of Science degree in the Epidemiology department's aging track. Her research focuses on sensory and cognitive aging, hearing health, and digital health analytics. She is particularly interested in the interplay among sensory function, cognition, and mobility in older adults, leveraging large population-based cohorts and real-world data. Ms. Cai's primary mentor was Dr. Pablo Martinez Amezcua and her thesis was, "Subjective vs. Objective Hearing Loss and Cognitive Function in Older Adults: A Cross-sectional Study in the National Health and Aging Trends Study." Ms. Cai is now a doctoral student at the University of Pittsburgh.



Yiyang Cai and Yuetong Toria Liu

Yuetong Toria Liu graduated with a Master of Science degree in the Epidemiology department's aging track. Her research interest is in the epidemiology of sensory loss and in understanding the mechanistic links between hearing loss and cognitive decline. Ms. Liu worked with Dr. Jennifer Deal as her primary mentor and her thesis was titled, "Audiometric Hearing Loss and Plasma Biomarkers of Alzheimer Disease, Neurodegeneration and Neuroinflammation." Ms. Liu is joining the Cochlear Center as a Research Assistant.



Madison Saunders, AuD

Madison Saunders, AuD, graduated with a Master of Public Health degree with concentration in Humanitarian Health. She is a clinical audiologist with experience in hospital, private practice, Veterans Administration, and industry settings. In support of her husband's career transition from operational military to foreign service, assigned to Latin America, she saw the need to expand her expertise beyond the clinic. Dr. Saunders's goal is to continue to have an impact on individual and community quality of life by fostering hearing education and conservation initiatives and improving access to hearing healthcare abroad. She was mentored by Dr. Frank Lin.

Other Trainee Highlights

Trainees at Conferences

Current and past Cochlear Center trainees were out in force presenting their work at conferences this academic year.

2026 Annual Scientific and Technology Conference of the American Auditory Society

Trainees who presented posters included Yiyang Cai, Yuetong Toria Liu, Xi Sissi Wang, Wuyang Zhang, and 2025 CHAMPs Emma Hoffman and Jincong (Jason) Freeman.

2025 Gerontological Society of America Annual Scientific Meeting

GSA 2025, held in Boston, included posters presented by Yuetong Toria Liu, Jason Smith, Ethan Wang, and Xi Sissi Wang; a talk by Yuetong Toria Liu entitled “Audiometric Hearing and Plasma Biomarkers of Alzheimer’s Disease Pathology and Neurodegeneration in the ARIC-NCS;” and a podium presentation entitled, “Combined Associations of Hearing Loss and Sleep Duration with Cognitive Decline” by Kening Jiang.

Making Progress and Moving On

Doctoral candidate **Xi Sissi Wang, MPH** made a successful Doctoral Proposal Seminar in October, presenting, “Hearing, Social Isolation, and Cognitive Aging: From Cohorts to Intervention.” She also successfully passed her departmental and Schoolwide oral examinations.



Doctoral Candidate Xi Sissi Wang flanked by advisors Jennifer Deal and Pablo Martinez Amezcua



Visiting Student Vitor Guesser with Jennifer Deal

We said goodbye to Vitor Guesser, a doctoral student from the University of São Paulo in Brazil, who joined us this year as a visiting student to work on his project, “Cross-sectional relationship of diabetes mellitus with hearing loss in older adults in the ARIC-NCS study”.

Scholarships

The **Cochlear Center Epidemiology Scholarship for Sensory Health in Aging** was awarded to Yiyang Cai and Yuetong Toria Liu.

Doctoral student and Cochlear Center trainee Xi Sissi Wang, MPH was given the **Cochlear Center Epidemiology Scholarship for Sensory Health in Aging Award**.

2026-2027 New and Returning Trainees

A new academic year means new and returning trainees. The 2026-2027 cohort includes master's degree students **Alexa Balmuth, Jiayi Jessica Chu, Mingxuan Tracy Cui, Di Li, Susan Richmond,** and **Bowen Wang**, along with doctoral students and candidates **Wenjie Cai, Diefei Vicky Chen, Cesia Cotache-Condor, Xi Sissi Wang,** and **Wuyang Zhang**.

Teaching

Cochlear Center Faculty are consistently recognized for Teaching Excellence, receiving “excellent” course rankings from students in the 2025–2026 academic year:

- Jennifer Deal, PhD, MHS for Epidemiology of Sensory Loss in Aging and Epidemiologic Inference in Public Health I
- Pablo Martinez Amezcua, MD, PhD, MHS for Epidemiologic Inference in Public Health I and Epidemiologic Methods for Epi Doctoral Students III
- Ian Saldanha, MBBS, PhD, MPH for Methods for Conducting Systematic Reviews and Meta-Analyses

Training Programs and Events

Seminars

TRAINING EVENTS AND SEMINARS

We continued our [annual Seminar Speaker Series](#) in the 2025-2026 academic year, hosting six speakers who shared expertise on a variety of topics including measuring hearing outcomes; WHO classifications of disability; the impact of functional loss on health and everyday life as we age; hearing health and implementation science; the intersection of technology, business and health; and bridging gaps in hearing care access.



Ian Saldanha
MBBS, PhD, MPH



Walter Widdich
[PhD FAAO CLVT](#)



Varshini Varadaraj
MD, MPH, MS, MBBS



Matthew L. Bush
MD, PhD, MBA, FACS



Charlotte S. Yeh
MD, FACEP



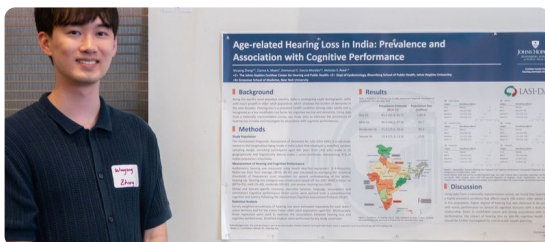
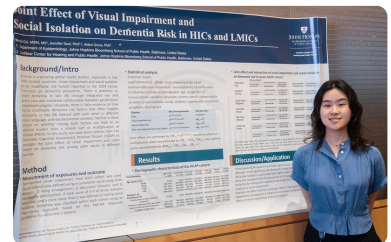
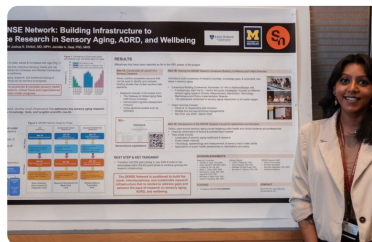
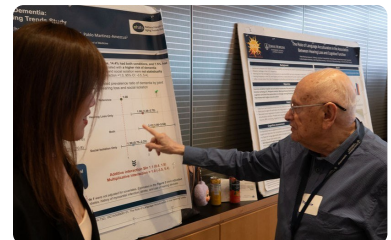
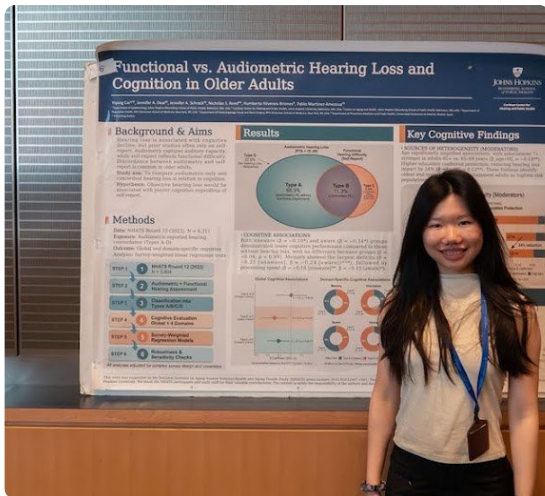
Amyn Amlani
PhD

Research Day

2026 Cochlear Center Research Day included a keynote address from [Malaz A. Boustani, MD, MPH](#), the Richard M. Fairbanks Professor of Aging Research at the Indiana University School of Medicine, who presented "The Agile Change Conductor," followed by poster presentations by ten Center trainees including two from doctoral candidate Xi Sissi Wang.



