#### Engagement Through Play: Practical Strategies for Pediatric Audiology Appointments

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#### Clinical Background

- Pediatric Audiologist at Hear Indiana and administrator for the Hearing Aid Assistance Program of Indian (HAAPI)
- Pediatric Audiology Specialty Certification (PASC)
- Member of both the American Academy of Audiology and the American Speech Language Hearing Association
- Student Preceptor
- Experience across the lifespan
- Typical and atypical development
- · Financial Disclosure: Employed by Hear Indiana
- Non-Financial Disclosure: No relevant non-financial relationship to discuss



#### Questions

What are two engagement strategies you can use to successfully obtain tympanometry or OAEs in young children?

How can adapting response expectations in the sound booth improve test outcomes for

What are some effective tools or activities to maintain a child's attention during cochlear implant mapping appointments?



#### Make it fun!

Patient report surveys indicate that 48% of patients feel nervous prior to coming to appointments.

Why does this matter?

Child Health Evaluation report that 50% of children report being nervous at the doctor with the highest nerves reported between 2-5 years of age.

Medical Economics and PatientPoint/OnePoll (2023)

0-3 year olds: 3-6 appointments in a year

4-6 year olds: 2-4 appointments in a year

7-10 year olds: 1-3 appointments in a year

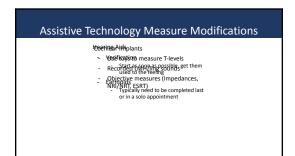
10+: At least 1 in a year

New CI users can have up to 10 appointments in the first year

#### Keep the child comfortable

Sit on parent's lap No strangers if unnecessary Bring comfort item: Blanket/doll High priority toys should stay high priority











# Measurable outcomes Participants will identify at least two strategies for obtaining tympanometry or OAEs in pediatric patients using age-appropriate engagement techniques. Participants will describe at least two ways to modify traditional sound booth response methods to accommodate a child's preferred play or seteraction byte. Participants will list at least two tools or activities that can be used to facilitate cooperation during coollear implant mapping sessions.



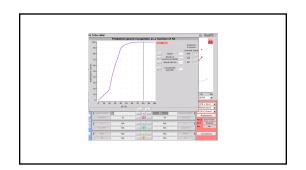
# Desensitizing ears

Touch ears everyday
Use a toy otoscope
Wear headphones at home
Play listening games at home
Keep positive appointments positive

# What are other common services children with hearing loss are receiving?

Occupational therapy Speech therapy Listening and spoken language therapy Physical therapy





Case Studies

# 5 year old

Very high energy Hearing aid user Sensory avoidant

Highly sensitive ears Difficult to maintain attention Delayed expressive language Single sided deafness

# 5 year old - modifications

Use of a target on the wall with balls to throw to keep him engaged Stacking blocks while running objective measurements Coloring app on phone Leave positive appointments positive Express need for full time use to family

#### Where is he now?

CI user 13+ hours/day of wear time Improving speech/language skills with outpatient therapy Comprehensive audiogram and programming during 1 visit

#### 3 year old

Neurodivergent

Difficult to obtain earmold impressions Bilateral hearing aid user

Difficult to keep inserts in ears Difficult to attend to tasks Inability to obtain tympanometry

Low datalogging

Delay in expressive and receptive

language

# 3 year old - modifications

Keep patient comfortable, sit on dad's lap He loves math, use of phone calculator OT to work on ear sensitivity Increase wear time at home ABA therapy Outpatient speech therapy

# Where are they now?

Tolerates earmold impressions Tolerates full time use of his hearing aids Continued outpatient therapies Comprehensive audiogram and programming during visit, earmolds typically need their own visit

#### 2 year old

Chronic middle ear concerns
Rare diseases and disorders clinic
Does not respond to loud sounds like a fire truck
Family history of hearing loss in sister
Passed newborn infant hearing screening, normal birth history
Will not tolerate on ear measures
Will not condition in soundfield after multiple attempts

#### 2 year old - modifications

Worked to desensitize ears
Outpatient OT/PT
Came in multiple times to attempt testing

# 2 year old - where are they now?

Sedated ABR needed and revealed normal hearing

#### 5 year old

Bilateral mild hearing loss
Global developmental delay
Genetic mutation needing many follow ups: Neurology, ophthalmology, GI
specialist, OT, PT, ST/LSLS
Not making progress in speech, concern for hearing progression
Does well with on ear measures
Low data logging levels

# 5 year old - modifications

Use of sleep deprived ABR to confirm hearing loss
Work with ST/LSLS and OT on behavioral testing
Appropriately programmed hearing aids
Mom is the test assistant
Lots of breaks during his visits
Limit audiology appointments as he has many appointments

# 5 year old - where are they now?

Still no overarching diagnosis
Wears his devices most of the time
Will complete comprehensive audiogram
Tolerates earmold impressions