



Opioid Agonist Therapy 101: An Introduction to Clinical Practice Workshop

*A Review of Opioid Use Disorder and Emerging Inpatient
and Community Disease Patterns*

Adapted from a presentation developed by: Dr. Ginette Poulin
Speaker: Dr. Marina Reinecke MBChB, CCFP(AM), ISAM

A dark grey arrow points to the right from the left edge of the slide. Below it, several thin, curved lines in shades of blue and grey sweep across the left side of the slide.

Faculty/Presenter Disclosure

- ▶ Faculty: **Dr. Marina Reinecke**
- ▶ Relationships with commercial interests: **None**



Learning Objectives

Upon completion of this educational activity the participant will be able to:

- Comprehend Addiction as a chronic illness
- Define Opioid Use Disorder (OUD)
- Review historical and current opioid use trends and explain its impacts on individuals and society
- Identify common complications of Substance Use Disorders (SUD) and intravenous drug use (IDU)
- Distinguish Harm Reduction versus Abstinence
- List the benefits and challenges associated with OAT



Diagnosis



DIAGNOSTIC AND STATISTICAL
MANUAL OF
MENTAL DISORDERS

FIFTH EDITION

DSM-5

AMERICAN PSYCHIATRIC ASSOCIATION

Substance Use Disorder – DSM V

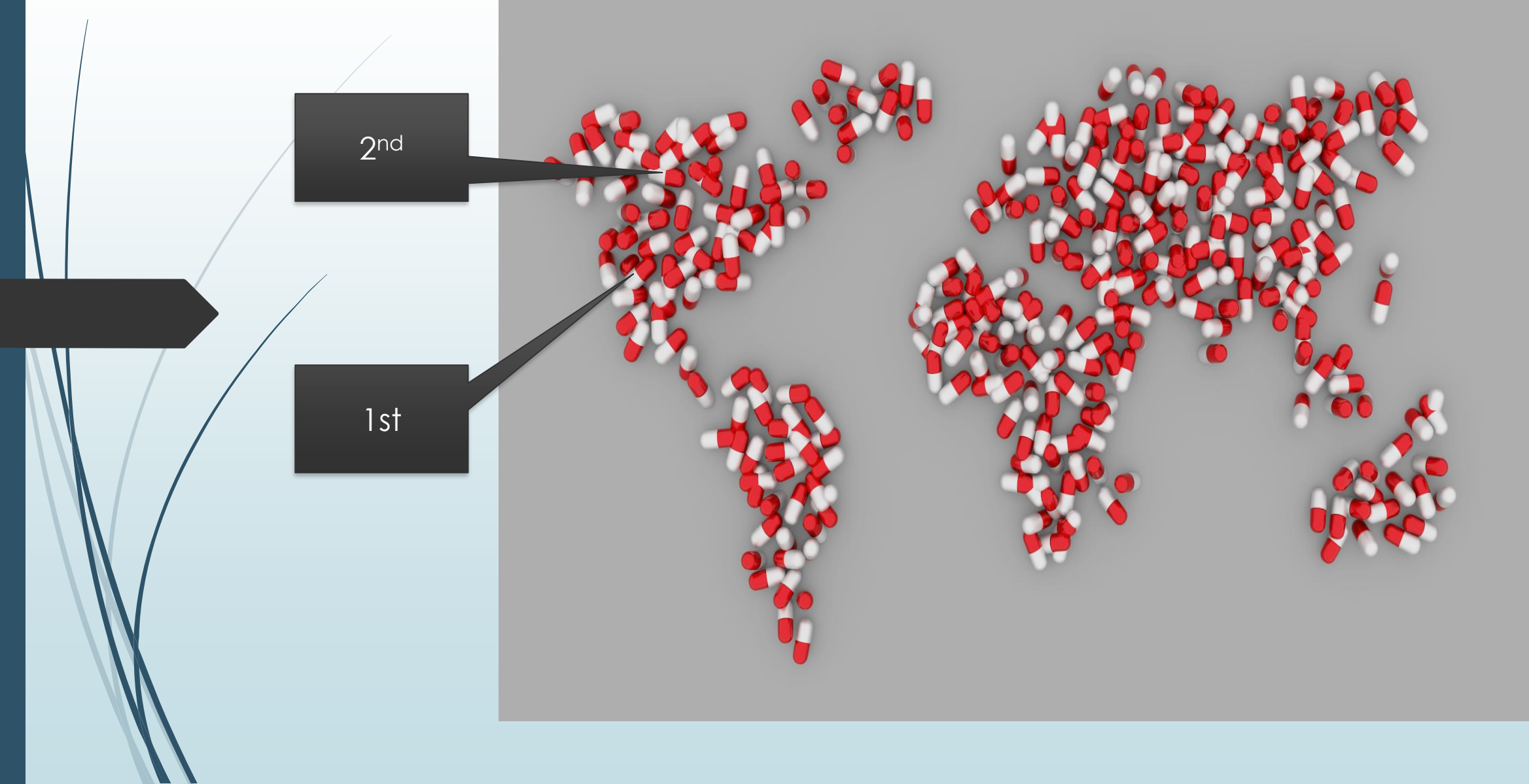
- In DSM-V, criteria for Substance Abuse and Dependence combined into “(Substance) Use Disorder”
- Levels of severity:
 - Mild: Presence of 2-3 symptoms
 - Moderate: Presence of 4-5 symptoms
 - Severe: Presence of 6 or more symptoms

