

Influence of Socioeconomic Factors on Language Skills in Children with and without Autism Spectrum Disorder (ASD). Mattson,G; Santhosh,M; Webb S.J; & the GENDAAR Consortium Department of Child Health Behavior and Development, Seattle Children's Research Institute

Background

- Autism Spectrum Disorder (ASD) is a neurological disorder that causes developmental delays and difficulties in communication.
- Previous research suggests that children with mothers who completed college are more verbal and show stronger communication skills in comparison to children with mothers that have not completed college (Olson et al., 2021). This could potentially be due to an increased awareness of the importance of communicative skills among mothers who have a higher education.
- Our aim is to look at parental education and household structure and their relation to child language skills to investigate the impact of socioeconomic factors (SES) on language development.
- Hypothesis:
 - We hypothesize children with parents of higher education will have stronger language skills than children with parents of lower educational levels.
 - We also expect to see children in multi-member households to have better language outcomes.

Methods

Participants included 275 children, ages 8-17 years with and without ASD from the NIH funded ACE GENDAAR Study. ASD diagnosis was confirmed via standardized assessments such as, ADOS-2 and ADI-R and all participants included had a verbal IQ > 70.

CELF-4

Participants completed the Clinical Evaluation of Language Fundamentals (CELF-4) measure that focused on language skills in areas including formulated sentence (fs) among others.

- Formulated sentences focuses on ability to formulate sentences about visual stimuli using targeted word or phrase.

ACE Demographic Questionnaire

Parents completed the ACE Demographic questionnaire and answered questions about parental education, and household structure among other demographic factors. Parent education was coded as maternal and paternal education and into the following categories:

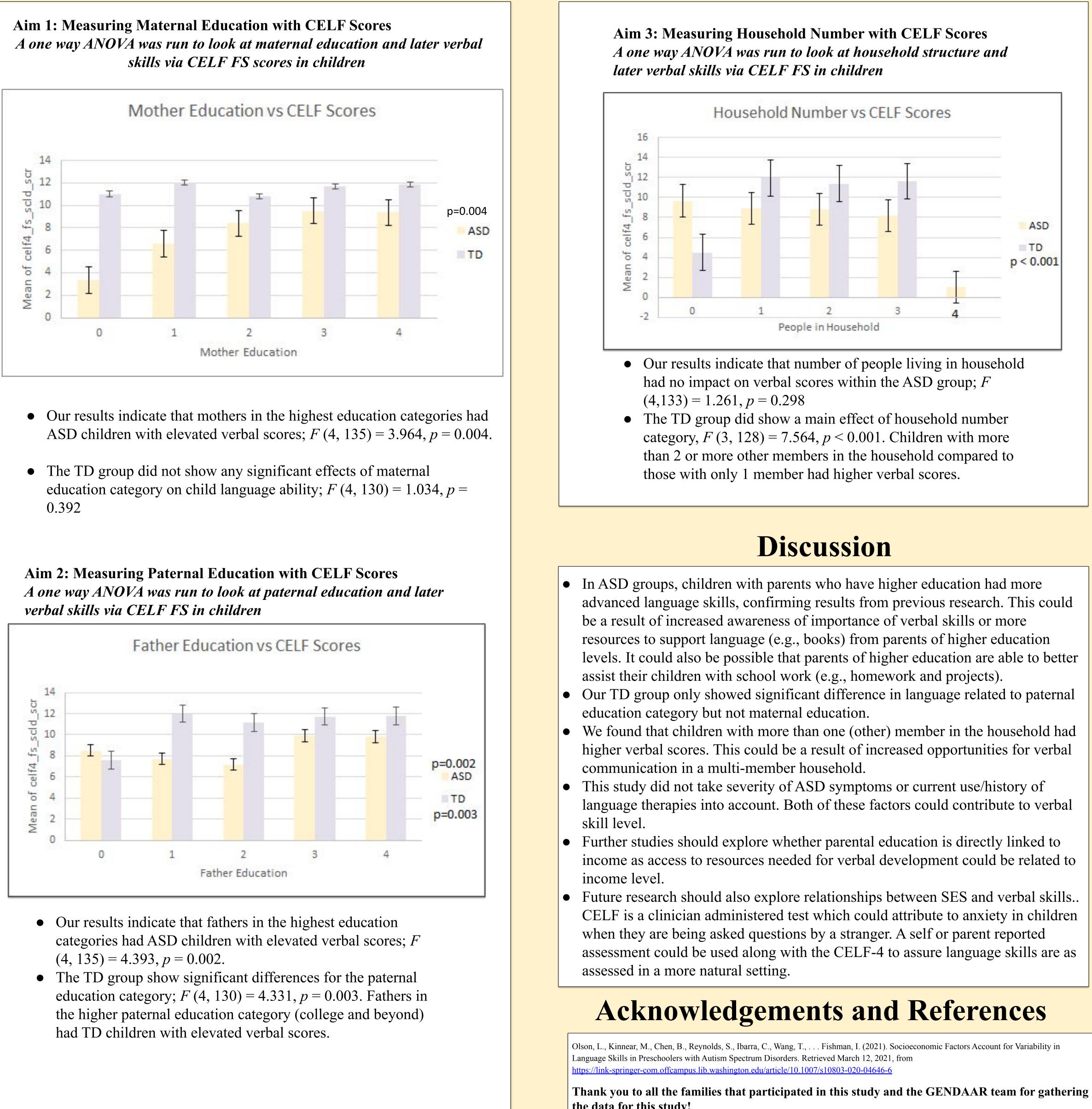
- (0) High school or Less,
- (1) Some college,
- (2) Associates Degree,
- (3) Bachelor's Degree,
- (4) Graduate Degree

