— VIRTUAL SYMPOSIUM —

Opportunities to Support Children and Families with Prenatal Substance Exposure: From Policy to Practice

May 17th, 2022



Presented by:

POLICY BENCH

Fraser Mustard Institute for Human Development

With Speakers From:



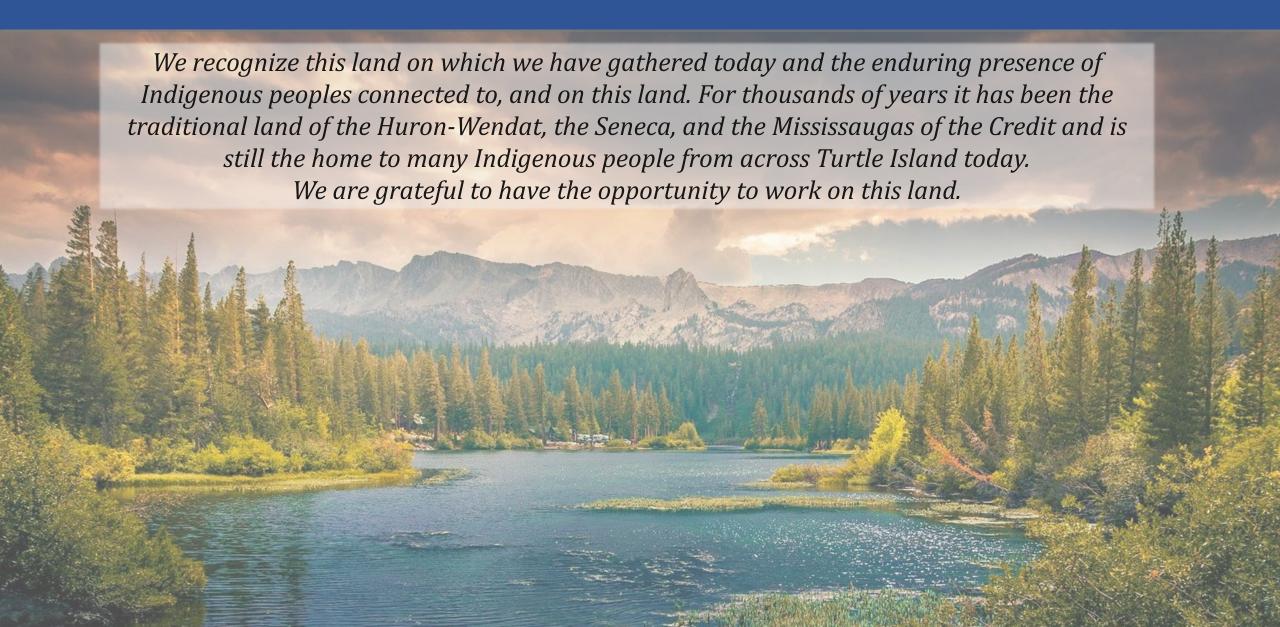








Acknowledgements



The Fraser Mustard Institute for Human Development Policy Bench

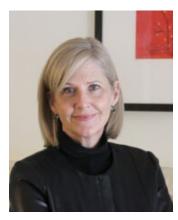
- The <u>Policy Bench</u> is an initiative of the Fraser Mustard Institute for Human Development (FMIHD). Dr. J.
 Fraser Mustard (1927-2011) galvanized the international community with his belief that interventions in the early years of life offer unparalleled potential for improved quality of life.
- The FMIHD honours Dr. Mustard's legacy through key initiatives such as the Policy Bench that support the University of Toronto academic community by providing transdisciplinary opportunities for collaboration and knowledge mobilization in the area of human development.
- The Policy Bench brings together leaders at the University of Toronto and SickKids with transdisciplinary expertise from an array of academic disciplines—ranging from health, psychology, education, economics and medical sciences—to support optimal human development and health equity across the life course, from the early years into adulthood. This involves the synthesis, creation and dissemination of knowledge designed to assist decision makers, practitioners and relevant stakeholders in making evidence based policy decisions that improve outcomes for children and youth.

The Fraser Mustard Institute for Human Development Policy Bench

Policy Bench Co-Directors

Dr. Barbara Fallon

Associate Vice-President, Research; Professor, Faculty of Social Work, University of Toronto



Dr. Ashley Vandermorris

Staff Physician, Division of Adolescent Medicine, The Hospital for Sick Children;

Assistant Professor, Department of Paediatrics, University of Toronto



Advisory Committee

- Dr. Catherine S. Birken
- Dr. Eyal Cohen
- Dr. Avram Denburg
- Dr. Astrid Guttmann
- Dr. Jennifer Jenkins
- Dr. Joel Levine
- Dr. Steven P. Miller
- Dr. Faye Mishna
- Dr. Marla B. Sokolowski
- Dr. Suzanne Stewart
- Dr. Charmaine Williams

Opportunities to Support Children and Families with Prenatal Substance Exposure: *From Policy to Practice*



Overview:

- This symposium brings together experts from the domains of maternal and child health, medicine, and social sciences to offer different perspectives on the issue of substance use during and post-pregnancy as well as implications for research, policy, and practice
- Panelists will present the latest evidence on the impacts of prenatal substance exposure as well as findings from clinical and community-based programs that provide support to families with substance use problems in Canada

Panelists



Dr. Laura Best

Post-Doctoral Fellow,
Centre for Addiction and
Mental Health and University
of Toronto



PhD Candidate, Dalla Lana School of Public Health, University of Toronto; Child Health Evaluative Sciences, The Hospital for Sick Children



Obstetrician Gynaecologist and Medical Lead, Maternity Care & Perinatal Service, Thunder Bay Regional Health Sciences Centre



Dr. Mary Motz
Clinical Psychologist and
Research and Evaluation Lead,
Mothercraft's Breaking the
Cycle program

Questions: Please use the Q&A box to submit questions anytime!