Substance Use Disorder – DSM V

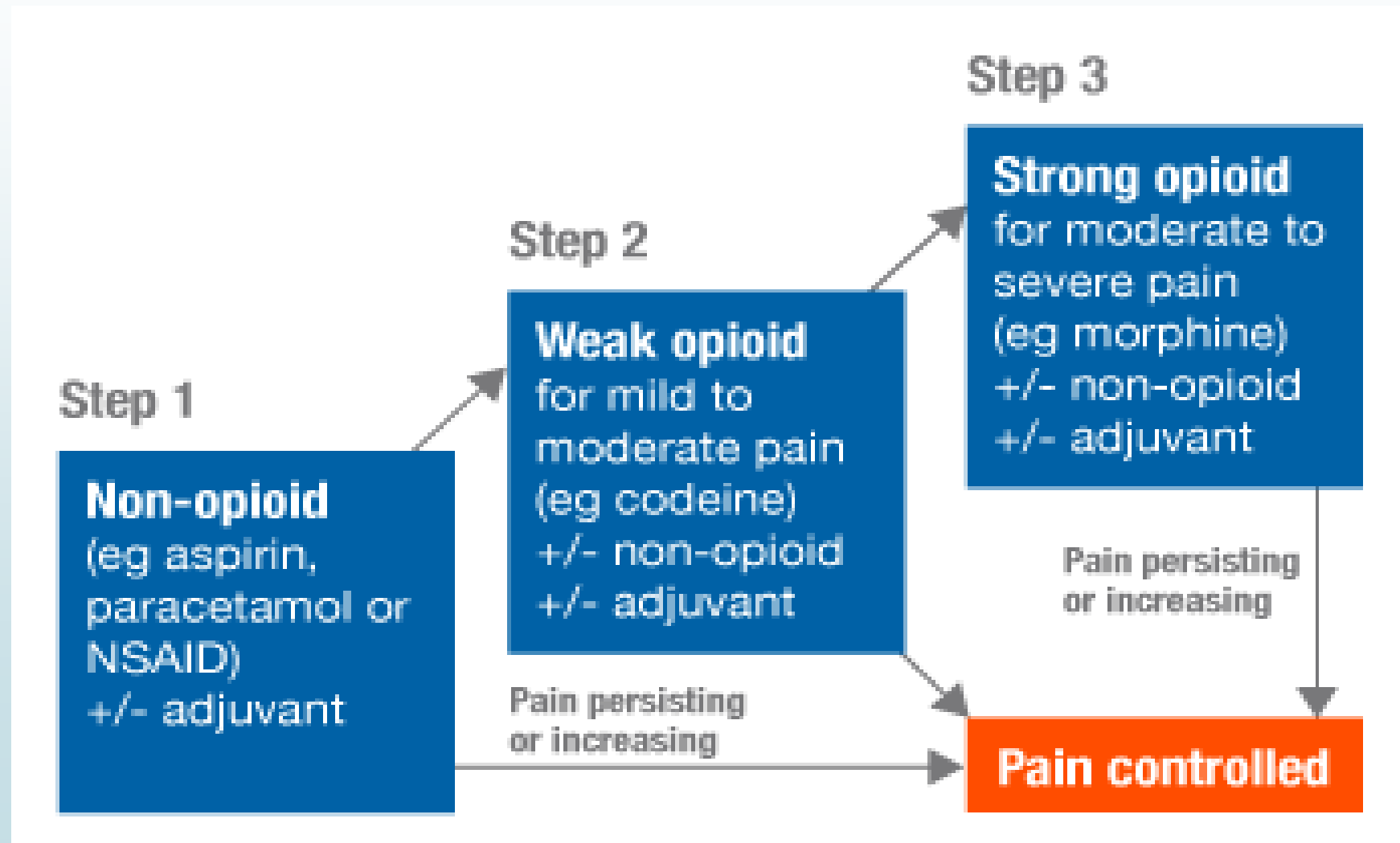
- A. A problematic pattern of substance use leading to clinically significant impairment or distress, as manifested by at least two of the following, occurring within a 12-month period:
- (1) Substance is often taken in larger amounts or over a longer period than was intended.
 - (2) Persistent desire or unsuccessful efforts to cut down or control substance use.
 - (3) A great deal of time spent in activities necessary to obtain the substance, use the substance, or recover from its effects.
 - (4) Craving, or a strong desire or urge to use substance.
 - (5) Recurrent use resulting in a failure to fulfill major role obligations at work, school or home.
 - (6) Continued substance use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of the substance.
 - (7) Important social, occupational or recreational activities are given up or reduced because of use.
 - (8) Recurrent substance use in situations in which it is physically hazardous.
 - (9) Substance use is continued despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by the substance.
 - (10) Tolerance (increased amounts needed to get desired effect; or diminished effect with same amount).
 - (11) Withdrawal (characteristic withdrawal syndrome; or the same or related substance taken to avoid or relieve withdrawal symptoms).

