

GO4KIDDS, York University

Background

- Socioeconomic Status (SES) is an important variable in health and psychosocial research
- In general, SES has been shown to be a predictor of premature mortality (Adler et al., 1993) and is related to mental health problems (Dohrenwend et al., 1992)
- Families of children with Developmental Disabilities (DD) report lower SES than families of typically developing children (Emerson, 2003)
- There are a number of ways of operationalizing SES:
 - Traditional Four-Factor Hollingshead scale (Hollingshead, 1975), based on research in 1960's, calculated SES using: Marital Status, Gender, Education, and Occupation
 - Outdated, many current occupations not included
 - The Barratt Simplified Measure of Social Status (Barratt, 2006) based on Hollingshead's scale (1975), uses education and occupation
 - Measure more up-to-date than Hollingshead (1975), but unexamined
- There is little consensus on the best way to measure SES

Purpose and Research Questions

- Examine relationship among 4 measures of SES:
 - 1) The Barratt Simplified Measure of Social Status (Barratt, 2006)
 - 2) Median income of residential area (Statistics Canada, 2006)
 - 3) Highest completed level of education
 - 4) Economic Hardship (Emerson et al., 2008)
- Is the relationship different for Immigrant versus Canadian born families?
- Is the relationship different for people who reside in remote/rural, suburban or urban communities in Canada?

Method

- Great Outcomes for Kids Impacted by Severe Developmental Disabilities (GO4KIDDS) is a Canadian team project exploring the health, well-being, and social inclusion of school aged children with Severe DD and that of their parents.
- Poster uses data from the Extended survey; online survey with measures of behaviour, quality of life, physical health, social participation and demographic information
- Participants**
- N=154
 - age: 3-19 years (M=10.8, SD=3.6), 110 boys (72%), 43 girls (28%)
 - 86 diagnosed with Autism (56%)
- Data from Extended survey used to obtain 4 measures of SES:
 - Barratt Simplified Measure of Social Status Score (Barratt, 2006)
 - Families' postal code for Median Income
 - Highest completed level of education
 - Material Deprivation questions (Emerson, et al., 2008) to obtain Economic Hardship score

Measures

The Barratt Simplified Measure of Social Status (Barratt, 2006)

- Updated measure of SES based on Hollingshead's (1975) research
- Calculates scores based on education and occupation of parents (calculated for one or two parent households)
- Scores range from 8 to 66
- Excellent reliability: 33 cases (21%) chosen at random recoded independently by first author, $r = .93$

Median household income of residential area (Statistics Canada, 2006)

- Uses Forward Sortation Area of postal code (first 3 digits of Canadian postal code)
- Median income for the people residing in a geographic area can be obtained from census data