The Use of Cannabis during Pregnancy

A Policy Brief from the Fraser Mustard Institute for Human Development

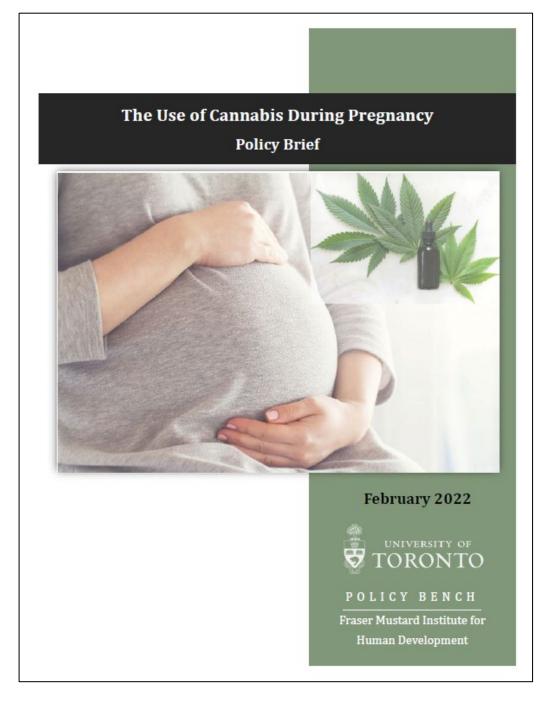


Post-doctoral Fellow

University of Toronto Factor-Inwentash Faculty of Social Work

Centre for Addiction & Mental Health



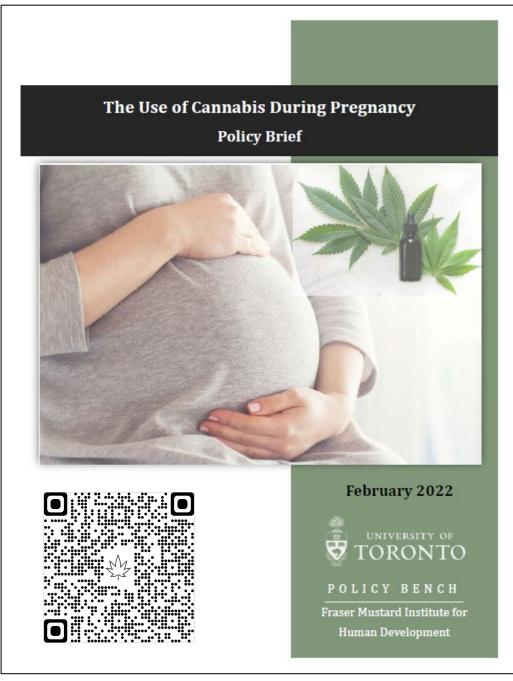


Purpose:

- to review the existing literature on the safety of cannabis use or exposure during pregnancy
- discuss implications for policy & practice

Methods:

 Literature review up to December 2021



pment evelo Human for Institute Mustard er Fras

Policy Bench Co-Leads:

Barbara Fallon, Ph.D. Steven P. Miller, M.D. Professor Head of Neurology Factor-Inwentash Faculty of Social Work Division of Neurology University of Toronto The Hospital for Sick Children

Policy Bench Advisory Committee:

Catherine Birken, M.D. Joel Levine, Ph.D. Staff Pediatrician Professor Pediatric Medicine The Hospital for Sick Children University of Toronto

Eyal Cohen, M.D. Faye Mishna, Ph.D. Staff Physician Professor

Pediatric Medicine Factor-Inwentash Faculty of The Hospital for Sick Children

Avram Denburg, M.D.

Staff Oncologist and Clinical Scientist

The Hospital for Sick Children

Astrid Guttmann, M.D. Staff Pediatrician

Pediatric Medicine

The Hospital for Sick Children

Jennifer Jenkins, Ph.D

Professor

Department of Applied Psychology and

Human Development University of Toronto Department of Biology

Social Work

University of Toronto

Marla Sokolowski, Ph.D.

Professor

Department of Cell and Systems

Biology

University of Toronto

Suzanne Stewart, Ph.D.

Professor

Ontario Institute for Studies in

Education

University of Toronto

Principal Researchers:

Marina Sistovaris, Ph.D. Research Associate

Factor-Inwentash Faculty of Social Work Factor-Inwentash Faculty of

University of Toronto

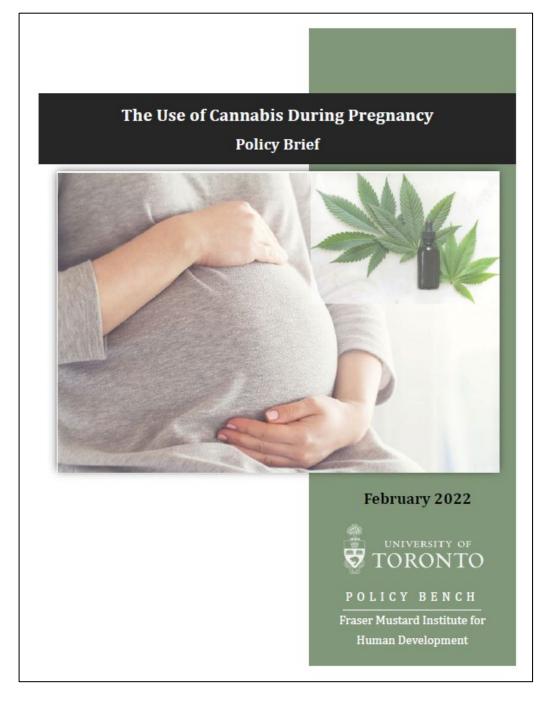
Genevieve Sansone, Ph.D. Research Associate

Social Work

University of Toronto

Suggested Citation: Sistovaris, M., Sansone, G., Vandermorris, A., Miller, S.P., Fallon, B., Best, L., Wong, S., Swardh, K. (2022). The Use of Cannabis During Pregnancy: Policy Brief. Toronto, Ontario: Policy Bench, Fraser Mustard Institute of Human Development, University of Toronto.

Images: Free for commercial use with no attribution required.



1. Cannabis Overview

2. Cannabis Use in Canada

3. Cannabis Use During Pregnancy

4. Implications







Cannabis: products derived from the cannabis sativa plant

△⁹-Tetrahydrocannabinol (THC)

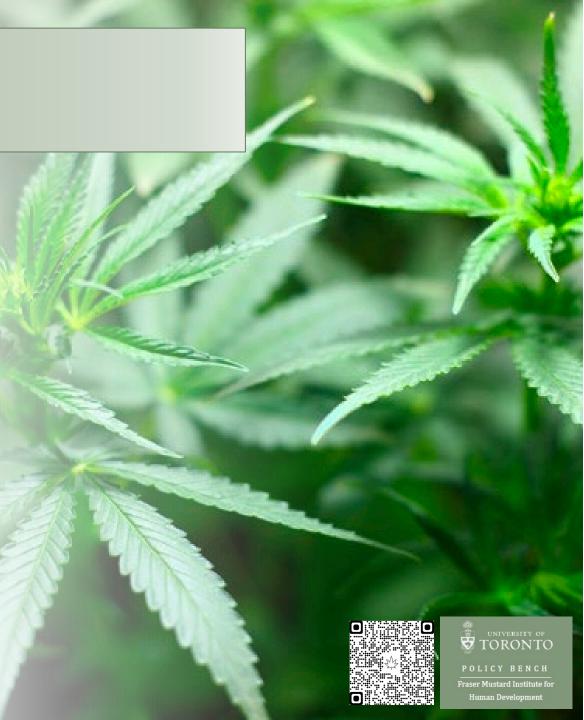
psychoactive, intoxicating, "high" effects



Understanding Cannabis

Cannabis: products derived from the cannabis sativa plant

- △⁹-Tetrahydrocannabinol (THC)
 - psychoactive, intoxicating, "high" effects
 - acts on the endocannabinoid system: neurotransmitter system in the body and brain involved in regulating many processes
 - (stress, pain, appetite, motivation, sleep etc.)



Understanding Cannabis

Cannabis: products derived from the cannabis sativa plant

△⁹-Tetrahydrocannabinol (THC)

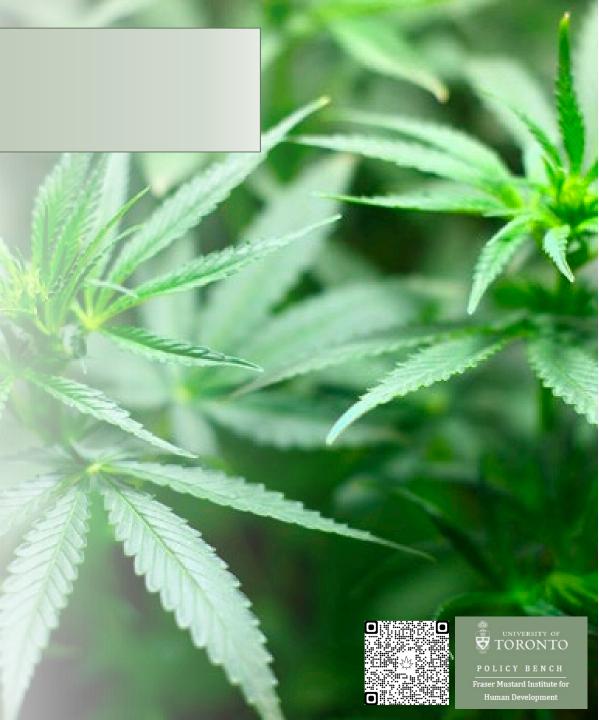
- Cannabidiol (CBD)
 - no intoxicating effects
 - thought to also act on the endocannabinoid system, mechanism not well understood



Understanding Cannabis

Cannabis: products derived from the cannabis sativa plant

- △9-Tetrahydrocannabinol (THC)
- Cannabidiol (CBD)
- Terpenes
 - >100 identified, contribute to scent and flavour, other effects unknown



Cannabis Consumption

- multiple forms of cannabis with varying potency of THC/proportions of THC/CBD
- route of administration, THC potency (e.g., 30%) and individual biological factors will impact the effects

Inhalation



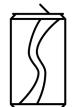
Smoking

E.g., joint, pipe

Vaporizing

Ingestion





Edibles

E.g., baked goods, candies

Liquids

E.g., tea, soda

Topical



Creams

Oils





Effects of Cannabis

Acute:

- Altered mood
 - (e.g., euphoria, relaxation, anxiety, paranoia)
- Impaired cognition and altered perception
 - (e.g., confusion, impaired memory, heightened senses)
- Physiological effects
 - (e.g., cardiovascular, motor response, pain relief)

Chronic:

Inter/intra-individual variability:

- Age, sex, weight
- Endocannabinoid system variability
- Frequency of use
- Route of admin
- Quantity & potency
- Mental health hx
- Environment





Effects of Cannabis

Acute:

- Altered mood
 - (e.g., euphoria, relaxation, anxiety, paranoia)
- Impaired cognition and altered perception
 - (e.g., confusion, impaired memory, heightened senses)
- Physiological effects
 - (e.g., cardiovascular, motor response, pain relief)

Chronic:

- 9% of users will develop **Cannabis Use Disorder**:
 - continued use of cannabis despite negative consequences on social, psychological or physical functioning
- Risk of mental health effects (e.g., psychosis, anxiety)

Inter/intra-individual variability:

- Age, sex, weight
- Endocannabinoid system variability
- Frequency of use
- Route of admin
- Quantity & potency
- Mental health hx
- Environment





Cannabis Legalization in Canada

2001

Legalization of Medical Cannabis

- Requires MD authorization
- Commonly prescribed for pain management, PTSD, anxiety etc.





Cannabis Legalization in Canada

2001



Legalization of Medical Cannabis

- Requires MD authorization
- Commonly prescribed for pain management, PTSD, anxiety etc.

Oct 2018

The Cannabis Act

- Legalization of cannabis production, sales and possession for recreational use
- Provincial jurisdiction re implementation





Cannabis Legalization in Canada

2001



Oct 2018



Oct 2019

Legalization of Medical Cannabis

- Requires MD authorization
- Commonly prescribed for pain management, PTSD, anxiety etc.

The Cannabis Act

- Legalization of cannabis production, sales and possession for recreational use
- Provincial jurisdiction re implementation

Edible/Topical Cannabis

 Legalization of production and distribution of edible, extract and topical forms of cannabis for recreational use

2023: planned review of the Cannabis Act by Gov't of Canada





Cannabis Use in Canada

Table 4: Historical Incidence of Cannabis Consumption in Canada, 2009-2019

Year	Percentage (%)
2009¹	10.6 ⁵
2010¹	10.7 ⁵
2011 ¹	9.1 ⁵
2012¹	10.2^{5}
2013 ²	10.6 ⁵
2014 ²	no data available
2015 ²	12.3 ⁵
2016 ²	no data available
2017 ²	14.84
2018 ³	14.96
2019 ³	16.87
20203	20.08

Notes: Due to methodological differences between CADMUS, CTADS and Statistics Canada in the collection and reporting of statistics, data should be interpreted with caution.



- General upward trend in self-reported pastyear cannabis use since 2009
 - Twice the amount of estimated new users in 2019 compared to 2018
- Daily to near-daily cannabis use seems to be stable (~6%) in 2018 and 2019
- Consistent data on Cannabis Use Disorder prevalence in Canada is lacking





¹Health Canada, CADUMS (2012).

²Health Canada, CTADS (2013, 2015, 2017).

³Statistics Canada, National Cannabis Survey (2019).

⁴Based on population estimate.

⁵Based on sample size.

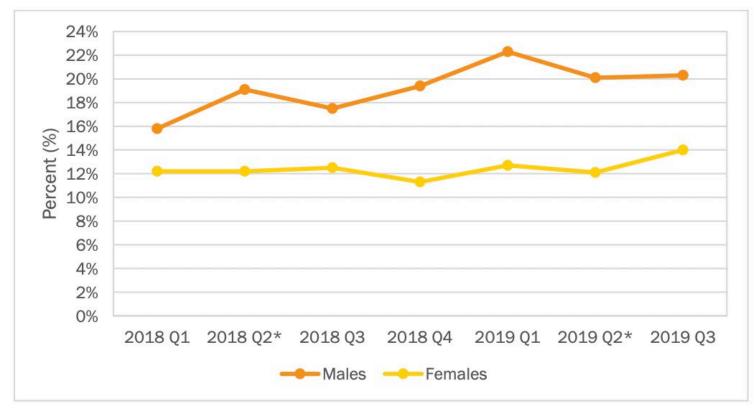
⁶Based on first three quarters of 2018 (before legislation).

⁷ First, second, third, and fourth quarters of 2019 combined.

⁸ Based on the fourth quarter of 2020 (collected Nov-Dec)

Cannabis Use in Canada

Figure 4. Prevalence of self-reported past-quarter cannabis use among Canadians by sex (2018-2019)



^{*} Data for these quarters includes provinces and territories, all remaining quarters are provincial data only. **Source:** NCS 2018 04; 2019 01; 2019 02; 2019 03^{21,22,23,24}

- Historically, cannabis use is higher in males
- This gap is closing, especially among adolescents and young adults
- In Spring 2020:
 - 21% of males
 - 18% of females





Source: Canadian Centre for Substance Abuse (CCSA, 2020)

Lower Risk Use Guidelines

Table 9: Lower-Risk Cannabis Use Guidelines and Associated Evidence Grades

Recommendation	Level of Evidence
Abstain from cannabis use if possible (general precautionary principle)	N/A
If you use cannabis, start later in life (particularly avoid use prior to age 16 years)	Substantial
Choose lower-strength products, such as those with a lower THC content or a higher ratio of CBD to THC	Substantial
Do not use synthetic cannabis products	Limited
Avoid smoking cannabis (choose other modes of use such as vaping or edibles)	Substantial





Lower Risk Use Guidelines

Table 9: Lower-Risk Cannabis Use Guidelines and Associated Evidence Grades

Recommendation	Level of Evidence		
Avoid deep inhalation when smoking cannabis	Limited		
Try to limit your use as much as possible (avoid daily/near-daily use)	Substantial		
Don't drive or operate machinery after using cannabis	Substantial		
Avoid cannabis use if you are <u>pregnant</u> or have a personal predisposition toward or first-degree family history of psychosis or substance use disorders	Substantial		
Avoid combining the risky behaviors listed above	Limited		
Source: Goodman et al. (2020); Fischer et al. (2017)			





Table 7: Cannabis Use During Pregnancy, Ontario, Canada, 2012-2017

Year	All Singleton Live Births and Still Births		Cannabis Use During Pregnancy	
	Sample Size	Percent (%)	Sample Size	Percent (%)
All Women	732,818	100	10,731	100
2012-2013	122,519	16.7	1,527	1.24
2013-2014	125,890	17.2	1,604	1.27
2014-2015	127,355	17.4	1,790	1.41
2015-2016	127,268	17.4	1,892	1.49
2016-2017	129,929	17.7	2,175	1.67
2017	99,857	13.6	1,743	1.75

Source: Corsi, D. J., Hsu, H., Weiss, D., Fell, D.B. and Walker, M. (2019). "Trends and Correlates of Cannabis Use in Pregnancy: A Population-Based Study in Ontario, Canada from 2012 to 2017," *Canadian Journal of Public Health*, 110: 79.









- Survey of self-report cannabis use (n = 7000) women who gave birth Jan June 2018 (Grywacheski et al., 2020)
 - 3.1% used cannabis during pregnancy
 - 2.6% while breastfeeding





- Survey of self-report cannabis use (n = 7000) women who gave birth Jan June 2018 (Grywacheski et al., 2020)
 - 3.1% used cannabis during pregnancy
 - 2.6% while breastfeeding
- Canadian Cannabis Use Survey: women who gave birth in the last 5 years
 - <4% report using cannabis during pregnancy 2018-2020
 - 4-6% reported using cannabis while breastfeeding 2018-2020





- Survey of self-report cannabis use (n = 7000) women who gave birth Jan June 2018 (Grywacheski et al., 2020)
 - 3.1% used cannabis during pregnancy
 - 2.6% while breastfeeding
- Canadian Cannabis Use Survey: women who gave birth in the last 5 years
 - <4% report using cannabis during pregnancy 2018-2020
 - 4-6% reported using cannabis while breastfeeding 2018-2020
- Anonymous survey administered to patients from prenatal clinics in Hamilton, ON (n = 478)
 May-October 2019 (Kaarid et al., 2021)
 - 11% had consumed cannabis during pregnancy
 - 4% continuing to consume cannabis during pregnancy
 - 5% planning to use cannabis while breastfeeding





Effects of Prenatal Cannabis Exposure: A brief overview

"The science is incomplete, but the public health message is clear: [t]o have the healthiest baby possible, avoid using [cannabis], alcohol, and tobacco during your pregnancy"

- Dr. Therese M. Grant, Director Fetal Alcohol and Drug Unit, University of Washington





Effects of Prenatal Cannabis Exposure: A brief overview

Fetus



- Endocannabinoid system develops at 5 weeks
- THC can cross placenta rapidly, may ↑ vascular resistance, ↓ O₂
- † risk of cesarean section

New-born



- ↑ risk of low birth-weight & neonatal O₂ supplementation at birth
- THC metabolites detectable in breastmilk
- Potential effects reported by studies remain unclear:
 - · admission to neonatal intensive care
 - later childhood outcomes including social or cognitive impacts





Effects of Prenatal Cannabis Exposure: A brief overview

Mom



- Limiting cannabis use by 15 weeks may reduce risk of negative outcomes
- No association with maternal outcomes (e.g., gestational diabetes or pre-eclampsia)
- Cannabis use disorder:
 - ↑ risk of low birth weight, preterm birth & death within one year
 - No association with maternal outcomes or mortality







- Younger
- Poorer mental health: anxiety, depression, self-harm
- More likely to be unmarried or with a partner who uses cannabis



- Urban centres
- Lower socioeconomic status
- Less formal education





Patterns & Reasons for Cannabis Use



- Growing perceptions that cannabis is safe to use in general & during pregnancy
 - Beliefs it is a natural product with no addictive potential
 - Lack of consult from healthcare professionals interpreted as lack of concern for use = safe



- Therapeutic in nature:
 - Nausea & morning sickness***
 - Pain
 - Mood & anxiety symptoms
 - Substitution for other medications

Risk-benefit?

More research is needed





Limitations of Existing Research

1. Lack of sex- and gender-focused research on health effects of cannabis

2. Methodological limitations:

- Correlational or cross-sectional
- Retrospective, self-report measures
- Limited information on frequency, time of exposure, pattern of cannabis use including route of administration or potency

3. Influence of confounding variables unknown

• E.g., socioeconomic variables, polysubstance abuse, other mental or physical health concerns





Policy Implications

Cannabis Distributors





- Retail stores & pharmacists increasingly first point of contact for Q's
- Be well-educated
- Lack of training may result in personal opinions being shared as recommendations

Healthcare Professionals





- Talk about cannabis with everyone to prevent assumptions of safety
- Non-judgemental, unbiased
- Provide alternative symptom management options

Policymakers





- Continue prioritizing collection, monitoring & sharing of evidence
- Provide necessary resources for knowledge-sharing





Summary

- Canadians are using cannabis during pregnancy despite public health guidelines to abstain
- Overall perception that it is safe to use reinforced by lack of communication from their healthcare professionals
- Research suggests an association with low birth weight, other potential effects require more research
- More rigorous research studies are needed focusing on:
 - Sex- and gender-specific effects
 - Socioeconomic status, polysubstance use and other relevant variables
 - Longitudinal collection of more comprehensive data on cannabis exposure
- Stakeholders each have an important role to play in facilitating evidence-based use of cannabis by Canadians

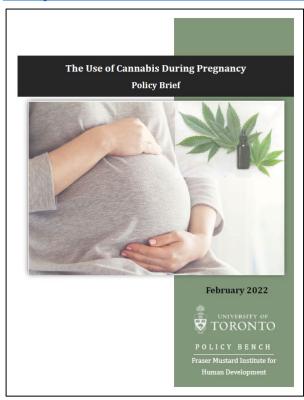




Thank you for your attention!

To learn more:

https://socialwork.utoronto.ca/projects/





er

en

Policy Bench Co-Leads:

Barbara Fallon, Ph.D. Professor Factor-Inwentash Faculty of Social Work University of Toronto

Steven P. Miller, M.D. Head of Neurology Division of Neurology The Hospital for Sick Children

Policy Bench Advisory Committee:

Catherine Birken, M.D. Staff Pediatrician Pediatric Medicine

The Hospital for Sick Children

Eval Cohen, M.D. Staff Physician Pediatric Medicine

The Hospital for Sick Children

Avram Denburg, M.D.

Staff Oncologist and Clinical Scientist The Hospital for Sick Children

Astrid Guttmann, M.D. Staff Pediatrician Pediatric Medicine

The Hospital for Sick Children

Jennifer Jenkins, Ph.D

Professor

Department of Applied Psychology and

Human Development University of Toronto Ioel Levine, Ph.D.

Professor

Department of Biology University of Toronto

Faye Mishna, Ph.D.

Professor

Factor-Inwentash Faculty of

Social Work

University of Toronto

Marla Sokolowski, Ph.D.

Professor

Department of Cell and Systems

University of Toronto

Suzanne Stewart, Ph.D.

Professor

Ontario Institute for Studies in

Education

University of Toronto

Principal Researchers:

Marina Sistovaris, Ph.D. Research Associate

Factor-Inwentash Faculty of Social Work Factor-Inwentash Faculty of

University of Toronto

Genevieve Sansone, Ph.D. Research Associate

Social Work

University of Toronto

Suggested Citation: Sistovaris, M., Sansone, G., Vandermorris, A., Miller, S.P., Fallon, B., Best, L., Wong, S., Swardh, K. (2022). The Use of Cannabis During Pregnancy: Policy Brief. Toronto, Ontario: Policy Bench, Fraser Mustard Institute of Human Development, University of Toronto.

Images: Free for commercial use with no attribution required.

PRENATAL OPIOID USE IN ONTARIO

Leveraging Population-Based Administrative Data to Understand the Health of Pregnant People and Children



Andi Camden, MPH
Fraser Mustard Institute for Human Development Policy Bench
– Virtual Symposium
May 17, 2022

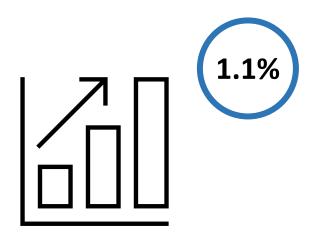




LEARNING GOALS:

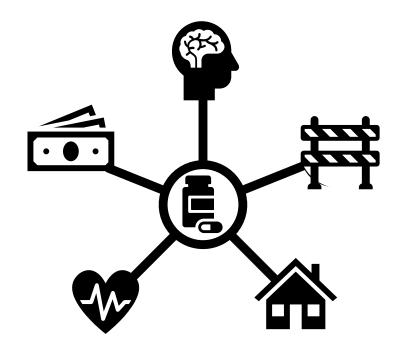
describe the **epidemiology** of prenatal opioid use and **associated health and healthcare outcomes** among pregnant people and children in Ontario

BACKGROUND



Rates of opioid use in pregnancy increased **16-fold** from 2002 to 2014 in Ontario

CONTEXTUAL FACTORS







ADVERSE HEALTH OUTCOMES



PREGNANT PEOPLE

Communicable disease
Overdose
Mortality



INFANTS

NAS
Preterm birth
Low birth weight
Mortality



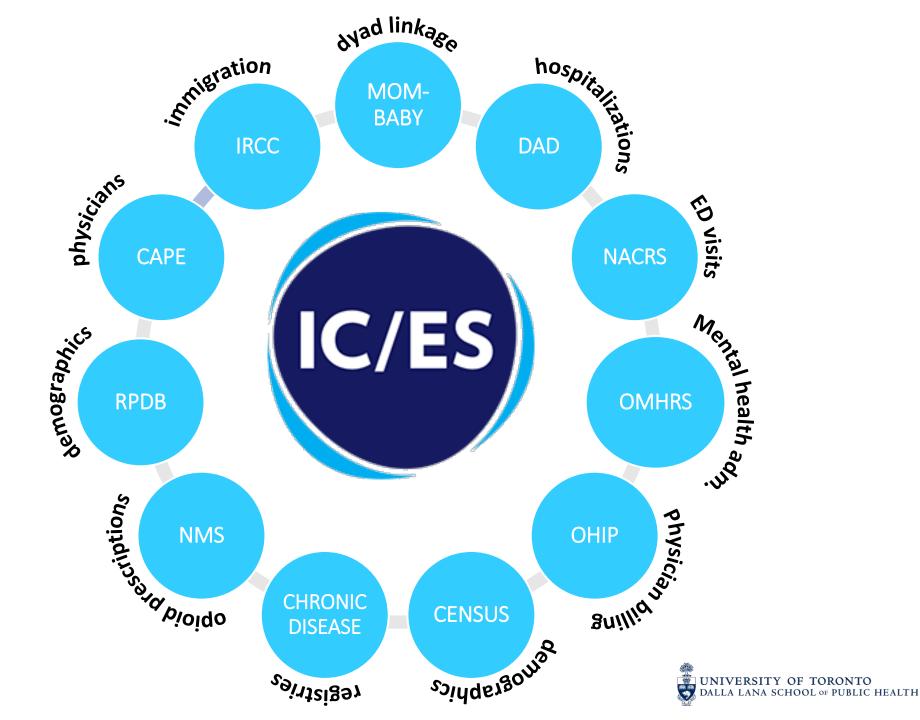
CHILDREN

Neurodevelopment
Visual
Healthcare utilization
Routine care









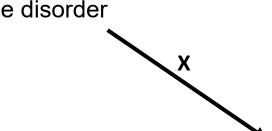


PRENATAL OPIOID EXPOSURE



PRESCRIPTION OPIOIDS

Pain management Medication for opioid use disorder



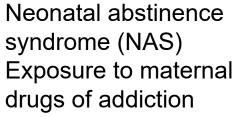


OPIOID-RELATED HOSPITAL RECORDS

Opioid use disorder Toxicity Adverse events



NEWBORN HOSPITAL RECORDS

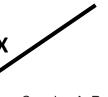






OUTPATIENT VISITS

Opioid maintenance therapy



Camden A, Ray JG, To T, Gomes T, Bai L, Guttmann A. *Pediatrics*. 2021 Jan 1;147(1).



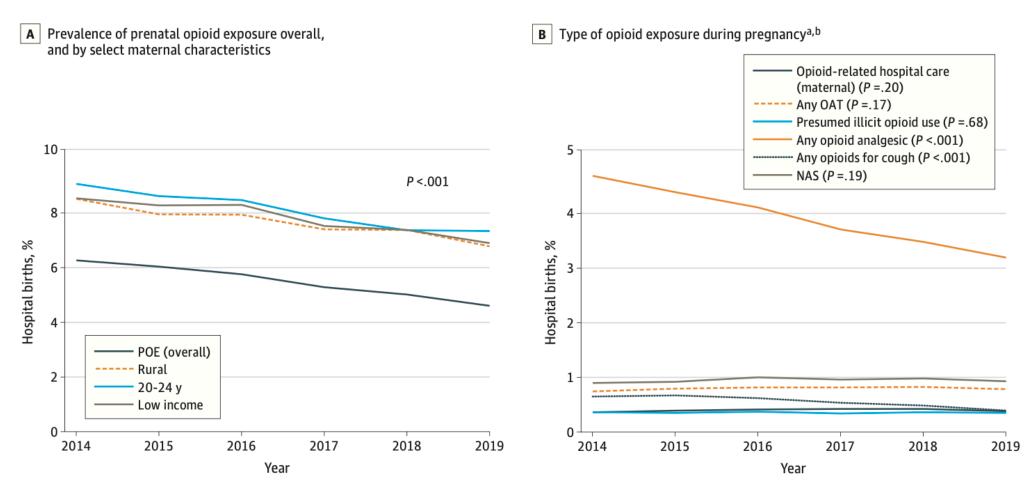
(e.g., heroin, fentanyl)





