

Mental Health Commission of Canada

Commission de la santé mentale du Canada

# Cannabis and Mental Health Webinar

October 28th, 2019

Commission de la santé mentale du Canada

#### Host



**Karin Moen**Program Manager, Mental Health and Substance Use
Mental Health Commission of Canada



Commission de la santé mentale du Canada

## Speakers



Dr. Fiona Clement

Associate Professor,
Cumming School of
Medicine and O'Brien
Institute for Public Health
University of Calgary



Dr. Rebecca Haines-Saah

Assistant Professor,
Cumming School of
Medicine
University of Calgary



Dr. Robert Gabrys

Research and Policy Analyst

Canadian Centre on

Substance Use and

Addiction



## Agenda

- MHCC and our work in cannabis and mental health
- Cannabis and Mental Health: an Environmental Scan and Scoping Review
  - Dr. Fiona Clement, University of Calgary
- Clearing the Smoke on Cannabis: Regular Use and Mental Health
  - Dr. Robert Gabrys, CCSA
- CCSA's Cannabis Public Education
- MHCC's ongoing projects and next steps
- Q&A
  - Dr. Fiona Clement, Dr. Rebecca Haines-Saah, Dr. Robert Gabrys



Commission de la santé mentale du Canada

#### About the MHCC





Mental health and wellness for all.

#### Mission



To raise awareness of the mental health and wellness needs of Canadians, and to catalyze collaborative solutions to mental health system challenges.

## The MHCC, Cannabis, and Mental Health



Commission de la santé mentale du Canada

Inform and Invest in Research

Center
Lived and
Living
Experience

Share and Mobilize Knowledge





Government of Canada Gouvernement du Canada







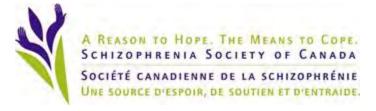














ASSOCIATION CANADIENNE DE SANTÉ PUBLIQUE



## Cannabis and Mental Health: an Environmental Scan and Scoping Review

Overview provided by Dr. Fiona Clement and Dr. Haines-Saah on behalf of Dr. Corbett, B Farkas, M Hofmeister, R Diaz, J Taplin, Dr. Hill and Dr. Patten







## Our Team

Ruth Diaz, MSc, Dr. Rebecca Haines-Saah, Brenlea Farkas, MSc, Dr. Matthew Hill, Dr. Fiona Clement, Dr. Scott Patten, Dr. Caroline Corbett (not pictured)



