

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

Auditory Neuropathy Spectrum Disorder (ANSD)

Team Management Protocol for children who demonstrate age appropriate auditory responses

Age	Audiological Diagnostics	Audiological Intervention	Speech-Language Recommendations	Family Consultant Or Social Worker	Additional Recommendations
0-2 months	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 months	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 Monitor communication success	Connect family to additional community based resources <ul style="list-style-type: none"> Parent organizations 	Other as needed
6-9 months	Otoscopy Behavioral assessment (BOA, VRA) attempt ear specific, frequency specific warbled tones; speech awareness Immittance, acoustic reflexes OAEs Parent auditory questionnaire	Same as above	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 months	Otoscopy Behavioral assessment (BOA, VRA); attempt ear specific, frequency specific warbled tones; speech awareness Immittance, acoustic reflexes OAEs Parent auditory questionnaire	Same as above Monitor 6 months	Same as above	Same as above	Optional ABR evaluation under sedation or general anesthesia if: Child's auditory responses change or per parent request

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Age	Audiological Diagnostics	Audiological Intervention	Speech-Language Recommendations	Family Consultant Or Social Worker	Additional Recommendations
18 months	Otoscopy Behavioral assessment (BOA, VRA, CPA); attempt ear specific, frequency specific warbled tones; speech awareness and speech recognition in quiet & noise Immittance, acoustic reflexes OAEs Parent auditory questionnaire	Parent counseling Monitor 6 months	Formal communication evaluation including assessment of receptive, expressive, and pragmatic language; play; speech sound production Recommendations based on results	Begin support for transition to preschool services	Other as needed
24 months	Same as above	Same as above	Informal re-evaluation Monitor vocabulary development	Same as above AND Encourage exposure to toddler groups, story time, activities outside the home	Other as needed
3-6 years	Same as above	Same as above Collaboration with educational team	Yearly evaluation including assessment of language and speech sound production	Assist families in obtaining full language access in classroom	Educational consultation services
School age	Same as above	Same as above Collaboration with educational team	Same as above Collaboration with educational speech-language pathologist	Self advocacy Support with obtaining and using assistive technology as needed	Other as needed