The authors would like to thank Dr. Lana Popova for reviewing this work.
In Canada specifically, a number of studies have been conducted with children in care, and rates of FASD have been reported at 3% in Ontario, 9% in Alberta, 7% in Quebec (adoptees from Europe), and 6% and 11% in Manitoba. Notably, these numbers are thought to be an underestimate, and the percentage of children in care with suspected FASD is significantly higher.

Researchers estimate the prevalence of FASD among Canadian children in care to be at least 3-11%.

Justice populations. Legal issues are a commonly experienced adverse life outcome for people with FASD, as victims, witnesses, and offenders. Researchers have noted that 60% of adolescents and adults with FASD reported contact with the justice system and 35% reported incarceration for a crime at some point during their lives.

Most FASD prevalence research in justice contexts has been conducted in Canada and the USA, though studies are emerging in other countries, such as Australia, Brazil, and Sweden. Among young offenders, Canadian researchers have estimated that youth with FASD are 19 times more likely to be incarcerated than youth without. In British Columbia (BC), rates of FASD have been reported between 11%-23% in forensic settings. Australian researchers have estimated the rate of FASD among detained youth to be as high as 36%. In the adult offender population, Burd and colleagues surveyed directors of correctional facilities in Canada and the USA in the early 2000s and found that only 0.9% of offenders in Canada, and 1 in over 3 million in the USA, were reported to have a diagnosis on the spectrum. More recently, Canadian researchers noted that 10% of adult inmates in Manitoba and 18% in the Yukon meet the criteria for FASD. The contrast between these results may be due to study methodology, as questionnaires yield low numbers whereas higher rates are derived from active case ascertainment (ACA). This research indicates that FASD is a significant concern in justice settings, warranting practice and policy consideration to address the vulnerability of this group who may experience increased susceptibility to justice involvement and victimization.

The estimated prevalence of FASD in Canadian offenders is 11-23% for youth and 10-18% for adults.

Indigenous communities. One of the common myths about FASD is that it is an “Aboriginal issue.” In fact, there is little high-quality evidence to support this claim, but because of mixed research findings, it is difficult to derive clear conclusions.

In a recently conducted meta-analysis of FASD prevalence studies in Canada and the USA, researchers revealed that only three studies exist in Canada, which are outdated and have numerous acknowledged methodological limitations. Based on these studies, a pooled FASD prevalence was estimated to be higher in Canadian Indigenous compared to non-Indigenous populations, but the authors noted that existing data are not applicable for decision-making purposes, and rigorous ACA studies are urgently needed. Another review was conducted in 2013, and researchers reported that there is high variability among studies, and rates of FASD are not substantially different between Indigenous and non-Indigenous populations in Canada, USA, or Australia. There is limited Canadian evidence on the rates of FASD in Indigenous groups, and results range widely and depend on the population: 0.7% of young children living off-reserve in Western provinces, 3.3% of children in the Yukon and northwestern BC, 5-10% of children from a Manitoba First Nations community, 19% of children from an isolated BC First Nations community, and 27% of young offenders in a BC.

Importantly, the continued surveillance, stigmatization, and stereotyping of Indigenous populations may contribute to the misbelief that FASD is over-represented in these communities, and pursuing this dialogue without sound research evidence could further perpetuate the marginalization experienced by Indigenous children, women, families, and communities.
Due to limited and mixed research findings, there is not enough evidence to conclusively say that FASD is over-represented in Indigenous populations.

**New Canadians.** With almost a quarter (22%) of the Canadian population comprising landed immigrants or permanent residents, it is important to consider the attitudes, beliefs, and behaviours related to PAE and FASD among this unique group. Although very little research exists on FASD prevalence among new Canadians specifically, some work has been done to explore drinking patterns among immigrant women. In one of the few Canadian studies, women who immigrated were less likely than native-born women to consume alcohol prenatally; however, 6% of immigrant women still reported drinking during pregnancy. Contrarily, some researchers in the USA have reported that foreign-born women were at a similar risk of consuming alcohol during pregnancy compared to native-born women. Researchers have also reported that immigrant women tend to adopt poorer health habits, including increased drinking during pregnancy, after moving to their new country.

Because the literature in this area is scarce, researchers conducting future FASD prevalence studies should consider the question of new Canadians to ensure that this significant portion of the population is best understood and supported. Additional research is also needed to understand whether or how SDH and FASD risk factors experienced in this group may differ from native-born Canadian women and may change with the process of acculturation.

**Recommendations:**

1. Routine screening protocols should be designed for use in child welfare and justice settings in order to quickly identify individuals in need of assessment and FASD-informed support.
2. Comprehensive training on FASD awareness, recognition, and intervention, including strengths-based approaches should be provided for service providers who work with individuals known to be at a heightened risk for FASD in order to foster the best possible outcomes.
3. Continued research that is culturally sensitive as well as gender- and trauma-informed is needed to better understand the risk factors for PAE and FASD among people of various backgrounds.
4. Although we know that FASD prevention is important for all women of childbearing age, special attention should be paid to ensuring that higher risk and marginalized populations are well-supported to have healthy pregnancies. As well, interventions should strive to improve SDH and risk factors underlying prenatal alcohol consumption for all women.

**Conclusions:**

The sole cause of FASD is alcohol exposure during pregnancy; thus FASD can affect individuals of all ages, genders, and cultural and socioeconomic backgrounds. However, because of a complex combination of personal and environmental factors, some populations may be at a higher risk for FASD. There is sufficient evidence to conclude that individuals in the child welfare and correctional systems experience disproportionately high rates of FASD. Although accurate prevalence rates in these groups have yet to be determined, researchers estimate ranges of 3-11% among Canadian children in care, and 10-23% among Canadian offenders. It is commonly believed that Indigenous communities also experience higher rates of FASD, but because the evidence in this area is conflicted, it is not possible to support this claim. The literature on FASD prevalence is relatively young, and researchers face methodological challenges and varied results. Therefore, rigorous studies are needed to better understand who is at risk for FASD and where specialized resources should be targeted.
References: