



Best-Practices in  
ORAL OPIOID AGONIST  
THERAPY Collaborative



***Teams at the frontlines of the  
opioid crisis are driving system  
change to improve care***

Tuesday, November 21

0800-0900h

# Speaker

## Cole Stanley, MD, CCFP

Medical Lead, BOOST Collaborative

Medical Lead, Continuous Quality Improvement, Vancouver Coastal Health (VCH) Community

Family Physician, Raven Song Community Health Centre, VCH

Family Physician, John Ruedy Immunodeficiency Clinic, St. Paul's Hospital



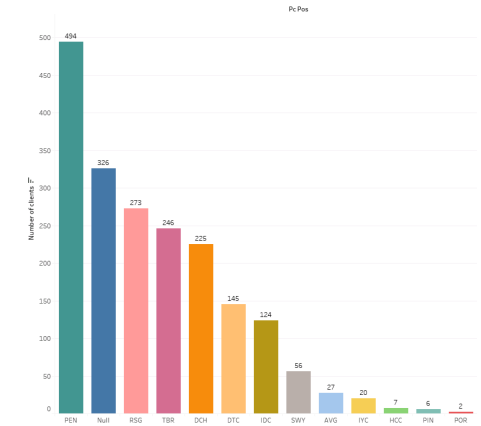
# Disclosures

- Travel grants received for conference attendance from the following
  - 2017 – Gilead Sciences
  - 2016 – Canadian Association for HIV Research (with support from Viiv), Gilead Sciences
- Mitigating bias
  - No discussion of HIV or Hep C therapy in today's talk
- Data and graphs tend to excite me a tad more than the norm (according to some colleagues)

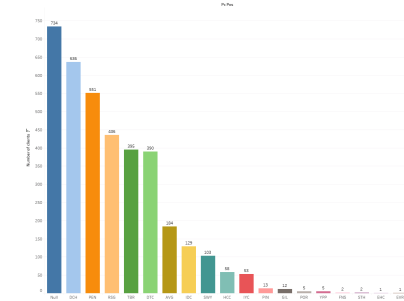
# Disclosures

*Oh look, there's Cole nerding out with those graphs again!*

304.0 Population of Focus



Baseline POF (Keywords in Problem List)



# Outline

- There is an [opioid crisis](#)
- A view from the frontlines
- Drivers of the crisis
  - [Internal](#) vs. external
- System gaps
- How do we fix these?
  - What works according to research?
  - How do we translate that scientific knowledge into practice?
- What progress are we making?
- What are the broader implications for this work?

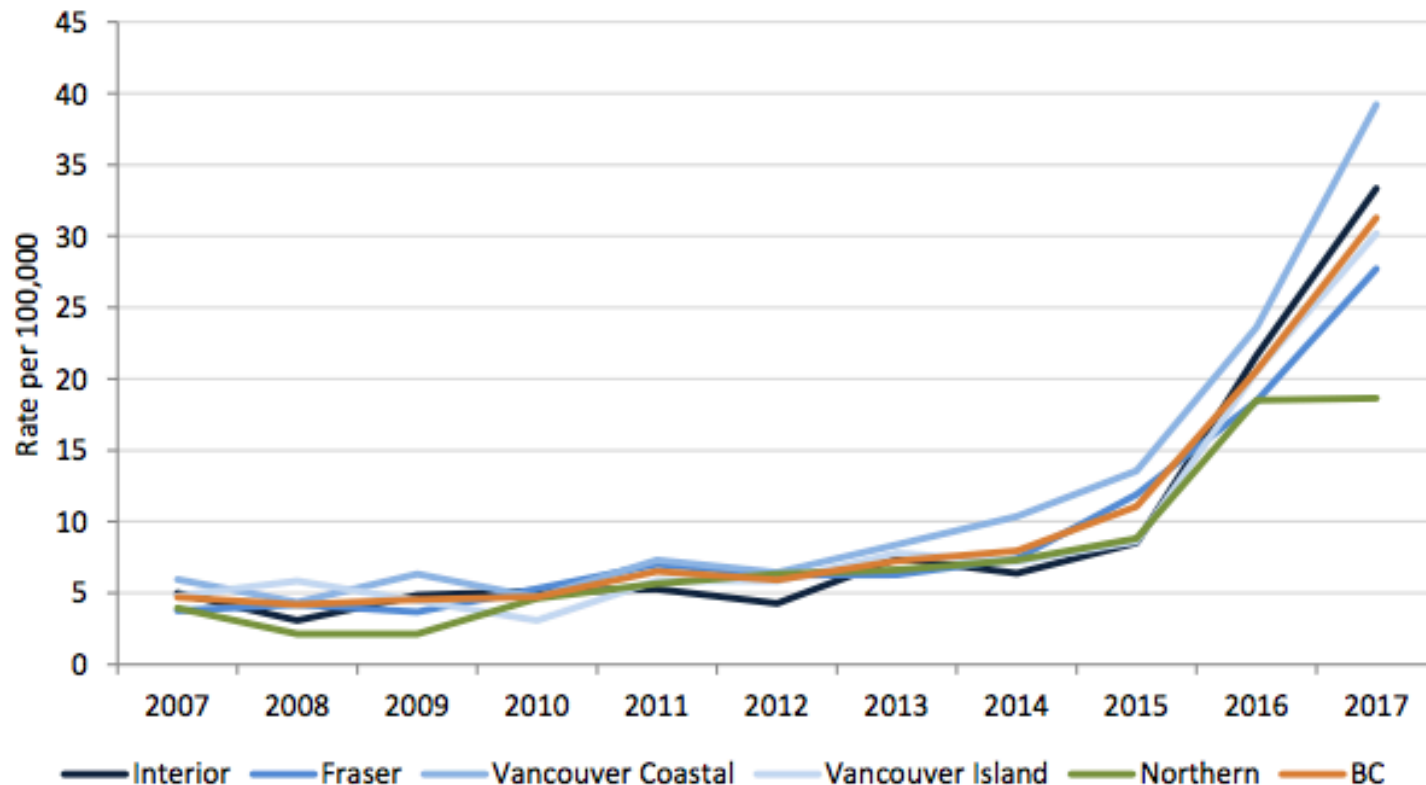


# Objectives

- What is the BOOST Collaborative?
  - Aims
  - Measures
  - Change Ideas
  - Structure
  - Team involvement
  - Teams using QI methods (Model for Improvement)
- Importance of standardizing clinical data entry
- Things to think about:
  - How does this work relate to YOUR daily practice?
  - How could you apply QI and The Model for Improvement to care gaps in your own clinic setting?
  - What other clinical topics might be ready for a Collaborative approach?

# The current opioid crisis

Illicit Drug Overdose Death Rates by Health Authority, 2007-2017



# Patient - Jake

- Pleasant male in 50s, history of opioid use disorder but reports being clean for past few years
- Suffers with chronic low back pain, but reports NSAIDs having some effect
- Working part-time and enjoys being productive, has goals to visit family in other province
- Call from coroner, found dead of suspected OD, fake “oxys” that are likely fentanyl are found on scene



# Patient - Paul

- Another pleasant male in his 40s, history of HIV, active hepatitis C, and opioid use disorder (previously on methadone), although does not report recent use
- Back to work, attending HIV clinic appointments, motivated to get curative hepatitis C therapy
- Start hep C treatment, but only 1.5 weeks in, his primary doc informs me that he died of OD

# Patient - Dan

- Male in his 20s, HIV+ MSM, quite marginalized, living on street
- History of alcohol and stimulant use, with recent onset of opiate use
- Difficulty with engagement
- One failed Suboxone start
- Expresses desire to STOP HIV outreach team to get off opiates and go to detox
- Found dead of OD only a few days later

# Patient - Sabrina

- Female in her 20s, using opiates for past year or two, otherwise healthy
- We get her on Suboxone a few times
- Work schedules conflict with her clinic appointments, and she misses some
- Reverts to opiate use, but we manage to get her restarted on Suboxone 8mg
- Picks up supply with a friend then they go to their separate homes and use – he doesn't wake up
- One of the first deaths linked to carfentanil

# Patient - Alex

- Male around my age
- Seen on weekend at Raven Song
- Comes in disheveled, no shoes, living on street, desperate to get off opiates
- Difficulties with engagement in past, some history of incarceration
- A slow clinic day, so I spend one hour with him, confident that at the end he will take his new methadone rx to the pharmacy and start
- Pharmanet check the next day – rx was never filled

# Looking back at these cases

- My initial reactions...
  - What could I have done for better patient outcomes?
  - How could I have prevented this?
- After some time and rational thinking...
  - I was but one part of the complex healthcare system and society these patients were trying to maneuver in
  - How can we change the system to get better outcomes for people like this?

# What is driving this crisis?

- External factors
  - Poisoned drug supply (predominantly fentanyl)
  - Harmful drug laws
  - Public health vs. Law enforcement approaches
  
- Internal factors – our focus
  - *What we CAN change, starting now*

What is driving this crisis?



# The Opioid Overdose Crisis

**A call for better access to care for people who use drugs**

**INHSU 2017**



6th International Symposium on Hepatitis Care in Substance Users

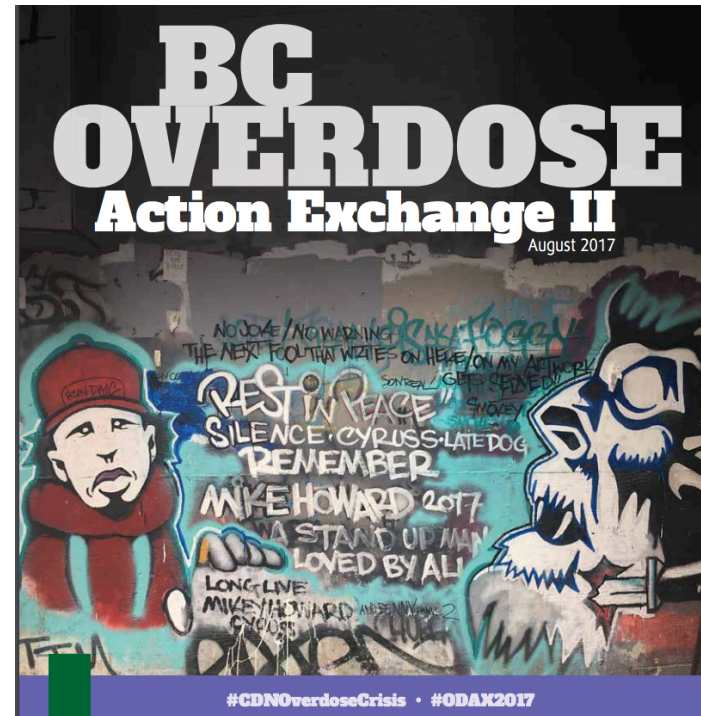
Mark Tyndall, MD, ScD  
Executive Medical Director, BCCDC  
Professor, UBC School of Population &  
Public Health



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# What can be done?

-  Engage peers in program development and leadership
-  Address contamination of the drug supply
-  Support appropriate pain management therapies
-  Build on the success of Overdose Prevention Sites
-  Expand and improve addiction treatment
-  Align law enforcement efforts with public health
-  Reform drug laws
-  Address structural barriers and upstream factors
-  Counter stigma against people who use drugs
-  Implement targeted research, surveillance and evaluation initiatives





# What can our frontline teams start doing NOW?



Engage peers in program development and leadership



Address contamination of the drug supply



Support appropriate pain management therapies



Build on the success of Overdose Prevention Sites



Expand and improve addiction treatment



Align law enforcement efforts with public health



Reform drug laws



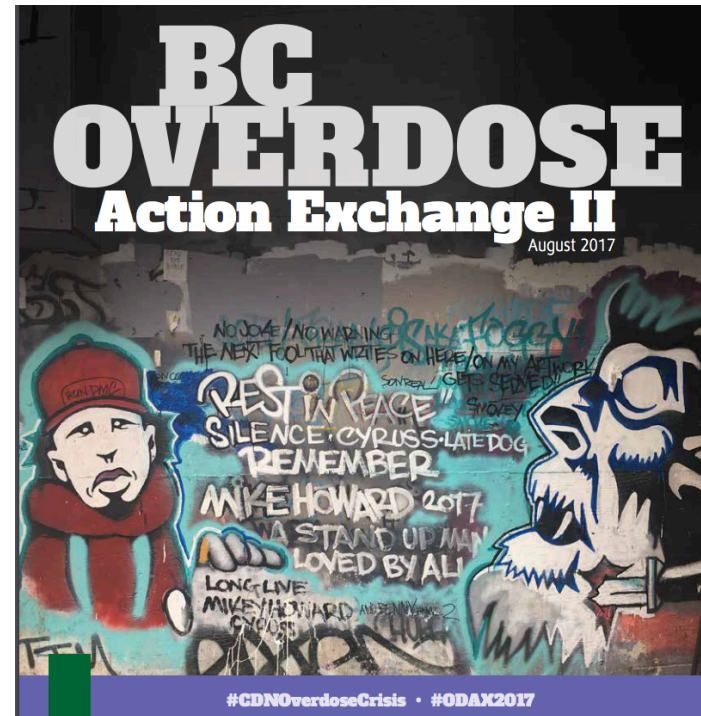
Address structural barriers and upstream factors



