



## 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**

If baby passes the newborn hearing screening & has one or more CLASS A risk indicator =  
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.