NEJM CareerCenter

Career Guide

Physician jobs from the New England Journal of Medicine • June 2024



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The NEW ENGLAND JOURNAL of MEDICINE

June 24, 2024

Dear Physician:

As a physician about to enter the workforce or in your first few years of practice, you may be assessing what kind of practice will ultimately be best for you. The New England Journal of Medicine (NEJM) is the leading source of information for job openings for physicians in the United States. To assist you with your career advancement, this issue includes recent selections from our Career Resources section of NEJMCareerCenter. org.

The NEJM CareerCenter website (NEJMCareerCenter.org) receives consistently positive feedback from physicians. Designed specifically based on feedback and input from your colleagues, the website offers physician users many confidentiality safeguards that keep your personal information and job searches private.

At NEJM CareerCenter, you will find the following:

- Hundreds of quality, current openings not jobs that were filled months ago
- Email alerts that automatically notify you about new opportunities
- · Sophisticated search capabilities to help you pinpoint the jobs matching your search criteria
- A comprehensive Resource Center with career-focused articles and job-seeking tips
- An iPhone app that sends automatic notifications when there is a new job that matches your job search criteria

A career in medicine is challenging, and current practice leaves little time for keeping up with new information. While our commitment to delivering the highest-quality research and clinical content remains unchanged, NEJM is continually developing new features and enhancements to bring you the best, most relevant information each week in practical and clinically useful formats.

As an example, the popular Clinical Practice articles offer evidence-based reviews of topics relevant to practicing physicians. This edition includes the April 25, 2024, article, "Age-Related Hearing Loss." Or, you might also want to listen to one of our many podcasts, including Intention to Treat, which offers a behind-the-scenes look at some of the most complicated, perplexing, and fascinating issues facing medicine today, and Not Otherwise Specified, which features conversations with some of medicine's most innovative thinkers about the challenges and promises in health care today.

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On behalf of the entire New England Journal of Medicine staff, please accept my wishes for a rewarding career.

Sincerely,

Eric J. Rubin, MD, PhD



Preparing for the Virtual Physician-Job Interview

The interview has become a new world, for now, with the pandemic, and both prospective employers and physician candidates are adjusting

By Bonnie Darves, a Seattle-based freelance health care writer

Physicians and other health care professionals know well that functioning and practicing medicine — in a pandemic is a very different and much altered experience from a year ago. Even though physicians and residents are often providing care in fraught and challenging environments, when it comes to looking for a new practice opportunity, they're not likely to find themselves at the point of care but rather in their living rooms. Interviews have gone virtual in a big way as the risks and logistics of the traditional site interview have prompted employers and even candidates to forgo site visits.

What this means is that both parties are having to adjust. Employers are increasingly vetting candidates without ever shaking hands or watching physicians interact in live group settings. Physicians are trying to figure out how to put their best face forward over video platforms such as Zoom, Skype, GoToMeeting, or Cisco Webex, to name a few, and how to make the most of what can be an awkward exchange.







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The good news, for physicians, is that this is a new and evolving experience for all involved. As such, it's important to keep in mind that many people, including employers and senior physicians on the call, might find the video virtual interview challenging. It's not a technology-proficiency test, after all. However, on the technology front, physicians who find themselves in job-search mode during the coronavirus pandemic should do their best to prepare themselves, their environment, and their computers or devices for a successful meeting. This means "attending" the session as professionally as possible and ensuring that extraneous factors or technology don't get in the way of a productive conversation.

Some of the prerequisites for virtual interviews are no different than they would be for a formal site-visit interview. First and foremost, look the part and dress professionally. It might feel awkward to don a suit or, for women, other formal business attire, but that's a must. Physicians should be well dressed, well groomed, and reasonably refreshed when going to a video interview. In other words, treat the experience as if it were a formal site interview that you traveled to and prepared for in advance. Leave the casual demeanor behind, or at least in the other room.

It's key to know exactly who will be on the video call and what their roles are so that candidates can read bios and prepare accordingly. It's also appropriate to ask about the length of the interview and to request an agenda, if one will be prepared.

Following are some of the most important considerations in preparing for a video interview:

Prepare and "professionalize" the immediate environment. For starters, the room should be well and brightly lit and the background clean and free of clutter. That means ensuring that there isn't an unsightly stove or a television or even a stack of books or laundered T-shirts in view. As a background, a blank wall, an unembellished window, or a background cabinet with a non-distracting tasteful décor item all work well. Alternatively, many video platforms enable use of green-screen effects, which replace the actual background with a digital or virtual background. A word of caution is in order here: Candidates whose home environments are unsuitable and who want to use a background should opt for something clean and simple, not a potentially distracting image of a tropical beach, an old-growth forest, or a fake wine cellar. Finally, make sure that the lighting in the room is unobtrusive and doesn't interfere or produce visible glare.