Center Interim Director Jennifer Deal with 2026 Research Day keynote speaker Malaz A Boustani, MD MPH



Summer Fellows Program



2025 Summer Fellows participants, Shanghai Jiao Tong University School of Medicine

Since the **Johns Hopkins Cochlear Center Fellows Program in Aging, Hearing, and Public Health** began in 2019, 294 clinicians and researchers drawn from 27 countries across East and Southeast Asia, Latin America, and North America have completed the Summer Fellows program.

In its eighth year, the Summer Fellows Program provides an overview of public health concepts, methods, and strategies to clinicians and researchers who are pursuing public health research and projects focused on addressing hearing loss in older adults. The program is hosted each year by a partner institution in a different region of the world.

Participants complete 27 on-demand lectures split into five learning modules covering topics including hearing loss in older adults, epidemiologic methods, data management, community-engaged research, and hearing care policy. Cochlear Center faculty then travel to the partner institution to complete the program with in-person lectures and small group discussions that cover clinical trials, hearing health policy, cognition, gerontology, and models of hearing care.

In July 2025, the Center partnered with Shanghai Jiao Tong University School of Medicine, where 43 participants along with university leadership gathered at the Shanghai Ninth People's Hospital to hear lectures and participate in small group discussions with Cochlear Center faculty.

Next year, on June 10-11, 2027, the Fellows program will expand into another region of the world when we partner with the Universidade do Estado do Rio de Janeiro in Brazil.

Summer CHAMP

The Cochlear Center Hearing & Aging Mentoring Program, or CHAMP, provides pre-doctoral audiology, medical, or public health doctoral students with a foundation in concepts and methods that will lead to research careers addressing hearing loss, aging, and public health.

Hosted in Baltimore, the intensive, one-week program at the start of the academic year includes an all-day course through the Bloomberg School's Summer Institute, seminars, and journal clubs with Cochlear Center faculty. Trainees work in pairs or individually to write a scientific paper or research proposal.

2025 CHAMP participants

Jincong (Jason) Freeman
University of Chicago

Emma Hoffman
University of Texas, Dallas

Komal Aggarwal
Stanford University

Andrea Micula
University of Southern Denmark

CHAMP 2025 alumni Emma Hoffman and Jincong (Jason) Freeman presented their project, “Hearing Loss and Dementia in Cancer Survivors,” at the Annual Scientific and Technology Conference of the American Auditory Society in February 2026.

CHAMP participant Andrea Micula secured funding for DanHear, a program to outline the prevalence, consequences and influence of hearing rehabilitation in the Danish population. As part of that project, she and her collaborators are building a database of all individuals with hearing loss in Denmark and designing surveys to gather additional information on their experience with hearing loss and hearing rehabilitation.



SECTION 02

Evidence

Evidence to drive change



SENSE Network – Building Infrastructure for Sensory Health Research

The SENSE Network was launched in 2020 by Cochlear Center faculty, including Drs. Jennifer Deal, Frank Lin and Nicholas Reed, along with collaborators at other JHU centers and universities to create the infrastructure to support international and inter-institutional research on sensory health and aging.



Under the leadership of Cochlear Center interim director, Dr. Jennifer Deal, and Dr. Joshua Ehrlich from the University of Michigan, the SENSE Network was funded this year by a grant from the National Institute on Aging (R61AG089063).

This year the network launched a databank that brings together sensory data from 32 studies in a single open-access resource. This resource promotes data discoverability and allows investigators with questions related to sensory health, cognition and well-being in older adults to find a data set in which to conduct their research. The network also created protocols for the collection of hearing, vision and olfactory data and supported the new data collection of sensory health measures in epidemiologic studies.