#### What did we do?





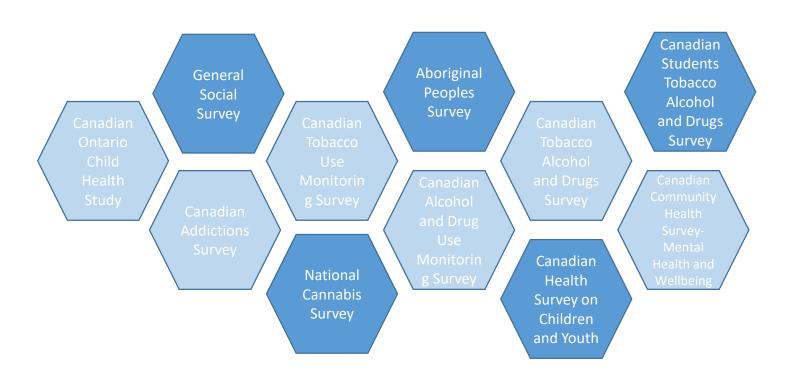


Canadian
Data Assets

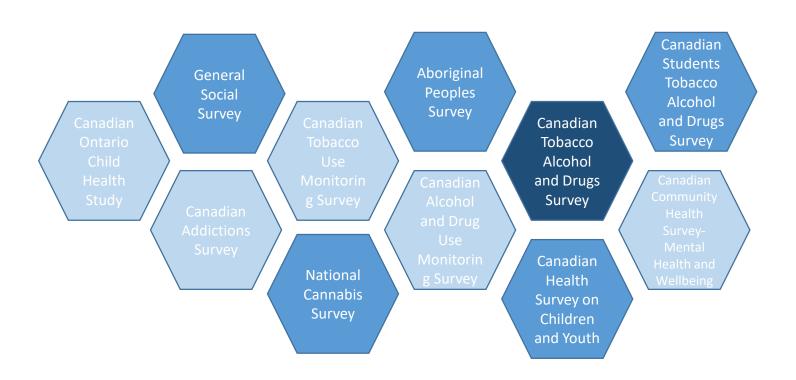
International Data Assets

Published literature

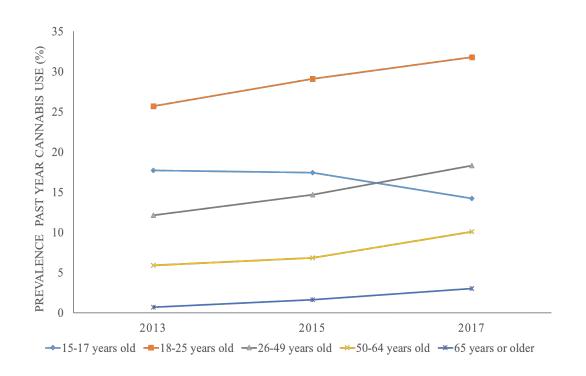
#### Canadian Data Assets



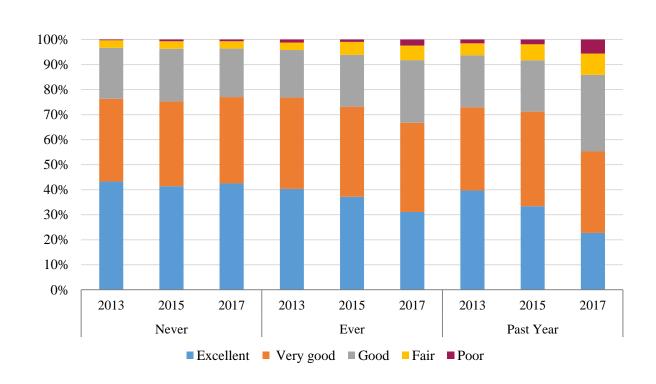
#### Canadian Data Assets



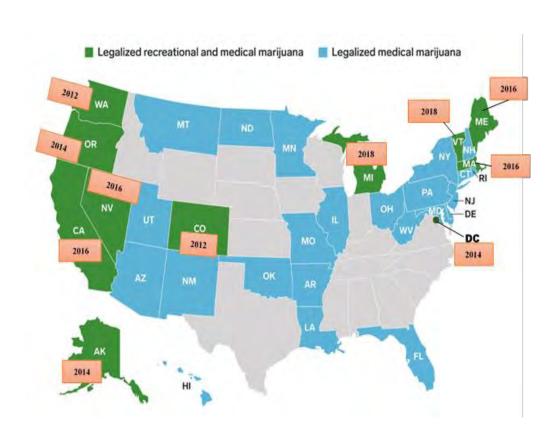
## Prevalence of Cannabis Use by Age Past 12 Months, 2013-2017



## Self-Reported Mental Health by Cannabis Use 2013 – 2017



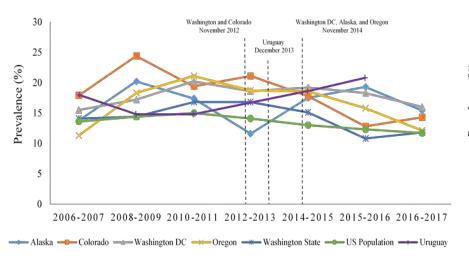
#### International Data Assets

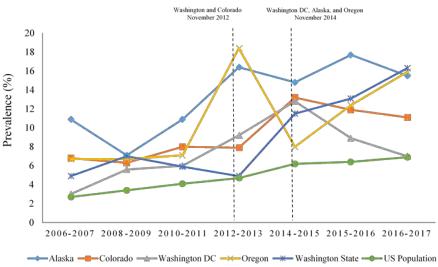


## Prevalence of past-year cannabis use over time

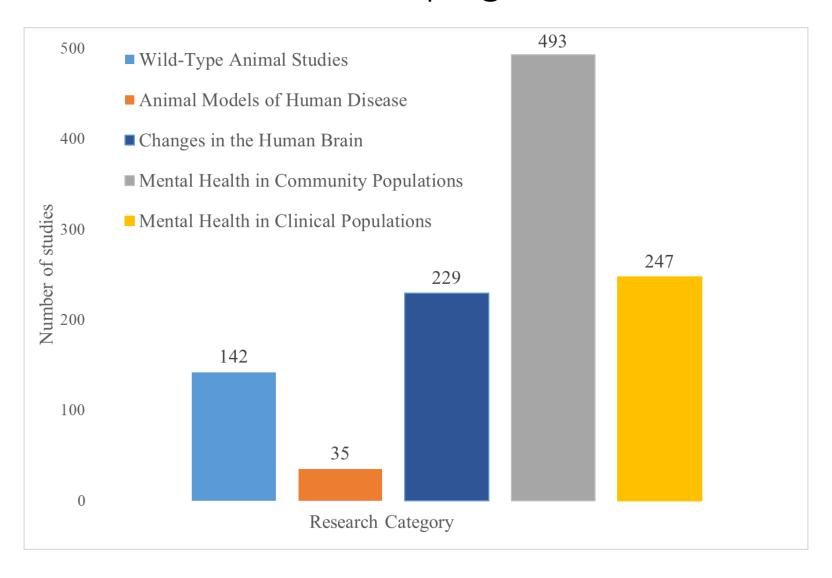
United States ages 12-17; Uruguay 13-17

Over 50 years of age





### Published Literature: scoping review



#### Strengths

- 177 studies (4 active Canadian labs)
- Majority > 6 animals
- ~ 50% of studies employ rats
- Robust literature assessing the relationship between community populations of adults (over 18 years of age) across a range of mental health outcomes.
- People with Schizophrenia Spectrum disorder are the most commonly assessed clinical population.
- Canadian Community Health
   Survey and the National
   Longitudinal Survey of Children
   and Youth both used and reported

#### Gaps

- Mode of administration primarily injection.
- Few studies examine cannabis in extract form or the primary cannabinoids (THC or CBD)
- Limited research using a design that can establish the directionality of the relationship between cannabis use and mental health outcomes
- Limited research, in both community and clinical populations, considers populations that are likely to have unique needs (e.g. IRER, 2SLGBTQ, ACE)
- Limited research adopts a sex and gender lens. When it is adopted, there is no clarity about whether sex or gender is considered.
- Both qualitative and quantitative methodologies primarily adopt a harm lens with very few studies assessing quality of life and well-being

#### Moving Forward

Strengthen and support all methodologies. Focus on understanding the directionality and causal nature of the relationship.

Canada has an opportunity to lead. Promotion of growth through funding and increased partnership will amplify the research.

Use already established data assets for rapid analysis. Continue production of robust datasets for research.

Embed the lived experiences of people who are using cannabis

Focus on the unique needs and possibly differential relationships specifically within seniors, 2SLBGTQ, IRER and those who are indigenous.

Focus on placing the relationship between cannabis use and mental health outcomes its complex context (e.g. within the context of other substance use, exposure to traumatic events, overlapping health and social inequities). The general harm lens is not nuanced enough.

# Where can I find the reports?



Cannabis and Mental Health: an Environmental Scan and Scoping Review <a href="https://obrieniph.ucalgary.ca/system/files/cannabis-and-mental-health-report-for-mhcc-aug-14th.pdf">https://obrieniph.ucalgary.ca/system/files/cannabis-and-mental-health-report-for-mhcc-aug-14th.pdf</a>

Cannabis and Mental Health: Priorities for Research <a href="https://www.mentalhealthcommission.ca/English/media/4273">https://www.mentalhealthcommission.ca/English/media/4273</a>



Centre canadien sur les dépendances et l'usage de substances

Données. Engagement. Résultats.

www.ccsa.ca • www.ccdus.ca

## Clearing the Smoke on Cannabis: Regular Use and Mental Health

Cannabis and Mental Health Webinar Robert Gabrys October 28, 2019

#### About CCSA

- Vision: A healthier Canadian society where evidence transforms approaches to substance use.
- Mission: To address issues of substance use in Canada by providing national leadership and harnessing the power of evidence to generate coordinated action.
- Value Proposition: Provide national leadership to address substance use in Canada. A trusted counsel, we provide guidance to decision makers by harnessing the power of research, curating knowledge and bringing together diverse perspectives.
- National non-profit organization with a pan-Canadian and international role.

www.ccsa.ca • www.ccdus.ca

## Strategic Core Functions

#### Providing National Leadership

Create a common focus and purpose to achieve collective impact

#### Building Strategic Partnerships

Bring people and knowledge together to develop collective responses and coordinated action