Counter stigma against people who use drugs



Implement targeted research, surveillance and evaluation initiatives



# System gaps

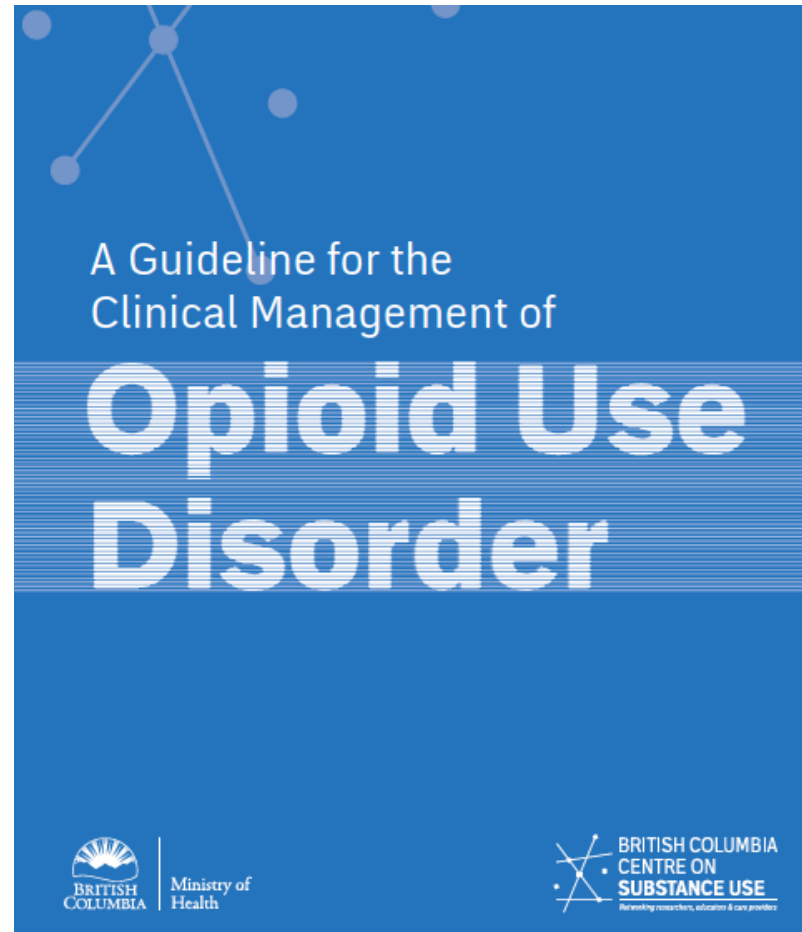
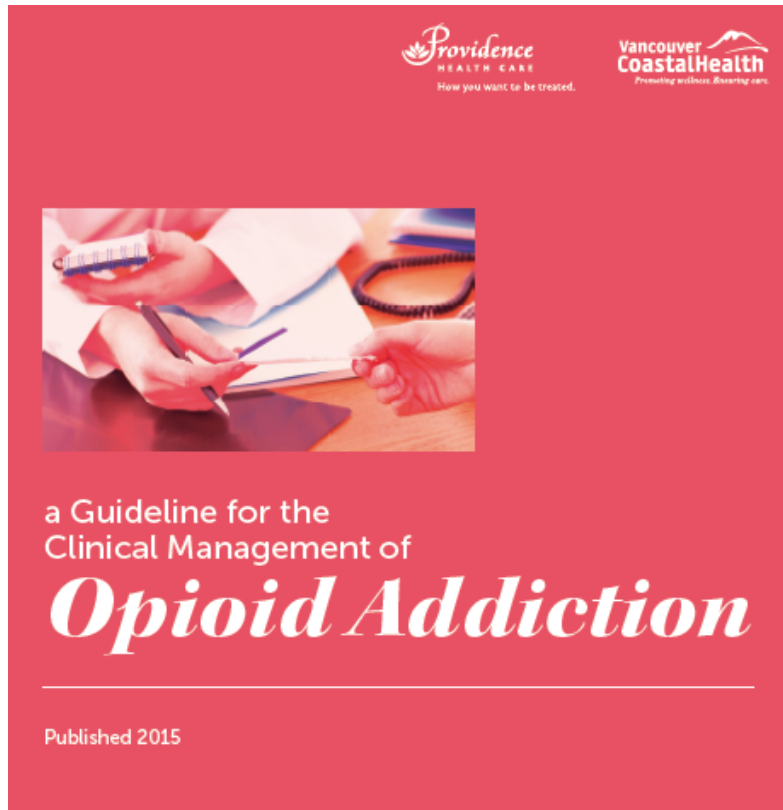
- Ask the patient
- Ask the family
- Ask the frontline staff

➤ *Inevitably a long list is created...*

*System opportunities*

# What does research tell us

*The science exists...*




# What does research tell us

## Outcomes associated with methadone and buprenorphine

- Treatment retention
- Withdrawal suppression
- Decreased illicit opioid (and cocaine) use
- Reduced risk of HCV/HIV
- Increased antiretroviral adherence, lower HIV viral load
- Decreased criminal activity
- Significantly reduced mortality (both all-cause and substance-related)

# What does research tell us

 OPEN ACCESS

## Mortality risk during and after opioid substitution treatment: systematic review and meta-analysis of cohort studies

Luis Sordo,<sup>1,2,3</sup> Gregorio Barrio,<sup>4</sup> Maria J Bravo,<sup>1,2</sup> B Iciar Indave,<sup>1,2</sup> Louisa Degenhardt,<sup>5,6</sup> Lucas Wiessing,<sup>7</sup> Marica Ferri,<sup>7</sup> Roberto Pastor-Barriuso<sup>1,2</sup>

<sup>1</sup>National Centre for Epidemiology, Carlos III Institute of Health, Madrid, Spain

<sup>2</sup>Consortium for Biomedical Research in Epidemiology and Public Health (CIBERESP), Madrid, Spain

<sup>3</sup>Department of Preventive Medicine and Public Health, Faculty of Medicine, Complutense University, Madrid, Spain

<sup>4</sup>National School of Public Health, Carlos III Institute of Health, 28029 Madrid, Spain

<sup>5</sup>National Drug and Alcohol Research Centre, University of

### ABSTRACT

#### OBJECTIVE

To compare the risk for all cause and overdose mortality in people with opioid dependence during and after substitution treatment with methadone or buprenorphine and to characterise trends in risk of mortality after initiation and cessation of treatment.

#### DESIGN

Systematic review and meta-analysis.

#### DATA SOURCES

Medline, Embase, PsycINFO, and LILACS to September 2016.

#### STUDY SELECTION

out of buprenorphine treatment (2.20, 1.34 to 3.61). In pooled trend analysis, all cause mortality dropped sharply over the first four weeks of methadone treatment and decreased gradually two weeks after leaving treatment. All cause mortality remained stable during induction and remaining time on buprenorphine treatment. Overdose mortality evolved similarly, with pooled overdose mortality rates of 2.6 and 12.7 per 1000 person years in and out of methadone treatment (unadjusted out-to-in rate ratio 4.80, 2.90 to 7.96) and 1.4 and 4.6 in and out of buprenorphine treatment.

#### CONCLUSIONS

Retention in methadone and buprenorphine treatment is associated with substantial reductions in the risk for all cause and overdose mortality in people dependent on opioids. The induction phase onto methadone treatment and the time immediately after leaving treatment with both drugs are periods of particularly increased mortality risk, which should be dealt with by both public health and clinical strategies to mitigate such risk. These findings are potentially important, but further research must be conducted to properly account for potential confounding and selection bias in comparisons of mortality risk between opioid substitution treatments, as well as throughout periods in and out of each treatment.

#### Introduction

Opioid dependence is a rising drug use disorder with substantial contribution to the global disease burden. The absolute number (age standardised prevalence) of people with opioid dependence worldwide increased from 10.4 million (0.20%) in 1990 to 15.5 million (0.22%)

Retention in methadone and buprenorphine is associated with substantial reductions in the rate of all cause and overdose mortality

The induction phase and the time immediately after leaving treatment with both drugs are periods of particularly increased mortality risk.

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22 885 people  
s and 15 831  
1-4.5 years.  
and 36.1 per

Accepted: 17 March 2017

1000 person years in and out of methadone treatment (unadjusted out-to-in rate ratio 3.20, 95% confidence interval 2.65 to 3.86) and reduced to 4.3 and 9.5 in and



# System gaps/opportunities

## BC OPIOID SUBSTITUTION TREATMENT SYSTEM

*Performance Measures  
2014/2015 - 2015/2016*



**Office of the Provincial Health Officer**

**With contributions by:**

Medical Beneficiary & Pharmaceutical Services Division &  
Population and Public Health Division  
British Columbia Ministry of Health

**March 2017**



Office of the  
Provincial Health Officer



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# System gaps/opportunities

Figure 15a. Percentage of People Started on Methadone Maintenance Treatment Retained at 6 Months, by Health Authority, BC, 2009/2010 to 2014/2015

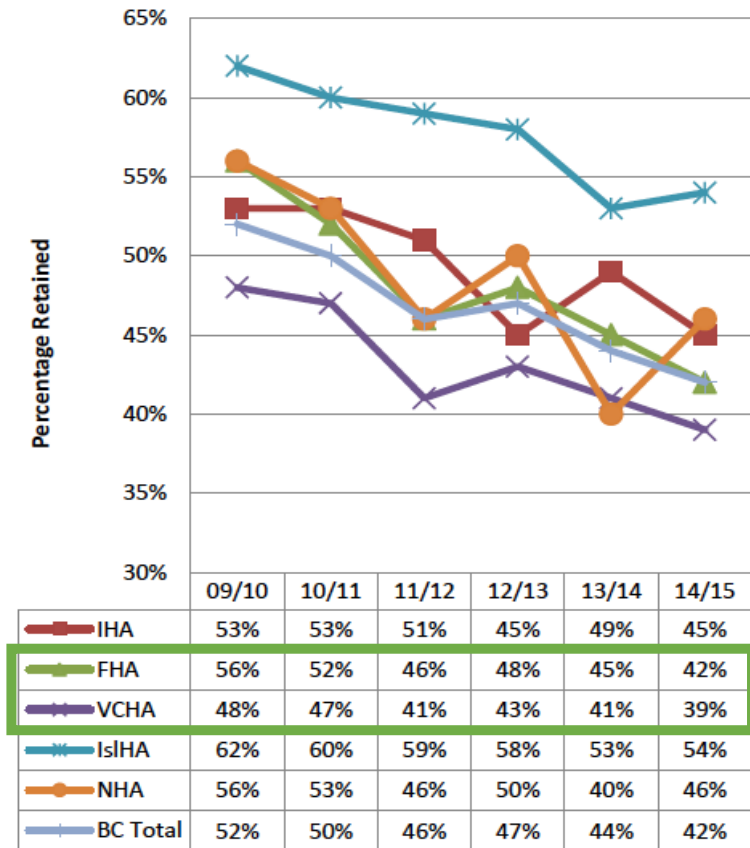
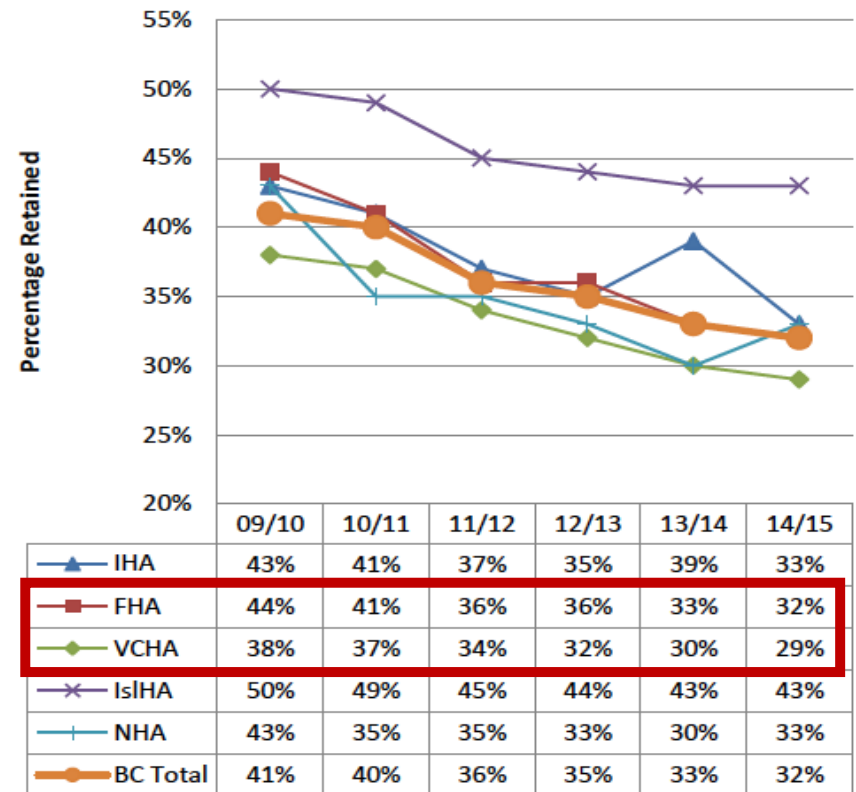
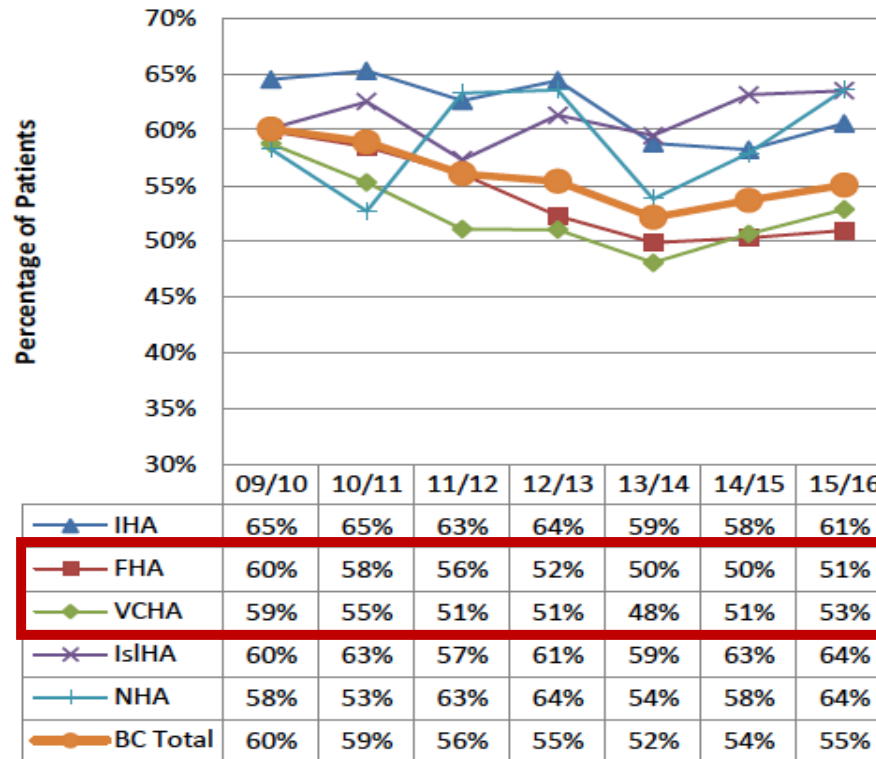


Figure 15b. Percentage of People Started on Methadone Maintenance Treatment Retained at 12 Months, by Health Authority, BC, 2009/2010 to 2014/2015<sup>h</sup>




# System gaps/opportunities

*Figure 14. Percentage of Patients Receiving a Stabilization Dose of Methadone >60 mg, by Health Authority, BC, 2009/2010 to 2015/2016*





# How do we fix this?

- Use a “Collaborative” approach
- It’s been done before
  - HIV Collaborative in B.C. 
  - NIATx Collaborative



- Many more in the literature

## Implementation of HIV treatment as prevention strategy in 17 Canadian sites: immediate and sustained outcomes from a 35-month Quality Improvement Collaborative

Christina M Clarke,<sup>1</sup> Tessa Cheng,<sup>2</sup> Kathleen G Reims,<sup>3</sup> Clemens M Steinbock,<sup>4</sup> Meaghan Thumath,<sup>5,6</sup> Robert Sam Milligan,<sup>7</sup> Rolando Barrios<sup>1,8</sup>

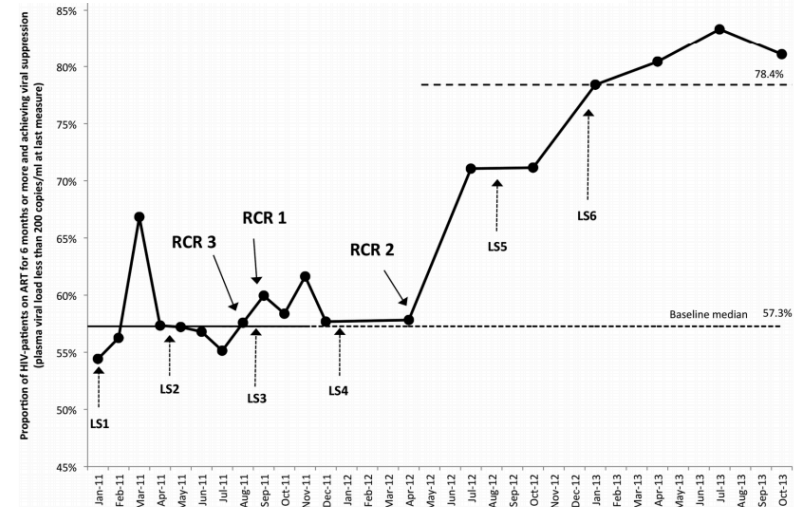
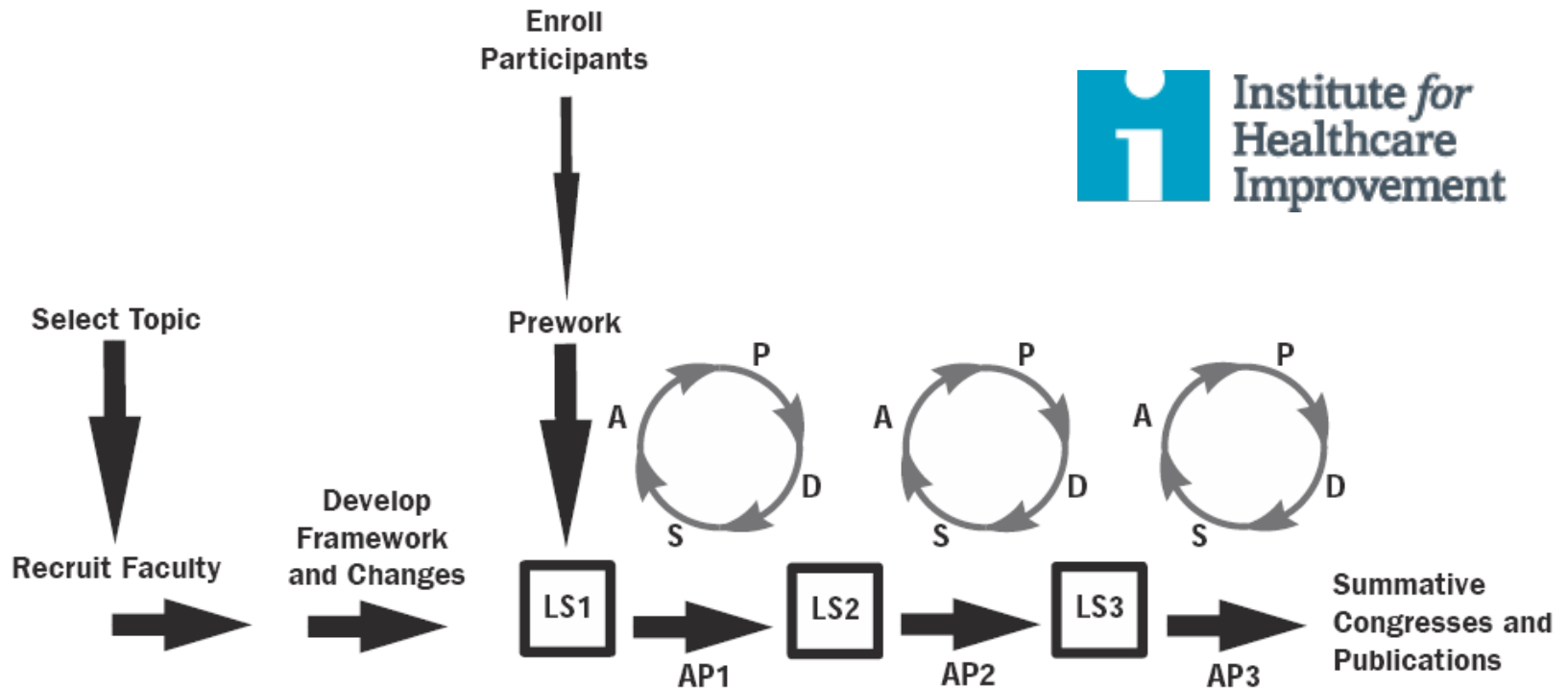


Figure 5 Antiretroviral therapy (ART) uptake for  $\geq 6$  months and achieving viral suppression. LS, learning session; RCR, run chart rule.

# Structured Learning Collaborative



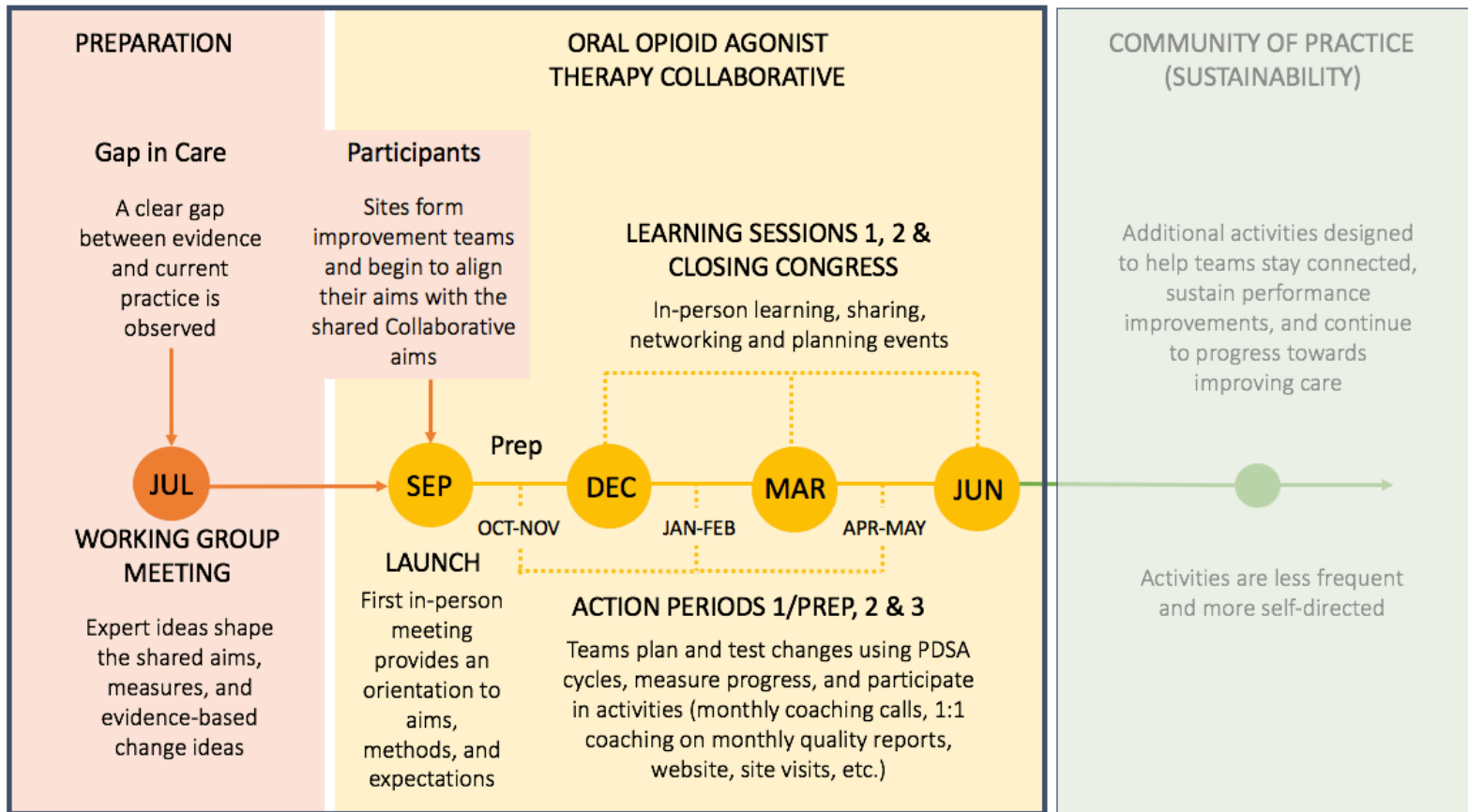
LS1: Learning Session  
 AP: Action Period  
 P-D-S-A: Plan-Do-Study-Act

**Supports:**  
 Email • Visits • Phone Conferences • Monthly Team Reports • Assessments

<http://www.ihl.org/resources/pages/ihlwhitepapers/thebreakthroughseriesihiscollaborativemodelforachievingbreakthroughimprovement.aspx>



# BOOST Collaborative



Adapted from The Breakthrough Series: IHI's Collaborative Model for Achieving Breakthrough Improvement. IHI Innovation Series white paper. Boston: Institute for Healthcare Improvement; 2003. (Available at IHI.org)

# BOOST Collaborative – Core Team



## **Danielle Cousineau, RN**

Quality Improvement Consultant, BC Centre for Excellence in HIV/AIDS

## **Cole Stanley, MD**

Medical Lead, Continuous Quality Improvement, Vancouver Coastal Health (VCH) Community

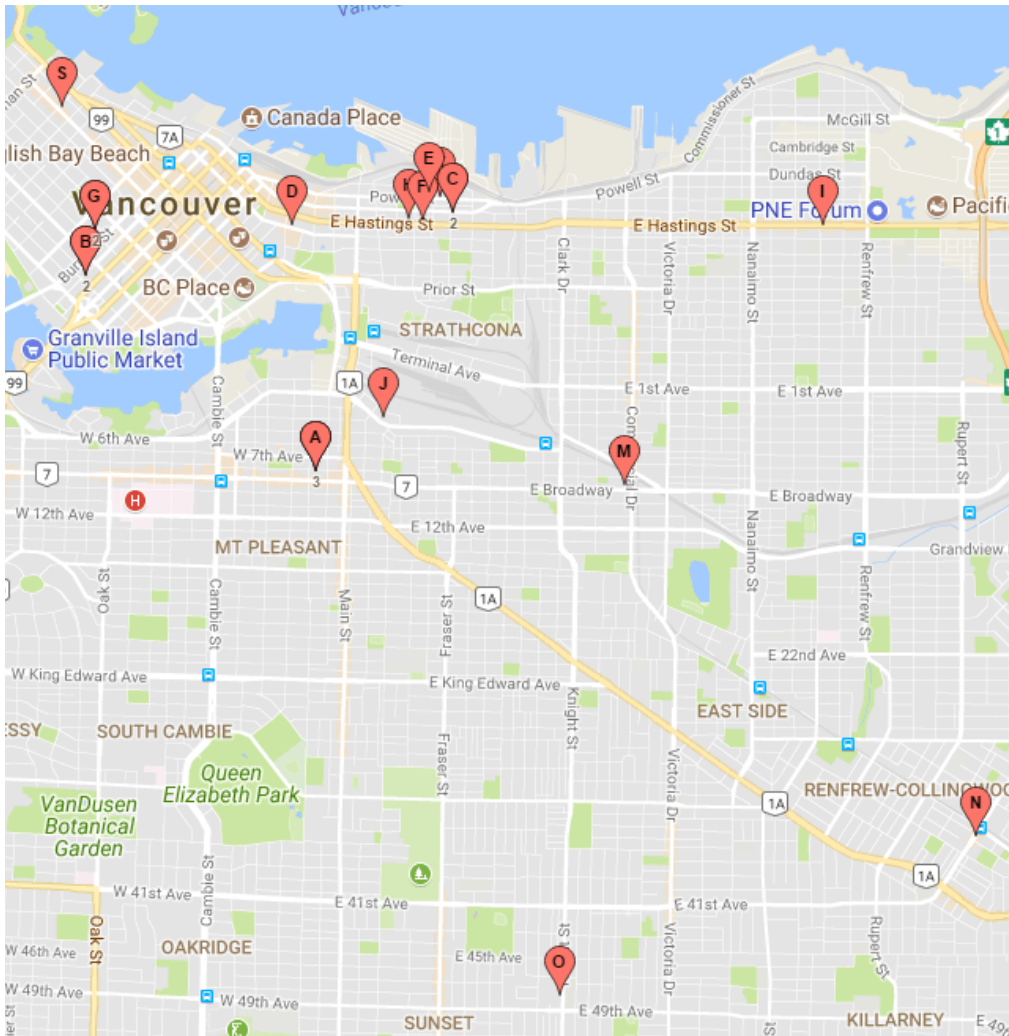
## **Laura Beamish, MSc**

Quality Improvement Coordinator, BC Centre for Excellence in HIV/AIDS

## **Angie Semple**

Program Assistant, BC Centre for Excellence in HIV/AIDS

# BOOST Collaborative Teams



- A - Raven Song Primary Care
- B - Three Bridges Primary Care
- D - Pender Community Health Centre
- E - Downtown Community Health Centre
- F - Sheway
- G - Immunodeficiency Clinic
- H - Vancouver Native Health Society
- I - Reach Community Health Centre
- J - Vancouver Detox
- K - DTES Connections
- L - Rapid Access and Assessment Centre
- M - Substance Use Treatment and Response Team
- N - Evergreen Substance Use
- O - South Substance Use
- P - Three Bridges Substance Use
- Q - Raven Song Substance Use
- S - West End Mental Health
- T - Raven Song Mental Health

# BOOST Collaborative

- Launched in September with engaged leadership



**B.C. support plan for opioid users modelled after HIV/AIDS strategy**



Rolando Barrios, assistant director at the BC-CfE and senior medical director at Vancouver Coastal Health, estimates the program will reach about 3,000 patients in Vancouver currently receiving suboptimal treatment.



# BOOST Collaborative

- **Goal – data-driven improvement at the frontlines**
  - **Specifically - Improving the care of our clients living with opioid use disorder**
  - **Uses QI and The Model for Improvement**
- **Other benefits**
  - Collaboration and pooled resources and expertise
  - Chance for advocating for broader system changes

# QI and The Model for Improvement

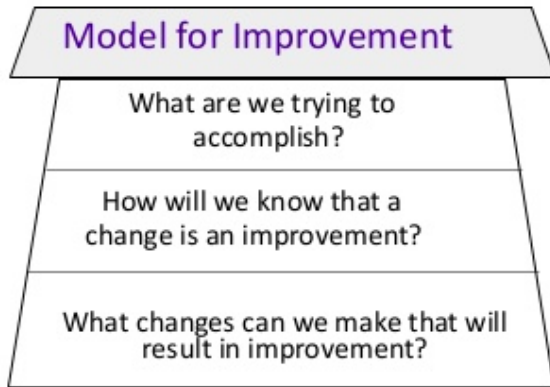
- What are our teams actually doing
  - PDSA cycles
  - Monthly quantitative and narrative reports



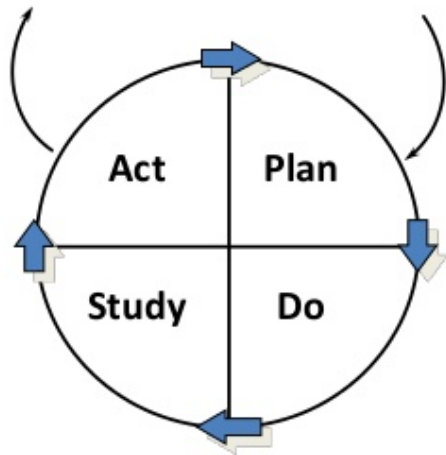
- Reduce lag from guideline to implementation
- Not enough time to follow all guidelines for our complex patients
  - Need to change the system
  - Team-based care



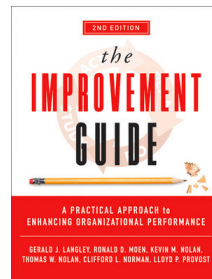
# QI and The Model for Improvement



← Aims  
 ← Measurements  
 ← Change ideas



← Testing ideas before implementing changes



*The Improvement Guide*  
 Langley et al (1996)

**Change Package**

**Guide to Measurement**

Intr		
Gui		
Tip		
Aim		
Aim		
Ref		
Pro		
Cha		

Guide to Measurement	1
Overview	3
Summary of Quality Improvement Measures	4
What do we measure for improvement?	5
Step 1 – Decide your aim	5
Step 2 – Choose measures	7
Step 3 – Confirm how you will collect your data	7
Step 4 – Compile, present, and report your data	8
Step 5 – Analyze your data to decide what it is telling you	9
Step 6 – Get started!	10
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# QI and The Model for Improvement

## QI is NOT ...

- X Evaluation / Performance Assessment
- X Quality Control
- X Research

## QI is ...

- ✓ A bottom-up approach that employs the frontline team as the drivers for change to the healthcare system they work in
- ✓ A systems approach
- ✓ Where small changes are tested first, then scope and scale are expanded

# Quality Improvement Example

## 4 Optimal Dosing

Proportion of patients who are receiving optimal dose OAT

Aim: Increase proportion of patients on optimal dose

Patients on OAT



■ Patients on optimal dose OAT (50%)

■ Patients not on optimal.. (50%)

# Aim re: Optimal dosing

- **Aim:** We will increase the percentage of our OAT clients on optimal OAT dosing from 50% to 90% over the next six months
- **What?** *Percentage on optimal dosing*
- **For whom?** *OAT clients*
- **By how much?** *50% to 90%*
- **By when?** *Six months from now*

# Change Idea

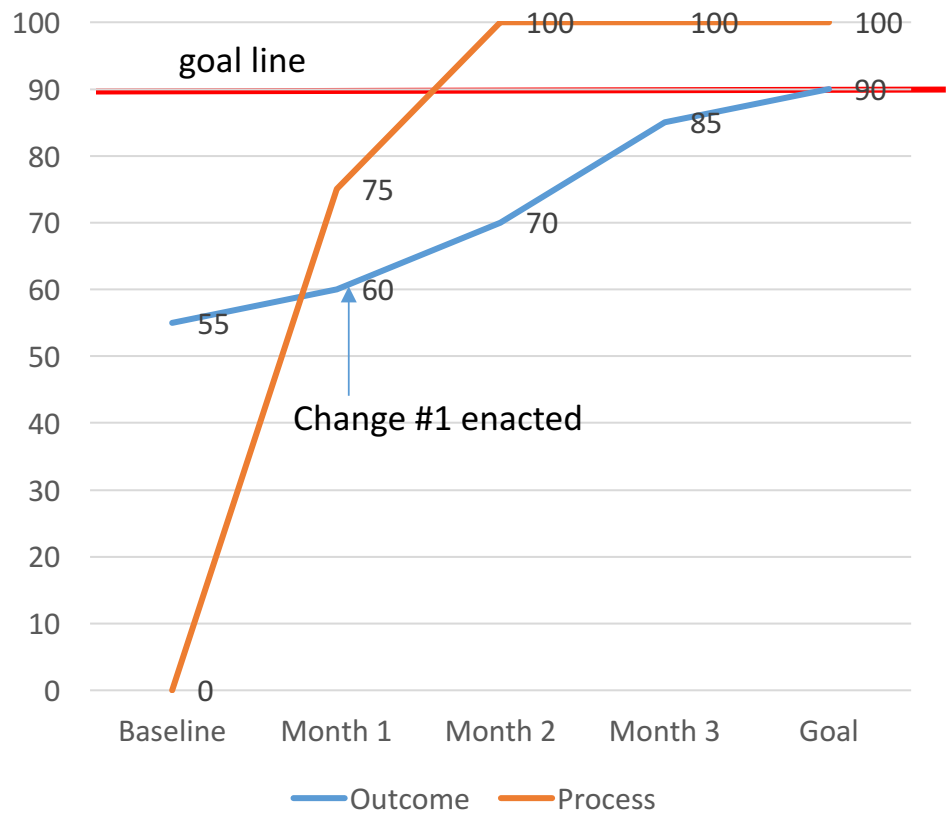
- RN on team runs weekly list of OAT clients and flags those on non-optimal doses for MD/NP review and comment on

# Measures

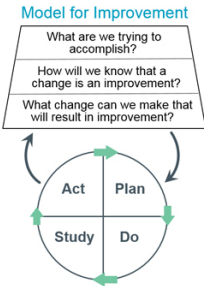
- How will we know that our changes resulted in an improvement?
- **Outcome measures:** what are we trying to achieve?
  - Our example – proportion on optimal dosing
- **Process measures:** Are we doing the right things to get there?
  - Our example - Percentage of weeks that RN actually runs the list
- **Balancing measures:** Are our changes causing problems to other parts of the system?
  - Our example - Time taken to do the work

# Tracking progress

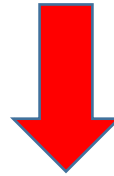
*Run chart*



# PDSA cycles and BOOST



Teams testing changes (PDSA-level measures)



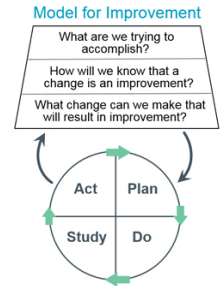
Site-specific aims



Collaborative aims (Collaborative-level measures)



Collaborative outcomes



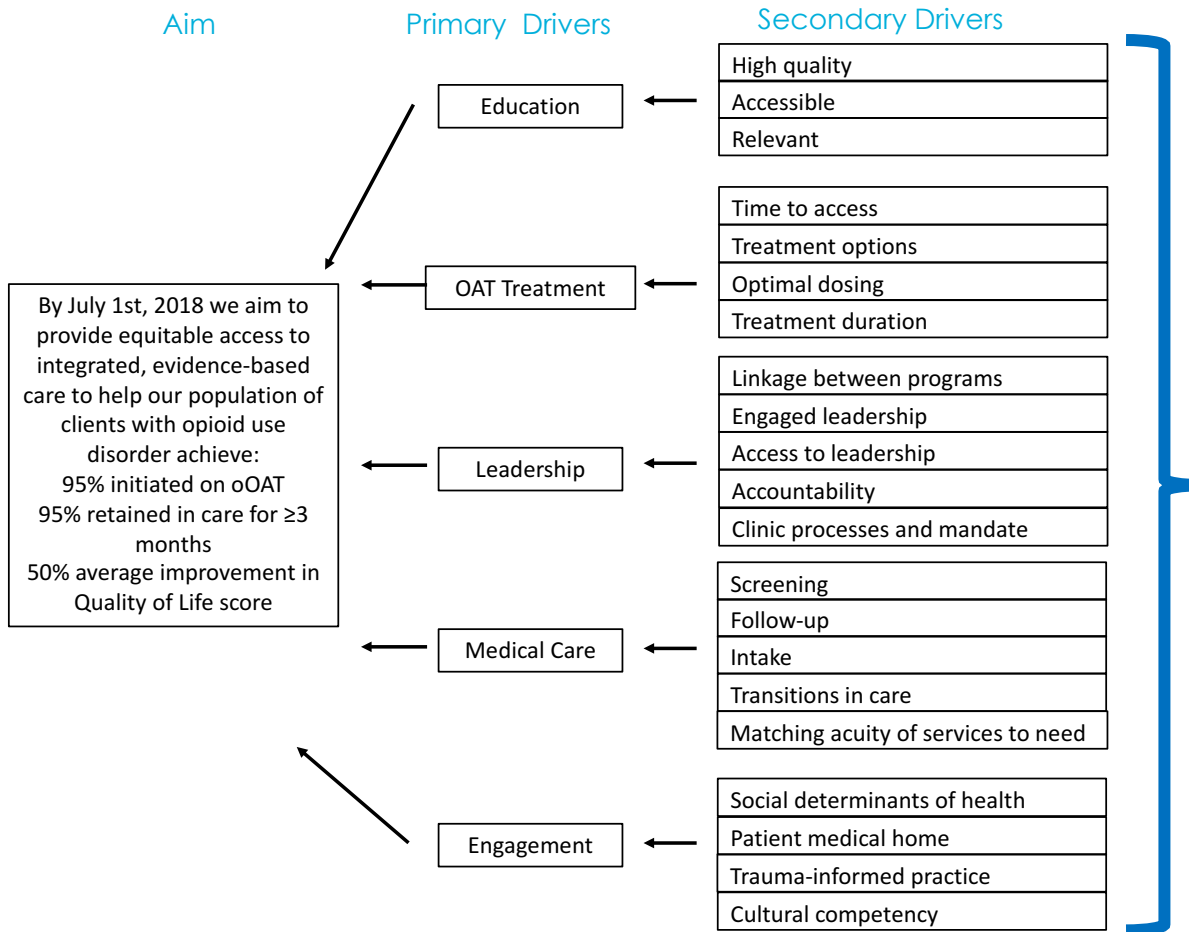


# BOOST Aim Statement

By July 1st, 2018 we aim to provide equitable access to integrated, evidence-based care to help our population of clients with opioid use disorder achieve:

- 95% initiated on oOAT
- 95% retained in care for  $\geq 3$  months
- 50% average improvement in Quality of Life score

# BOOST Driver Diagram



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## Change Package

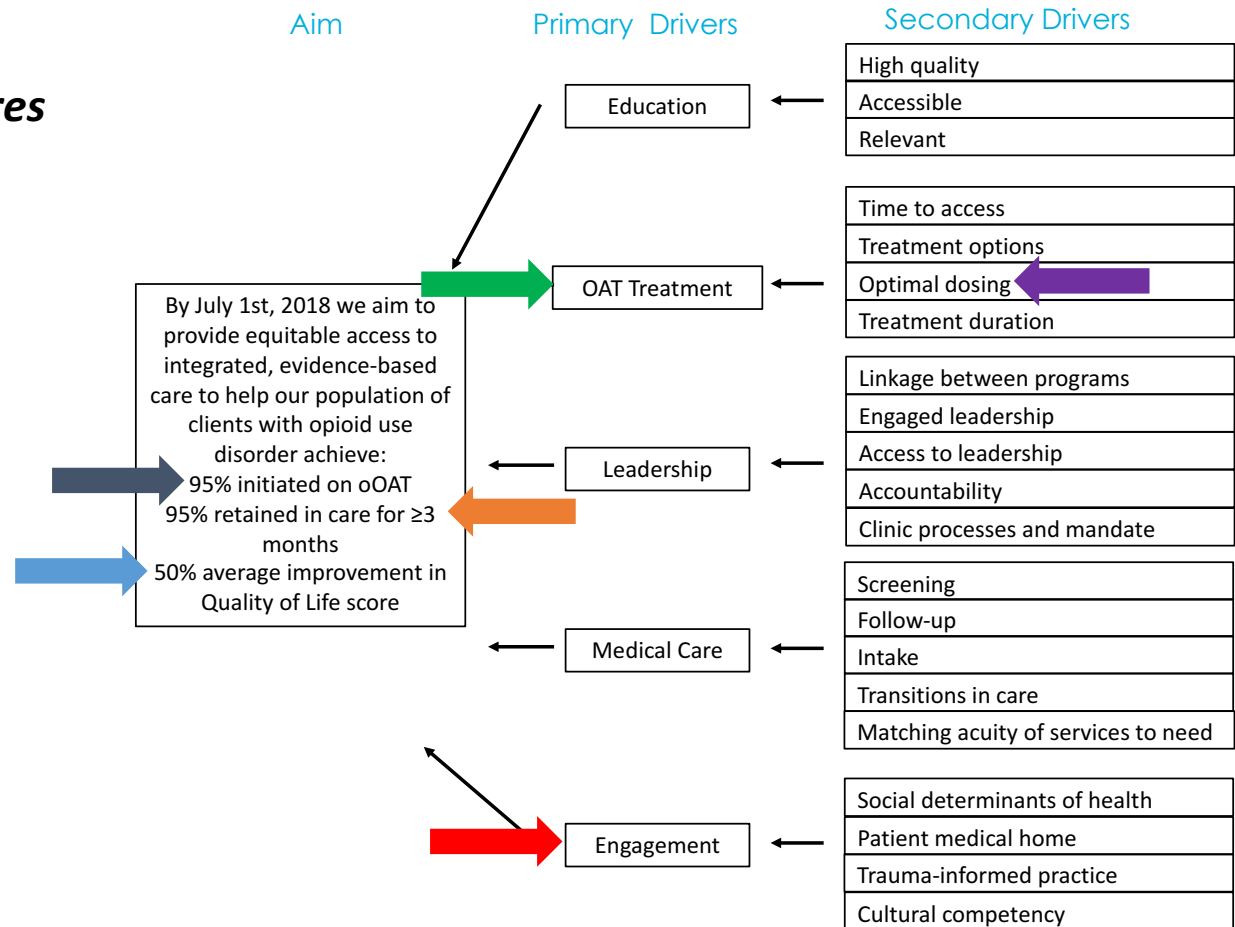
Introduction	1
Guidelines for the Clinical Management of Opioid Use Disorder: Major Recommendations	2
Tips for Effective Treatment	3
Aim Focus 1: Diagnosis and Treatment Initiation	4
Aim Focus 2: Treatment Retention and Optimal Dosing	5
Aim Focus 3: Quality of Life and Bundle of Care	9
References & Resources	12
Proposed Opioid Use Disorder Cascade of Care (Theoretical)	15
Change Idea Evaluation Chart	16
	17

What will it take to reach our aims?

