PLANNING FOR THE APPROPRIATE USE OF

# PRESCRIPTION DIACETYLMORPHINE IN ONTARIO

PROJECT SUMMARY



Dépendances & santé mentale d'Ontario

### **ACKNOWLEDGEMENTS**

- This project was managed by Addictions and Mental Health Ontario (AMHO), with funding from Health Canada's Substance Use and Addictions Program (SUAP). AMHO contracted an independent consulting firm, VIRGO Planning and Evaluation Consultants Inc. (owned and operated by Dr. Brian Rush and supported by April Furlong) to lead the work.
- The project was supported by an expert Advisory Committee comprised of a broad range of experts, including individuals with lived/living experience, health system planners, and representatives from public health, addiction treatment services and other relevant sectors, as well as other key stakeholders in Ontario.
- The project also built upon the work of the Canadian Research Institute in Substance Misuse (CRISM),
  which has been focused on facilitating and supporting the successful delivery of injectable Opioid
  Agonist Treatment (iOAT) in Canada.

### **IOAT PROJECT**

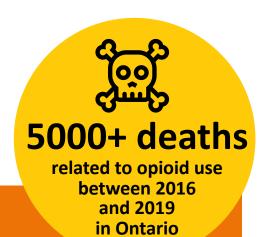
#### RATIONALE

- Ongoing (and increasing) harms associated with opioid crisis
- Limited availability of iOAT in Ontario despite strong research evidence and need
- Changes in federal regulations to increase access to iOAT medications
- Expansion of iOAT offered in jurisdictions outside of Ontario



#### GOALS

- Provide information to provincial governments and health authorities to determine need to expand iOAT in Ontario
- Support implementation of iOAT programs in Ontario, as applicable, by documenting supportive system-level processes





# COVID-19 AND OPIOID USE

According to a report from the Office of the Chief Coroner of Ontario, the province recorded 2167 opioid related deaths from January to November 2020—a 59% increase over the same period in 2019.

> ... the prevalence of opioid-related harms\*

... a tainted drug supply

... isolation

... barriers to effective treatment

## DISTRIBUTION

#### OF OPIOID-RELATED

#### **DEATHS BY AGE**

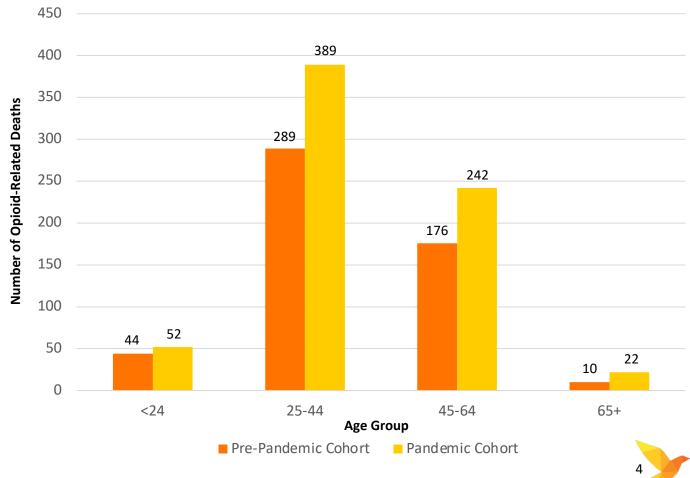


**Pre-Pandemic Cohort** December 1, 2019 - March 15, 2020 (n=519)



**Pandemic Cohort** 

March 16, 2020 - June 30, 2020 (n=705)





<sup>\*</sup> Source for graph: The Ontario Drug Policy Research Network; The Office of the Chief Coroner for Ontario/Ontario Forensic Pathology Service; Public Health Ontario; Centre on Drug Policy Evaluation (2020). Preliminary patterns in circumstances surrounding opioid related deaths in Ontario during COVID-19 pandemic. www.publichealthontario.ca/-/media/documents/o/2020/ opioid-mortality-covid-surveillance-report.pdf?la=en

# INJECTABLE OPIOID AGONIST TREATMENT (IDAT)

- Involves supervised self-injection of a prescribed opioid medication (either diacetylmorphine or hydromorphone)
- Is an evidence-based, high intensity, cost-effective treatment option
- Is recommended for individuals with severe opioid dependence and/or individuals with ongoing illicit injection opioid use
- Goals

*Primary:* to improve the health of the individual

Secondary: to engage individuals in addiction treatment and/or other supports

Source: Canadian Research Initiative in Substance Misuses (CRISM). (2019). National injectable opioid agonist treatment for opioid use disorder clinical guideline. Author.



