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Autism Spectrum Disorder

DSM-5 Diagnostic Criteria

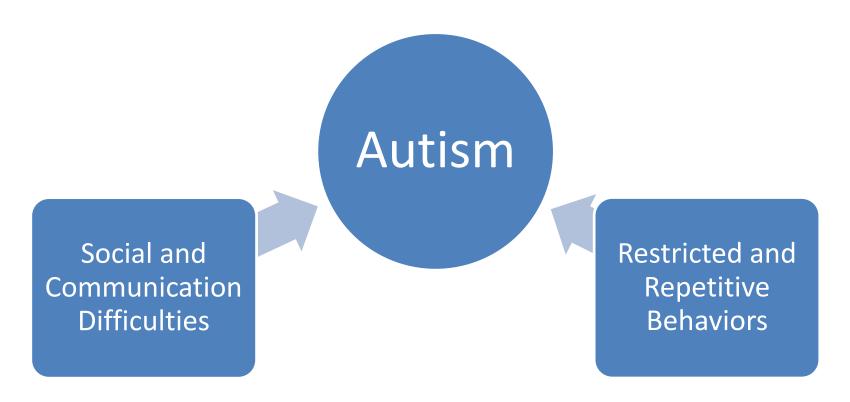
Impairments in social communication and interaction

- Deficits in
 - Social-emotional reciprocity
 - Nonverbal communication
 - Developing, maintaining, and understanding relationships

Restricted, repetitive interests, activities, or patterns

- ➤ At least two of the following:
 - Repetitive motor movements, use of objects, or speech
 - > Inflexibility
 - Restricted and fixated interests
 - Hyper-or hyporeactivity to sensory stimulus

Heterogeneity in Autism Symptoms



- -Between-individual variation in symptom severity
- -Within-individual variation in symptom severity with age

Phenotypic Profiles in Autism

Adaptive behavior

Age at diagnosis

Cognition

Language

Sensory Processing What about Adolescence and Adulthood???









Additional Adolescence and Adulthood Phenotype Characteristics

Self-Support determination Needs

Research Goal

To identify underlying subgroups of adolescents with autism across autism symptom severity, cognition and adaptive behavior, selfdetermination, and supports at home and in the classroom.

Methods









Variable	Assessment	Students	Parents	Teachers
Nonverbal IQ	Leiter-3 BRIEF IQ (Roid, Miller, Pomplun, & Koch, 2013)	X		
Academic Achievement	Woodcock Johnson III Passage Comprehension/ Academic Knowledge (Woodcock, McGrew, & Mather, 2007)	X		
Adaptive Behavior	Vineland-II Teacher Form (Sparrow et al., 2005)			X
Autism symptoms	Social Responsiveness Scale (Constantino & Gruber, 2012)			X
	Social Communication Questionnaire (Constantino, 2002)		X	
Self-Determination	AIR Self-Determination Scale (Wolman et al., 1994)	X	Χ	X
Support	Supports Intensity Scale (Thomson et al., 2004)		X	X