| | | Yes | No |
|-----|---|--------------------------|--------------------------|
| 1. | Opioids are often taken in larger amounts or over a longer period than was intended. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | There is a persistent desire or unsuccessful efforts to cut down or control opioid use. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | A great deal of time is spent in activities necessary to obtain the opioid, use the opioid, or recover from its effects. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | Craving, or a strong desire or urge to use opioids. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | Recurrent opioid use resulting in a failure to fulfill major role obligations at work, school, or home. | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | Continued opioid use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of opioids. | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | Important social, occupational, or recreational activities are given up or reduced because of opioid use. | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | Recurrent opioid use in situations in which it is physically hazardous. | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | Continued opioid use despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by the substance. | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | <p>Tolerance, as defined by either of the following:</p> <p>a. A need for markedly increased amounts of opioids to achieve intoxication or desired effect.</p> <p>b. A markedly diminished effect with continued use of the same amount of an opioid.</p> <p><i>Note: This criterion is not considered to be met for those taking opioids solely under appropriate medical supervision.</i></p> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. | <p>Withdrawal, as manifested by either of the following:</p> <p>a. The characteristic opioid withdrawal syndrome</p> <p>b. Opioids (or a closely related substance) are taken to relieve or avoid withdrawal symptoms.</p> <p><i>Note: This criterion is not considered to be met for those individuals taking opioids solely under appropriate medical supervision.</i></p> | <input type="checkbox"/> | <input type="checkbox"/> |

WORLDWIDE OPIATE CONSUMPTION



WHO ANALGESIC LADDER

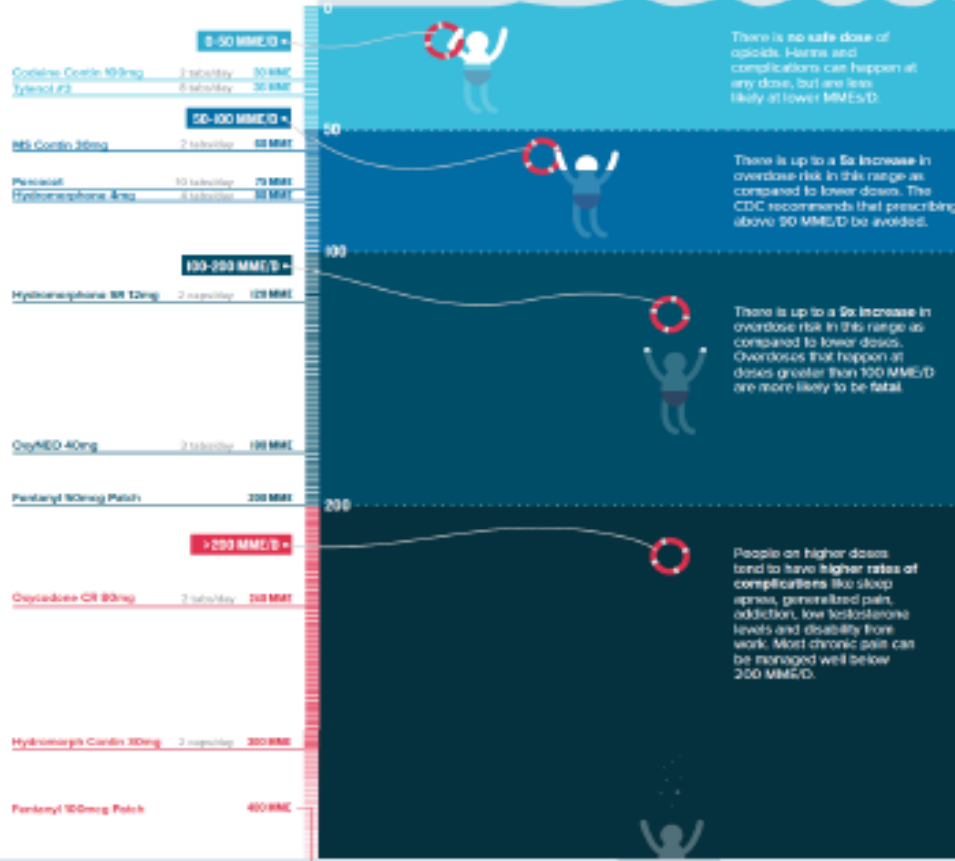


NAVIGATING OPIOIDS FOR CHRONIC PAIN

Sometimes the best of intentions lead to devastating consequences. Canada and the U.S. are the two highest consumers of prescription opioids even though we don't have good evidence that they are effective for chronic pain. Since there are many different opioids used for the same purpose, we use **morphine equivalence** to compare how strong they are.

AS THE NUMBER OF MORPHINE MILLIGRAM EQUIVALENTS PER DAY (MME/D) INCREASES, THE HARMS ASSOCIATED WITH OPIOID THERAPY ALSO INCREASE.

IS HIGH DOSE PRESCRIBING SAVING OR SINKING YOU?



Updated March 1, 2018

Number* of Unique Patients in Manitoba with "Average Morphine Equivalence Per Day"***

| Ave. MME Per Day | Q4 2017: Oct. 1 2017 to Dec. 31, 2017 | | % Var. # Unique Patients from Prev. Year | Q4 2016: Oct. 1 2016 to Dec. 31 2016 | |
|------------------|---------------------------------------|-------------------------------|--|--------------------------------------|-------------------------------|
| | # Unique Patients | Proportion of Unique Patients | | # Unique Patients | Proportion of Unique Patients |
| 0 to 50 | 4,203 | 45.2% | ↑ 1.8% | 4,128 | 44.5% |
| 50 to 90 | 2,365 | 25.5% | ↑ 4.0% | 2,273 | 24.5% |
| 90 to 200 | 1,937 | 20.8% | ↓ (0.7%) | 1,951 | 21.0% |
| >200 | 787 | 8.5% | ↓ (14.6%) | 922 | 9.9% |
| | 9,292 | 100.0% | ↓ (2.5%) | 9,274 | 100.0% |