# **IOAT IS ONE OF SEVERAL OPTIONS\* FOR PEOPLE WHO USE OPIOIDS**

#### OPIOID AGONIST TREATMENT (OAT)

- Oral administration of medications:
  - Buprenorphine/ naloxone (also known as Suboxone®)
  - Methadone
- Generally considered first line treatment for opioid dependence

# INJECTABLE OPIOID AGONIST TREATMENT (IOAT)

 For those individuals who have not responded to opioid agonist treatment (OAT); for whom OAT is not appropriate; and/or who have ongoing illicit injection opioid use

# PSYCHOSOCIAL TREATMENT INTERVENTIONS AND SUPPORTS

To be offered in conjunction with medications

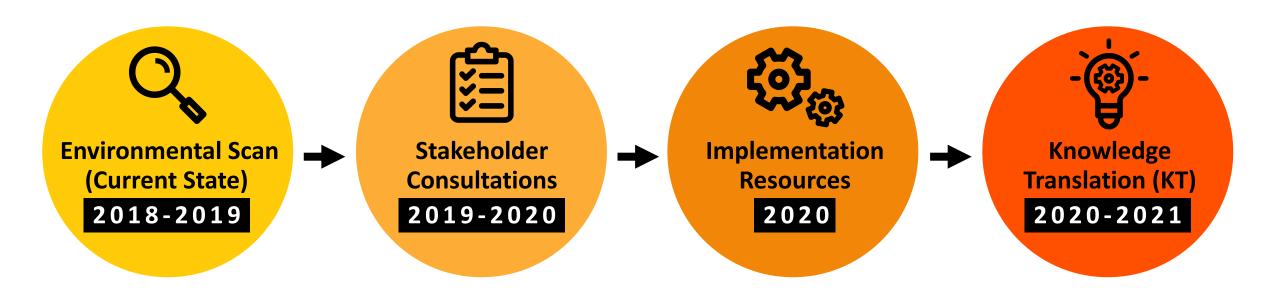
#### HARM REDUCTION SERVICES

- To reduce adverse health, social and economic consequences of substance use and to promote treatment engagement
  - Take-home naloxone/injection supplies
  - Supervised injection, consumption and safer supply services



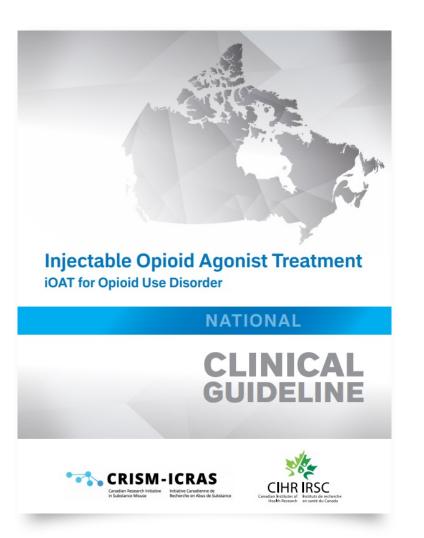
<sup>\*</sup> This presentation is focused exclusively on iOAT that is delivered according to national guidelines (i.e., supervised, self-injection of either prescribed diacetylmorphine or hydromorphone).

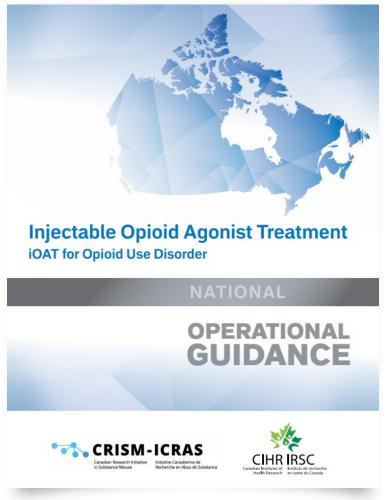
## **PROJECT PHASES**



The summary of the current state of iOAT in Canada was largely based on the work of CRISM (particularly its clinical and operational guidelines and 2018 environmental scan of iOAT programs in Canada).









## LEVELS OF CONSULTATION

(100+ STAKEHOLDERS CONSULTED)



#### SYSTEM

Health system planners
Professional association
and regulatory bodies
Researchers/evaluators

#### SERVICE

iOAT

Other substance use

Mental health

Harm reduction

Primary care

Criminal justice

Public health

#### INDIVIDUAL

People with lived/ living experience Service users

# APPLICATION OF THE CONSOLIDATED FRAMEWORK FOR IMPLEMENTATION RESEARCH (CFIR)



The project focused on the first two domains of the CFIR given their relevance to system-level planning for iOAT in the province.