Do a trial run and then take the time to record a hypothetical session with a friend or family member. In advance of a virtual interview, candidates should receive specific instructions on the technology that will be used, as well as a link for getting into the session. For those who haven't used the technology that will host the meeting, it's important to get a trial subscription and ensure they're familiar with the way it works and any features that might be used. Many physicians in primary care and internal medicine subspecialties have already had their trial by fire conducting patient virtual visits, but for others, video-meeting platforms might be new turf.

Get rid of noise and potential distractions. The interview setting should be quiet and calm. That means ensuring that background noises, including pets and family members, aren't a factor. Ideally, opt for a completely quiet room — and house or apartment — if possible, and close windows to minimize street noise. Even minor background sounds, such as someone starting a washing machine two rooms away, can be bothersome enough to be overheard or, worse, distract the interviewee. Of course, it goes without saying that cell phones should be silenced and that all computer notifications that might chime during the session are turned off.

Ensure optimal body and face positioning. Even virtual-meeting veterans have likely found out the hard way that having the face positioned too far up or down, and the computer screen below eye level, can affect the experience. The interviewee's head should be looking straight ahead, not down toward a keyboard, which could be very distracting to the interviewer(s). If a candidate is hunched over, for example, that will be visible to interviewers.

Having the computer or device properly elevated before the interview begins is key, so that the physician doesn't need to make adjustments during the session. And once the session is underway, it's important to maintain focus by not moving the head too much or looking off to the side. Even if that feels somewhat stiff, it won't come across that way to the interviewer. It's OK to use some body language, when appropriate, but that should be kept to a minimum because there's not a large room to "absorb" it. Finally, physicians who aren't sure how best to position their devices should ask for help from someone with virtual-meeting experience before the interview. In any event, the interviewee and the equipment should be positioned to enable natural-seeming eye contact between all parties.

Get the technology in order. First and foremost, ensure that the Internet connection is solid, and that the computer or device is fully charged and updated, so that it's not likely to interject with an "update-needed" message. It's also a good idea to close out any applications and websites that might be running in the background, not only because of potential distraction but also to ensure that the call loads efficiently.

Second, although computers and devices have built-in speakers and some have microphones, the quality of that audio experience can vary considerably. Physicians who expect to attend multiple video interviews over a period of a few months should consider purchasing and installing high-quality USB audio technology. One of the frequent complaints that business people make these days about video meetings that involve potentially multiple attendees is that poor-quality audio from an attendee's computer is distracting.

The same goes for the video quality. Most laptops have an integrated web camera, but some might not, and older desktop computers likely don't have one. If the video quality on the computer is poor, it might be worthwhile to purchase a good-quality web camera. Then, ensure that it's optimally positioned — ideally above the screen, and look at the camera, not the screen, while speaking.

Finally, if the physician candidate might be asked to share a document or other item onscreen, preparing in advance is crucially important. Spending a fretful minute or two trying to get the requested item in view can be nerve-wracking for the physician and possibly annoying for the interviewer.

Some aspects of interviews haven't changed

After physicians have prepared their environments and equipment to support a successful interview, they should remember that even with the pandemic, the expectation is that the proceedings will be business focused. Just because there's not a conference room in the mix, it doesn't mean that casual behavior is okay. It isn't. The session likely will be conducted formally and highly professionally. As such, interviewees should avoid chitchat or lengthy discussion about the pandemic unless the interviewer raises the topic and seeks their perspective.

One thing to watch for in the video interview is that people sometimes talk over each other more than they might in a room, when they're anxious to make a point. That's never okay in a face-to-face meeting, and it's potentially more distracting (and apparent) within the confines of a video session. Because there is sometimes a brief lag after someone speaks, depending on the technology in use, it's advisable to wait an extra second or two before speaking.

As with any interview, candidates should ask questions at the end of the interview — about culture, team makeup, and roles and responsibilities and during proceedings if it's appropriate. Those questions should be prepared ahead of time. Candidates should also spend extra time researching the organization and reviewing any information that's available online about both the practice and the community. Without the benefit of a facility walkthrough, the physician candidate might need to elicit important information about the actual working environment, available equipment, and other factors that would affect daily practice. It also helps to keep the names of interview participants handy in any virtual roundtable interview involving more than three participants.

