The Relationship between Socioeconomic Status and Use of Interventions in Families of Children with Autism Spectrum Disorder: Results from the Feasibility and Main Study Phases of ABC-CT Sridhar, A., Faja, S., Kuhn, J., Nelson, C., Webb, S., Bernier, R., Jeste, S., Dawson, G., Sugar, C., Shic, F., Naples, A., Murias, M., Dziura, J.,

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Introduction

- Prior research indicates significantly reduced utilization of autism-related services in families with lower socioeconomic status (SES) (Liptak et al., 2008)
- Higher levels of parental education are associated with use of a greater number of services (Patten et al., 2012)
- Parents with higher SES are more likely to enroll their children with autism spectrum disorder (ASD) in evidence-based practices (EBP) (Irvin et al., 2012)
- This project will investigate the relations between SES and use of interventions from data collected from the ABC-CT project, a multi-site study conducted at five sites across the United States, that aims to measure biomarkers associated with ASD

Objective

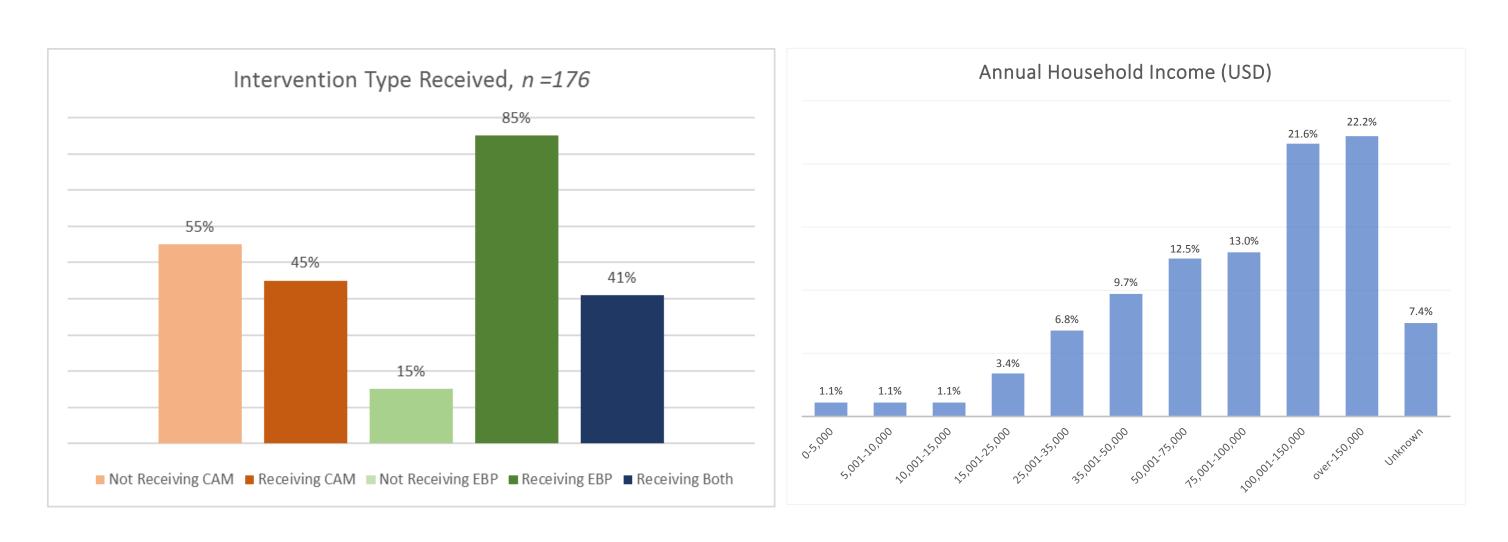
- Examine the relations between SES, total number of hours of services received, total hours of evidence-based practices (EBP) received, and total hours of complementary and alternative medicine (CAM) received
- Explore the relations between SES and types of intervention used by families of children with ASD (EBP or CAM)

