



Guidelines for Risk Monitoring for Delayed Onset Hearing Loss

Class A: Risk indicators

- ***In-utero infections** (congenital CMV)
- ***Culture Positive postnatal infection** (Bacterial and viral meningitis)
- ***Syndromes associated with progressive or delayed onset hearing loss** (Neurofibromatosis, Osteopetrosis, Usher Syndrome, Townes-Brock)
- ***Syndromes associated with hearing loss** (Down syndrome and Sticklers)
- ***Cleft Lip/Palate**
- ***ECMO assisted ventilation**
- ***Head Trauma involving basal skull/temporal fracture that requires hospitalization**
- ***Chemotherapy treatments**
- ***Neurodegenerative disorders or sensory motor neuropathies**
- ***Hyperbilirubinemia requiring exchange transfusion**

If baby passes the newborn hearing screening & has one or more CLASS A risk indicators =
Recommendation for diagnostic ABR evaluation with pediatric audiologists by 3 months of age.

Class B: Risk indicators

- ***Family history of childhood hearing loss**
- ***In-Utero Infection** (Herpes, Rubella, Syphilis, Toxoplasmosis)
- ***NICU stay of greater than 5 days**
- ***Any amount of ototoxic exposure** (aminoglycosides)
- ***Any amount of mechanical ventilation**
- ***Craniofacial anomalies involving pinna, ear canal, ear pits and temporal bone anomalies**

If baby passes the newborn hearing screening & has one or more CLASS B risk indicators =
Recommendation for diagnostic pediatric hearing evaluation by 1 year of age.

NOTE: If baby REFERS on the newborn hearing screening after two attempts –
Recommendation for Diagnostic ABR evaluation to be completed by 3 months of age (JCIH 2007)

- * Any parental/caregiver hearing concerns warrants a referral to a pediatric audiologist.
- ** Infants readmitted to the hospital within the first 30 days of life should be re-screened if any risk indicators are present.

References:

- Fligor BJ, Neault MW, Mullen CH, Feldman HA, Jones DT. Factors associated with sensorineural hearing loss among survivors of extracorporeal membrane oxygenation therapy. *Pediatrics* 2005; 115(6):1519-1528.
- Joint Committee on Infant Hearing. Year 2007 Position Statement: Principles and Guidelines for Early Hearing Detection and Intervention Programs. *Pediatrics*. 2007; 120(4):898–921. doi: 10.1542/peds.2007-2333.
- Van Riper, Lori A.; Kileny, Paul R. ABR Hearing Screening for High-Risk Infants. *American Journal of Otology*. 20(4):516-521, July 1999.