Focus of consultations

System-planning

# CHARACTERISTICS OF THE INTERVENTION

#### Intervention source

- Evidence strength and quality
- Relative advantage
- Adaptability
- Trialability
- Complexity
- Design quality
- Cost

#### OUTER SETTING

- Client needs and resources
- Cosmopolitanism
- Peer pressure
- External policies and incentives

#### **INNER SETTING**

- Structural characteristics
- Networks and communications
- Culture
- Implementation climate
- Readiness for implementation

Local implementation

#### INDIVIDUALS INVOLVED

- Knowledge and beliefs about intervention
- Self-efficacy
- Individual stage of change
- Individual identification with organization
- Other personal attributes

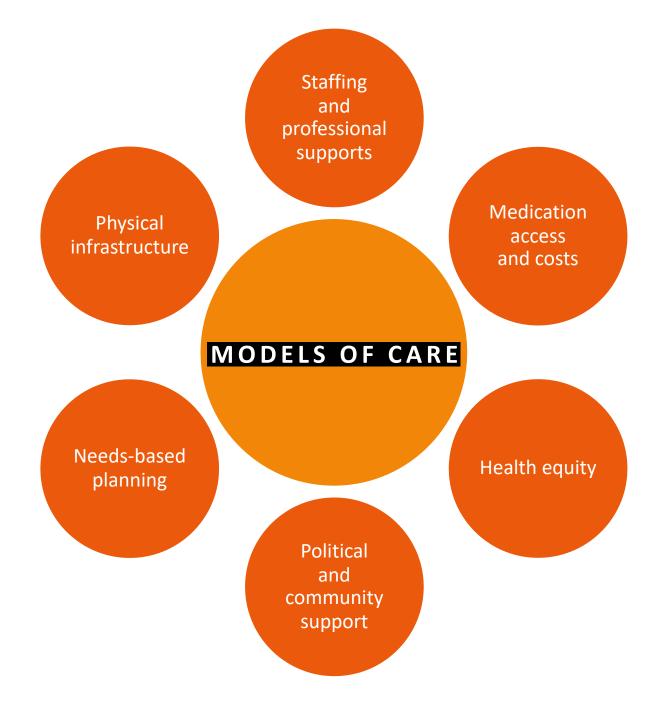
#### IMPLEMENTATION PROCESS

- Planning
- Engaging
- Executing
- Reflecting and evaluating



# **IOAT IN ONTARIO**KEY CONSIDERATIONS





# MAIN FINDINGS

## 3 THINGS TO KNOW ABOUT IOAT



iOAT is a life-saving and life-enhancing medical intervention





## **IOAT IN ONTARIO**

**CURRENT STATE** 

There is a substantial number of people in Ontario that could be saved by iOAT...



...but there is only one formal iOAT program available in the province (with a capacity to serve ~40 clients) and the waiting list to get into it is full

#### How does this compare to other jurisdictions?

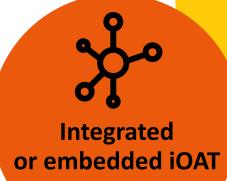
British Columbia: There are at least eight formal iOAT programs currently available in the province with a combined capacity to serve ~300+ clients at any given time. Three more programs are expected to be implemented in 2021. These programs are still largely pilot initiatives and dependent on federal funding. More work is needed to integrate and publicly fund iOAT as part of the provincial continuum of care. The province is also much further ahead in terms of easing regulatory restrictions to address the worsening opioid crisis during the COVID-19 pandemic.

**Europe:** The UK has provided unsupervised prescribed heroin treatment for over a century. It is now a standard treatment in Denmark, Germany, and the Netherlands. In Switzerland, iOAT is publicly funded and integrated into local addiction service networks.





Comprehensive and dedicated iOAT program



program

THERE ARE SEVERAL
iOAT SERVICE MODELS
AVAILABLE TO MEET
THE UNIQUE NEEDS
OF COMMUNITIES
ACROSS ONTARIO







Both physicians and nurse practitioners have the authority to administer iOAT in Ontario. Much of the training and professional regulations needed to support this are already in place.

More work may be needed to support medical practitioners so that they can offer iOAT.

# SO... WHAT'S HOLDING ONTARIO BACK?

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The only significant barrier to implementing iOAT programs in Ontario is the lack of coverage for people insured by the ODB [Ontario Drug Benefit program].

Open letter to the government of Ontario signed by 410 service providers and researchers in 2019 listhmonodb.wordpress.com

# EFFECTIVE IOAT MEDICATIONS ARE NOT AVAILABLE IN ONTARIO

#### DIACETYLMORPHINE (DAM)

- ... can be more effective than methadone for severe opioid dependence
- · ... is currently not produced in Canada
- ... has been difficult to import to be used for iOAT in Ontario

#### HYDROMORPHONE (HDM)

- ... is as effective as DAM (and can be more effective than methadone) for severe opioid dependence
- ... is approved for iOAT...
- ... is covered by some publicly-funded drug programs across Canada
- ... but not funded in Ontario at the concentration needed to offer iOAT widely