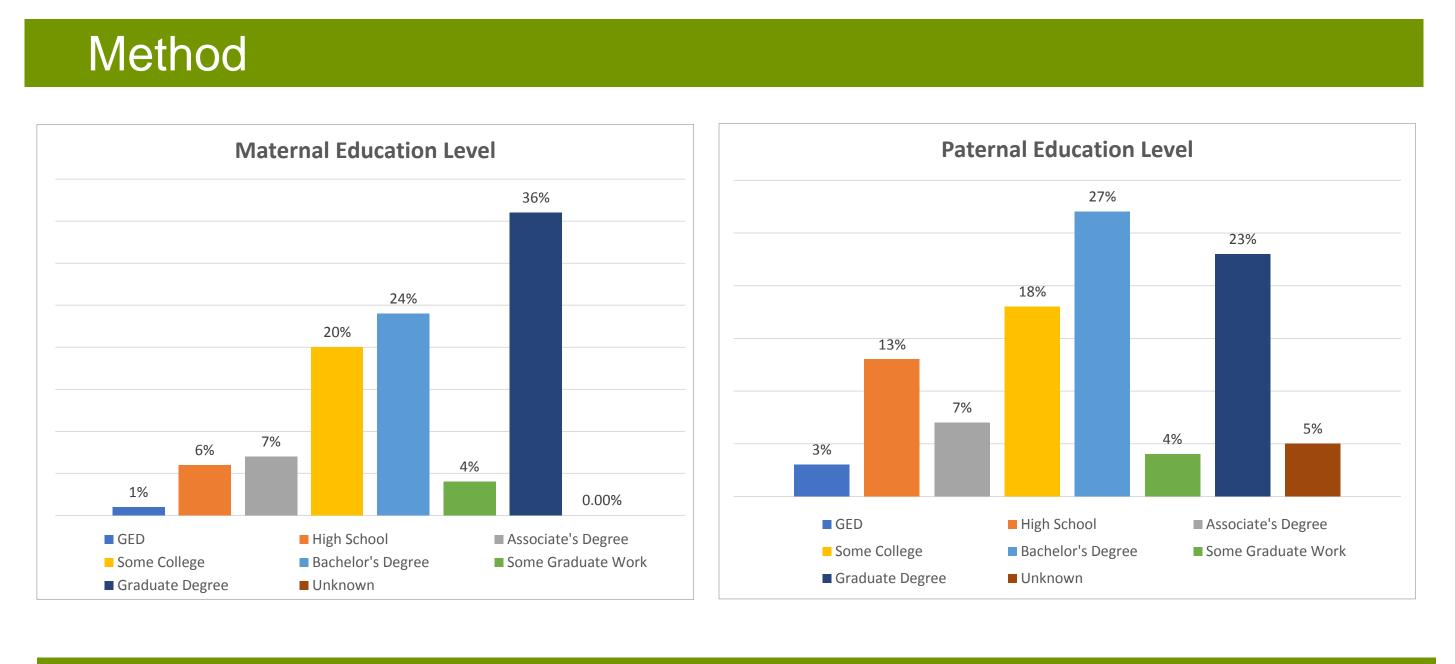
Method

Participants: 176 children (143 males) between 4-11 years old (M= 8 years, 6 months, SD = 1.7. Mean IQ = 95.8, SD = 18.8) participated in the feasibility or main phase of ABC-CT (to date). All participants met criteria for ASD, based on the Autism Diagnostic Observation Scheduled 2 (ADOS-2), Autism Diagnostic Interview-Revised (ADI-R), and Diagnostic and Statistical Manual-5 (DSM-5).

Procedure:

- Socioeconomic variables (i.e. parental education level and annual household income) were collected from a demographics form completed by parents and/or caregivers
- Intervention history was collected via parent-clinician interview or questionnaire format; information regarding types of intervention received (e.g. speech and language therapy, equine therapy) and the total number of hours of intervention received in the previous six weeks was collected
- Services described in the intervention list were categorized as EBP or CAM (Wong et al., 2015, CDC, 2015)

