

**BILL DANIELS CENTER FOR CHILDREN'S HEARING
THE 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 – 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 Referral to 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 Monitor communication success	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	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	
9-12 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 Monitor 6 months	Formal communication evaluation including assessment of receptive/ expressive/pragmatic language; play; speech sound production (Appendix C) Recommendations based on results	Same as above	Optional ABR evaluation under sedation/general anesthesia if: Child's auditory responses change or per parent request

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