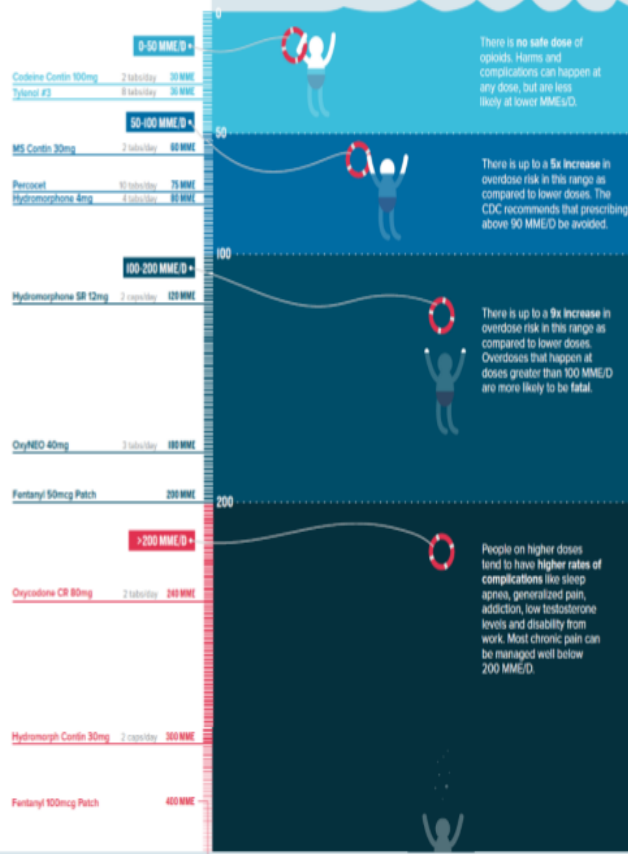
*Data source is DPIN, excludes Long Term Care & Palliative Care clients; does not include drugs dispensed in hospital. Includes fentanyl.

** MME Per Day Calculated by taking Total MME divided by Days Supply

NAVIGATING OPIOIDS FOR CHRONIC PAIN

Sometimes the best of intentions lead to devastating consequences. Canada and the U.S. are the two highest consumers of prescription opioids even though we don't have good evidence that they are effective for chronic pain. Since there are many different opioids used for the same purpose, we use **morphine equivalence** to compare how strong they are.

AS THE NUMBER OF MORPHINE MILLIGRAM EQUIVALENTS PER DAY (MME/D) INCREASES, THE HARMS ASSOCIATED WITH OPIOID THERAPY ALSO INCREASE.



Number* of Unique Patients in Manitoba with “Average Morphine Equivalence Per Day”***

Q4 2020: Oct 1 2020 to Dec 31, 2020
 WITH codeine and Percocet

| Ave. MME Per Day | # Unique Patients | Proportion of Unique Patients |
|------------------|-------------------|-------------------------------|
| 0 to 50 | 49,102 | 89.5% |
| 50 to 90 | 4,238 | 7.7% |
| 90 to 200 | 1,167 | 2.1% |
| >200 | 349 | 0.6% |
| | 54,856 | 100.0% |

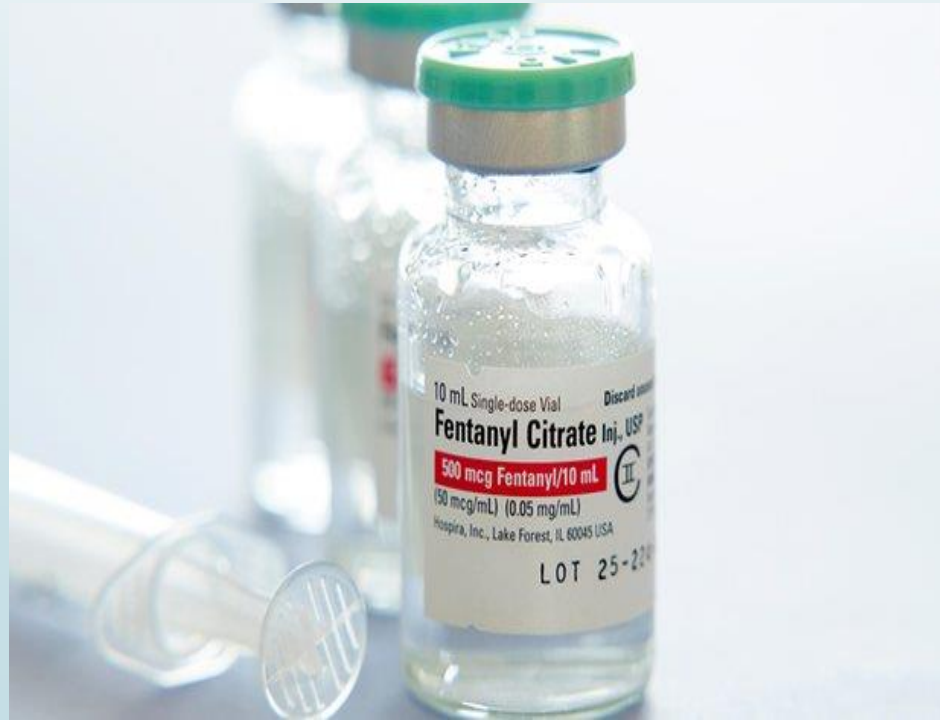
*Data source is DPIN, excludes Long Term Care & Palliative Care clients; does not include drugs dispensed in hospital. Includes fentanyl.