As with any type of interview, timely follow-up is important. Candidates should send an email thank-you note to key interviewers and any recruiter or staff member(s) who arranged the session, ideally within 24 hours. If the candidate is highly interested in the position, it's appropriate to express that in the thank-you note and to inquire about possible next steps.

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How to Decline a Job Offer Tactfully

By Nisha Mehta, MD, a physician leader whose work focuses on physician empowerment, community building, and career longevity in medicine

The job search is hectic and stressful, and we put so much effort into finding the right job and trying to get the job offer that we rarely think about how to decline an offer. And yet, it is prudent to do this well.

Many people mistake dragging their feet on contracts while they entertain other offers, and then just letting the discussions fade away instead of formally telling a potential employer that they're not interested. I've been guilty of this myself. In general, it's always good to close the loop and make sure everyone is on good terms. We know how frustrating it can be when an employer doesn't get back to us about the status of an application, and this goes both ways. Each side invests time and money into the process, and in many cases, other decisions are contingent on the hire.

Additionally, you never know if your paths with the people you interviewed will cross again. Maybe the job you took instead doesn't work out, and this was a close second choice, and you want to approach them again. While you are looking in a particular job market, and the partners at the practice you turned down go to school with your children. Or perhaps you find yourself searching for a new job and someone you interviewed with is now associated with another practice you're interviewing at or happens to have been a co-chief resident with members of the new practice.

In reality, the physician world can seem very small. Although there may be about 1 million practicing physicians in the United States, you'll see that worlds often collide throughout your career. In today's interconnected world, it's more and more likely that someone you interact with in one context will turn up in another. Maybe your practices will be part of the same network, or maybe you'll see people at a conference.

Consequently, it's best to let the other party know as soon as you're sure you're not interested so that they can move on with the hiring process and adjust any related plans accordingly. Furthermore, how you do it matters. If this is a group you've spent a lot of time talking to who was recruiting you heavily, get on the phone with them and explain why you went in another direction instead of notifying them via an email or text. Take the time to reiterate that you appreciated the offer and their time, and hope to stay in touch. If there's constructive feedback, you can give them about why the job ended up not being the most attractive offer, do so (tactfully). Maybe it's just that your spouse couldn't find a job in that town or you decided you wanted to move closer to family, but sometimes it is about the salary or the call structure or a vibe you got at the practice. Most groups will appreciate the feedback so that they know how to market themselves in the future.

The hiring process is very personal, and chances are, you've gotten to know multiple people on the other side of the process very well, and it likely warrants a few personalized messages to express appreciation, rather than one communication to the head of the group. Maybe there's an HR director or realtor you've worked with extensively, or a partner who really took the time to answer all of your questions or host you at their home for dinner. Take the time to email them separately and let them know how much you appreciated their help. Ideally, don't drag your feet on this because you'll likely forget to do it later. As an added reason to do this, if you ever need to interact with or ask a favor from any of these people in the future, it'll be a lot less awkward to reach out.

When in doubt, think about how you'd like to be treated if you were the one who was being declined in that particular situation. Who would you like to hear from, and what feedback would you have wanted based on your conversations and interactions? Although these things add yet another item to your to-do lists, your networks are your greatest assets, and ensuring positive residual feelings will likely end up being a worthwhile investment.

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Unusual Parts of Compensation Packages

By Nisha Mehta, MD, a physician leader whose work focuses on physician empowerment, community building, and career longevity in medicine

In speaking to so many about their job offers, I've realized that we're often myopic in terms of what we think can be negotiated when discussing a contract. There are the traditional things everyone asks about — salary, bonus structure, call responsibilities, vacation schedule, and signing bonuses, to name a few. However, when talking to people about what their ideal job looks like, there's often more random things on a wish list. What we fail to realize is that those are all things that can be asked for, but that nobody else would even think to offer them to sweeten the deal.

Some examples of these?

- An early start and end to the day
- Dedicated academic or administrative time
- Unique FTEs such as 0.7 or unique structuring of their FTEs, such as alternating four- and two-day weeks
- · Bonuses for creation of alternative revenue streams for the practice

- Changes in the amount of allotted CME money or money for office furnishings or technology
- The ability to work from home a certain number of days a week (for example, doing telehealth)
- A specified patient population according to their area of academic interest/desired practice panel
- · An increased number of support staff, such as scribes or medical assistants
- The speaker system that you will have in your operating room

Some of these may sound silly to you to ask for, but I know of physicians who have asked for and received these things as part of their contract negotiations. Remember, what brings happiness in your day-to-day life as a physician is very individualized, and therefore, asking for those things that will enhance your satisfaction (e.g., career longevity) at that job is not unreasonable.