# BOOST Driver Diagram – Measuring Outcomes

## Collaborative-level Measures

- Engagement
- oOAT access
- Active oOAT
- Optimal oOAT dosing
- Retention on oOAT
- Quality of Life score



# But wait, first things first...

- Empanelment – ***Who is our panel of patients?***

- Clinic/Point of Care (In Profile EMR = POS)
- Most Responsible Provider
- Active clients only

Population of Focus

- Accurate Problem Lists – ***Who has OUD?***

- 304.0 Opioid Use Disorder chosen as standard dx code

- **Standardizing clinical data entry**

- OUD form
- Data-driven improvement

*“But I hate EMR forms...”*



# OUD form

*Goal: Use OUD form periodically for all clients with hx of OUD*

Print Print, Save, Close Print This Page

304.04 Opioid Use Disorder (OUD) added to Problem List DSM-5 OUD criteria

Prescription Creator	Last Entry1	Last Entry2
OAT: methadone	11 Sep 2017	11 Sep 2017
Daily dose (mg): 100	110 Qty: 770	100 Qty: 800
Start Day: 12 Sep 2017	19 Sep 2017	11 Sep 2017
Last Day: 18 Sep 2017	25 Sep 2017	18 Sep 2017
Rx Duration (days): 7		
Carry Directions: <input checked="" type="radio"/> DWI <input type="radio"/> CARRIES	DWI	DWI
Witnessed Ingestion: 7 (SEVEN)		
Direction For Use		
<input type="button" value="Copy From Last Entries"/>		
<input type="button" value="Create Rx"/>		

**Treatment course**

Treatment stage: Stable dose

OAT initiation date: 06 Sep 2016

Most recent OAT start date: 12 Apr 2017

Stable dose date: 12 Sep 2017

OAT duration: 153

**Last Lab Results**

AST: No Result Found  
ALT: No Result Found

Hep A IgG  
HCV RNA  
Hep B SAb:

HCV Ab:  
HIV Ab:

Urine beta-HCG

ECG Last done:

**Visit Checklist**

Pharmacist Reviewed  
Any OAT missed doses in last 7 days?  Yes  No  
If yes, describe:

Current substance use reviewed

# OATs in the last 30 days? Last Value? Last date?

Linkage to social work/counseling discussed Last checked:

Has THN kit  
 Has THN training Last checked:  
 Has access to harm reduction supplies Last checked:  
 Aware of supervised consumption sites Last checked:

Last score First score

**Rapid UDS Results** Cumulative View Last UDS Results at 11 Sep 2017

Cocaine:  Positive  Negative  
Amphetamines:  Positive  Negative  
Methadone:  Positive  Negative  
Opioids:  Positive  Negative  
Oxycodone:  Positive  Negative  
Benzodiazepines:  Positive  Negative  
Fentanyl:  Positive  Negative  
Buprenorphine:  Positive  Negative  
Hydromorphone:  Positive  Negative  
Other:

Print Defaults Set Reset 7

**PLEASE PRINT**

PERSONAL HEALTH NO. PRESCRIBING DATE  
12 Sep 2017

PATIENT NAME: GUY ASHMORE  
STREET: 2119 GUELPH ST  
CITY: VANCOUVER PROVINCE: BC DATE OF BIRTH: 27 Apr 2000

Rx: DRUG NAME AND STRENGTH: METHADONE 10 mg/ml  
DUE TO THE PATIENT'S MOBILITY, CARRYING DELIVERY IS REQUIRED

NUMERIC QUANTITY ALPHA: 700 mg SEVEN HUNDRED mg

START DAY: 12 Sep 2017 LAST DAY: 18 Sep 2017

DIRECTIONS FOR USE: METHADONE 100 mg/day 7 (SEVEN)

PHARMACY USE ONLY

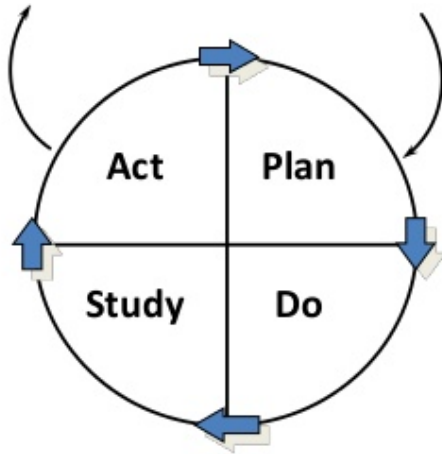
RECEIVED BY PATIENT OR AGENT SIGNATURE SIGNATURE OF DISPENSING PHARMACIST

PHARMACY COPY - COPYING OR DUPLICATING THIS FORM IN ANY WAY CONSTITUTES AN OFFENSE

**PRESS HARD YOU ARE MAKING 2 COPIES**  
PRINTED IN BRITISH COLUMBIA

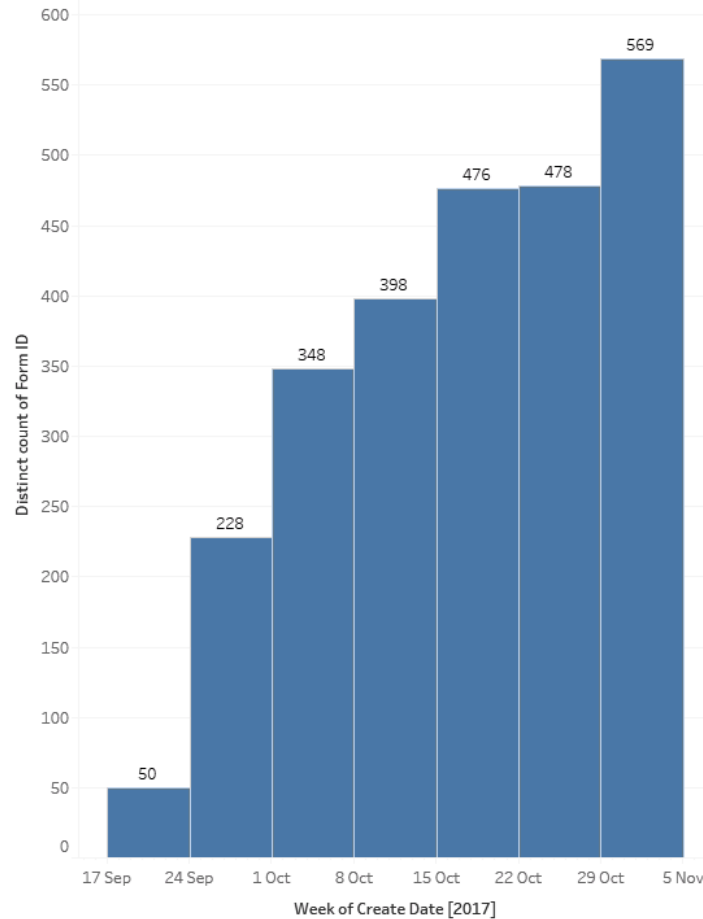
# OOD form

- OOD form PDSAs



*Has been used over 3000 times in just over a month*

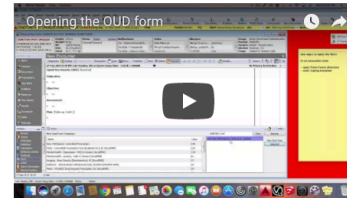
OOD forms created



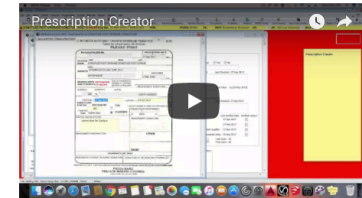
# OUD form

- Profile EMR OUD Form How-To Videos
  - <http://stophiv aids.ca/profile-emr-how-to-videos/>.
- Email us to get the password
  - [boostcollaborative@cenet.ubc.ca](mailto:boostcollaborative@cenet.ubc.ca)

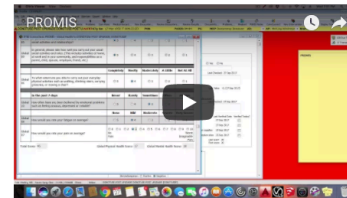
Opening the OUD form



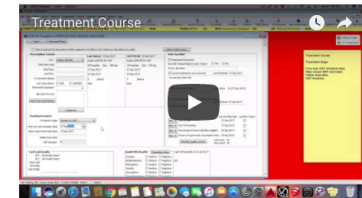
Prescription Creator



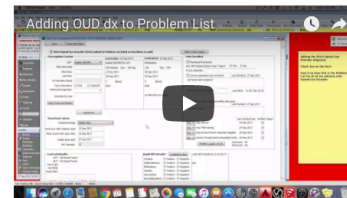
PROMIS



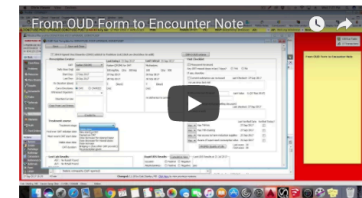
Treatment Course



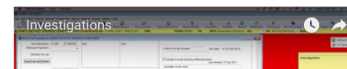
Adding OUD dx to Problem List



From OUD Form to Encounter Note



Investigations

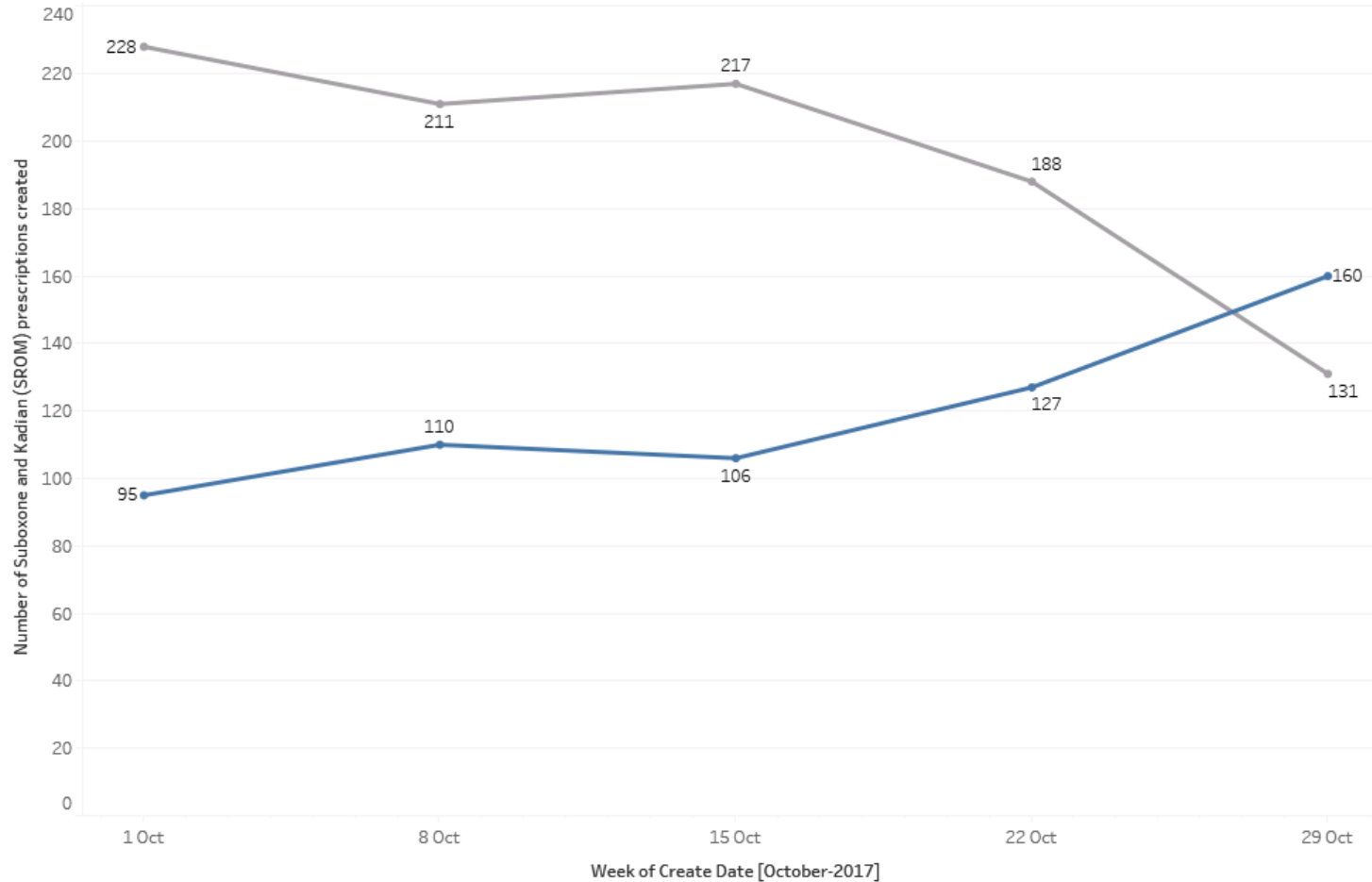


Visit Checklist



# OUD form

Suboxone and Kadian (SROM) prescriptions created using the OUD form (blue) vs. others (grey)

