

Introduction

Studies find that anywhere from 4 to 13% adults with autism spectrum disorder (ASD) are competitively employed (Taylor & Seltzer, 2011) and are among the lowest of any disability group engaged in postsecondary employment and education settings (Morgan & Riesen, 2016; Shattuck et al., 2012).

Focus has now shifted to identifying high school programs and predictors to improve postsecondary outcomes for individuals with ASD. One theme that emerges is the importance of students identifying and setting goals, otherwise known as self-determination, an identified evidence-based practice in the transition planning process.

Purpose

To identify and examine models of variables that predict students voicing post-graduation goals with their parents and teachers.

Study Aims:

- Establish how student-level variables predict the frequency of shared goals.
- Include school-level and community-level variables to examine whether student-level predictors vary as a result of school and community characteristics.

Method

Data were drawn from a larger ongoing study of high school students with ASD, the Center for Secondary Education for Students with Autism Spectrum Disorders (CSESA). School-and community-level data was collected from the National Center for Education Statistics (NCES) on schools. For the present study, data were available from the first cohort of students, with a teacher- and parent/caregiver-report proximal measure.

Multilevel modeling techniques assessed:

Level 1: Student-level characteristics Level 2: School- and community-level characteristics

Multilevel Modeling: Student, School and Community Characteristics that Impact Predictors of Postsecondary Outcomes for High Schoolers with Autism Spectrum Disorder

Alice Verstrat, M.Ed. & Tara Regan, M.S.W.

Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill alice14@live.unc.edu & teregan@live.unc.edu

Student-Level Characteristics (n=167)						School- & Community-Level Characteristi (n=167)							
Race and Gender		Vineland-II Adaptive Behavior		Leiter-3 Nonverbal IQ		Household Income		Student-Teacher Ratio		School's locale		 Proportion of students qualified for F & Reduced 	
White	80.72%	30-45	1.14%	70-85	80.72%	10K	10.84%	13-16	33.17%	Urban	36%	Lunch 0-15	19.51
Non- white	19.2%	46-60	3.43%	86-100	30.2%	30K	9.64%	17-20	30.24%	Suburban	50%	16-30	29.77
		61-75	32.57%	101-115	25.53%	50K	11.54%	21-24	15.13%	Rural	14%	31-45	27.8%
Male	85.37%	76-90	49.72%	116-130	11.45%	70K	15.06%	25.28	21 /6%			16 60	0 27%
Fomolo	14 62%	01 105	0 71%	121 1/5	1 170/	OOK	10 24%	23-20	21.40%			40-00	9.2170
remale	14.0370	91-105	9.7170	131-145	4.1770	901	10.2470					61-75	5.8%
		106-120	3.43%			110K	42.77%					75-90	5.9%
		Mean	79.5	Mean	97.3	Mean	\$76,500						

Multilevel Regression Results Predicting Goal Sharing (Conditional Model)

Effects	Goal Sharing					
	β	SE				
Intercept	2.26	.138				
Non-white	.179	.256				
Gender	.136	.312				
Household Income	.000	.003**				
Vineland	.033	.009**				
NV IQ	.002	.006				
** p< 0.05						

Multileve Predi	el Regression cting Goal Sh	aring	Variance Within and Between Schools Based on Reporter					
(Random C	oefficient Mo	del Results)	Reporter					
Effects	Goal Sharing			SD Residual	SE			
	βSE		Teacher					
Urban	.135 .325		Within School	1.098	.078			
Suburban	.103 .670		Between School	.380	.154			
Student- Teacher	.004	.005	Parent					
Free-Reduced Lunch	e-Reduced .000 .000		Within School	1.35	.091			
Vineland X Student- Teacher	nd X .002 .000**		Between School	.203	.280			
Household Income	.000	.000**						
** p< 0.05								



Findings

Student level: Gender, race, non-verbal IQ, and household income returned insignificant results in predicting post-secondary goal sharing. The Vineland-II adaptive behavior composite score was the only significant student-level predictor of sharing post-secondary goals. The adaptive score variable explained 12.5% of the variance in the outcome variable.

School and Community level: Shared goal frequency increased by approximately 20% for both urban and suburban students as compared to their peers in rural communities. High-poverty schools and student-teacher ratio in this sample did not impact the frequency of students' shared goals. Interaction effects between socioeconomic school and student indicators, and between the Vineland-II score and student-teacher ratio warrant further analysis with the larger data sample.

Conclusion

The barriers to post-secondary success lay in the adaptive-social domain, rather than intelligence for individuals with ASD and no ID. We need to refocus or add supports and programs to develop the adaptive/functional domains for even cognitively highfunctioning individuals with ASD.

A student diagnosed with autism in a rural community should trigger increased efforts and programming to prevent isolation and dependency after high school.

References

- > Morgan, R. L., & Riesen, T. J. (2016). *Promoting Successful* Transition to Adulthood for Students with Disabilities. New York, NY: Guilford.
- Shattuck, P. T., Narendorf, S. C., Cooper, B., Sterzing, P. R., Wagner, M., & Taylor, J. L. (2012). Postsecondary education and employment among youth with autism spectrum disorder, *Pediatrics, 12*, 1042-1049.
- Taylor, J., & Seltzer, M. (2011). Employment and Post-Secondary Educational Activities for Young Adults with Autism Spectrum Disorders During the Transition to Adulthood. Journal of Autism and Developmental Disorders, 41: 566-574