The Impact of Aging, Hearing Loss and Cognitive Burden on Health Literacy on Older Adults

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Learning Objectives

At the end of this educational activity, participants should be able to:

• Explore the association between hearing loss and cognitive burden.
• Explain how the different stages of hearing loss impact cognitive function and health literacy.
• Identify the potential impact of untreated hearing loss on indirect health, psychosocial well-being and overall quality of life.
• Describe communication and management techniques for caregivers to accommodate changes in the cognitive status of those with hearing loss.
• Discuss tools and strategies recommended by the Hearing Loss Association of America (HLAA) and how these can be put into practice.
Prevalence of Hearing Loss by Age & Severity


Healthy Aging

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What is the impact of treating age-related hearing loss (ARHL)?

- The question of whether addressing/treating ARHL and whether that delays cognitive/physical decline remains unknown. A randomized clinical trial is currently underway.
- However, treating hearing loss with hearing aids will likely impact the three mechanistic pathways: reduce cognitive load, increase stimulation of auditory nerve pathways and auditory centers in the auditory cortex, and improve social engagement.
- Effects of ARHL may be a modifiable late-life risk factor for cognitive decline and dementia (as opposed to processes like vascular disease that must be addressed in mid-life in order to mitigate cognitive decline and dementia in later life).
- Unfortunately, only about 20% of those who would benefit from hearing aids wear them. Why?
Hearing Loss and Health Literacy

Health Literacy is defined as:
- ...the degree to which individuals can obtain, process, and understand the basic health information and services they need to make appropriate health decisions.

Health Literacy includes:
- Print literacy—the ability to read and understand text and locate and interpret information in documents.
- Numeracy—the ability to use quantitative information—for example, take 1 ½ teaspoons every 8 hours.
- Oral/Aural literacy—the ability to speak and listen effectively.

Who’s at risk?
The Institute of Medicine identified several populations that are at-risk for low health literacy:
- the elderly
- people with speech, language, hearing, and vision disorders
- people with cognitive or mental disorders
- non-English speakers
- ethnic minorities
- people in poverty
- people who are homeless
Effects of low health literacy

Low health literacy is associated with:
- Inadequate use of health care resources
- Poorer ability to understand and follow medical advice
- Reduced compliance with medical recommendations
- Medication errors
- Greater incidence of preventable hospitalizations and readmissions
- Increased emergency department visits
- Poorer health outcomes
- Increased cost and duplication of services

Communication & Management Techniques

Hearing Loss Association of America (HLAA) (www.hearingloss.org) is the nation’s leading organization representing consumers with hearing loss.

- HLAA defines Effective Communication as the process of exchanging information between two or more people and asking for clarification until all parties are able to fully understand.
- Effective Communication results in the individual being able to make informed decisions and the health care team providing safe and responsible care.
Effective Communication in Health care

• HLAA produces a guide titled Guide for Effective Communication in Health Care. It is divided into two sections: Guide for Patients and Guide for Providers.

• The Communication Access Plan is the cornerstone of both sections.

• The Guide for Patients helps individuals inform their health care providers about their hearing status and needed communication aids and services.

• The Guide for Providers is designed to help health care providers establish and maintain best practices in ensuring effective communication for individuals who are hard of hearing and deaf as well as their families and caregivers.

Guide for Providers

The Guide for Providers includes information on:

– Legal and regulatory responsibilities for hospitals and health care practices and facilities
– The Communication Access Plan (CAP) and how it helps providers and individuals manage and ensure effective communication
– Communication aids and services needed for effective communication
– Information for staff working in various settings such as inpatient and outpatient settings, emergency departments, and performing tests and procedures
Benefits of Effective Communication

Effective Provider-Individual Communication improves the quality of treatment, resulting in:
- Improved safety
- Informed decision making
- Treatment and medication adherence
- Increased satisfaction
- Better health care outcomes

Recognizing Hearing Loss

Common indications that an individual may be hard of hearing:
- Often asks for statements to be repeated
- Often misunderstands conversations and information, especially in noisy or busy environments
- Has difficulty understanding when they cannot see the speaker’s face
- Turns one ear towards the person speaking or cups a hand behind an ear
- Speaks loudly
- Complains that people mumble
- Has difficulty understanding on the telephone
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Communication Access Plan

- Maintain eye contact when speaking
- Give your name and discipline. Show your ID badge
- Reduce background noise
- Minimize visual distractions
- Be sure room is well lit with the light source in front of the speaker—not behind
- Be sure they can see your mouth clearly. Do not chew gum, bite on a pen, etc.
- Speak clearly and at a moderate pace. Do not exaggerate words as this causes distortion
Communicating with Individuals who are Hard of Hearing

- Use clear speech and chunking
- Rephrase rather than repeat
- Inform when changing topics or context—diagnosis, treatment, follow-up, medication
  - Method of Explicit Categorization
- Use visuals as much as possible—diagrams, models, illustrations
- Use teach-back to encourage questions and ensure their understanding
- Provide clearly printed instructions/plan written at an appropriate level

Clear Masks

- Visual cues are critical to communication for those with hearing impairment—55% of communication is visual
- The ability to see a smile can really help!
- Clear masks allow for more person-centered, empathetic communication
- Many styles available on Amazon or from medical supply companies

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Communication Aids

• Most hearing aids now have wireless connectivity to remote devices such as a remote microphone

• You may be asked to use a remote microphone

Communication Aids

Ideal for one-on-one conversation or a small group, the Pocket Talker amplifies sounds closest to the listener while reducing background noise.

Harris Communications
Pocket Talker examples…

Telephone Communication

Ideal for people with some degree of hearing loss, the Captioned Telephone, or CapTel, works like any other telephone with one important addition:

• It displays every word the caller says throughout the conversation.

CapTel phone users can listen to the caller and can also read the written captions in the CapTel’s bright display window.

https://www.captel.com/
Summary

- Hearing loss is one of the top three conditions affecting older adults after heart disease and arthritis.

- Untreated hearing loss negatively impacts healthy aging and quality-of-life and has consistently been linked to an increased risk of cognitive decline.

- Several models suggest that the correlation between untreated hearing loss and increased risk of cognitive decline is due to increased cognitive load, changes in brain structure and function, and social isolation.

Summary

- Untreated hearing loss has a negative impact on health literacy which results in reduced compliance with medical recommendations, inadequate use of health care resources, more hospital admissions and readmissions, increased cost and duplication of services, and poorer health outcomes.

- The Hearing Loss Association of America’s Guide for Effective Communication in Health Care was created for patients and providers. It provides information, resources, and tools to help improve communication in medical settings and helps individuals ask for and get the services they need.
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September 22, 2020

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References


References