** MME Per Day Calculated by taking Total MME divided by Days Supply. Average MME at the patient level, not the average MME per prescriber.

OXYCONTIN and Pharma

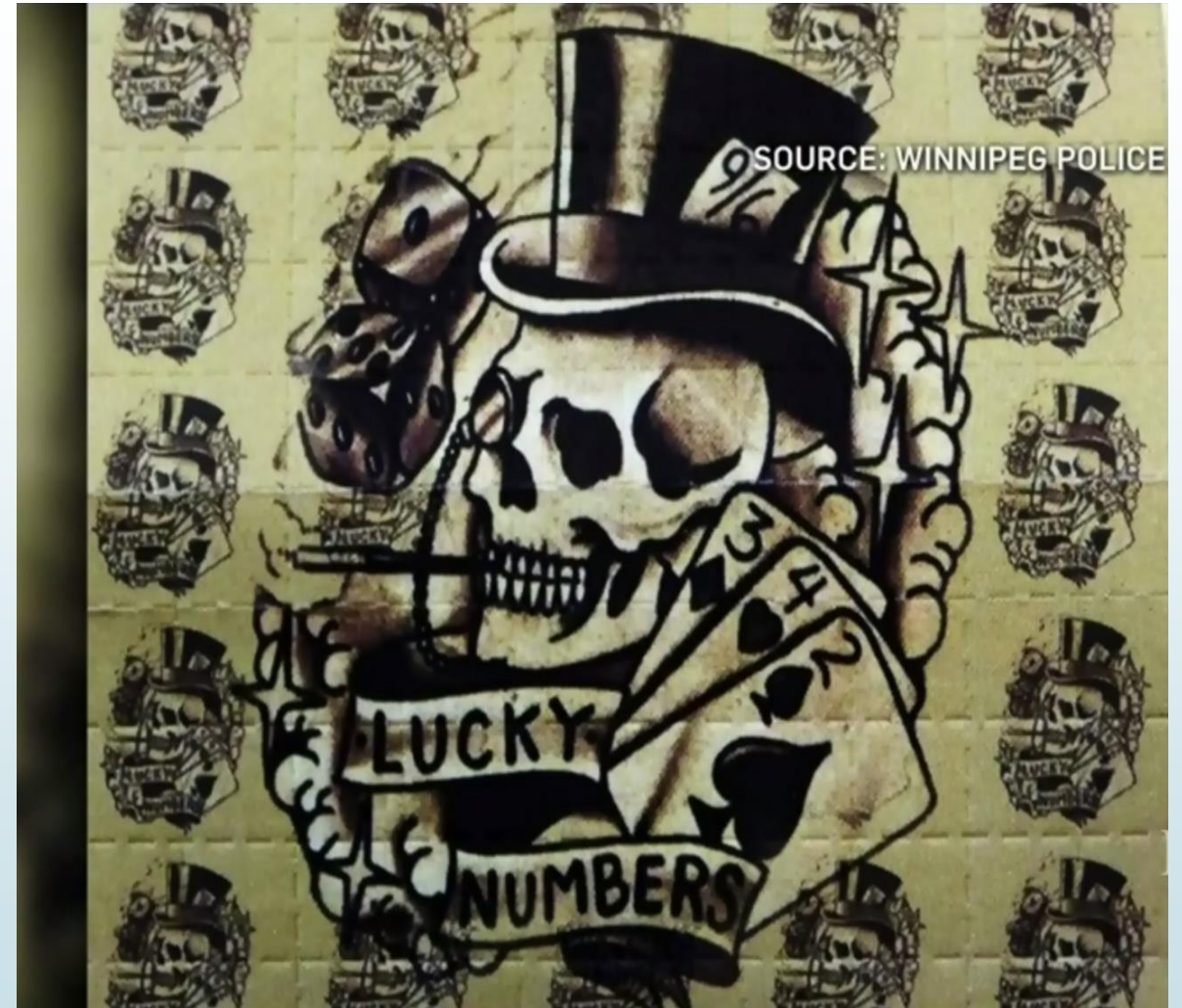


FENTANYL



Non-prescription Fentanyl

- Fentanyl smuggled in from China via west coast.
- Different fentanyl analogues with varying strengths (carfentanil)
- Attainable from internet pharmacies – 1 kg goes a long way (100K street value)
- Adulterated into other drugs:
 - West coast heroin 70%
 - Local – adulterated into powdered cocaine, crystal meth, fake oxys.
 - Blotter tabs