# OPTIONS TO INCREASE ACCESS TO IOAT MEDICATIONS IN ONTARIO

# SUPPORT DOMESTIC PRODUCTION OF DAM

- Domestic production makes it accessible in Ontario (because of lowered costs and no import caps)
- Canadian pharmaceutical companies are already interested



# LIST IOAT MEDS ON THE ONTARIO DRUG BENEFIT (ODB) PROGRAM

- Requires more and higher concentrations on ODB:
  - HDM: 50, 75 & 100 mg/mL options
  - DAM: 100, 150, & 200 mg/mL options



## MORE WORK IS NEEDED TO BETTER UNDERSTAND

- Effective implementation models and strategies
- How to effectively integrate iOAT within the broader continuum of health and social service supports
- Health equity considerations and impacts
- Impacts of policy decisions on clinical care
- Alternative forms of service delivery
- Needs-based planning
- Cost effectiveness in Ontario



**BUT** these gaps in knowledge should NOT be a reason to delay increasing access to iOAT.



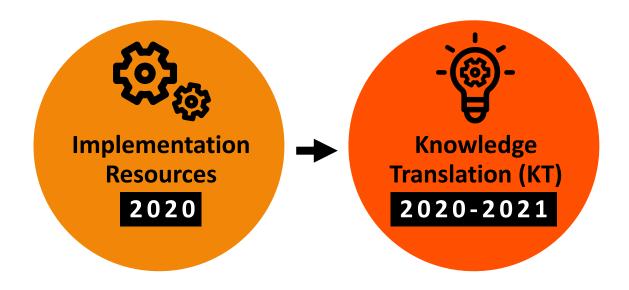
# BRINGING IT ALL TOGETHER:

#### WHAT DOES IMPLEMENTATION SCIENCE SAY?

Characteristics of the intervention			
Evidence strength & quality	iOAT is safe and effective.	<b>②</b>	
Relative advantage	Studies have found iOAT may be better than methadone for many people with severe opioid dependence.	$\odot$	
Adaptability	There are multiple models available for adaptation in different communities and contexts.	<b>②</b>	
Complexity	iOAT requires some unique implementation infrastructure, some of which is already in place within potential services provider organizations. There are unknowns regarding how best to ensure equitable access to services, including in rural and remote regions.  Proceed, but with attention to ensuring equitable access.	$\triangle$	
Cost	iOAT is cost-effective.	$\odot$	
	Scale up is constrained by lack of access to medications through the Ontario Drug Benefit Program (ODB).  Medication costs can be further reduced through domestic production of iOAT medications.  THIS IS A MAJOR BARRIER.		

Outer setting		
Client needs and resources	The need for iOAT is well established and increasing in the context of the COVID-19 pandemic.  More work is needed to effectively partner with individuals who use opioids to plan and implement iOAT more broadly in Ontario.	<b>⊘</b>
Cosmopolitanism (extent to which services are well networked)	iOAT programs need fully functioning referral pathways to primary care, social services, and other recovery-oriented substance use and harm reduction treatment and supports. Existing programs such as Rapid Access to Addiction Medicine (RAAM) clinics, community health centres (CHCs) and harm reduction programs may be viable options to embed iOAT given their already established referral pathways.  Consideration needs to be given to regions where these services are limited (e.g., rural regions).  Proceed, but increase appropriate services alongside increasing access to iOAT.	<b>△</b>
Peer pressure	Ontario is behind other jurisdictions relative to the level of need for iOAT and there is a long history of advocacy work in the province to scale up iOAT (together with harm reduction services). There are no apparent reasons why Ontario shouldn't scale up iOAT given the experiences of other jurisdictions and the federal government's support of safer supply pilots.	<b>⊘</b>
External policies and incentives	Many of the professional regulatory policies are already in place. This does not pose a major barrier. More work may be needed to support medical professionals to overcome barriers and offer iOAT as part of their work.	<b>⊘</b>





# KNOWLEDGE TRANSLATION (KT) PLANNING PRIORITIES/GOALS



Advocate for central role of people with lived/living experience in planning, development, implementation and evaluation of iOAT programs



Broaden support for iOAT in Ontario



Advocate for appropriate listing of iOAT meds on the Ontario Drug Benefit (ODB) formulary



Support efforts for a domestic producer of diacetylmorphine



Support prescriber engagement in iOAT



Support the development and implementation of evidence-based iOAT programs



Influence research priorities related to iOAT

## KNOWLEDGE TRANSLATION RESOURCES







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There's no neighbourhood too small or too privileged. People will be surprised how many of their own children, friends, parents are part of this situation...this opioid crisis.

-iOAT client

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Why wait until there's irreversible damage?
It's like having lifeguards to prevent drowning.

Don't wait until they are at the bottom

of the pool...

-iOAT client