Self-Determination Scale Student and Teacher

Self-Determination

Capacity

Opportunity

Ability

Knowledge

Perception

Home

School



Self-Determination Scale Parent

Self-determination

Ability

Opportunity

Things my Child Does

Home

School



Supports Intensity Scale

Home Living

Community & Neighborhood

School Participation

School Learning

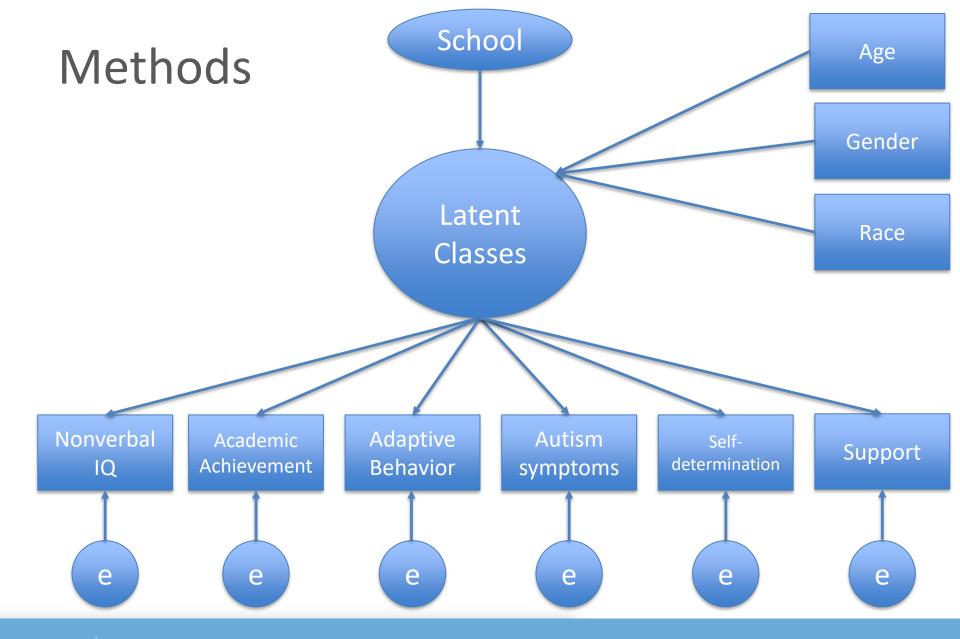
Health and Safety

Social

Advocacy

No extra support needed		Medium support needed		Total support needed
1	2	3	4	5





Results

Model Fit Statistics

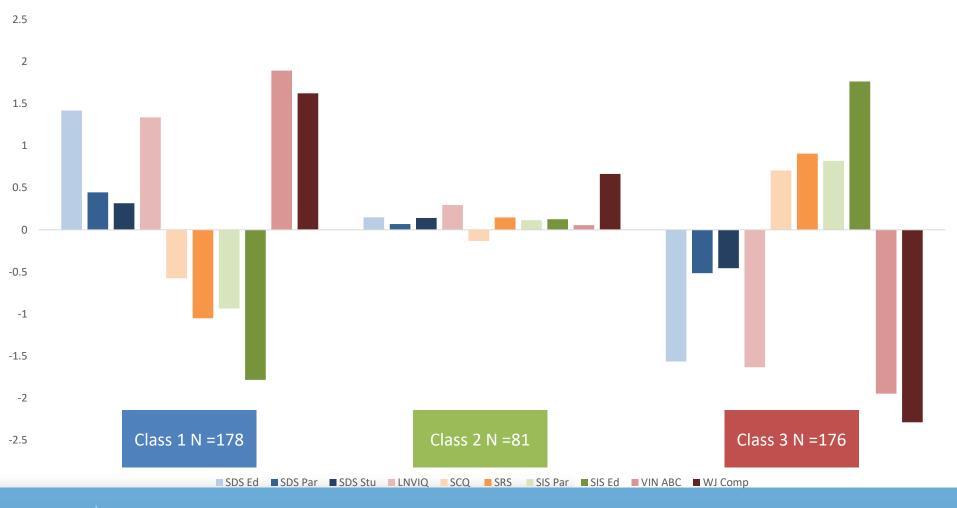
No. of Profiles	AIC	BIC	Entropy	LMR	BLRT
2	20,469.75	20,612.39	.898	1177.75***	1191.59***
3	20,090.31	20,294.08	.867	404.68**	409.44***
4	19,965.98	20,240.87	.840	152.53(ns)	154.32***