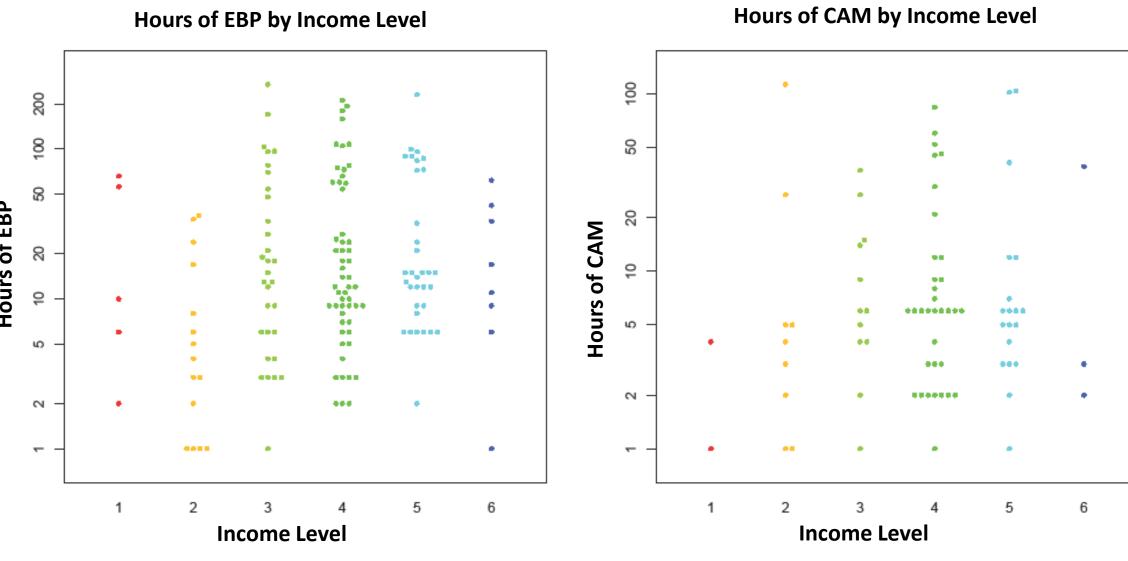




Results

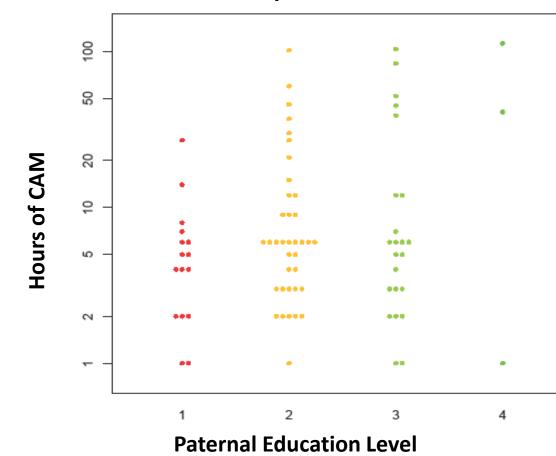
Socioeconomic status related to hours of interventions received

Poisson regressions indicate annual household income is related to hours of EBP received (p = 0.01), and hours of CAM received (p = 0.001)



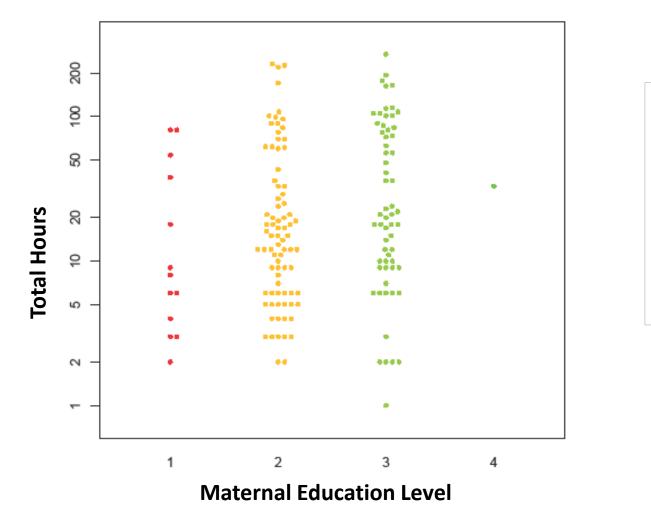
• Paternal education level related to total hours of CAM received (p = 0.04)

Hours of CAM by Paternal Education Level



• Maternal education level was found to be significantly related to total hours of interventions received (p = 0.04)

Total Hours of Intervention by Maternal Education Level



5= Over \$150,000 6= Unknown

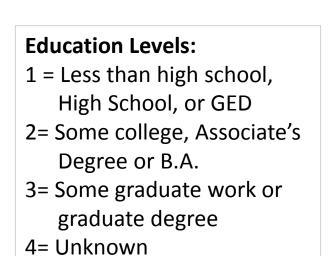
Income Levels:

1 = \$0 - \$15,000

2= \$15,001 - \$35,000

3= \$35,001 - \$75,000

4= \$75,001- \$150,000



Education Levels:

- 1 = Less than high school, High School, or GED
- 2= Some college, Associate's
- Degree or B.A. 3= Some graduate work or
- graduate degree 4= Unknown

Results

Socioeconomic status was not significantly related to the type of intervention received

(EBP or CAM)

Discussion

- and hours of CAM received
- type of intervention received (EBP or CAM)
- received by children with ASD

References

- doi:10.1016/j.rasd.2011.07.018
- doi:10.1097/dbp.0b013e318165c7a0
- doi:10.1177/1088357612468028

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Pearson's Chi-squared indicated parental education level and household income were not related to type of intervention received

These findings demonstrate relations between SES and the total number of hours of interventions received, and hours of EBP received,

However, these results do not indicate relations between SES and

Overall, these findings suggest that SES variables are related to hours of interventions received, but are not related to the type of intervention

 Future studies should further investigate relations between SES and the amount and type of interventions received, in order to develop a better understanding of how parental education level and household income may impact use of autism-related interventions

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