PREVALENCE OF POE

Figure. Temporal Trends in Prenatal Opioid Exposure (POE) Among All Hospital Births in Ontario, Canada, 2014-2019



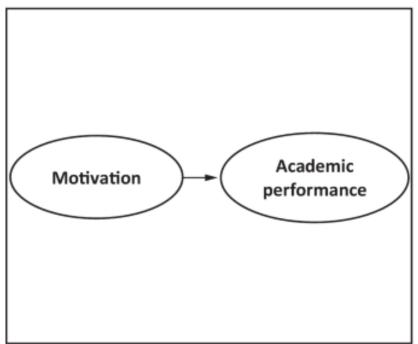


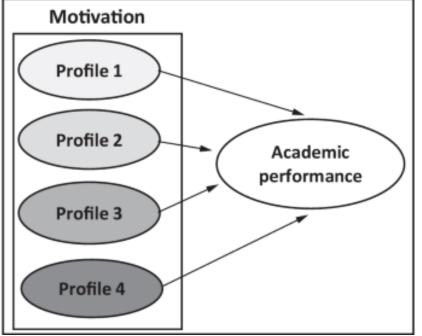


VARIABLE- VS. PERSON-CENTRED APPROACHES

Variable-centred analysis

Person-centred analysis

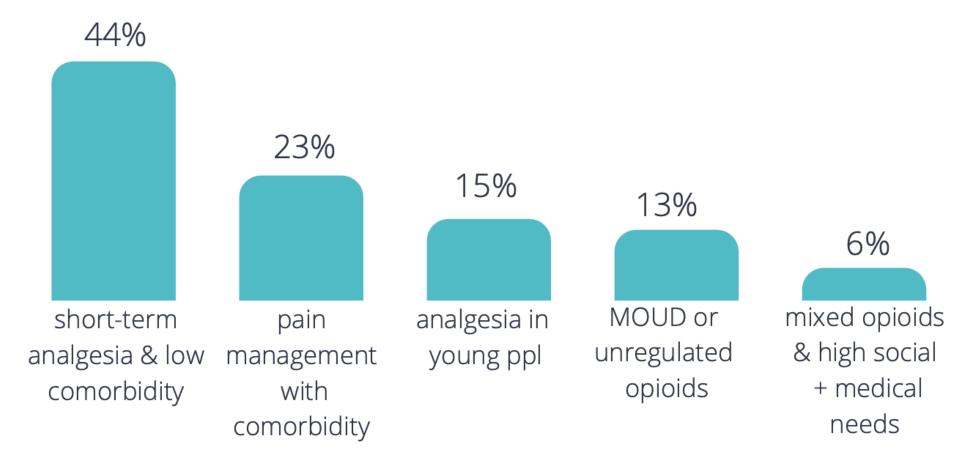








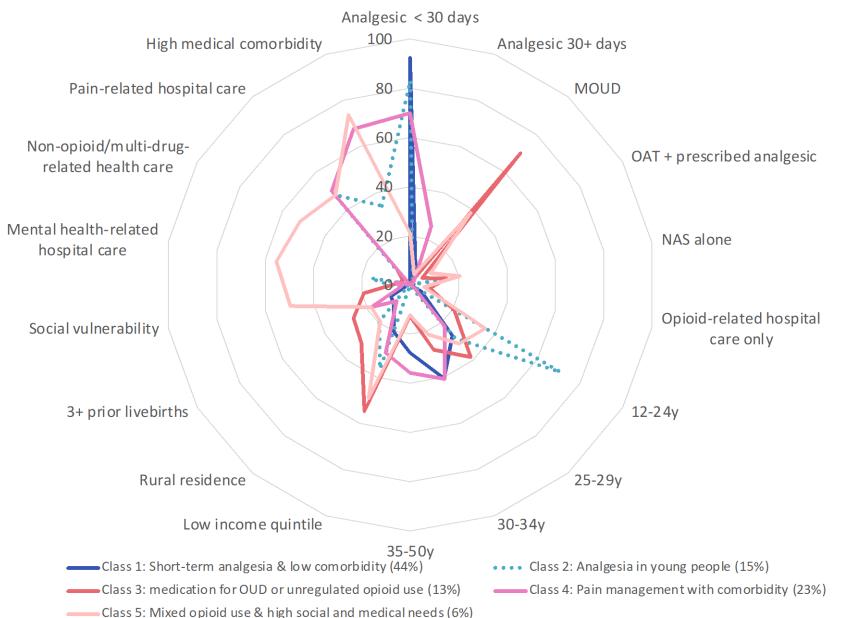
IDENTIFICATION OF 5 GROUPS







IDENTIFICATION OF 5 GROUPS



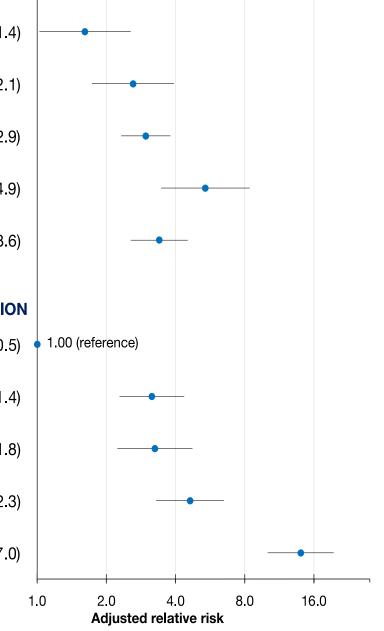


OUTCOME ANALYSIS

WITH OUTCOME/ # AT RISK (%) TYPE OF PRENATAL OPIOID EXPOSURE Opioid analgesic <30 days: 187/20474 (0.9) 1.00 (reference) Opioid analgesic 30-89 days: 20/1434 (1.4) Opioid analgesic 90+ days : 26/1236 (2.1) MOUD: 101/3426 (2.9) MOUD + analgesic: 22/447 (4.9) Unregulated opioid use: 71/1966 (3.6) **5-CLASS LCA SOLUTION** Short-term analgesia & low comorbidity: 61/12827 (0.5) Pain management with comorbidity: 94/6640 (1.4) Analgesia in young people: 76/4299 (1.8) MOUD or unregulated opioid use: 85/3630 (2.3)

Risk of drug overdose or death up to 365 days after the index birth hospitalization

Mixed opioid use + high needs: 111/1587 (7.0)





DEVELOPMENTAL HEALTH

ICES REPORT

Growing evidence of developmental impairments among children with POE/NAS

Reviewing the Evidence on Prenatal Opioid Exposure to Inform Child Development Policy and Practice