Of course, asking for these things can be an art form. Understand that every institution has different flexibility or bandwidth for accommodating individual requests. You may want to look at what other accommodations have been made for other physicians on staff as precedent for what may be realistic prior to compiling your list of asks. Also, be careful about how many of these additional things you ask for. If you have 10 unusual requests, even if they are relatively minor, the message to the employer could be that this is a pattern of behavior where you will always be asking for exceptions to normal operating procedures.

Figure out which ones mean the most to you. Also figure out which ones are going to be harder to negotiate later, as your negotiating power is always greatest before you sign a contract. Be prepared to justify the asks so they understand why they would make accommodations. For example, if you are able to clearly articulate why something will lead to increased efficiency, better patient outcomes, or contribute to your career longevity and prevent burnout, this would help your case. It would also help them to explain to others who question why these special accommodations were granted.

As demographics in medicine change, unusual asks will become more frequent. The sustainability of our health care workforce requires out-ofthe-box solutions, and for some of you, these may be part of them! If you don't ask, you won't get it.

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CLINICAL PRACTICE

Patrick G. O'Malley, M.D., M.P.H., Editor

Age-Related Hearing Loss

Frank R. Lin, M.D., Ph.D.

This Journal feature begins with a case vignette highlighting a common clinical problem. *Evidence* supporting various strategies is then presented, followed by a review of formal guidelines, when they exist. The article ends with the author's clinical recommendations.

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A 72-year-old man presents for a routine visit accompanied by his wife. He has no health issues, but his wife volunteers that she has concerns about his hearing. On further questioning, the patient notes problems with hearing and understanding others but attributes these issues to his wife and other family members not speaking clearly. The patient's wife notes that she has heard about the recent availability of over-the-counter hearing aids as well as media reports that hearing loss is linked with the risk of dementia. She wonders whether her husband could benefit from using overthe-counter hearing aids. How would you respond?

THE CLINICAL PROBLEM

Age-related declines in hearing gradually affect every person during life. A person's ability to hear depends on the inner ear (cochlea) precisely encoding sounds into neural signals, which are then processed and decoded into meaning at the cortical level. Pathologic processes that occur at any level of this pathway from the ear to the brain can adversely affect hearing, but age-related hearing loss involving the cochlea is the most common cause.¹

Age-related hearing loss is characterized by the progressive loss of the sensory hair cells of the inner ear, which are responsible for encoding sound into neural signals.^{1,2} Unlike other cells throughout the body, sensory hair cells in the inner ear cannot regenerate, and these cells are progressively lost over the course of life owing to the cumulative effects of multiple etiologic processes. The strongest risk factors for age-related hearing loss include older age, lighter skin color as an indicator of cochlear pigmentation (given that melanin is protective in the cochlea), male sex, and noise exposure.³ Other risk factors include cardiovascular disease risk factors such as diabetes, smoking, and hypertension, which can contribute to microvascular injury to cochlear blood vessels.3

Beginning in early adulthood, hearing begins to diminish gradually, particularly with regard to sounds at higher frequencies. The prevalence of clinically significant hearing loss increases across the life span, nearly doubling with every decade of life such that more than two thirds of all adults 60 years of age or older have some form of clinically significant hearing loss (Fig. 1).^{3,4} In the United States in 2019, approximately 72.9 million, or one in five, persons were estimated to have hearing loss.⁴

Epidemiologic studies have shown associations between hearing loss and impaired communication, cognitive decline,⁵ dementia,⁶ higher medical costs,⁷ and other adverse health outcomes.^{3,8} Research over the past decade has particularly focused on the effects of hearing loss on cognitive decline and dementia, and on the basis of this evidence, the Lancet Commission on Dementia concluded in 2020 that hearing loss

KEY CLINICAL POINTS

AGE-RELATED HEARING LOSS

- Age-related declines in hearing gradually and progressively affect every person during life, initially manifesting as difficulty understanding speech in background noise or other specific situations.
- Age-related hearing loss detrimentally affects communication and social functioning and is considered to be one of the most clinically significant risk factors for cognitive decline and dementia.
- Management of age-related hearing loss is focused on the use of communication strategies and technologies (hearing aids and cochlear implants) to increase the clarity of the speech signal.
- Evidence from a randomized trial suggests that hearing aid use can improve communication and quality of life and may reduce cognitive loss within 3 years in older adults who are at risk for cognitive decline.
- Technology and regulatory changes now enable adults to self-test and track their hearing using a smartphone (www.hearingnumber.org) and to purchase over-the-counter hearing aids. This approach aligns with broader trends toward empowering consumers with knowledge and options to act on their own health without a clinician intermediary.

social isolation.9,10

STRATEGIES AND EVIDENCE

CLINICAL PRESENTATION

Age-related hearing loss manifests gradually and aware of patients' hearing difficulties.

