Autism and Speech: How Autism Spectrum Disorder Affects Speech and Language Development in Young Children Olivia Weldon THE COLLEGE OF NEW JERSEY Department of Special Education, Language, and Literacy SCHOOL OF EDUCATION



Abstract

Autism Spectrum Disorder (ASD) is a neurological and developmental disorder that can severely child's social interactions, behaviors, interests, and their communication skills. The focus of this is to highlight the connections between autism spectrum disorder and speech and language development in the early years of a child's life. There is no set standard for a therapy tactic since child is different and requires a personalized approach, but professionals have identified key str use. A review of relevant literature and reflection on personal speech therapy observations allo conclusions to be drawn about what are considered to be the best techniques and approaches working with a child that is diagnosed with autism spectrum disorder.

Introduction

This research assignment will go in-depth in reviewing and analyzing lite that looks at different aspects of autism spectrum disorder. It will answe questions of what can cause this disorder and how it can be diagnosed. are the links between autism spectrum disorder and communication skills? How and why are these communication skills impaired? What ar best practices and interventions to help speech and language development? Personal, professional observations and literature review database sources, like EBSCOhost, allowed for analysis on each question

Observations

All observations took place at The Child Family Center in Millville, New .

Alexander

Non-verbal and sensory-driven

Main goals- toleration of therapy and sustained attention one 1 activ

Brandon

- Minimal language- single word intelligible utterances, unintelligible lo utterances
- Main goals- following directions and commands, imitate language, ar using spontaneous language

Carson

- Functional verbal language
- Main goals- expanding utterances, using appropriate nouns and pron differentiating between singular and plural objects, and following directions

The College of New Jersey

Literature Review

y affect a	Etiology
sresearch	Strong evidence for genetic/biological cause (Coburn & William
ce every	Larger brain volume, inconsistencies with cortical thickness a
rategies to	Faster development of myelination in frontal cortex, slower
owed for	Myelination allows the brain to facilitate complex behavior
wnen	Effects on Speech and Language
	The brain creates its own functional networks between regions
	(Coburn & Williams, 2020)
	ASD brains do not make proper connections and have atypic
erature	Higher risk of having an articulation or phonological speech dise
ver the	Impairments concerning the principles of grammar (reflexives a
. What	Best Practices
	Augmentative and Alternative Communication (AAC)
re the	 Transdicipilnary approach (TA)
	 Collaborative team of teachers, service providers, parents, a
wfrom	Incorporates differing perspectives and ideas when trying
w nom	Child-Directed Interaction Training (CDIT)
Π.	Child leads the way during therapy
	show fewer behavior problems, increases language, social av
	relationships with the people working with them (Ginn et al.
lersev	Implications
Jeisey	 Clinical focuses
	Joint attention, engaging in symbolic play, imitation
	Reading comprehension levels fall as children get older
vity	Trouble with inferencing and theory of mind- not able to ma
	themselves
onger	
nd	Referen
	Cleland, J., Gibbon, F. E., Peppé, S. J., O'Hare, A., & Rutherford, M. (2010). Phonetic and phonological errors in
	<i>language pathology</i> , 12(1), 69–76. <u>https://doi.org/10.3109/17549500903469980</u> Coburn, K. L., & Williams, D. L. (2020). Development of Neural Structure and Function in Autism Spectrum Disc
	Pathology, 29(4), 1783–1797. <u>https://ezproxy.tcnj.edu:2083/10.1044/2020_AJSLP-19-00209</u> Ginn, N. C., Clionsky, J. N., Evberg, S. M., Warner-Metzger, C. & Abner, JP. (2017). Child-Directed Interaction T
nouns,	of Clinical Child & Adolescent Psychology, 46(1), 101–109. <u>https://ezproxy.tcnj.edu:2083/10.1080/153744</u>
	Perovic, A., Modyanova, N., & Wexler, K. (2013). Comparison of grammar in neurodevelopmental disorders: The Language Acquisition, 20(2),133-154. doi:10.1080/10489223.2013.766742.

Weiss, D., Cook, B., & Eren, R. (2020). Transdisciplinary Approach Practicum for Speech-Language Pathology and Special Education Graduate Students. Journal of Autism & Developmental Disorders, 50(10), 3661-3678. https://ezproxy.tcnj.edu:2083/10.1007/s10803-020-04413-7

ns, 2020). and surface area in temporoparietal junction ors and cognitive functions (language)

to understand, process, and use speech and language

cal hemispheric lateralization sorders (Cleland et al., 2010) and pronouns) (Perovic et al., 2013)

and the child (Weiss et al., 2020) g to problem-solve and achieve goals

wareness and responsiveness, and create better ., 2017)

ake social-emotional connections to things outside of

nces

n children with high functioning autism and Asperger syndrome. International journal of speech-

sorder: Potential Implications for Learning Language. American Journal of Speech-Language

Training for Young Children With Autism Spectrum Disorders: Parent and Child Outcomes. Journal <u> 16.2015.1015135</u>

The case of binding in Williams syndrome and autism with and without language impairment.

- alter their language development
- Conduct my own study
- Longitudinal
- Follow children with ASD from early intervention/preschool until middle school
- Examine yearly speech evaluations

Limitations

The impacts of COVID-19 to use

Time

The project and research only took place over one semester

Conclusion

Autism Spectrum Disorder has evolved over the years to encompass a wide variety of neurodivergent disorders. Social communication deficits are a hallmark for ASD. Though two children are both diagnosed with ASD, the ways in which their speech and language are impaired can be very different. This ranges from being completely non-verbal, to having full use of speech and language. Because children can fall along a spectrum, there is no one right way to provide therapy to a child with ASD. Every child responds differently to the ways in which they are serviced. Speech-language pathologists need to be well-versed in therapy tactics due to this. More research needs to be completed in this field to better supplement previous findings and arguments. I hope to one day complete a study of my own to look further into how contrasting speech therapy activities and goals can affect a child with autism spectrum disorder.

Future Research

Focus on how speech therapy for children with Autism Spectrum Disorder can

- Compare and contrast therapy goals, therapy strategies, and current level of
- functional speech and language use

Limitations and Conclusion

- This hindered where and how many observations took place prior to
- completing the project
- Access to unlimited resources
 - Not all journals and scholarly articles are free and available online for students