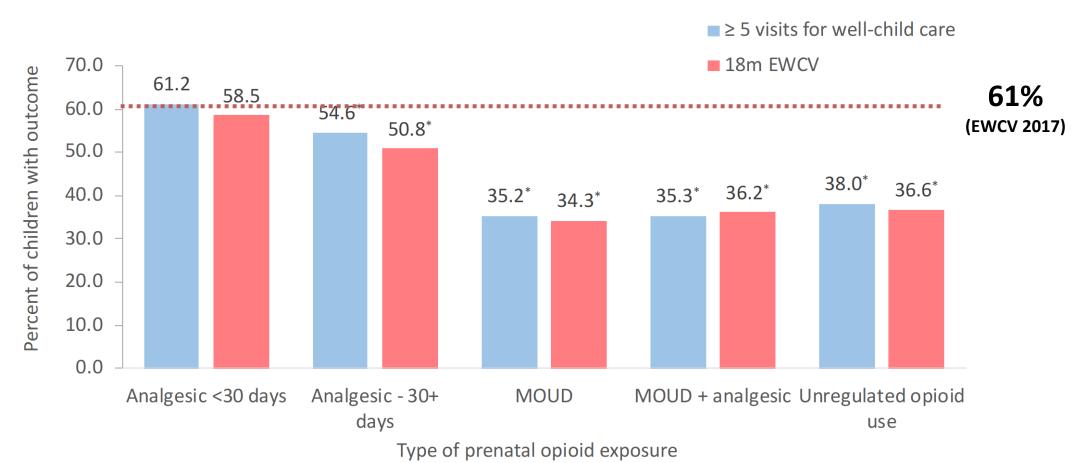
Andi Camden, Madeleine Harris, Sophia den Otter-Moore, Douglas M. Campbell and Astrid Guttmann





WELL-CHILD CARE

Percent of children with 5+ physician visits for well-child care by 2 years of age and developmental screening at the 18-month enhanced well-child visit by type of POE





UNIVERSITY OF TORONTO
DALLA LANA SCHOOL OF PUBLIC HEALTH

OUTCOME ANALYSIS

TYPE OF PRENATAL OPIOID EXPOSURE

Opioid analgesic <30 days: 9308/15920 (58.5)

Opioid analgesic 30+ days: 1121/2208 (50.8)

MOUD: 870/2539 (34.3)

MOUD + analgesic: 121/334 (36.2)

Unregulated opioid use: 467/1275 (36.6)

Association of latent groupings with developmental screening at 18 months among children with POE

5-CLASS LCA SOLUTION

Short-term analgesia with low comorbidity: 5769/9449 (61.1)

Pain management with comorbidity: 2796/5097 (54.9)

Analgesia in young people: 1628/3147 (51.7)

MOUD or unregulated opioid use: 678/2075 (32.7)

Mixed opioid use + social & medical needs: 345/848 (40.7)



1.00 (reference)

1.00 (reference)

KEY TAKEAWAYS

1

1 in 20 births in Ontario have POE

Importance of multiple linked administrative databases to improve identification of POE and POE + NAS 2

Heterogeneous population with varying needs

LCA can provide a deep understanding of distinct subgroups in a population and identify different subgroups vs. traditional approaches 3

Important disparities in wellchild care

Highlight the need for strategies to strengthen access to primary care and CPG for children with POE





ACKNOWLEDGEMENTS

PhD Supervisors & Committee Members



MSc





Teresa To, PhD

Joel G. Ray, MD, MSc

Tara Gomes, PhD

Funding support









This study was supported by ICES, which is funded by an annual grant from the Ontario Ministry of Health (MOH). Parts of this material are based on data and information compiled and provided by: MOH, Canadian Institute for Health Information, IMS Brogan Inc and Immigration, Refugees and Citizenship Canada. The analyses, conclusions, opinions and statements expressed herein are solely those of the authors and do not reflect those of the funding or data sources; no endorsement is intended or should be inferred.



THANK YOU!

andi.camden@mail.utoronto.ca





Opportunities to Support Children and Families with Prenatal Substance Exposure: From Policy to Practice

Naana Jumah

17 May 2022





Disclosures

Relationships with commercial interests:

- Grants/Research Support: PSI Foundation, CIHR, NOAMA
- Speakers Bureau/Honoraria: PSI Foundation

Potential for conflict(s) of interest:

• N/A



Practice Profile





Who do we care for?





Legacy of Colonization



Ottawa to pay for travel companion for Indigenous women giving birth away from reserve

Health Minister calls old policy of having woman travel alone 'extremely unhelpful'

The Canadian Press Posted: Apr 09, 2017 4:14 PM ET Last Updated: Apr 09, 2017 4:14 PM ET



Health Minister Jane Philpott says she heard a 'cry loud and clear' from Indigenous health experts who were urging the federal government to allow pregnant First Nations women to leave home with an escort. (Fred Chartrand/Canadian Press)



ADVERTISEMENT



Politics

Subscribe and get the latest news and analysis from the CBC Politics team delivered to your inbox weekday afternoons.



Sask. Indigenous women file lawsuit claiming coerced sterilization

Women who were sterilized after giving birth each seek \$7M in damages

By Alex Soloducha, CBC News Posted: Oct 10, 2017 8:21 PM CT | Last Updated: Oct 10, 2017 8:57 PM CT



The two woman who have filed the lawsuit were both surgically sterilized after giving birth at the Royal University Hospital in Saskatoon. (Trevor Bothorel/CBC)





http://www.cbc.ca/news/canada/saskatchewan/sask-indigenous-women-file-lawsuit-claiming-coerced-sterilization-1.4348848



Still no way to tell how many Indigenous women and girls go missing in Canada each year

StatsCan and some major police forces do not track missing Indigenous women



Margo McDiarmid · CBC News · Posted: Dec 20, 2017 5:00 AM ET | Last Updated: December 21, 2017





Indigenous child welfare rates creating 'humanitarian crisis' in Canada, says federal minister

Provincial governments open to meeting with Ottawa on Indigenous child welfare

By Jorge Barrera, CBC News Posted: Nov 02, 2017 8:27 PM ET | Last Updated: Nov 02, 2017 8:46 PM ET



Feds call emergency meeting with provinces on Indigenous child welfare 5:58

Stay Connected with CBC Indigenous









ADVERTISEMENT

Latest Indigenous Headlines



- Federal grant delays cause hardships and closures, Indigenous groups say November 10, 4:53 PM ET
- How to become an Indigenous healer for \$1,111
 November 10, 8:00 AM ET
- Indigenous demonstration forces closure of the Pinery November 10, 1:17 PM ET
- 'Right thing to do': Passamaguoddy granted special



Cases



Case 1

- 27 yo G3P2 Indigenous woman, history of IVDU
- Moved to town to go into treatment
- Stable on Methadone for a year with full carries
- Couch surfing since moving to town



Case 1 - continued

- First two children in customary care with an Aunt on home reserve a fly-in community
- Has housing in her community and would like to return to be closer to her other two children and family support
- Methadone is not available in her community, only Suboxone



Case 1 - Conclusion

- She worries that Suboxone won't work for her
- She worries about relapse and how she'll cope with little support in town and no stable housing for her and baby



Case 2

- 34 yo reported to police for being unresponsive on the street
- Brought to Emerg by ambulance
- Admitted with a serious skin infection and concern for an infection in her heart valves



Case 2 - continued

- Actively using methamphetamines and "other stuff"
- Known to trade sex for drugs and money
- Known to have Hepatitis C
- Kicked out of shelters and transitional housing for "bad behaviour"



Case 2 - Conclusion

- Found to be 26 weeks pregnant on ultrasound
- Found to be HIV positive on admission



Case 3

- 38 yo works in financial services at large bank
- Post-partum depression after last birth 5 years ago
- Found community of support with other new moms at "Babes and Brews" events which she attended weekly during maternity leave



Case 3 - continued

- Embraces mommy wine culture with her friends
- Started going to after work drinks a few nights a week whenever childcare available
- Now drinking up to a bottle of wine per night to get that same buzzy feeling even when at home



Case 3 - Conclusion

- Presents for the first prenatal visit at 20 weeks
- The maternity care provider glosses over the section on the perinatal record about substance use because that's obviously not an issue for this couple but wonders why they presented so late for care



Are they going to take my baby away from me?