EVALUATION

Evaluation of a patient's hearing issues requires cause (e.g., middle-ear effusion). understanding that a person's perception of hearing depends on four components: the quality of the few forms of hearing loss that requires ur-

in middle and late life was the single largest nal becomes degraded in rooms with background potentially modifiable risk factor for dementia, noise or reverberant acoustics), the mechanical accounting for 8% of all dementia cases.⁶ The conduction of sound through the middle ear to main mechanisms through which hearing loss has the cochlea (i.e., conductive hearing), transducbeen hypothesized to increase the risks of cognition of the acoustic signal into a neuroelectrical tive decline and dementia include adverse effects signal by the cochlea and transmission to the of hearing loss and impoverished auditory encod- brain (i.e., sensorineural hearing), and decoding ing of sound on cognitive load, brain atrophy, and of the neural signal into meaning by the cortex (i.e., central auditory processing) (Table 1). When a patient notes problems with hearing, the cause can lie with any of these components, and in many cases, more than one component is affected before hearing problems become apparent.

The goal of the initial clinical evaluation is to subtly over time in both ears without any clear evaluate the patient for readily treatable forms of inciting event. It affects the audibility and clarity conductive hearing loss or other forms of hearof sounds and a person's everyday communication ing loss that may warrant further evaluation with experience. Persons with mild hearing loss are an otolaryngologist. Conductive forms of hearing often not aware of diminishing hearing and in- loss that are readily treatable by the primary care stead perceive their hearing difficulties as being clinician include otitis media and cerumen imattributable to external reasons (e.g., others not paction and can be apparent on the basis of hisspeaking clearly and background noise). At great- tory (e.g., acute onset with otalgia and aural fuller levels of hearing loss, persons may increasingly ness with an upper respiratory tract infection) or notice trouble with speech clarity even in quiet otoscopy (e.g., evidence of complete cerumen imsettings and can find conversations in noisier set- paction in the ear canal). Symptoms and signs tings exhausting, given the increased cognitive accompanying hearing loss that require further effort that is required for processing the degraded evaluation or consultation with an otolaryngolospeech signal.¹¹ Often, family members are most gist include ear drainage, abnormal otoscopic examination, unremitting tinnitus, vertigo, fluctuating or asymmetric hearing, or sudden onset of hearing loss without evidence of a conductive

Sudden sensorineural hearing loss is one of the incoming sound (e.g., because the speech sig- gent evaluation with an otolaryngologist (ideally



Figure 1. Prevalence of Hearing Loss in the United States in 2019, According to Age and Severity.

The prevalence and severity of hearing loss increase with age. A person's hearing can be summarized by an average of the hearing thresholds in each ear at the frequencies of sound that are most important for speech (500, 1000, 2000, and 4000 Hz). This summary measure of hearing that is used by the World Health Organization is referred to as the four-frequency pure tone average (PTA4; also called the "hearing number") and indicates in decibels the softest level of speech sound that the person can hear. A PTA4 in the better ear of 20 to 34 dB indicates mild hearing loss, 35 to 49 dB moderate hearing loss, 50 to 64 dB moderately severe hearing loss, and 65 dB or above severe or greater hearing loss. Prevalence data are from the Global Burden of Disease. Institute for Health Metrics and Evaluation. University of Washington (https://vizhub.healthdata.org/gbd-compare/#).

> within 3 days after onset) because earlier diagsensorineural hearing loss is a relatively uncom- rehabilitative options. mon event, with an annual incidence of 1 in 10,000 years of age or older.¹² As compared with a unilator understand speech in the affected ear.¹²

widely varying levels of sensitivity and specificity¹³ note that, given the progressive decline in hearing metrics (e.g., blood pressure).

across the life span (Fig. 1), some degree of agerelated hearing loss can be inferred to be present regardless of screening results on the basis of a patient's age, symptoms indicative of hearing loss, and an absence of other clinical findings suggestive of other causes.