In 2025 the SENSE Network led a Delphi exercise with 12 volunteer experts to map gaps in knowledge in the field, including curation of 100 epidemiologic studies across hearing, vision, olfaction, gustation, vestibular function, and touch. Ten cross-cutting consensus statements were developed, including a list of priorities for future research studies.

The Network also hosted a two-day Consensus Conference from November 10-11, 2025, in Boston/Waltham, Massachusetts that brought stakeholders together for an event designed to build consensus around research priorities and identify actionable next steps for new scientific initiatives. Together this work sets the stage to accelerate coordinated evidence generation, foster innovation and translate findings quickly into practice to advance research on sensory health and improve the lives of older adults.

ACHIEVE Studies

The ACHIEVE Study team continues to collect data and publish new findings that examine the effects of hearing intervention on cognition, brain health, and other age-related health outcomes.

The ACHIEVE Study is a randomized controlled trial that tested the effects of hearing intervention (audiological counseling and provision of hearing aids) compared to health education control (individual sessions with a health educator covering topics on chronic disease prevention) on cognitive decline over three years among 977 participants aged 70–84 years with mild to moderate hearing loss and without substantial cognitive impairment. Data collection for the primary trial concluded in 2022 with results published in the *Lancet* and detailed on the study site, ACHIEVEstudy.org.

As part of the ACHIEVE Study’s Brain Health Follow-Up (NIA R01AG076518), the study team continues annual follow-up of participants to understand long-term effects of hearing intervention on cognition, dementia, and brain health. Data collection for the Brain Health Follow-Up concluded in early 2026, providing us with data on participants through six-years post-intervention. Analyses are underway, with particular focus on the long-term effects of hearing intervention on communicative function, social isolation and loneliness, and cognition, dementia, and brain health.

As a whole, we continue to uncover new discoveries about hearing and healthy aging through the ACHIEVE studies. Our most recent findings are below. Full citations and links to published studies are available at ACHIEVEstudy.org/publications:

● COGNITION AND BRAIN HEALTH

Cognitive benefits of hearing intervention vary by risk of cognitive decline: A secondary analysis of the ACHIEVE trial

The effect of hearing intervention on reducing 3-year cognitive decline was greatest among individuals with multiple baseline risk factors associated with faster cognitive decline.

Effects of Hearing Intervention on Blood-Based Biomarkers of Neurodegeneration: A Secondary Analysis of the ACHIEVE Randomised Controlled Trial

Among a subgroup of participants recruited from the ARIC cohort, hearing intervention was associated with slower 3-year rise in glial fibrillary acidic protein [GFAP] with comparable estimates observed for neurofilament light chain [NfL].

Identifying populations with faster cognitive decline using blood-based biomarkers

ACHIEVE data was used as an exploratory sample in an analysis of three datasets that showed elevated plasma biomarker levels identified dementia-free older adults with faster cognitive decline.

Differences in Cognitive Aging Assessments Associated With Retest Effects

Substantial retest differences were observed for global cognition, executive function, and memory, with limited heterogeneity by recruitment source, baseline hearing loss severity, and trial intervention. Retest effects may distort observed cognitive trajectories but were unlikely to explain ACHIEVE subgroup treatment differences.

MENTAL AND SOCIAL WELL-BEING

Hearing intervention, social isolation, and loneliness: A secondary analysis of the ACHIEVE randomized clinical trial

Hearing intervention participants retained a mean of 1 additional person in their social network and experienced positive effects in social network diversity and quality and loneliness relative to health education control over 3 years.

PHYSICAL FUNCTION

Effects of hearing intervention on falls in older adults: findings from a secondary analysis of the ACHIEVE randomised controlled trial

The hearing intervention group had a 27% reduction in the mean number of falls over 3 years compared with health education control.

Effects of Hearing Intervention on Physical Activity Measured by Accelerometry: A Secondary Analysis of the ACHIEVE Study

While activity counts declined in all participants by about 2.7% per year, there were no appreciable differences between hearing intervention and health education control in the 3-year change in accelerometry-measured physical activity measures.

