

Fetal alcohol spectrum disorder prevalence is very high in susceptible groups worldwide

April 30 2019

A major new review of the world literature has found that Fetal Alcohol Spectrum Disorder (FASD) is 10 to 40 times higher in certain susceptible groups than the general population. These groups include children in care, people in correctional services or special education services, Aboriginal populations, and people using specialized clinical services.

FASD is a serious, lifelong, disabling condition that affects individuals from all racial, ethnic and socioeconomic backgrounds. It is caused by alcohol consumed during pregnancy. Alcohol is a toxic substance that can readily cross the placenta, resulting in permanent damage to the brain and other organs of the developing embryo and fetus. An estimated one in every 13 infants prenatally exposed to any level or type of alcohol will develop FASD; about 630,000 infants are born with FASD in the world each year.

This study used data from 69 studies representing 17 countries across North and South America, Europe, Asia, and Australasia. The studies included five sub-populations: children in care, people in correctional services, Aboriginal populations, people in special education services, and people using specialized clinical services (genetic clinics and clinics for [developmental disabilities](#) or [psychiatric care](#)).

The estimated prevalence of FASD in these groups ranged from 10 to 40 times higher than the 7.7 per 1,000 global FASD prevalence in the [general population](#). For example, FASD prevalence among children in

care was 32 times higher in the United States and 40 times higher in Chile; prevalence among adults in the Canadian correctional system was 19 times higher; and prevalence among special education populations in Chile was over 10 times higher.

Lead author Dr. Svetlana Popova says, "Public policy and clinical care for people with FASD needs to recognise the severity of the problem globally. Routine screening protocols should be established to identify people with FASD in child welfare, special education, justice system and other settings to provide appropriate support and early interventions. Service staff should be trained in FASD awareness, identification, and interventions to provide better care. Women should completely abstain from any type of alcohol during their entire pregnancy and while trying to get pregnant."

This review was restricted by the limited number of studies, some of which were dated and had methodological weaknesses. Countries need to conduct rigorous epidemiological studies to understand the size and severity of this serious but preventable alcohol-related neurodevelopmental disorder.

More information: Svetlana Popova et al, Prevalence of Fetal Alcohol Spectrum Disorder among Special Sub-populations: A Systematic Review and Meta-analysis, *Addiction* (2019). [DOI: 10.1111/add.14598](https://doi.org/10.1111/add.14598)

Provided by Society for the Study of Addiction

Citation: Fetal alcohol spectrum disorder prevalence is very high in susceptible groups worldwide (2019, April 30) retrieved 8 May 2024 from <https://medicalxpress.com/news/2019-04-fetal-alcohol-spectrum-disorder-prevalence.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.