Confirmatory evaluation of hearing loss is performed with referral to an audiologist. During an audiologic evaluation, a patient's hearing is tested with a calibrated audiometer in a sound-attenuating enclosure. The softest intensity of sound in decibels that a patient can reliably detect (i.e., the hearing threshold) is assessed across a range from 125 to 8000 Hz, with lower thresholds being indicative of better hearing. In children and young adults, thresholds across all frequencies will be close to 0 dB, but with progressive age-related declines in hearing, these thresholds will gradually increase, particularly for sounds at higher frequencies. The World Health Organization classifies hearing according to the average of a person's hearing thresholds at the frequencies of sound that are considered to be the most important for speech (500, 1000, 2000, and 4000 Hz), termed the fourfrequency pure tone average (PTA4) (Table 2). The PTA4 can be used by the clinician or patient to understand the functional implications of the patient's level of hearing and appropriate management strategies (Fig. 2). Other tests that are performed during the audiologic examination (e.g., boneconduction audiometry and speech understanding) can also help to differentiate whether there may be nosis and intervention with glucocorticoids may a conductive or central auditory processing cause improve the chances of hearing recovery. Sudden of hearing loss and to guide appropriate hearing

Evaluations of hearing that patients perform persons, and most commonly occurs in adults 40 on their own are also increasingly available by means of digital applications. A recently adopted eral hearing loss from a conductive cause, pa- consumer technology industry standard¹⁴ for heartients with sudden sensorineural hearing loss will ing-related technologies (e.g., smartphones and often report an acute, painless hearing loss in one wireless earbuds) specifies how these applications ear that results in a near-complete inability to hear can directly measure and report to users their PTA4 (also termed the "hearing number"; www Multiple bedside screening methods for hear- .hearingnumber.org), which can be tracked on a ing loss exist, including whispered-voice and fin- regular basis. Such an approach aligns with broadger-rub tests. However, these measures produce er trends toward empowering persons with direct access to metrics to monitor their own health and and may be of limited usefulness depending on increases awareness that hearing exists along a the suspected probability of a patient having age- continuum that can be monitored and acted on related hearing loss. It is especially important to over the course of life, as is done for other health

Component	Description	Factors That Adversely Affect the Component
Speech signal	Speech is a complex auditory signal composed of sounds of different frequencies, each of different intensity, and all changing in real time and embedded within an auditory soundscape of competing sounds.	Distance from the speech source, competing soun and rooms with reverberant acoustics (gener- ally rooms with higher ceilings and multiple has surfaces) will distort and degrade speech befor- reaches the listener.
Conductive hearing	The pinna, ear canal, tympanic membrane, and middle ear ossicles collect and transduce sound vibrations into pressure waves in the cochlea.	Common processes that can affect conductive hea ing include a cerumen impaction that complete obstructs the entire lumen of the ear canal or a middle-ear effusion that can result from eusta- chian-tube dysfunction caused by an inflammar process that affects the opening of the eustach tube (e.g., upper respiratory tract infection and nitis). Less common processes include tympar membrane perforations or fixation of the middl ear ossicles.
Sensorineural hearing	Sensory hair cells in the cochlea precisely trans- duce the sonically generated pressure waves into neuroelectrical signals that are transmit- ted by means of the cochlear nerve to the brain stem and cortex. Injury or damage to cochlear structures results in a degraded and less faithful encoding of speech and other sounds that characterize the auditory soundscape.	Age-related hearing loss is characterized by gradua loss of function of the sensory hair cells and ot structures of the cochlea, which often result fro the combined effects of multiple etiologic facto
Central auditory processing	Decoding of the neural signal from the cochlea into semantic and auditory meaning occurs at the level of the brain stem and higher- order cortical structures.	Central auditory processing can be a demanding cortical task in which task difficulty is determin by the quality and fidelity of the ascending neur signal as well as by other factors affecting audit decoding, such as the availability of visual lip of from the speaker, semantic context around the speech signal, and the listener's familiarity with speaker's voice. Impairments with auditory processing and decodir can occur, which are generally related to other con tions that affect brain function (e.g., traumatic brain injury, cognitive impairment, and attention disorder

MANAGEMENT

related hearing loss is to enhance a person's access to speech and other sounds in the auditory munication strategies to optimize the quality of the incoming auditory signal (over competing ed hearing loss.⁸ background noise), and the use of hearing technologies such as hearing aids and cochlear implants (Fig. 2). The prevalence of hearing aid use away from or reduction in the volume of the sound or cochlear implantation among persons who source and by the use of hearing-protection de-

could benefit (as determined on the basis of their The primary clinical rationale for addressing age- audiologic hearing) remains very low. Among persons with hearing impairment in the United States, the prevalence of hearing aid use is below environment (e.g., music and audible alerts) in or- 20%⁴ and that of cochlear implantation is less der to promote effective communication, engage- than 5%.¹⁵ Reasons for the low rate of adoption ment with daily activities, and safety. At present, are multifactorial and include such factors as there are no restorative therapies for age-related stigma, poor accessibility to and affordability of hearing loss, and management of the condition hearing interventions, and the inability of hearing is focused on hearing protection, adoption of com- technologies to compensate fully for the degraded peripheral encoding of sound caused by age-relat-

Hearing-protection strategies are focused on reducing noise exposure by means of movement

PTA4 in the Better- Hearing Ear	WHO Classification of Grade of Hearing Loss	Typical Hearing Experience	
		In Quiet	In Background Noise
<20 dB	Normal hearing	No problem hearing sounds	No or minimal problems hearing con- versational speech
20 to <35 dB	Mild hearing loss	Does not have problems hearing con- versational speech	May have difficulty hearing conversa- tional speech
35 to <50 dB	Moderate hearing loss	May have difficulty hearing conversa- tional speech	Difficulty hearing and taking part in conversation
50 to <65 dB	Moderately severe hearing loss	Difficulty hearing conversational speech; can hear raised voices without difficulty	Difficulty hearing most speech and taking part in conversation
65 to <80 dB	Severe hearing loss	Does not hear most conversational speech; may have difficulty hearing and understanding raised voices	Extreme difficulty hearing speech and taking part in conversation
80 to <95 dB	Profound hearing loss	Extreme difficulty hearing raised voices	Conversational speech cannot be heard
≥95 dB	Complete hearing loss	Cannot hear speech and most environmental sounds	Cannot hear speech and most environmental sounds

* Adapted from the World Health Organization (WHO) World Report on Hearing (Table 1.3).³ A person's hearing can be summarized by an average of the hearing thresholds in each ear at the frequencies of sound that are most important for speech (500, 1000, 2000, and 4000 Hz). This summary measure of hearing that is used by the WHO is referred to as the four-frequency pure tone average (PTA4; also called the "hearing number") and indicates in decibels the softest level of speech sound that the person can hear. The PTA4 can be used to understand a person's hearing and communication experience in daily life. An audiometric report will typically provide this summary value, or this measure can be obtained by means of a hearing test on a smartphone (www.hearingnumber.org).

> vices (e.g., ear plugs) when needed. Communica- allowing for the sale of over-the-counter hearing speech signal.

> option for age-related hearing loss. Hearing aids more severe levels of hearing loss but are only amplify sound, and more advanced hearing aids available with a hearing professional as an intercan also increase the signal-to-noise ratio of the mediary. The cost of these over-the-counter heardesired target sound (e.g., amplifying a speaker's ing aids once the market is mature is expected to voice over the background noise) by means of be on par with higher-quality wireless earbuds directional microphones and digital signal pro- that often range from \$100 to \$300 in the United cessing, which is critical for improving communi- States. Over-the-counter hearing aids may evencation in noisy settings. Before 2022, hearing aids tually become indistinguishable from wireless in the United States could only be purchased with earbuds as hearing-aid features become routinely a hearing professional (typically an audiologist or incorporated into these devices. hearing-instrument specialist) as an intermediary.

> Drug Administration enacted new regulations comes of both hearing-specific and general health-

tion strategies include encouraging persons to be aids that would be available to consumers, withface to face and at arm's length when conversing out a hearing professional as an intermediary.¹⁶ and to reduce background noise. Face-to-face com- These over-the-counter hearing aids are intended munication allows for both a clearer auditory for adults with perceived mild-to-moderate levels signal to be received and for the listener to have of hearing loss with PTA4 values generally less visual access to facial expressions and lip move- than 60 dB, which encompasses 90 to 95% of all ments that can aid in central decoding of the persons with hearing loss (Fig. 1). In contrast, prescription hearing aids have higher levels of Hearing aids remain the primary treatment sound output and can be used by adults with

A previous Cochrane systematic review con-Beginning on October 17, 2022, the Food and cluded that hearing aids in adults improve out-





CLINICAL PRACTICE

counter.

