Complexity of pediatric audiology 2024 EHDI CONVENTION Dr. Jess Stich-Hennen, Aud., PASC, Doctor of Audiology, Specialty Certification in Pediatric Audiology Dr. Gabriel Bargen, Ph.D., CCC-A/SLP, Executive Director, Associate Professor Pediatric Audiology Lidaho State University

Disclosure statements

Jess receives salary from St. Luke's Idaho Elks Hearing and Balance Center and nonfinancially is a member of the Idaho Sound Beginnings (EHDI) Advisory Board. Gabe receives salary from Idaho State University and faculty consultant funds from Utah Regional LEND program. Nonfinancially, she is a member of the Idaho Sounds Beginnings (EHDI) Advisory Board and serves as the Continuing Education Administrator for Idaho Speech-Language-Hearing Association.



CASE #1 — risk Indicator Reason for referral: Risk indicators for delayed onset hearing loss - NICU stay 27 days • Age: 11 month old • Birth History: • 32 weeks gestation age • 27 days NICU • mild Jaundice (9.3) requiring phototherapy • no ototoxic medications • passed AABR in both ears	
What would you do?	
Resources & Facts	



CASE #2- Medical complications

- Reason for Audiology referral: "Check inner ear" due to frequent vomiting
- Age: 14 months old
- Birth History: Full term (39 weeks), no complications, discharged home, passed AABR hearing screening both ears
- Readmitted 5 days old to NICU for 40 days due to Mitochondrial Metabolic Acidosis

What would you do?					

Resources & Facts

Resources

- National Library of Medicine (NIH)
- London Health Sciences Centre
- Lily Foundation (UK)



CASE #3 – Lost to Follow-up (LTF)

- Reason for Audiology referral: Failed newborn hearing screening and speech delays
- Age: 2 years 5 months old
- only saying 10-15 spoken words, does not use any two syllable words, not currently in speech therapy

What would you do?	

JCIH 2019 Position Statement

- Communication and documentation of results
 "Screening results should be conveyed immediately to the family so that they can
 understand the outcome of the screening and the importance of follow-up when
 indicated." (ICIH, p. 10)
 - "Before discharge, an appointment should be made for follow-up rescreening or for audiological testing." (JCIH, p. 10) $\,$
- Role of the Pediatrician/Primary Care Provider
 "The PCP is part of the team that ensures that the audiologic and medical
 assessment is conducted in a timely fashion for infants who do not pass screening."
 (ICIH, p. 17)

Communication

- Newborn hearing screening results
 Use scripts (NCHAM; NIDCD; AAA; ASHA)
- Audibility-based descriptions vs simulation-based descriptions vs classification-based strategies
 - Sapp, McCreery et al., 2022
- · Be clear

Pandemic impact? Meeting the EHDI Benchmark, 2018–2020 osed Before 3 Months of Age =2020 =2019 =2018 National Average of Early Hearing Detection and Intervention (EHDI) Benchmarks: 2018–2020



CASE #4 – Family Choice

Reason for Audiology referral: Failed newborn hearing screening

Age: 1 months old

Medical History: No pregnancy or birth complications, + family history of

hearing loss

What would you do?	
Delayed intervention	
Is it???	
p.	
Family Choice	
Family choice needs to be supported and we need to provide education and connect families to resources	
"Providers may consider offering resources to connect caregivers with DHH community stakeholders, including Deaf mentors, to ensure that caregivers receive adequate support and information pertaining to the full scope of	
communication methods." (Jones & Roberts, 2024) "need for family-based organizations to support families but underscored the	
importance of matching families based on their similar needs (e.g., location, family choice for language modality, children with additional special needs)" (Ward et al, 2019)	



CASE #5 – Acquired HL

Reason for Audiology referral: Hearing evaluation, referred by Pediatric ENT

Age: 8 months old

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Is this case unique?

Causes:

- uses:
 recurrent infections or
 inflammation with formation of
 granulation tissue
 healing problems
 fibrosis after surgery
 Radiotherapy
 trauma
 dermatologic conditions
 neoplasm
 idiopathic

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Resources & Facts	5			
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	CASE #6 – cCMV			
	CASE #6 - CCIVIV			
4400	Reason for Audiology referral:			
2XI	Reason for Audiology referral: Failed newborn hearing screening			
	Age: 3 weeks			
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What do you tl	hink?			

Should cCMV be universally tested?	
Resources & Facts	
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Thank you	
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