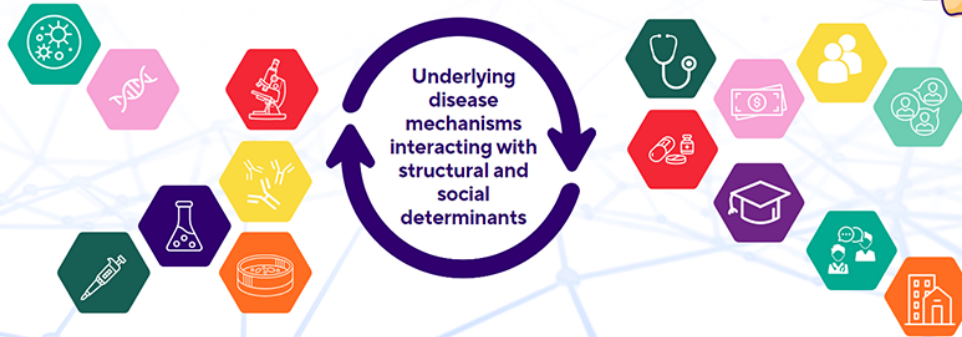




19TH ANNUAL CHILD HEALTH RESEARCH DAYS  
**Outcomes in Child Health**



October 25 + 26, 2023 | RBC Convention Centre, Winnipeg, Manitoba

Abstract Submission Form

## CHRD 2023: Abstract Submission Form

**Submitter Name**

M Florencia Ricci

**Presenter Name**

M Florencia Ricci

**Presenter Status**

Non-Trainee

**Research Category**

Clinical

**Role in the project**

Design  
Perform Experiments  
Analyze Data  
Write Abstract

**Title**

Exploring a possible association between autism spectrum disorder and Immigration at a national level.

**Background**

We recently found an overrepresentation of immigrant families among children  $\leq 6$  years of age diagnosed with autism spectrum disorder (ASD) in Manitoba. We now worked with epidemiologists in the Public Health Agency of Canada to further examine a possible association between ASD and immigration at a national level.

**Objective**

1. To determine the prevalence of ASD by immigration status among children living in Canada in 2019,
2. To compare the prevalence of ASD by immigration status among those with and without a comorbid chronic condition.

**Methods**

We utilized data from the 2019 Canadian Health Survey on Children and Youth, a nationally representative cross-sectional survey of children aged 1 to 17 years living in Canada's 10 provinces and three territories in 2019. Comparisons of ASD prevalence by immigrant status, defined as having at least one parent/guardian born outside of Canada, was further stratified by age, sex, geographic region, and presence of a comorbid chronic condition.

**Results**

Overall prevalence of ASD among children aged 1-17 years did not differ between immigrant and non-

immigrant families (1.88% [95% CI: 1.58, 2.18] vs. 2.05% [1.81, 2.29]). A significantly higher prevalence of ASD was found among 1-4-year-old children of immigrant families, compared to non-immigrant families (1.59% [1.11, 2.06] vs. 0.86% [0.60, 1.12]). When examining those with ASD without a comorbid chronic condition, prevalence of ASD was higher among children of immigrant families, ages 1-4 (1.17% [0.76, 1.58] vs. 0.61% [0.40, 0.83]) and 5-11 years (0.87% [0.58, 1.17] vs. 0.54% [0.37, 0.72]). This age trend was specific to ASD as there was a lower prevalence of other chronic conditions across all ages in children from immigrant families (16.12% [15.26, 16.97] vs. 26.95% [26.12, 27.77]).

### Conclusion

This study identified an increased prevalence of ASD among young children of immigrant families. Given Canada's increasing rates of immigration further studies are needed.

## Authors

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