related quality of life.¹⁷ One recently published randomized trial (Aging and Cognitive Health Evaluation in Elders [ACHIEVE]) investigated the Age-related hearing loss results from the combined distal effects of hearing intervention (e.g., hear- effects of multiple etiologic factors occurring over ing aids and related audiologic services to support one's lifetime.^{1,2} Whether pharmacologic or genetic technology use) as compared with health educa- therapies could be feasibly used to reduce the protion (control) on reducing 3-year cognitive decline gression of age-related hearing loss or to restore in adults 70 to 84 years of age with hearing loss.¹⁸ In the primary analysis of the total ACHIEVE industry research, but efforts have been largely cohort, hearing intervention did not reduce 3-year unsuccessful to date.²⁰ Although several mechacognitive decline as compared with control. How- nisms have been proposed through which ageever, a prespecified sensitivity analysis showed related hearing loss could adversely affect health, that in the trial population of participants who one provocative mechanism suggests that impaired were at increased baseline risk for cognitive hearing and diminished auditory afferents may decline, hearing intervention reduced cognitive directly affect brain function and structure.²¹ Unchange by 48% over a period of 3 years (change in derstanding whether existing hearing rehabilita-3-year global cognitive decline, -0.211 SD units tive technologies could modify these effects and in the intervention group vs. -0.402 SD units in help support brain health will be important for the control group). In contrast, no effect of hear-optimizing future intervention strategies. ing intervention was observed in the trial population consisting of healthy volunteers at decreased baseline risk for cognitive decline. Continued follow-up of the ACHIEVE cohort beyond 3 years In 2021, the U.S. Preventive Services Task Force and other longer-term studies will be needed to determined that there is insufficient evidence to further understand the potential effects of hear- assess the benefits and harms of screening for the risk of dementia.

implant is a neuroprosthetic device that encodes rently available. sounds and directly stimulates the cochlear nerve. It is implanted by an otolaryngologist during outpatient surgery that takes approximately 2 hours. implantation.

AREAS OF UNCERTAINTY

hearing function is an active area of academic and

GUIDELINES

ing intervention on reducing cognitive decline and hearing impairment in asymptomatic adults 50 years or older.²² Clinicians were advised to use their Persons who have hearing loss of greater se- own clinical judgment about conducting hearing verity (PTA4 values generally ≥ 60 dB) and who tests in patients who have symptoms of hearing continue to have difficulty with understanding loss or who have raised concerns about their hearspeech despite the use of hearing aids may be ing. To my knowledge, no other clinical practice candidates for a cochlear implant. A cochlear guidelines on age-related hearing loss are cur-

CONCLUSIONS

A period of 6 to 12 months is needed after im- The patient described in this vignette presents with plantation for the patient to become accustomed a history consistent with age-related hearing loss. to hearing with the implant and perceiving the After evaluating for and ruling out a potential conneuroelectrical stimuli as meaningful language ductive cause or need for otolaryngology referral, and sound. Although there is variance in hearing I would presume that some degree of age-related results after a cochlear implant, the improvement hearing loss is present. I would counsel the pain speech understanding and communication is tient and his wife about the ways in which ageoften described as "life-changing" by many adults related hearing loss as well as other factors can who had long struggled to adequately communicate.¹⁹ Potential candidates for a cochlear implant strategies and technologies can improve commushould be referred to a cochlear implant center or nicative and social functioning and potentially an otolaryngologist who specializes in cochlear have distal effects on supporting cognitive health. Depending on the patient's preference, I would refer the patient to an audiologist for a formal hearing aids and explain that retail choices for diagnostic evaluation and counseling about treat- over-the-counter hearing aids and support options ment options or to a well-regarded retail center for these technologies are expected to rapidly inthat sells hearing aids (e.g., Costco). If the patient crease in the next 2 to 3 years as the market for is familiar with using technology, I would provide over-the-counter hearing aids matures in the Unitresources to help the patient learn how to do a ed States. self-test of hearing with a smartphone. I would

also discuss the availability of over-the-counter full text of this article at NEJM.org.

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We are looking for candidates who have good medical judgment, who can work independently, and who have a good command of written English. Applicants are not required to be U.S. citizens, but successful candidates must reside in the Boston area for the duration of the fellowship. Please visit editorialfellows.nejm.org to upload your curriculum vitae and a required letter of interest addressed to Dr. Eric Rubin. If you have any questions, please email editorial@nejm.org with the subject line "NEJM Editorial Fellowship Application 2025-26."



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