That depends on ...



Miigwetch Thank you Merci





Breaking the Cycle: Community-Based Early Intervention Services for Infants and Young Children Exposed to Substances

Mary Motz, PhD. C.Psych. Mothercraft/Breaking the Cycle





Breaking the Cycle

- An early intervention program that promotes the wellness and mental health
 of infants and young children who are at-risk for poor outcomes due to
 maternal substance use and co-occurring factors.
- Infant/early childhood mental health is the developing capacity of the child from birth through the early years to:
 - Experience, regulate, and express emotions;
 - Form close and secure interpersonal relationships; and
 - Explore the environment and learn





BTC Families

Pregnant People/ Mothers

- □ Who are pregnant and/ or parenting children 0-6 years;
- □ Who are experiencing problems of substance use and recovery;
- Who desire support around their substance use/recovery and parenting

Infants/Young Children

- Who have been exposed to alcohol and/or other substances during the prenatal period; and/or
- Who have been exposed to parental alcohol/ substance use in postnatal period













Mothercraft

Hospital for Sick Children

St. Joseph's Health Centre

St. Michael's Hospital

Children's Aid Society of Toronto

Catholic Children's Aid Society of Toronto



Toronto Public Health

Ministry of Community Safety and Corrections

Association of Ontario Midwives



BTC Partners

reaking



Addictions

- Relapse Prevention Group
 - Recovery Group
 - · Life Skills Group
- Individual Counselling
 - Connections Group

Mental Health Counselling

Health/Medical Services

FASD Assessment/Diagnostic Clinic
 Pre-Postnatal Counselling

Basic Needs Support

• Food • Clothing • Transportation

Probation and Parole Services

Developmental Clinic

- Screening and Assessment
 - Developmental and Interactional Guidance
 - Parent-Child Psychotherapy
 - Home Visiting
 - Early Intervention

Child Care

Pregnancy Outreach Program

Parenting

- New Mom's Support Group
- Nobody's Perfect Parenting Program
- Cooking Healthy Together

- Parent-Child "Mother Goose" Program
- Hanen "You Make the Difference"
- "Learning Through Play" Group
- Access Visits



BTC Programs and Services

reaking



Trauma-Informed Developmental

Child Functioning

Relationship Between Mother and Child

Relationship Between Staff and Families

Relationships Among Staff

Relationships Among Community Agencies

Relationship-Based Theoretical Frameworks

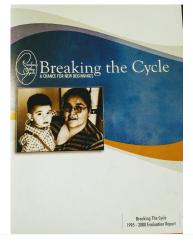
Harm Reduction

Attachment



BTC Theoretical Frameworks





Child Abuse & Neglect 83 (2018) 10-20



Contents lists available at ScienceDirect

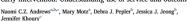
Child Abuse & Neglect

journal homepage: www.elsevier.com/locate/chiabur



Research article

Engaging mothers with substance use issues and their children in early intervention: Understanding use of service and outcomes



⁴ Mothercraft, Early Intervention Department, 860 Richmond Street West, Tovonio, Ontario, MGJ 103, Conada Fixel: University, Department of Psychology, 4700 Reele Street, Tovonio, Ontario, MSJ 1173, Canada Figerona University, Department of Psychology, 520 Victoria Street, Tovonio, Canada NSB 2823, Canada

Engagement:

Holistic, cross-sectoral, community-based models, combined with pregnant outreach services, successfully engage pregnant women and mothers

Enduring Impacts of Early Engagement:

- Longer and greater intensity of service use
- Treatment goal completion
- Maintenance of recovery
- Child custody

Decreased isolation and increased connections to other community services:

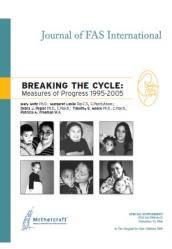
- Prenatal/health care
- Withdrawal management/addiction treatment
- Hostel/shelter/housing supports Child welfare
- Mental health assessment/treatment
- Income support
- Legal support

Enhanced birth and perinatal outcomes for infants of substance-involved mothers engaged earlier in pregnancy:

- Fewer prenatal risk factors
- Reduced prenatal substance exposure
- Fewer birth complications
- Higher birth weight
- Better postnatal health and reduced length of hospital stay







Parenting Sense of Competence and Parenting Stress:

- Significantly higher levels of perceived parenting efficacy, parenting satisfaction, and overall confidence
- Significantly decreased levels of parenting stress

Mother-Infant Attachment:

 Significantly higher levels of quality of attachment and decreased levels of maternal hostility

Social Support:

 Significantly higher levels of support - emotional, financial, practical, social - from family and friends

Knowledge of Services:

- More informed about programs in community
- Better able to access help from other agencies
- Better able to deal with practical problems
- Better able to meet basic needs
- More connected with other mothers
- More a part of the community where they lived





EVIDENCE-BASED PRACTICE IN CHILD AND ADOLESCENT MENTAL HEALTH 2021, VOL. 6, NO. 1, 83–98 https://doi.org/10.1080/23794925.2020.1855612



A Qualitative Framework of Cumulative Risk and Protection for Understanding Neurodevelopment and Clinical Progress: A Multiple Case Study Approach

Bianca C. Bondi 60a, Debra J. Peplera, Mary Motzb, and Naomi C.Z. Andrewsc

*Department of Psychology, York University, Toronto, Ontario, Canada; *Early Intervention Department, Mothercraft, Toronto, Ontario, Canada; Department of Child and Youth Studies, Brock University, St. Catharines, ON, Canada

DEVELOPMENTAL NEUROPSYCHOLOGY https://doi.org/10.1080/87565641.2021.1986044



Cumulative Risk, Protection, and Early Intervention: Neurodevelopment in Sibling Groups Exposed Prenatally to Substances

Bianca C. Bondi 6 a, Debra J. Pepler Mary Motz , and Naomi C.Z. Andrews C. Bianca C. Bondi 6 a, Debra J. Pepler , Mary Motz , and Naomi C.Z. Andrews C. Bianca C. Bondi 6 a, Debra J. Pepler , Mary Motz , and Naomi C.Z. Andrews C. Bianca C. Bondi 6 a, Debra J. Pepler , Mary Motz , and Naomi C.Z. Andrews C. Bianca C. Bondi 6 a, Debra J. Pepler , Mary Motz , and Naomi C.Z. Andrews C. Bianca C. Bia

^aDepartment of Psychology, York University, Toronto, Ontario, Canada; [™]Early Intervention Department, Mothercraft Toronto, Ontario, Canada; ^{*}Department of Child and Youth Studies, Brock University, St. Catharines, ON, Canada

Child Development Outcomes:

 With early intervention, many infants and young children with prenatal alcohol and other substance exposure are progressing along a typical developmental trajectory

For Children Exposed Prenatally to Alcohol and Other Substances:

- Neurodevelopment is shaped by the balance of cumulative risk and protection
- Postnatal risk domains (i.e.,birth/postnatal, child, and parentchild interaction domains) and relational protective domains (i.e., family, parent-child interaction domains) have the most salient impact on neurodevelopment
- Early intervention is important as soon as possible postnatally and before age 3 years





In Her Own Words...