Effects of hearing intervention on physical function: A secondary analysis of the ACHIEVE study

Hearing intervention did not impact change in physical function or grip strength. Treatment effects varied by recruitment cohort; although findings were not statistically significant, they suggest a clinically meaningful benefit in participants with faster rates of cognitive decline.

HEARING AID USE

Patient-Centered Hearing Intervention Leads to Positive Outcomes: The Association of Hearing Technology With Daily Hearing Aid Usage and Listening Goals in the Aging and Cognitive Health Evaluation in Elders Study

Patient-centered selection of hearing technology resulted in high levels of hearing aid and hearing aid technology usage, along with positive listening goal attainment for the majority of participants.

Association of Objectively-Measured Hours of Hearing Aid Use with Late-Life Changes in Cognition in the ACHIEVE Study

Over 6 years, more hours of hearing aid use in speech-in-noise was associated with less decline in global cognition. Hearing aid use patterns — not just whether devices were worn — were linked to late-life cognitive change. Presented at the International Hearing-Aid Research Conference (ICHON), August 2026

The HEARS Studies

Hearing health Equity through Accessible Research & Solutions

Massive economic and racial disparities limit access to the tools older adults need for healthy aging. Led by core faculty Carrie Nieman, MD, MPH, several HEARS studies test how to bridge the gaps in accessing hearing care.



Members of the HEARS team (l-r) Peter Hope, Jalisa Bass, PI Carrie Nieman, Jonathan J. Suen, AuD, PhD, Laura Sherry, AuD, and Julia Mance. Not pictured: Jami Trumbo, MSPH

HEARS NPS

Hearing Loss in Cognitive Impairment – In partnership with Cochlear Center core faculty Esther Oh MD, PhD, a geriatrician and co-director of the Johns Hopkins Memory and Alzheimer’s Treatment Center, HEARS NPS aims to understand and address hearing loss among individuals who are aging with cognitive impairment.

Community-Delivered Hearing Care & Advancing Access to Hearing Care for Communities with Limited English Proficiency

There are multiple barriers to hearing care for individuals with limited English proficiency. Older Korean Americans represent a community with high levels of limited English proficiency, poor health literacy, and some of the highest levels of poverty among Asian Americans. With Hae Ra Han, the Elsie M. Lawler Endowed Chair in the Johns Hopkins School of Nursing, Nieman co-leads an NIH-funded trial to test the potential benefit of community health worker-delivered model of hearing care in partnership with Korean faith-based communities in the Baltimore/DC/Northern Virginia region, which represents one of the largest communities of Korean Americans in the United States.

Learning to Scale Community-Delivered Hearing Care

Nieman and her team lead a trial that partners with three sites across Maryland to expand community-delivered hearing care through local Area Agencies on Aging. Leveraging state- and national-level older adult volunteer networks, the trial seeks to expand the evidence-based HEARS model of hearing care beyond Baltimore.



SECTION 03

Advocacy

Public health impact



The "Know Your Hearing" Public Health Campaign

The Cochlear Center's [Know Your Hearing public health campaign](#) aims to establish hearing as a trackable metric across the lifetime and raise awareness about the importance of monitoring, protecting, and optimizing hearing at all ages.

Following the 2025 launch of the Hearing Number app for iOS and Android, the Cochlear Center partnered with the Johns Hopkins Center for Communications Programs to tap their more than 35 years of expertise in participatory community engagement, human-centered design, audience segmentation, and social and behavior change to advance the campaign.

Through a series of guided interviews, with health departments, private industry, others in hearing healthcare aimed at older adults and veterans, and Johns Hopkins experts addressing occupational hearing risk and physical rehabilitation. CCP began identifying the campaign's priority audiences, designed and tested messaging and revised campaign materials focused on increasing awareness of hearing as a major factor in health and wellbeing.

Using CCPs learning, we will develop a dissemination plan that seeks to be more targeted and grow the reach and impact of the campaign, specifically through non-profit, clinical and industry partners.