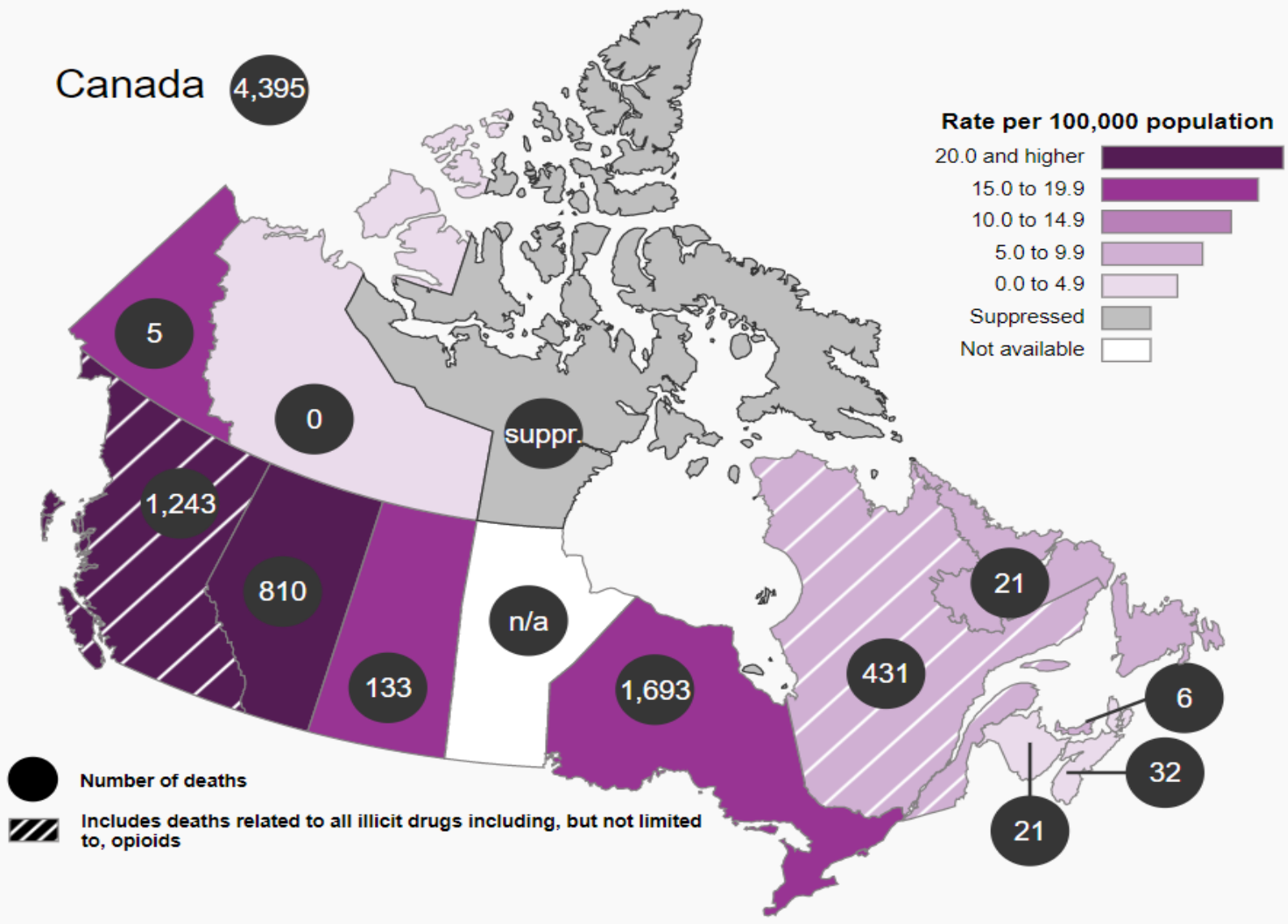
OXYNEO and COUNTERFEIT



An Opioid Crisis



Number and rates (per 100,000 population) of total apparent opioid toxicity deaths by province or territory in 2020 (Jan to Sep)



Overdose deaths in Manitoba

- TOTAL NUMBER OF DRUG-RELATED DEATHS:
- **138 drug-related deaths in 2018**
- **191 drug-related deaths in 2019** (Total opioid-related deaths: 93)
(49% of all drug-related deaths)

- **259 total drug-related deaths in first 9 months of 2020**
- Primarily due to toxic street supply of fentanyl, cocaine, and methamphetamine
- **We are on track for 300 + deaths in 2020 - most of them young with many years of work and life left to live!**