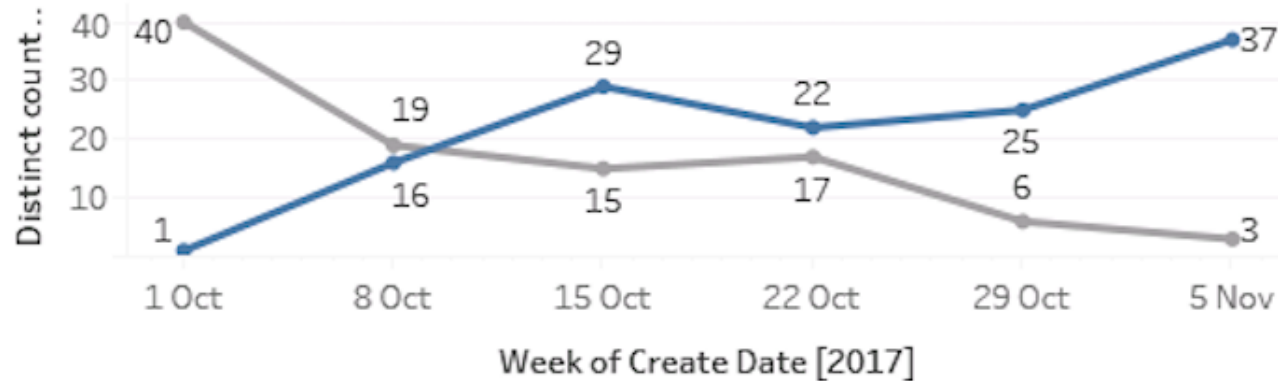


Created with OUD form (IN), without OUD form (OUT)

- In
- Out



# OUD form – A Shining Example



One team with great OUD form uptake shared their advice on the LISTSERV:

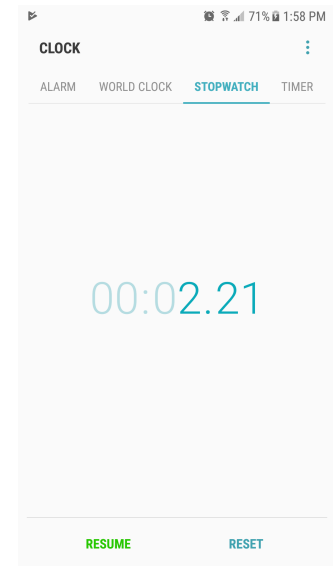
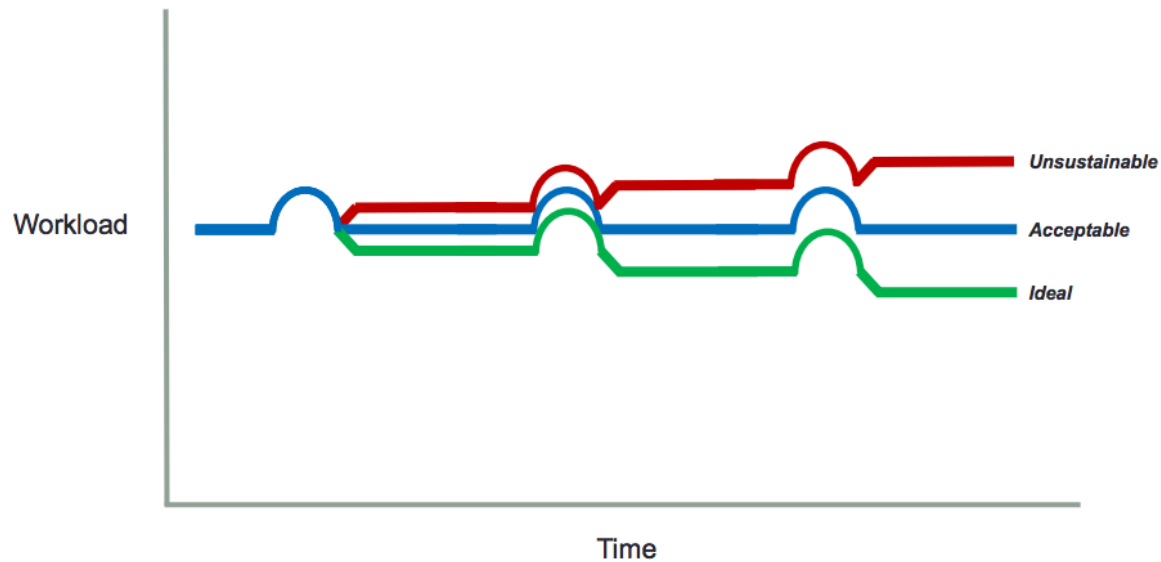
- Regular communication about BOOST to clinic staff
- Training on OUD form usage where needed
- Reminders at morning rounds and team meetings

# OUD form and Highly Adoptable QI

- Highly adoptable QI

<http://www.highlyadoptableqi.com/>

## Cumulative Impact of Change



# Empanelment

- Empanelment – ***Who is our panel of patients?***

- Clinic/Point of Care (In Profile EMR = POS)
- Most Responsible Provider
- Active clients only

Population of Focus

- Accurate Problem Lists – ***Who has OUD?***

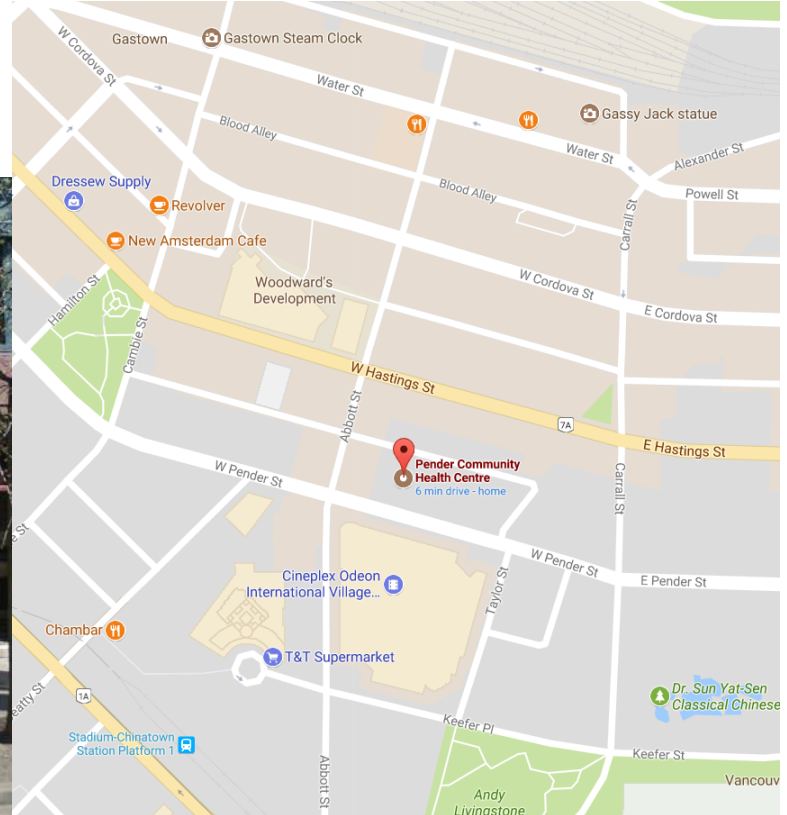
- 304.0 Opioid Use Disorder chosen as standard dx code

- Standardizing clinical data entry

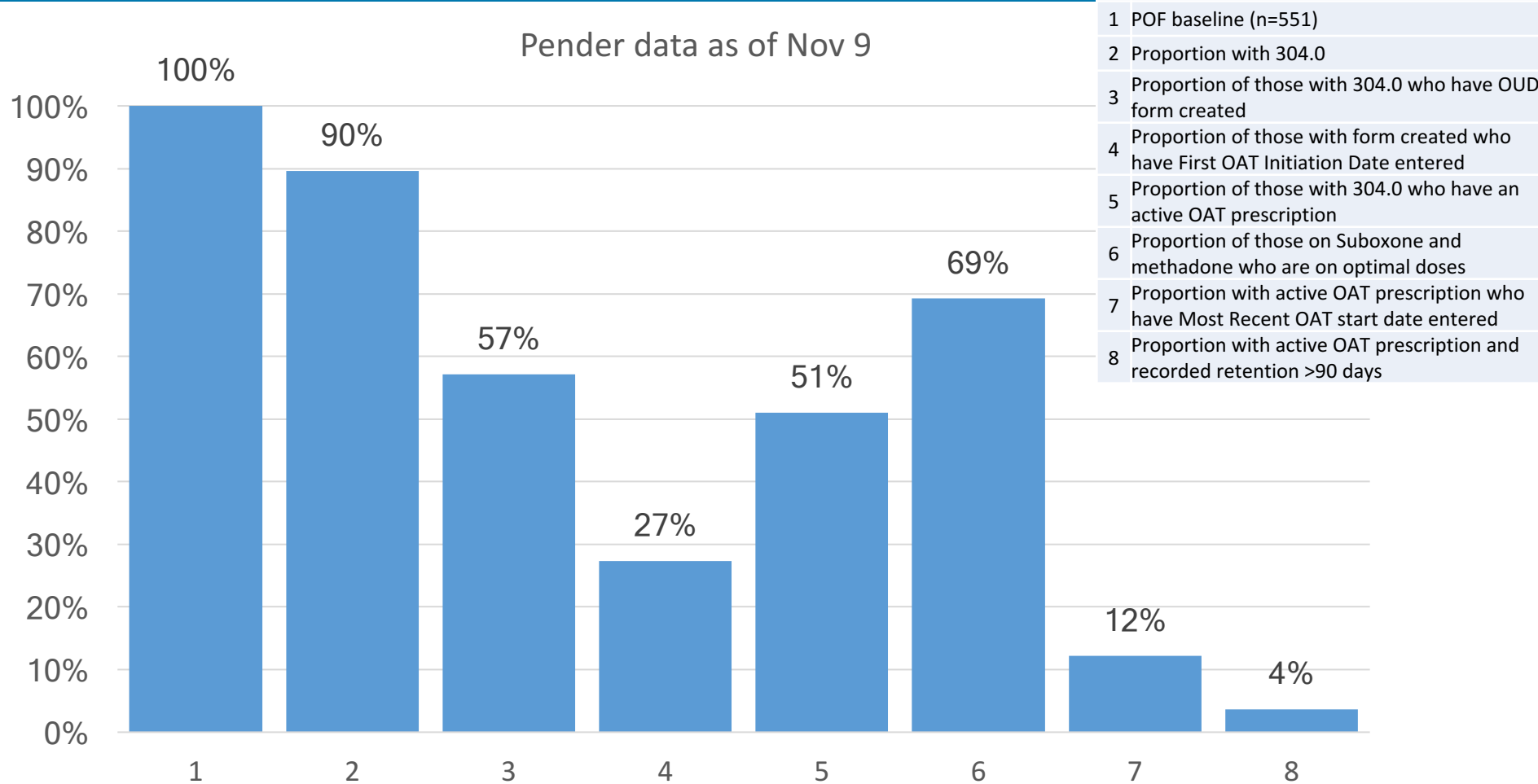
- OUD form
- Data-driven improvement

# Empanelment – A shining example

- *Who is our panel of patients?*
- Pender CHC



# Empanelment – A shining example



# Population of focus

Baseline POF (keywords in Problem List)

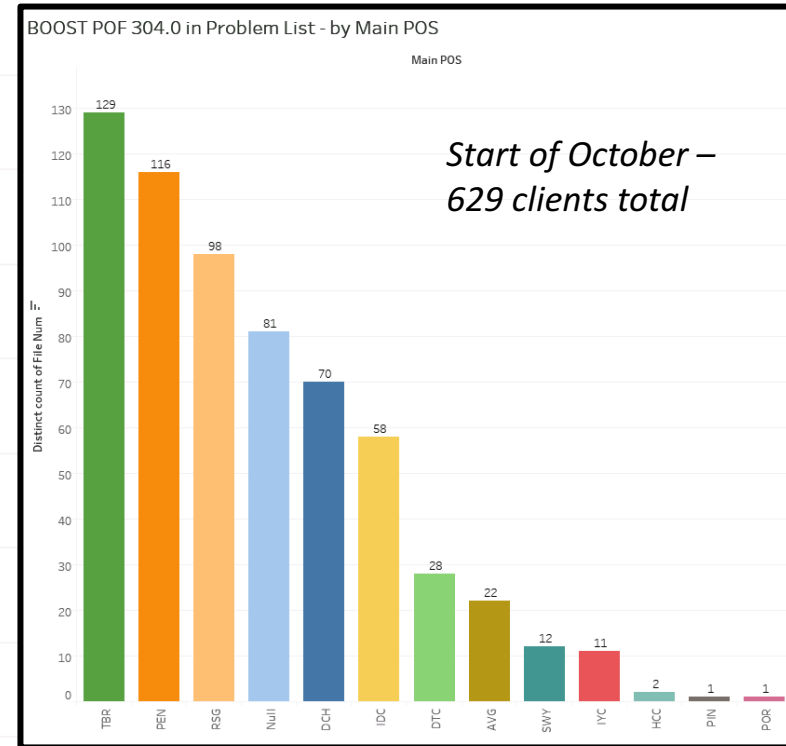


**3710 clients total**  
*(up from 3156 in July 2017)*

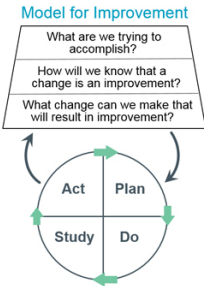


# Population of focus

304.0 Population of Focus



# Our first Action Period



Teams testing changes (PDSA-level measures)



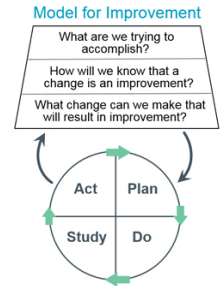
Site-specific aims



Collaborative aims (Collaborative-level measures)



Collaborative outcomes



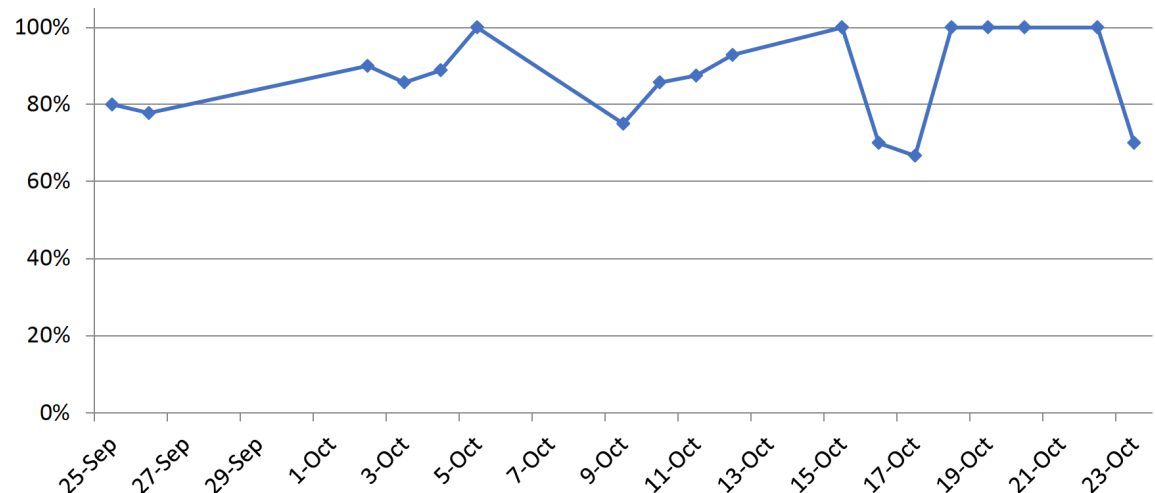


# Example from a pair of teams

- IDC and Raven Song - Proactive follow-up for expiring Rx
  - Reminder list of patients due for MMT renewal generated daily and reminder calls made 1 day prior or liaise/task STOP team member on care team