Most immediately, CCPs work has set the stage for us to partner with Health Departments with deep knowledge of the communities they serve to support hearing screen programs in rural areas where there are high rates of hearing loss, yet limited access to hearing care.



KNOW YOUR HEARING

The Hearing Number App

- BSPH** Johns Hopkins Bloomberg School-branded smartphone app
- iOS** Download the Hearing Number app via app stores for [iOS](#) and [Android](#)
- 10** Available around the world in **10 languages**
- 100K** Nearly **100,000 downloads** since the app was launched

In November 2025, Communications Associate Molly Sheehan presented “What’s your Number? Using the Hearing Number App to Monitor Hearing and Improve Communication” as part of APHA 2025’s public health education and health promotion program’s Digital Innovations in Health Communication session.



HEARS – Advancing the National Agenda on Accessible, Affordable Hearing Care

Cochlear Center Core Faculty Carrie Nieman, MD, MPH co-chaired the 2024 National Institute on Deafness and Other Communication Disorders (NIDCD) Working Group on Accessible and Affordable Hearing Health Care for Adults, in partnership with the National Institute on Aging and the FDA. This work directly informed the NIDCD’s priorities around affordable, accessible hearing care as documented by the recently published joint editorial with the NIDCD:

King, K. A., Dhar, S., Schurman, J., & Nieman, C. L. (2025). Guest Editorial on Accessible and Affordable Hearing Care for Adults: Progress Made and a Continued Call. *Ear & Hearing*, 47(1), 80–84. <https://doi.org/10.1097/AUD.0000000000001717>

Nieman also identified the need for continued development of high-quality research in hearing health to address existing disparities and co-chaired a working group to adapt the National Institute on Minority Health and Health Disparities Research Framework to address hearing health care disparities through support of the NIDCD and NIMHD (currently under revision).

Informed by her work with the NIH/FDA Working Group on Affordable, Accessible Hearing Care, Nieman is collaborating with Sumit Dhar, Northwestern University, to build toward a clinical trial network that supports the expansion of trials that capture the complexity and diverse methods needed to advance the science and widespread practice of more affordable, accessible hearing care. In Fall 2025, they hosted a workshop to develop strategies to advance this area of research.

Contributing to Global Guidance on Hearing Care in Diverse Resource Settings

Internationally, Nieman is a regular and longstanding consultant to the World Health Organization (WHO), including service as a member of the core writing group for the first World Report on Hearing (published 2021), which highlighted the need for additional models of hearing care, including community-delivered approaches such as HEARS.

Nieman currently serves as one of four otolaryngologists, the only American otologist, advising the current development of the WHO's Package of Primary Ear and Hearing Care Interventions, which will guide national-level packages and policies globally.

In the News

FEB 2026

The Hearing Review

Addressing Cognition and Hearing: 10 Recommendations for HCPs

Jennifer Deal and Cochlear Center collaborators are among the authors of this piece published February 17 in *The Hearing Review*.

"These evidence-based clinical recommendations emphasizing holistic care provide actionable ways for hearing care professionals to address the complex relationship between hearing and cognition in their practices"

MAY 2026

THE WALL STREET JOURNAL

Walking Slower? Why Your Ears, Not Your Knees, Might Be the Problem

Carrie Nieman commented on the connection between hearing and gait, in the context of findings from the Apple hearing study as explained by former director Frank Lin, MD, PhD, now a clinician on Apple's health team.

MAY 2026

The New York Times

Is It Safe to Wear Earbuds While Sleeping? Doctors explain how to protect your ears.

Carrie Nieman spoke with reporters for articles about using ear buds safely:

2026

GOOD HOUSEKEEPING

"This Symptom Could Put You at Risk for Dementia Decades Before It Develops—But It's Treatable. Here's how to take charge of your health."

Center Interim Director Jennifer Deal weighed in about hearing loss and brain health for this recent article in Good Housekeeping.





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