^{***}p < .001 **p < .05



Results

Overall Latent Profiles

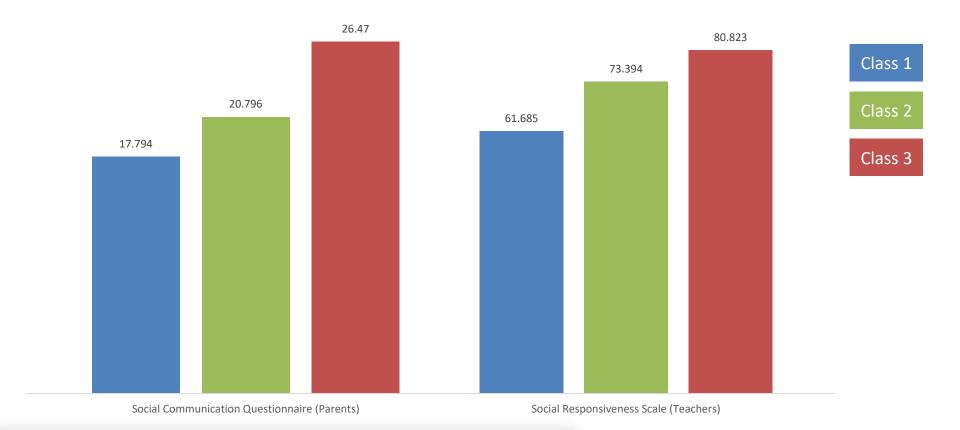




Cognition and Adaptive Behavior

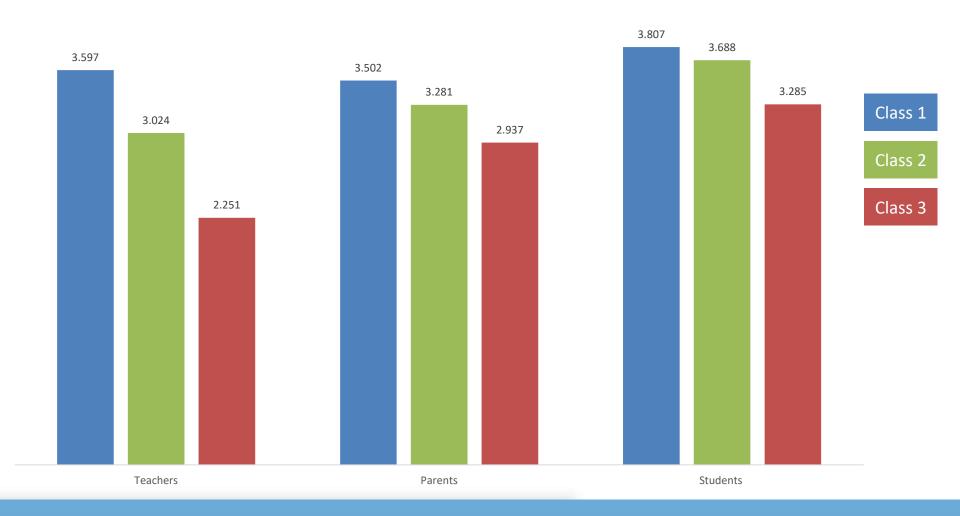


Autism Symptoms

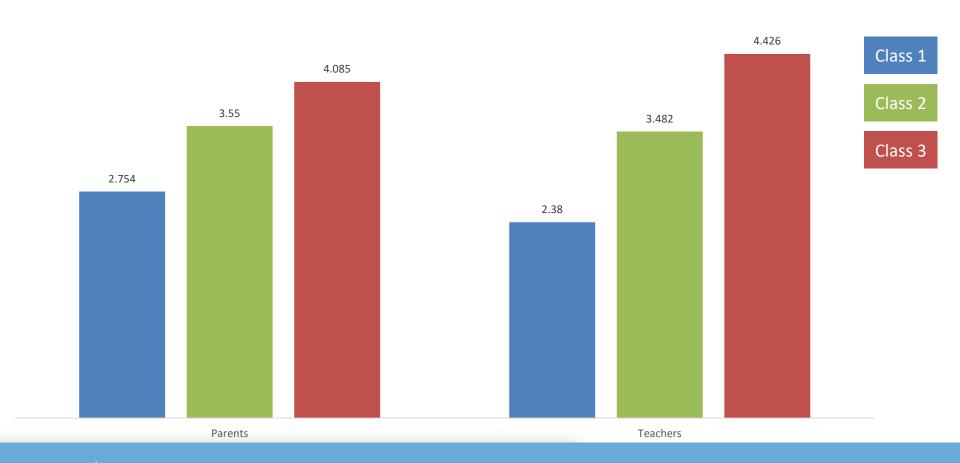




Self-Determination



Family and School Supports





Conclusion



High cognition, adaptive behavior, & selfdetermination

Low autism symptoms and support needs

Class 2

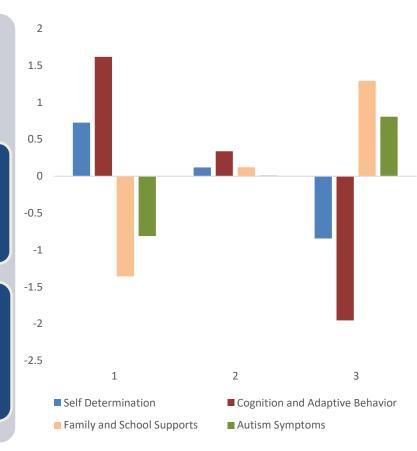
Mid cognition, adaptive behavior, & selfdetermination

Mid autism symptoms and support needs

Class 3

Low cognition, adaptive behavior, & selfdetermination

High autism symptoms and support needs





Discussion

- Heterogeneity present in large sample of diverse adolescents
- Classes may require different targeted interventions to promote skills
- Next Steps: Examining LPA as a moderator of CSESA treatment



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