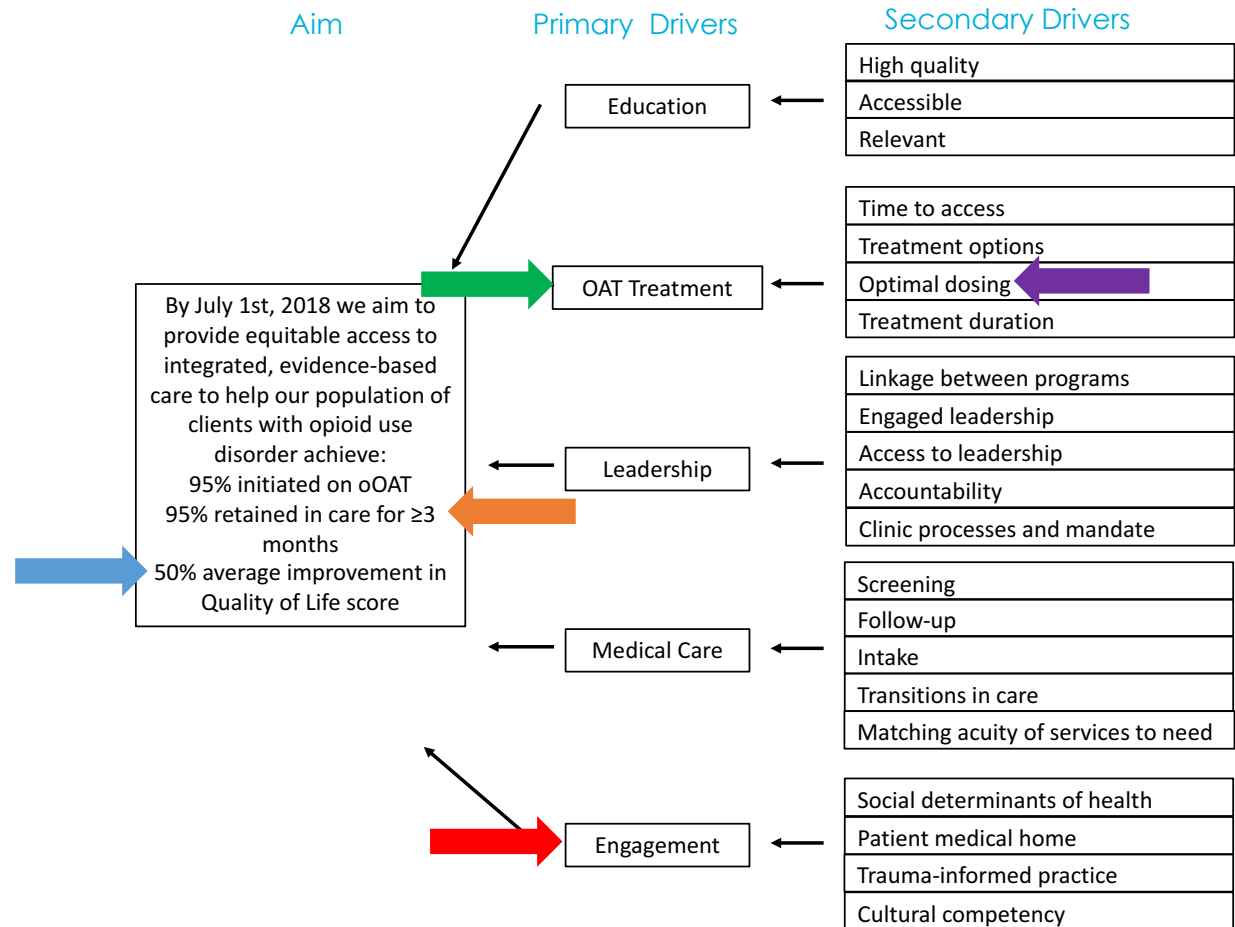
## PDSA-level measures

- Proportion of clients who attended clinic when rx due
- Number of phone calls made
- Number calls answered
- Time taken to do the work



# BOOST Driver Diagram – Measuring Outcomes

- Engagement
- Active oOAT
- Optimal oOAT dosing
- Retention on oOAT
- Quality of Life score



# Some shining examples

Assessment/Description	Definition
1.0 Forming team	Team has been formed; target population identified; aim determined and baseline measurement begun.
1.5 Planning for the project has begun	Team is meeting, discussion is occurring. Plans for the project have been made.
2.0 Activity, but no changes	Team actively engaged in development, research, discussion but no changes have been tested.
2.5 Changes tested, but no improvement	Components of the model being tested but no improvement in measures. Data on key measures are reported.
3.0 Modest improvement	Initial test cycles have been completed and implementation begun for several components. Evidence of moderate improvement in process measures.
3.5 Improvement	Some improvement in outcome measures, process measures continuing to improve. PDSA test cycles on all components of the Change Package, changes implemented for many components of the Change Package.
4.0 Significant improvement	Most components of the Change Package are implemented for the population of focus. Evidence of sustained improvement in outcome measures, halfway toward accomplishing all of the goals. Plans for spread the improvement are in place.
4.5 Sustainable improvement	Sustained improvement in most outcomes measures, 75% of goals achieved, spread to a larger population has begun.
5.0 Outstanding sustainable results	All components of the Change Package implemented, all goals of the aim have been accomplished, outcome measures at national benchmark levels, and spread to another facility is underway.



Collaborative Assessment Scale

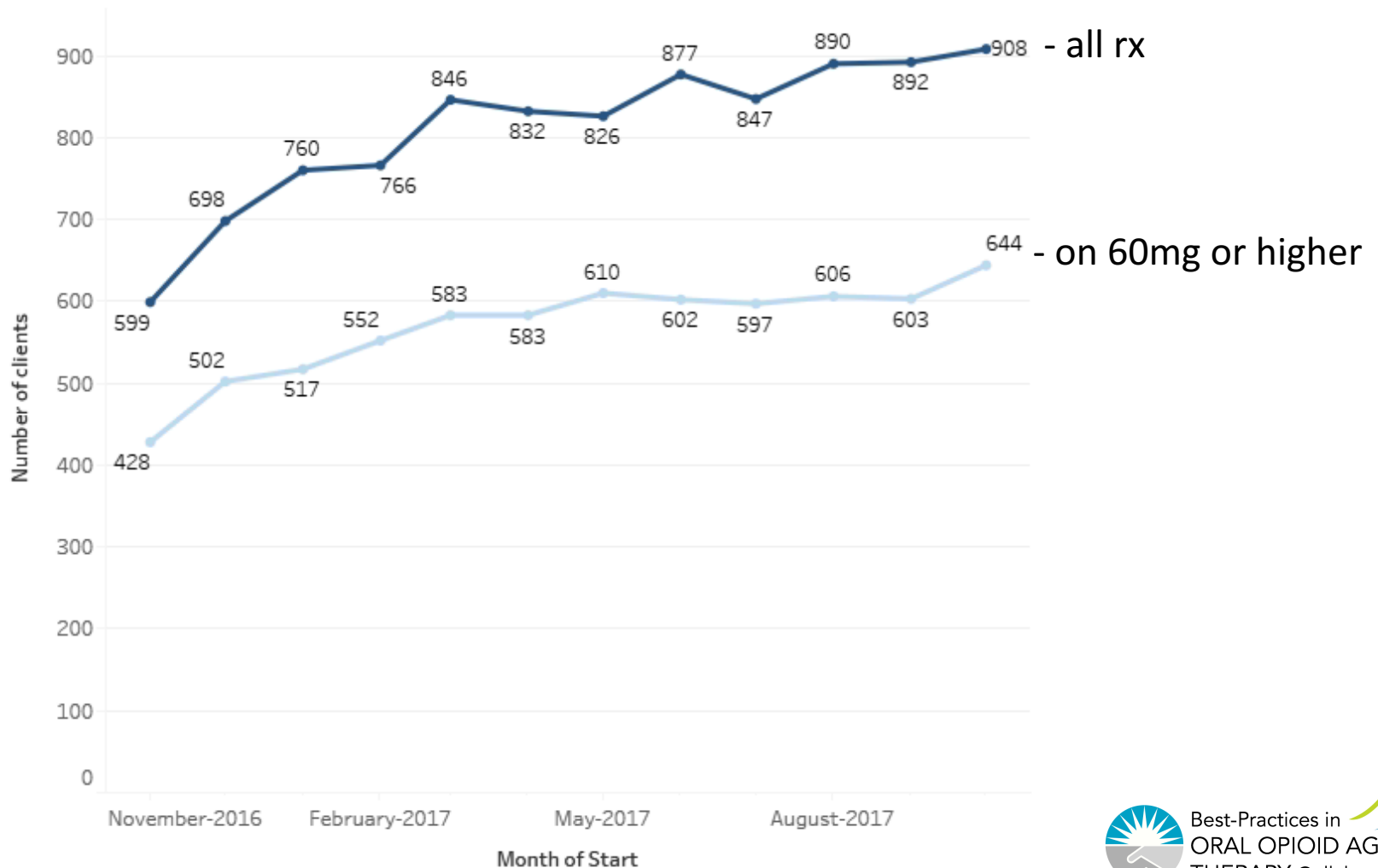
## Assessment Scale for Collaboratives

This scale gives information on how to assess a team's progress throughout a Collaborative Improvement Project.

Score
2.5
n/a
n/a
2.5
1.5
2.5
2.5
2.0
2.0
1.5
n/a
2.5
2.5
1.5
2.0
2.0
2.0

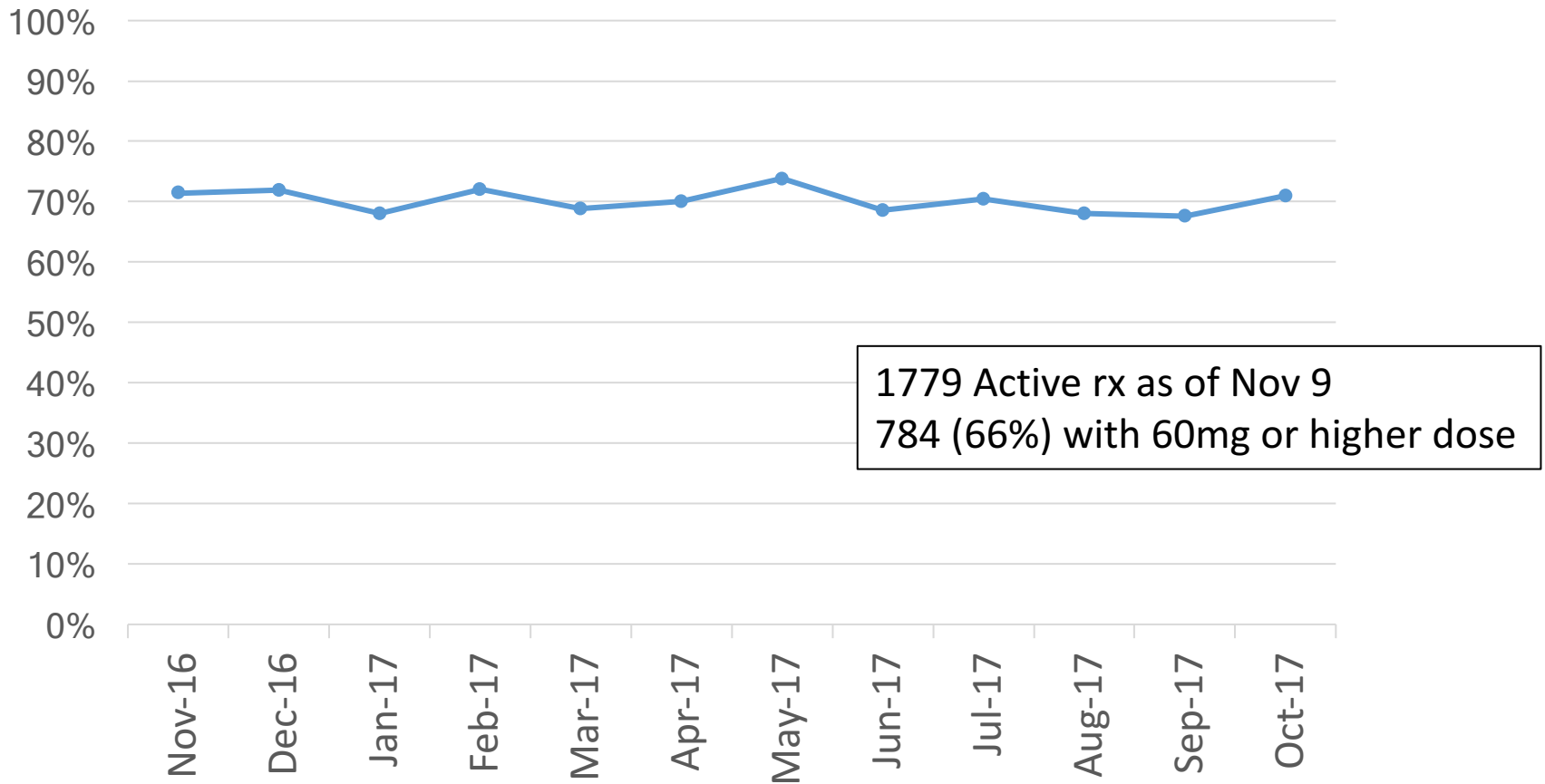
# Some initial BOOST data – optimal dosing

Number of clients with MMT rx per month (all sites)