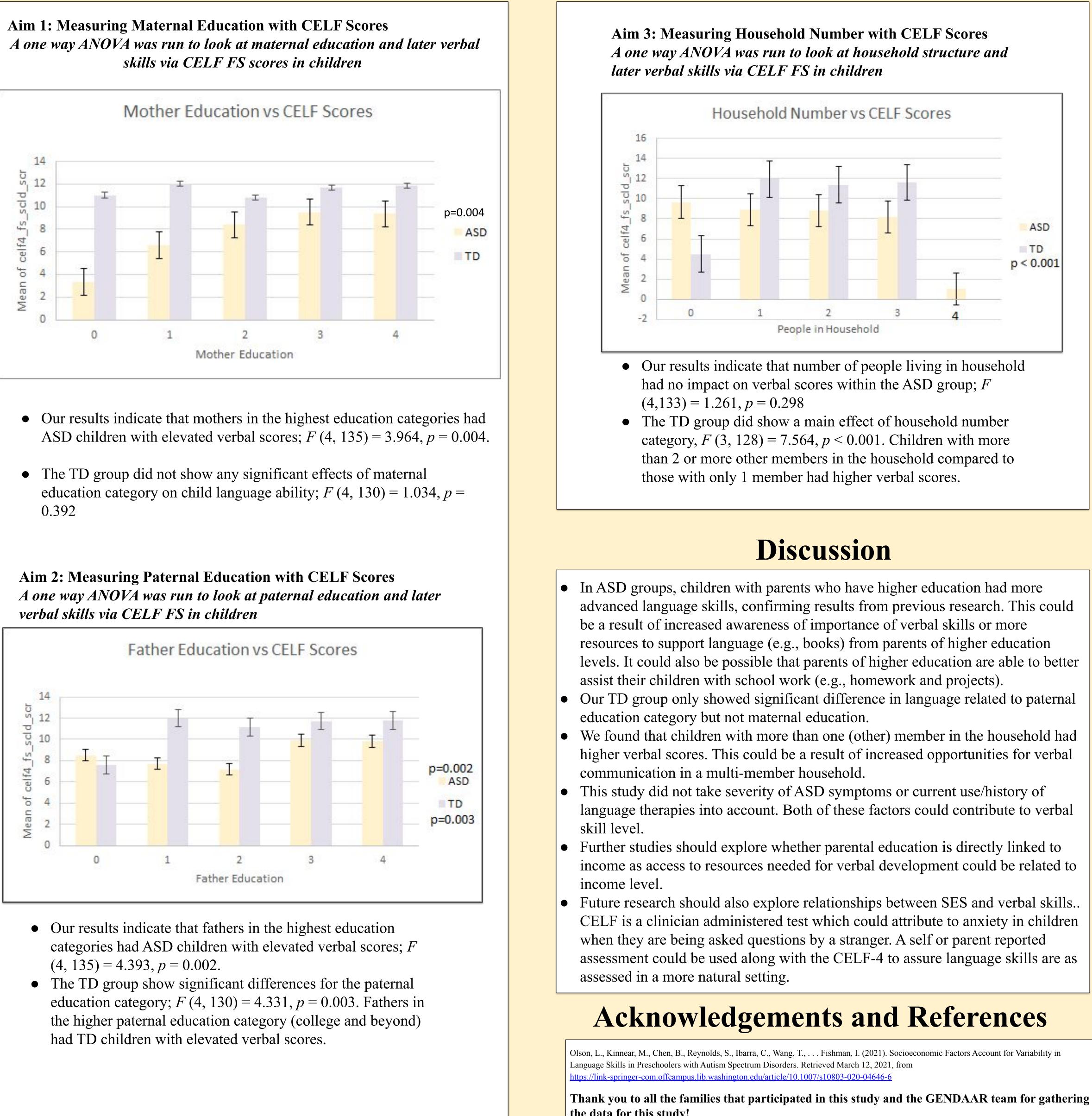
Number in household was categorized as number of individuals other than the youth:

 (0) 1 person, (1) 2-3 people, (2) 4-5 people, (3) 6-7 people, (4) 8-9 people 	Demographics Table: Average CELF scores and age for the sample			
	Cohort	N	Average CELF (fs) Scores	Average Age (months)
	ASD	140	8.82	147.93
			SD: 3.631	SD: 34.124
	TD	135	11.53	156.33
			SD: 2.372	SD: 35.668

Results

skills via CELF FS scores in children







the data for this study!