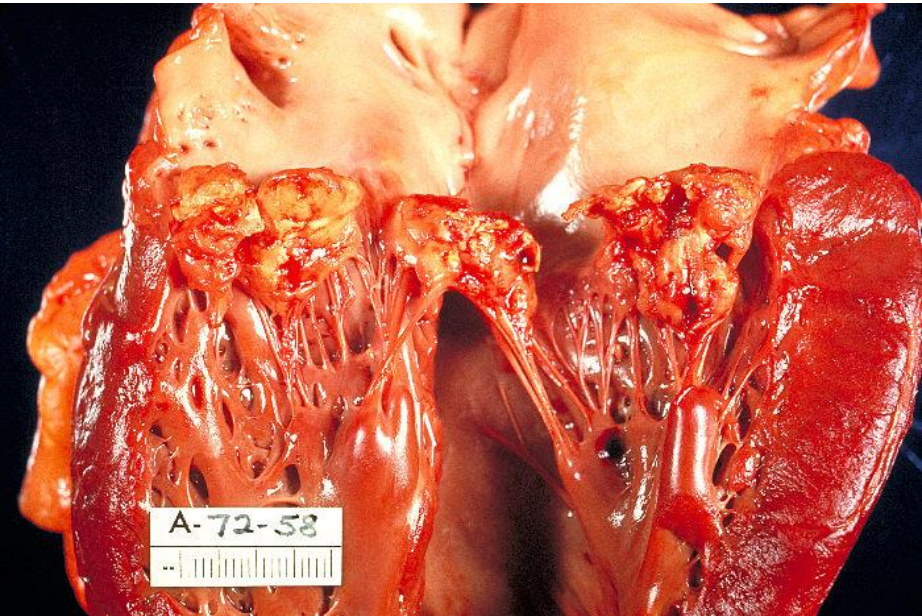
- **2021 is of grave concern**



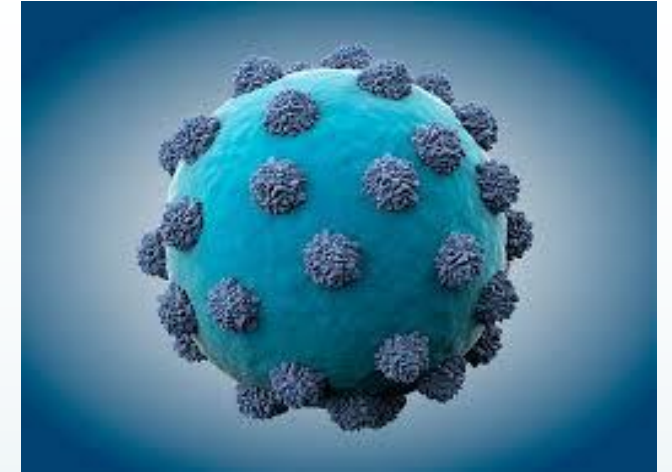
OUTCOMES:

- Overall poorer health status
- Infections (skin, heart, bones)
- Hepatitis C, HIV
- Trauma (MVA)
- Violence
- Death
- Neonatal opioid withdrawal
- Crime and cost of policing, incarceration (theft, prostitution)
- Reduced education and employment rates
- Increased family dysfunction and apprehensions (CFS)
- Higher societal burden (social assistance and taxation)
- Increased Health Care Costs

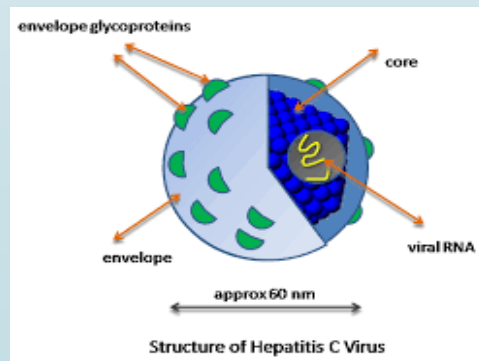
Cellulitis, abscesses, infective endocarditis, osteomyelitis in IDU population



Hepatitis C



Almost all HCV transmission is by parenteral or percutaneous exposure to HCV-infected blood (5). In economically developed countries, most new HCV infections are related to illicit injection drug use (6). Non-injecting drug use (e.g., through sharing of inhalation equipment for cocaine) is also associated with a higher risk of HCV infection (9). HCV may be transmitted by other percutaneous exposures not associated with drug use (e.g., tattooing or syringe reuse) (6).



In 2019, there were 121 new cases of HIV reported in Manitoba, equating to a 13.1% increase compared to last year.

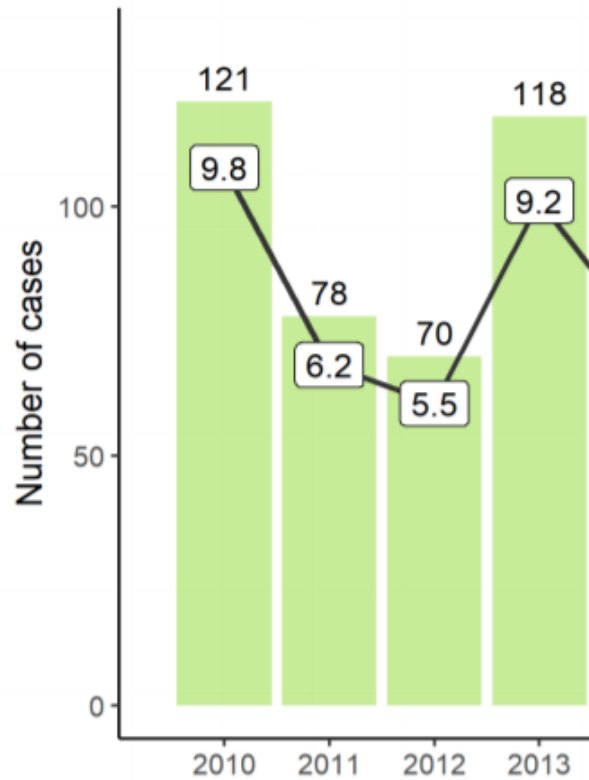


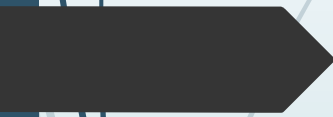
Figure 1. Annual number and crude rate of

12.5

The PWID category is a growing concern in terms of the risk of HIV transmission in Manitoba:

- PWID was the primary risk exposure category for almost half (49.1%) of all females.
- The year 2019 was the first time the PWID risk exposure category was more commonly reported among males than MSM.
- Of the 44 cases whose primary risk exposure was PWID, 43 were newly diagnosed in Manitoba, only one was an introduced case.

DISORDER
TENSION
AWARENESS
NERVOUS
DEPRESSION
STRESS
FEAR
DESPAIR
TEMPER
DEPRESSION
AGITATION
INSOMNIA
WORRY
PTSD
ANXIETY
FRUSTRATION
SCARED
WITHDRAWAL
FAILURE
HEADACHE
OVERWHELMED
LONLINESS
NEGATIVE
MOOD
NEGATIVE
PANIC
FATIGUE





Harm Reduction vs Abstinence



Harm Reduction

Harm reduction is a set of practical strategies and ideas aimed at **reducing** negative consequences associated with drug use. **Harm Reduction** is also a movement for social justice built on a belief in, and respect for, the rights of people who use drugs.