# Some initial data – optimal dosing

## Proportion on methadone 60mg or higher dose



# Some initial data – optimal dosing

Print Defaults Set Reset 7

PLEASE PRINT

PERSONAL HEALTH NO.	PRESCRIBING DATE
	12 Sep 2017
PATIENT NAME	FIRST INITIAL LAST
GUY ASHMORE	
STREET	
2119 GUELPH ST	
CITY	PROVINCE
VANCOUVER	BC
DATE OF BIRTH	
27 Apr 2000	
DRUG NAME AND STRENGTH	DUE TO THE PATIENT'S MOBILITY, CONFIRM DELIVERY IS REQUIRED.
METHADONE 10 mg/ml	
NUMERIC QUANTITY	ALPHA
700 mg	SEVEN HUNDRED mg
START DAY	LAST DAY
12 Sep 2017	18 Sep 2017
100 mg/day	
DIRECTIONS FOR USE	SPECIFY NUMBER OF DAYS PER WEEK OF WITNESSED INGESTION IN PHARMACY
METHADONE	7 (SEVEN)
PRESCRIBER'S INFORMATION	PRESCRIBER'S SIGNATURE
	CPSID
	FOLIO
PHARMACY USE ONLY	
RECEIVED BY: PATIENT OR AGENT SIGNATURE	SIGNATURE OF DISPENSING PHARMACIST

PHARMACY COPY - COPYING OR DUPLICATING THIS FORM IN ANY WAY CONSTITUTES AN OFFENSE

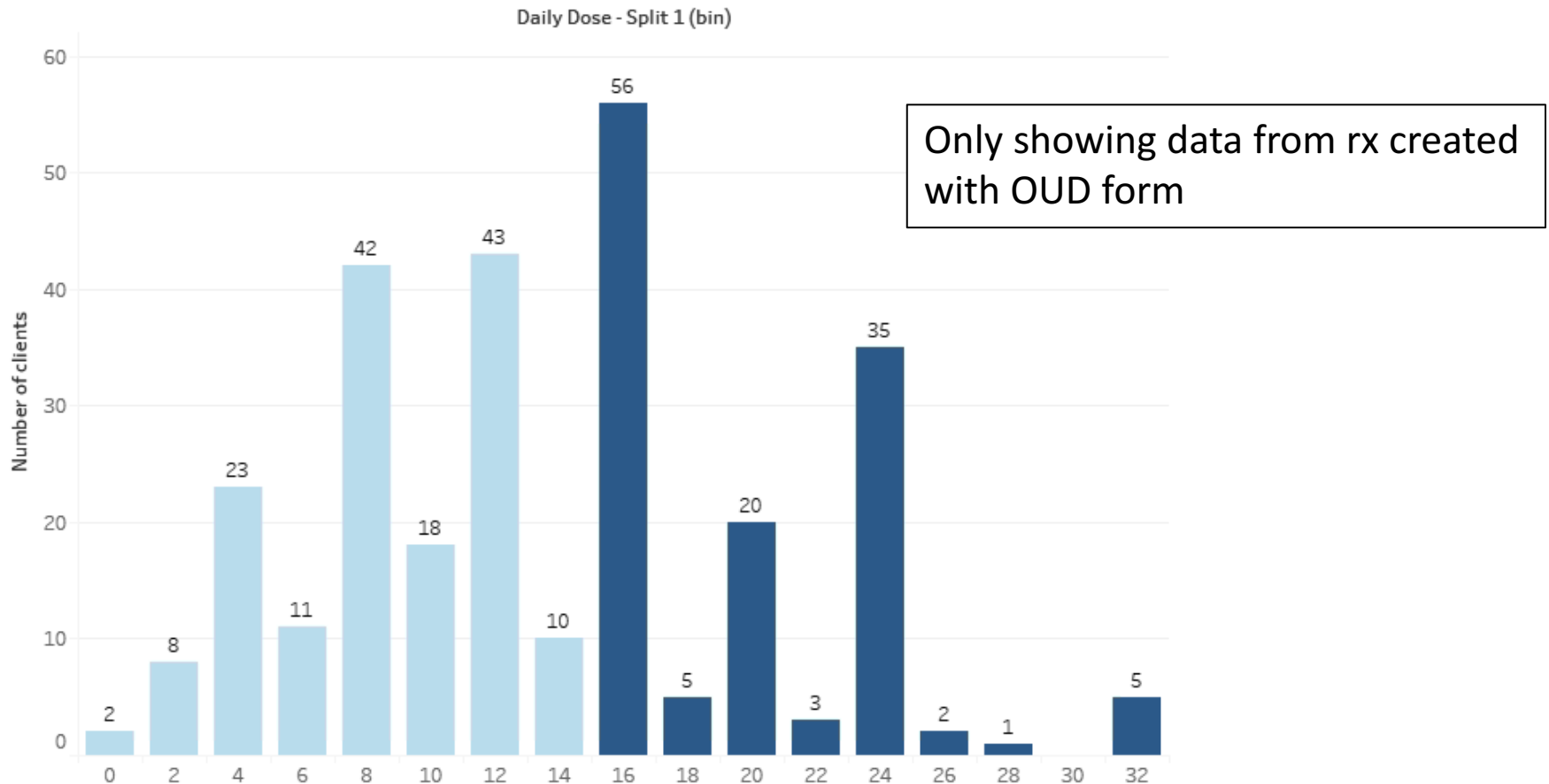
PRESS HARD  
YOU ARE MAKING 2 COPIES  
PRINTED IN BRITISH COLUMBIA

Methadone form has a standard Daily dose field, whereas the duplicate forms used for Suboxone and Kadian do NOT

Solution – use the OUD form and enter daily dose there

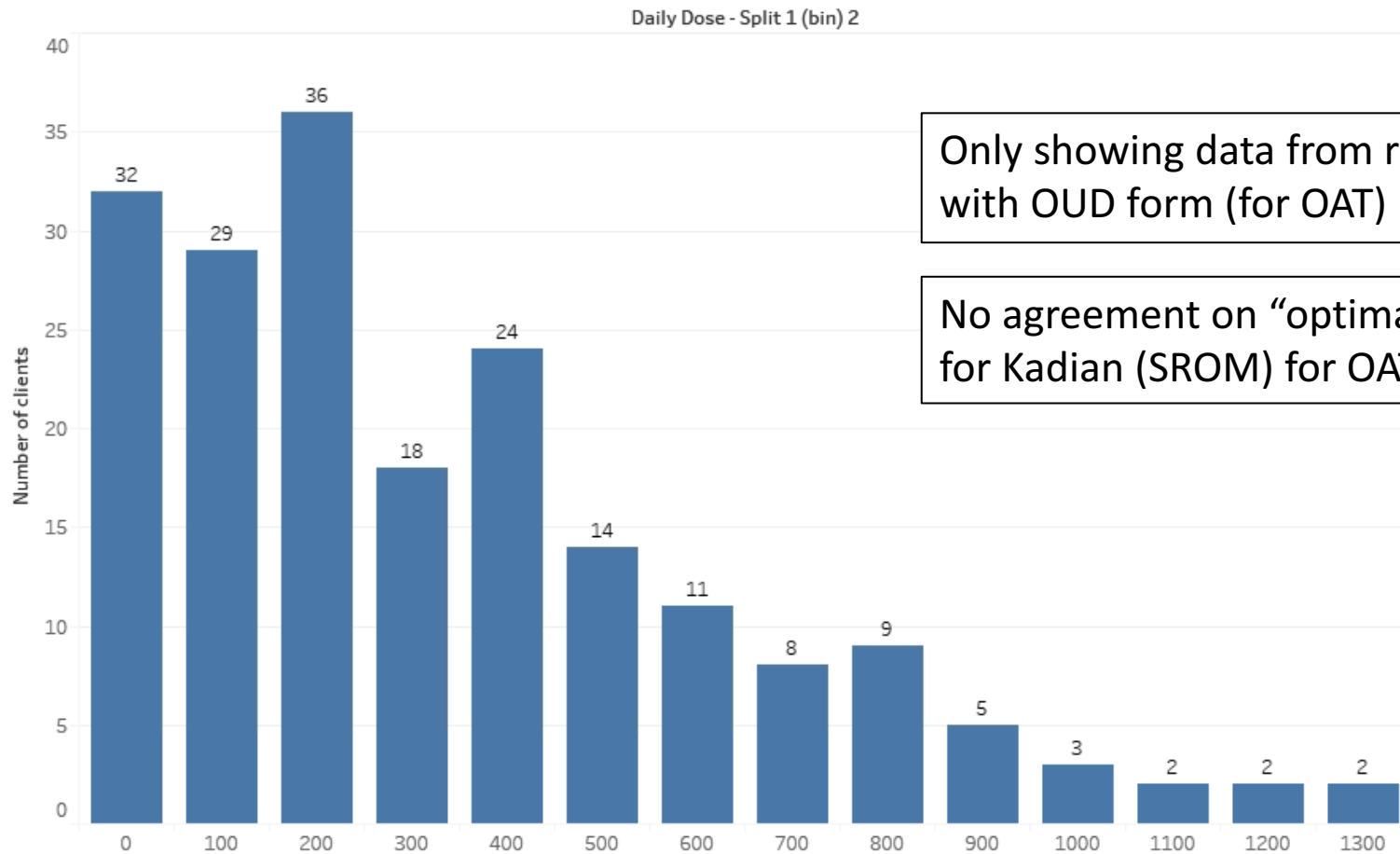
# Some initial data – optimal dosing

## Suboxone dosing



# Some initial data – optimal dosing

## Kadian dosing



Only showing data from rx created with OUD form (for OAT)

No agreement on “optimal dosing” for Kadian (SR0M) for OAT



# Measuring access and retention on OAT

🏠 OUD Visit Template for ASHMORE, GUY

Print    Print, Save, Close    Print This Page

304.04 Opioid Use Disorder (OUD) added to Problem Li

**Prescription Creator**

		Las
OAT	methadone	11 Sep 2017
Daily dose (mg)	100	110
Start Day:	12 Sep 2017	19 Sep 2017
Last Day:	18 Sep 2017	25 Sep 2017
Rx Duration (days)	7	
Carry Directions:	<input checked="" type="radio"/> DWI <input type="radio"/> CARRIES	DWI
Witnessed Ingestion:	7 (SEVEN)	
Direction For Use		

**Treatment course**

Treatment stage	Stable dose
OAT initiation date	06 Sep 2016
Most recent OAT start date	12 Apr 2017
Stable dose date	12 Sep 2017
OAT duration	153

Need to know when their most recent OAT start date is

Only need to enter it once, and entered automatically for new starts or restarts

# Measuring Quality of Life

PROMIS Quality of Life

Last score  
First score

10 questions, broad-ranging, score out of 50

DTES Connections PROMIS - Global Health for DONOTUSE-POST UPGRADE, DONOTUSEP

Page 1 Page 2

Print Print, Save, Close Print This Page Print Without Save

12 Sep 2017

PROMIS Scale v1.2 - Global Health

**Global Health**

Please respond to each question or statement by marking one box per row.

		Excellent	Very good	Good	Fair	Poor
Global01	In general, would you say your health is: .....	<input type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Global02	In general, would you say your quality of life is: .....	<input type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Global03	In general, how would you rate your physical health? .....	<input type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1

Look for: promis Find

Global Health - PROMIS (VCH/PHC EMR)

# Thinking back to my own patients



Engage peers in program development and leadership



Address contamination of the drug supply



Support appropriate pain management therapies



Build on the success of Overdose Prevention Sites



Expand and improve addiction treatment



Align law enforcement efforts with public health



Reform drug laws



Address structural barriers and upstream factors



Counter stigma against people who use drugs



Implement targeted research, surveillance and evaluation initiatives

- Jake – male in his 50s with back pain, OD with fake “oxys”
- Paul – male in his 40s who OD’s one week into hep C treatment

Aim for a system that regularly reassesses client’s OUD history and chronic pain, and provides necessary education (THN training, risk of OD from fentanyl, access to harm reduction supplies, etc)



# Thinking back to my own patients

- Dan – marginalized male in his 20s who OD's after using opiates for little more than a few months
- Alex – marginalized male around my age who doesn't pick fill his new methadone prescription after 1h clinic visit

Aim for a system that places patient engagement as a top priority, and reduces barriers to getting started on OAT, offers outreach when indicated

- Sabrina – female in her 20s who loses a friend to carfentanil OD, a near miss for herself

Aim for a system that is accessible so patients can remain engaged and retained on OAT

# The road ahead

- Teams continue:
  - PDSA cycles
  - Empanelment work
  - OUD form use/promotion
- QI coaching from PSP and our core team
- Monthly narrative and quantitative reports
- Monthly webinars
- Email listserv
- Next learning session Dec 7

By July 1st, 2018 we aim to provide equitable access to integrated, evidence-based care to help our population of clients with opioid use disorder achieve:

- 95% initiated on oOAT
- 95% retained in care for  $\geq 3$  months
- 50% average improvement in Quality of Life score

# Objectives

- What is the BOOST Collaborative?
  - Aims
  - Measures
  - Change Ideas
  - Structure
  - Team involvement
  - Teams using QI methods (Model for Improvement)
- Importance of standardizing clinical data entry
- Things to think about:
  - How does this work relate to YOUR daily practice?
  - How could you apply QI and The Model for Improvement to care gaps in your own clinic setting?
  - What other clinical topics might be ready for a Collaborative approach?

By July 1st, 2018 we aim to provide equitable access to integrated, evidence-based care to help our population of clients with opioid use disorder achieve:

- 95% initiated on oOAT
- 95% retained in care for ≥3 months
- 50% average improvement in Quality of Life score



# The road ahead

- Plans for BOOST
  - Regional expansion
  - Coordination with BCCSU work on Community of Practice
- Want to get involved?
- Questions?
  - CONTACT US: [boostcollaborative@cfenet.ubc.ca](mailto:boostcollaborative@cfenet.ubc.ca)
  - VISIT THE WEBSITE: <http://www.stophiv aids.ca/oud-collaborative>



Best-Practices in   
ORAL OPIOID AGONIST  
THERAPY Collaborative

**THANK-YOU!**

CONTACT US: [boostcollaborative@cfenet.ubc.ca](mailto:boostcollaborative@cfenet.ubc.ca)

VISIT THE WEBSITE: <http://www.stophiv aids.ca/oud-collaborative>



# References and Resources

- Collaborative Website: <http://stophiv aids.ca/oud-collaborative>
- Hosp Q. 2003;7(1):73-82. The expanded Chronic Care Model: an integration of concepts and strategies from population health promotion and the Chronic Care Model. [Barr VJ](#), [Robinson S](#), [Marin-Link B](#), [Underhill L](#), [Dotts A](#), [Ravensdale D](#), [Salivaras S](#). Source: Vancouver Island Health Authority.
- NIATx: <https://niatx.net/>
- BC Centre on Substance Use- Opioid Use Disorder Clinical Management Guidelines: [http://www.bccsu.ca/wp-content/uploads/2017/06/BC-OUD-Guidelines\\_June2017.pdf](http://www.bccsu.ca/wp-content/uploads/2017/06/BC-OUD-Guidelines_June2017.pdf)
- IHI Open School courses: <http://www.ih i.org>