

**BILL DANIELS CENTER FOR CHILDREN'S HEARING
THE CHILDREN'S HOSPITAL – COLORADO**

Auditory Neuropathy Spectrum Disorder

Team Management Protocol for children who demonstrate no response to auditory stimulation

Age	Audiological Diagnostics	Audiological Intervention	Speech-Language Intervention	Family Consultant Or Social Worker	Additional Recommendations
0-2 months	Otoscopy ABR-CM; OAEs 1K Hz immittance/acoustic reflexes*** ***caution should be used in interpreting high frequency probe tone acoustic reflex results in infants less than 6 months of age - no normative data exists with this population	Parent counseling Parent education	Parent counseling Visual language enhancement techniques Observation of communication	Parent counseling Resources Emotional support	Pediatric/developmental Otologic Medical genetics Ophthalmologic Neurologic Home intervention services
3-6 months	Otoscopy ABR – CM; OAEs 1k Hz immittance/acoustic reflexes*** (see above) BOA; startle Parent auditory questionnaire (Appendix A)	Parent counseling Parent education	Counseling/collaborating to help provide language rich environment Initiate visual communication system	Inquire about needed support Connect family to community based early intervention services	
6-9 months	Otoscopy Behavioral assessment (BOA, VRA) attempt ear specific, frequency specific warbled tones; speech awareness Immittance/acoustic reflexes OAEs Parent auditory questionnaire (Appendix A)	Parent counseling Parent education If no auditory response, initiate trial HA fit (begin conservative, then increase gain) Beginning conversation re: cochlear implant	Formal communication evaluation including assessment of receptive/expressive/pragmatic language; play; speech sound production (Appendix C) Recommendations based on results	Provide community resources Parent organizations Parent to Parent mentors or guides Websites specific to AN Ensure family is receiving visual communication support in the home	
9-12 months	Same as above	If no response/no benefit from amplification, AND If parent is interested, proceed with CI work up/evaluation	Formal communication evaluation including assessment of receptive/expressive/pragmatic language; play; speech sound production (Appendix C) Recommendations based on results	Parent to parent support with CI families CI adult role models	CI workup should include surgeon consultation, imaging of cochlear nerve, CT scan, device counseling, team evaluation per CI Center protocol

Ongoing management of children who demonstrate no response to sound should proceed per clinic/team protocol for children who are deaf. Options may include cochlear implant, visual language system, and other supports as selected by the parents.