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UW LEND
AUDIOLOGY
TRAINEE

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ILLUMINATING THE
IMPACT OF
HEARING LOSS
WITH
ELECTRONIC
COUNSELING TOOLS

WHAT
INFORMATION
DO FAMILIES
NEED IN
LEARNING
ABOUT RAISING
A CHILD WHO IS
DEAF OR HARD
OF HEARING?

What can my child hear?

Why does my child have hearing loss?

What are the treatment options?

Does it matter how soon we start treatment?

What will my child's future be like?

HOW CAN WE PROVIDE INFORMATION TO FAMILIES?

- What?
 - Verbal discussion
 - Verbal discussion with visual aids
 - Written resources
 - Web-based resources
- Who?
 - Hearing health professionals
 - Other parents
 - Adult deaf mentors

WHY ARE VISUAL
RESOURCES
HELPFUL FOR
COMMUNICATING
WITH FAMILIES?

Low health literacy

Visual learners

Stress impacts family's listening/retention

Visual resources can be viewed in clinic or
at home

PURPOSE OF MY LEADERSHIP PROJECT

- To create electronic visual counseling resources for hearing professionals to use during conversations with families.
- To highlight the impact of hearing loss and treatment/intervention options with visuals.
- Families benefit from simple visual and auditory explanations to enhance and compliment verbal discussion.



**Understanding
hearing loss**

**Treatment
options**

PROJECT: VISUAL COUNSELING RESOURCES

UNDERSTANDING HOW WE HEAR



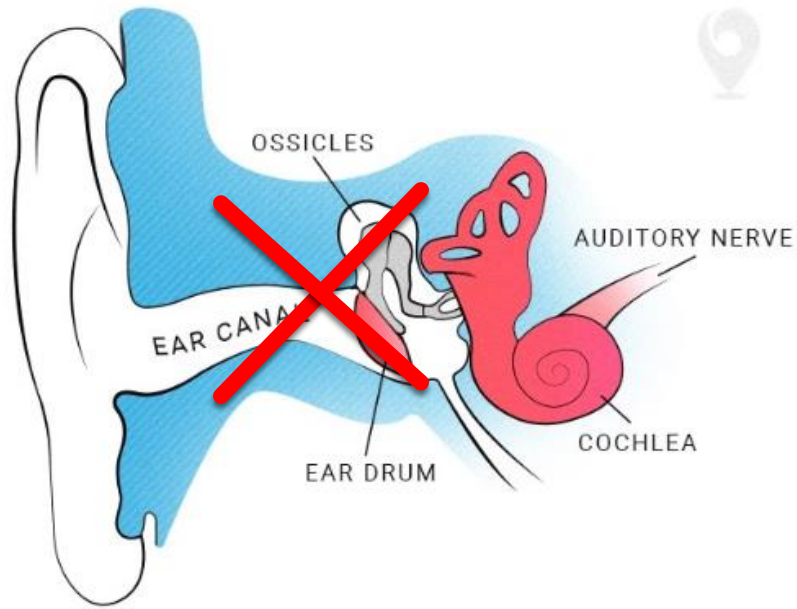
MED  **EL**

UNDERSTANDING THE IMPACT OF HEARING LOSS:

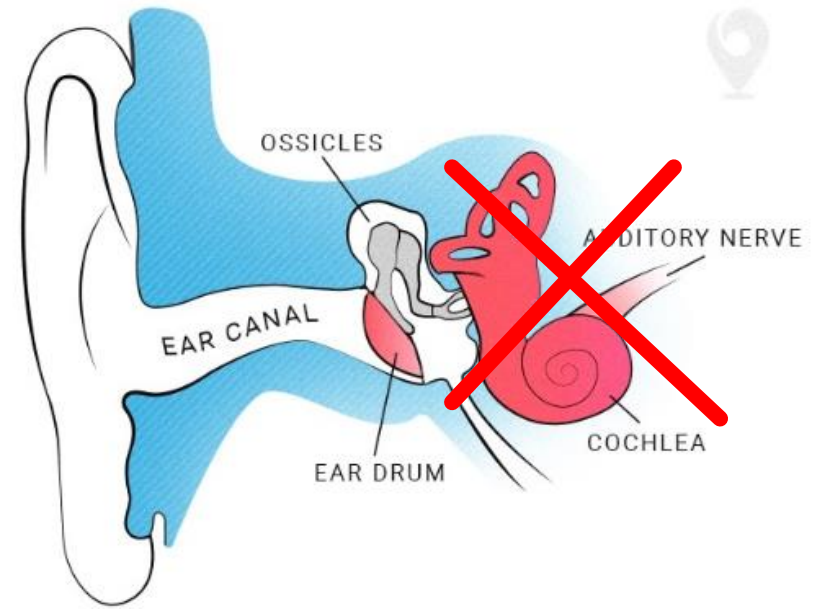


TYPES OF HEARING LOSS

Temporary



Permanent



WHAT DOES HEARING LOSS SOUND LIKE?

Hearing loss simulator

Hi, Hadley. How's it going?

Good, Grandpa.

What did you do in school today?