## Advancing Research

Synthesize and generate timely evidence to inform practice and policies

#### Mobilizing Knowledge

Expand the reach and adoption of new and emerging practices

www.ccsa.ca • www.ccdus.ca

#### **CCSA's National Priorities**

Cannabis

Children & Youth

Substance Use & Mental Health

Indigenous Peoples

Workforce Development

National Treatment Strategy

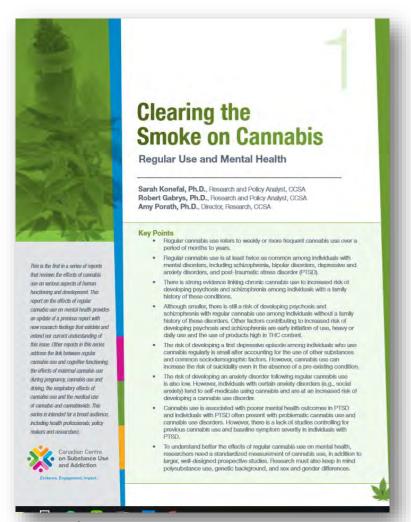
Impaired Driving

National Alcohol Strategy

Opioids & Prescription Drugs

Stigma

### Clearing the Smoke on Cannabis series





#### Cannabis Use Disorder

#### **Diagnostic Criteria for Cannabis Use Disorder (DSM-5)**

- Using more cannabis than intended
- 2. Trying unsuccessfully to control use
- 3. Spending a significant amount of time obtaining and using cannabis or recovering from its effects
- 4. Experiencing a strong desire or urge to use cannabis
- 5. Failing to fulfil major obligations at work, home or school because of cannabis use
- 6. Giving up or reducing important social, occupational or recreational activities because of cannabis use
- Continuing use despite recurring physical or psychological problems caused by cannabis
- 8. Continuing to use cannabis despite it causing problems in relationships
- 9. Using cannabis in physically hazardous situations
- 10. Increasing tolerance to cannabis' effects
- 11. Developing withdrawal symptoms

**Regular use:** weekly or more frequent use over a period of months to years

Heavy use: daily or more frequent use, which can by a sign of dependence and cannabis use disorder



## Psychosis and Schizophrenia

- Strong evidence linking cannabis use to psychosis and schizophrenia among individuals with a family history of these conditions.
- Although smaller, there appears to still be a risk for individuals without a family history of these disorders.
  - Early initiation of use
  - Heavy or daily use
  - Use of products high in THC content



## Depression

- Risk of first depressive episode seems to be small.
  - Specific depression profile?
  - Cannabinoid exposure or an ineffective coping strategy?
- The link between depression and cannabis use disorder appears to be reciprocal.



## **Anxiety Disorders**

- For most individuals who use cannabis, the risk of developing an anxiety disorder seems to be low.
- Individual differences play an important role.
- Social anxiety might increase the risk of developing cannabis use disorder.



#### Post-Traumatic Stress Disorder

- Cannabis use is common among individuals living with PTSD.
- Preliminary research supports some symptom relief.

#### But ...

- Cannabis use has been associated with poorer mental health outcomes among those with PTSD.
- Individuals with PTSD often present with problematic cannabis use and cannabis use disorder.



#### Limitations of Current Research

- Measurement of cannabis use has been limited.
- Causality has been difficult to establish.
- Individual differences have not been fully explored.



## Conclusions and Implications

- Strong evidence linking regular cannabis use to increased risk of developing psychosis or schizophrenia.
- The evidence is less clear for mood and anxiety disorders.
- Regular cannabis use appears to do more harm than good for individuals experiencing mental illness.
- Public education directed towards individuals living with, or at risk of, mental illness is essential.
- Weighing the costs vs benefits of cannabis use.



### Cannabis Public Education



Q & A

Mental Health Commission of Canada

Commission de la santé mentale du Canada



la santé mentale du Canada

## Thank you for joining us today!

Dr. Fiona Clement - fclement@ucalgary.ca

Dr. Rebecca Haines-Saah - rebecca.saah@ucalgary.ca

**Dr. Robert Gabrys** - rgabrys@ccsa.ca https://www.ccsa.ca/

cannabis@mentalhealthcommission.ca www.mentalhealthcommission.ca



