

Hear All About It – Focus on Neonatal Hearing Loss

Objectives

- Outline the known risk factors and causes of prelingual hearing loss in newborns, infants, and children
- Describe the general considerations and clinical evaluation process recommended for diagnosis and development of an intervention plan for newborns and infants with bilateral or unilateral hearing loss
- Compare the available amplification technologies and identify the indications and candidate characteristics for each device
- Summarize the findings of the retrospective study of preterm infants with confirmed sensorineural hearing loss in the first three months of life and state the frequency of improvements in hearing upon re-evaluation as well as the potential risk factors associated with hearing changes

Content Outline

1. Overview of Sensorineural Hearing Loss
 - 1.1 Definition and characteristics of congenital hearing loss
 - 1.2 AAP Joint Committee on Infant Hearing proposed detection and intervention guidelines
 - 1.3 Environmental and genetic causes of congenital hearing loss
 - 1.3.1 Challenges of identifying hereditary causes of hearing loss
 - 1.4 General approach to clinical evaluation of pediatric congenital hearing loss
 - 1.5 Characteristics of hearing loss and the role of imaging in initial workup
 - 1.6 Genetic evaluation and consultation
 - 1.7 Description of various treatment options including aural rehabilitation
2. Evaluating Hearing Outcomes in Preterm Infants with Confirmed Hearing Loss
 - 2.1 Prevalence of congenital hearing loss in newborns
 - 2.2 Retrospective study of preterm infants with bilaterally failed newborn hearing screens
 - 2.2.1 Materials, methods, results
 - 2.2.2 Discussion of findings
 - 2.2.3 Conclusions

Reading Material Resources

Module WB2534 Hear All About It – Focus on Neonatal Hearing Loss is based on the resources listed below. A copy of each resource is included with the module.

Congenital Sensorineural Hearing Loss, Shave S et al., *Pediatric Clinics of North America*, 69(2022), 221-234

Hearing outcomes in preterm infants with confirmed hearing loss, Aldè M et al., *International Journal of Pediatric Otorhinolaryngology*, 161 (2022), 1-6