

**BILL DANIELS CENTER FOR CHILDREN'S HEARING
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 mos	Otoscopy ABR with CM recording protocol; OAEs 1K Hz immittance, acoustic reflexes	Parent counseling Parent education	Parent counseling Visual language enhancement techniques Observation of communication	Parent counseling Resources Emotional support Home intervention services	Pediatric/developmental Otologic Medical genetics Ophthalmologic Neurologic
3-6 mos	Otoscopy ABR with CM recording protocol; OAEs 1k Hz immittance, acoustic reflexes BOA; startle response Parent auditory questionnaire	Same as above	Counseling to provide language rich environment including auditory and visual communication systems	Connect family to additional community based resources • Parent organizations	Other as needed
6-9 mos	Otoscopy Behavioral assessment (BOA, VRA) attempt ear specific, frequency specific warbled tones; speech awareness Immittance, acoustic reflexes OAEs Parent auditory questionnaire	Same as above AND If no auditory response, initiate trial HA fit (begin conservative, then increase gain) Begin conversation re: cochlear implant (CI)	Formal communication evaluation including assessment of receptive, expressive, and pragmatic language; play; speech sound production Recommendations based on results	Websites specific to AN Ensure family is receiving visual communication support in the home	Other as needed
9-12 mos	Same as above	If no benefit from amplification, AND If parent is interested, proceed with CI evaluation	Same as above	If parent is interested in CI, connect to Parent to parent support with CI families, CI adult role models	CI workup including 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.