Harm Reduction Programs

CLEANS – ex. Street Connections

Supervised injection sites – ex. Insite (Vancouver)

Naloxone kits

Opiate Agonist Therapy

A Large Demand for OAT in Manitoba

Despite continued efforts to expand treatment access across Canada, it has been estimated that only 25% of individuals with an opioid use disorder are enrolled in an OAT program

Treatment utilization rates in Canada are lower than in most Western European countries

In Manitoba, wait times for Winnipeg programs range anywhere from a couple days to weeks.

Settings for OAT service delivery

OAT can be prescribed in several different settings, including:

Specialty addiction clinics/RAAM clinics

OAT clinics

Community health centres

Private medical practice

Treatment centres

In-patient

Corrections

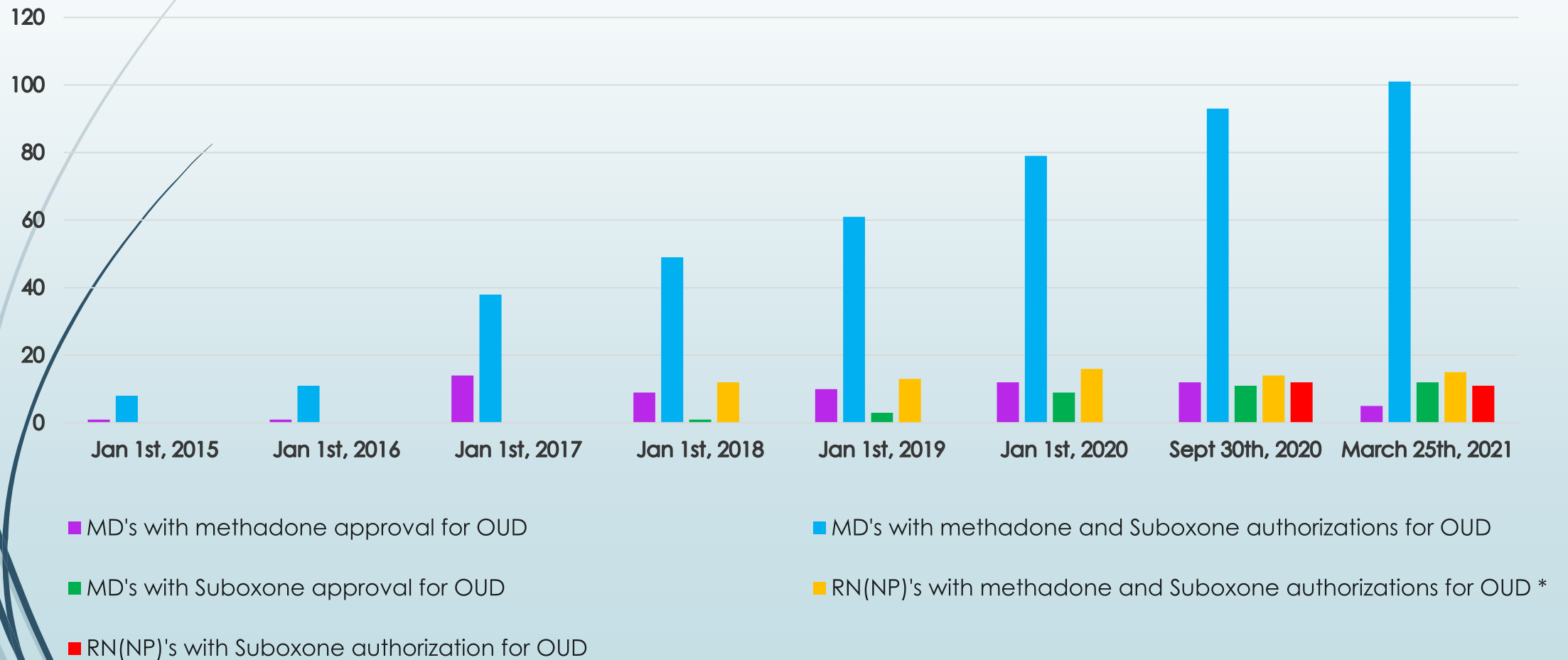
The appropriateness of a particular setting depends largely on patient characteristics at intake (e.g., pattern/length of use, health needs, social needs)

Evidence indicates that patients can improve in any setting

Continuity of treatment from setting to setting is essential.

We are making progress!

Manitoba OAT Prescribers



GOALS OF OAT

- reduce the harmful and risky use of opioids
- reduce the spread of infectious diseases like HIV and Hepatitis C
- reduce crime rates associated with opioid use
- improve social functioning of clients (employment, education, personal relationships)
- lead to access of other services, including health care and rehabilitation
- Improve overall health

Benefits of OAT

Compared to those with an OUD & NOT receiving treatment, patients treated with OAT will:

- Reduce use of opioids;
- Spend less time involved in criminal activities;
- Reduce injecting and injection related risky behaviours;
- Reduce risk of contracting or transmitting HIV, STIs & hepatitis;
- Improve physical and mental health;
- Improve relationships with others;
- Increase chances of employment;
- Improve quality of life; and
- Significantly reduced death rate



Economic benefit

Barriers to OAT

A number of factors present barriers to accessing services:

- Wait times for programs
- Travel (rural/remote communities)
- Limited number of prescribers
- No OAT services available in region
- Lack of child care
- Misconceptions about OAT
- Stigma