Well, one main thing was that media got canceled. So our class



HEARING LOSS
SIMULATION

THE IMPACT OF HEARING LOSS ON COMMUNICATION AND LEARNING

Learning
challenges

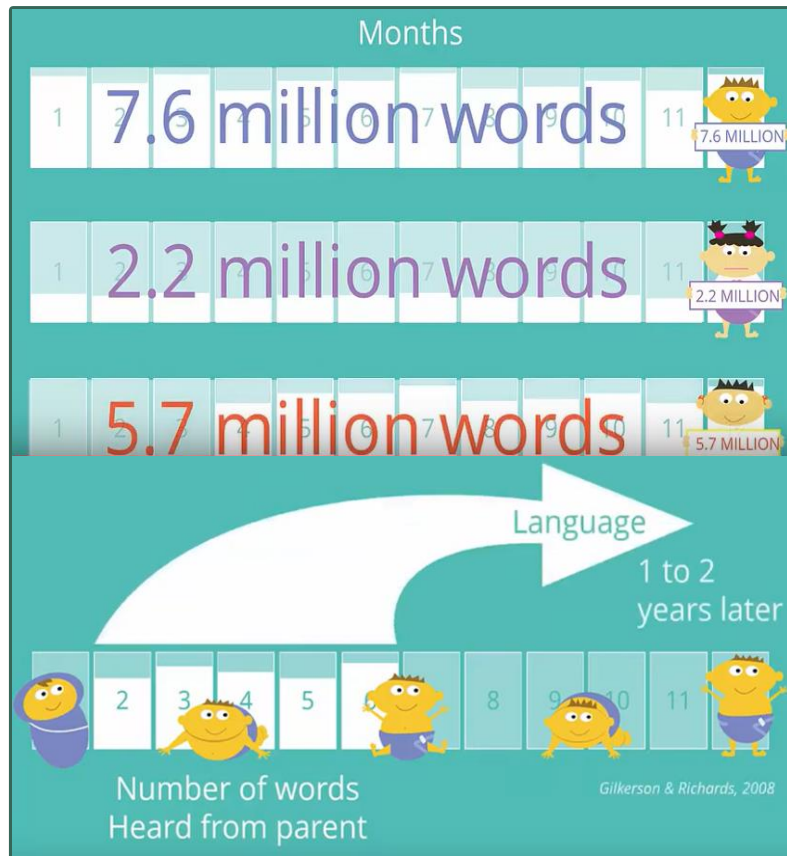
Communication
challenges

Social
challenges

Listening
fatigue



EARLY LEARNING AND LANGUAGE ARE IMPORTANT FOR LONG TERM LANGUAGE SKILLS



- Children learn language by being exposed to a rich language environment at an early age.
- When a young child has access to language (spoken or visual) they develop a larger vocabulary.
- From birth to three years, children's brains are in a period of rapid development.
- Consistent language input is critical for developing normal brain pathways for communication.

COMMUNICATION APPROACHES AND OPTIONS TO ADDRESS HEARING LOSS



Auditory
(spoken language)



Auditory/Visual
(both spoken and sign language)



Visual
(sign language)



VISUAL COMMUNICATION

- Sign Languages are visual form of communication.
- Sign language can be utilized in place of listening and spoken language or paired with it.



Mummy says come on you have to get up and go to school.

IMPROVING AUDITORY ACCESS WITH HEARING TECHNOLOGY

Hearing aids

- A hearing aid has a microphone to pick up sound, a processor to analyze the sound and a speaker to deliver the amplified sound inside your child's ear.
- A small custom piece called an earmold holds the speaker in your child's ear.



IMPROVING AUDITORY ACCESS WITH HEARING TECHNOLOGY

Cochlear Implants

- A CI has a microphone to pick up sound, a processor that analyzes the sound and an implanted device that transmits the sound into the inner ear and to the brain.



How do Cochlear Implants work?

REMOTE MICROPHONE SYSTEMS



- Remote mic systems help children who wear hearing aids and/or cochlear implants hear better when noise and distance create listening challenges.



HOW WILL THESE
RESOURCES BE
SHARED WITH
HEARING
HEALTH
PROFESSIONALS?



Available for CHDD audiologists



Available to all WA state audiologists on the wselc.org website for professionals involved in early hearing detection and intervention

YOUR FEEDBACK



Do these resources make the concepts clear and easy to understand?



Do any resources need to be modified?

REFERENCES AND OTHER RESOURCES

- <https://www.healthyhearing.com/help/hearing-aids/children>
- <https://www.hearinglikeme.com/mild-to-moderate-hearing-loss-can-change-a-childs-brain/>
- <https://www.oticon.com/your-hearing/children-with-hearing-loss/infant-to-toddler-0-to-3-years>
- <https://www.healthyhearing.com/help/hearing-aids/children>
- <https://www.youtube.com/watch?v=6zfCilOltrs>
- <https://www.youtube.com/watch?v=ijjHdw9Bjsl>
- https://www.youtube.com/watch?list=PLwsI ZBt54-gXKI2iRAoDZV2kgsEI3BhQM&time_continue=171&v=Gsvhwv0zBY&feature=emb_title – mild HL
- <https://www.youtube.com/watch?v=vqKbCFOrhv4&list=PLwsI ZBt54-gXKI2iRAoDZV2kgsEI3BhQM&index=2> – moderate HL
- https://www.starkey.com/hearing-loss-simulator?utm_source=socialmedia#!/hls/page/1