Highest completed level of education

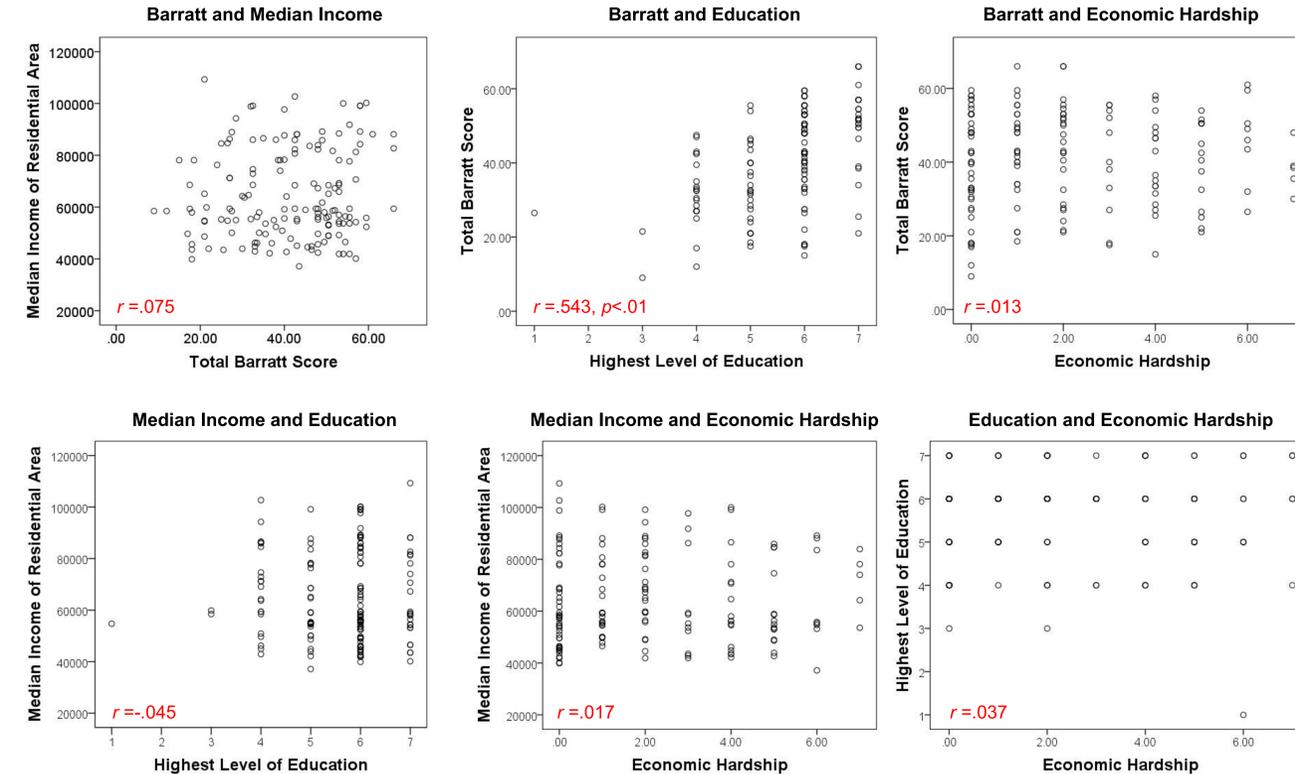
- Categories taken from the Barratt (2006) 1) Less than 7th grade, 2) Junior High/Middle School, 3) Partial High School, 4) High School Graduate, 5) Partial College/University, 6) College/University Graduate, 7) Graduate Degree

Economic Hardship (Emerson, Graham, McCulloch, Blacher, Hatton, & Llewellyn, 2008)

- 7 items about material deprivation
- Asks about going without: fresh fruit or vegetables, holiday away from home once a year (not staying with relatives), hobby or leisure activity, shoes or clothing, small amount of money to spend on yourself, new furniture, car
- Number of items gone without totaled to create Economic Hardship score out of 7 (range 0 to 7)

Results

Spearman Correlations of the 4 measures of SES



Results (cont'd)

Spearman Correlations for Immigrant families

N = 38	Median Income	Barratt Score	Economic Hardship	Education	
Median income					** $p < .01$
Barratt Score	-.171				
Economic Hardship	.082	-.104			
Education	-.110	.736**	-.099		

Spearman Correlations for Canadian born families

N = 116	Median Income	Barratt Score	Economic Hardship	Education	
Median income					** $p < .01$
Barratt Score	.153				
Economic Hardship	.008	.058			
Education	-.008	.477**	.083		

Spearman Correlations for Remote/Rural families

N = 43	Median Income	Barratt Score	Economic Hardship	Education	
Median income					* $p < .05$
Barratt Score	-.201				** $p < .01$
Economic Hardship	-.191	-.041			
Education	-.308*	.422**	-.139		

Spearman Correlations for Suburban families

N = 40	Median Income	Barratt Score	Economic Hardship	Education	
Median income					** $p < .01$
Barratt Score	.006				
Economic Hardship	.285	.009			
Education	-.085	.703**	.153		

Spearman Correlations for Urban families

N = 70	Median Income	Barratt Score	Economic Hardship	Education	
Median income					** $p < .01$
Barratt Score	.168				
Economic Hardship	.055	.060			
Education	-.007	.466**	.115		

Discussion

- 4 measures generally uncorrelated
- Barratt and Education only correlated measures of SES (not independent)
- Relationship between 4 measures of SES not different for Canadian born and Immigrant families
 - Slightly stronger relationship for Immigrant families between Barratt and Education
- Negative correlation between Median Income and Education level for families residing in remote/rural areas of Canada
- Conclusions**
- These 4 indicators of SES seem to be measuring different things
- Unclear which method is most valid
- SES needs to be defined more clearly in order to determine how to measure it

Acknowledgments

The authors would like to acknowledge Azin Taheri for her help in calculating the Barratt scores. We would also like to thank the families who contributed their time by completing the survey. Data for this study were collected as part of the CIHR Team: GO4KIDDS: Great Outcomes for Kids Impacted by Severe Developmental Disabilities, Nominated Principal Investigator: Adrienne Perry, York University. (www.go4kidds.ca)