PNQIN AIM Opioid Use Disorder in Pregnancy Webinar Series

July 7, 2020 Webinar 10









Monthly Agenda Overview

- 12:00 12:05: Welcome/ Introductions
- 12:05 12:15: Updates from the teams on QI projects + collaborative
- 12:15 12:30: Brief QI teaching, Assignment

Ronald Iverson, MD, MPH – PDSA: Making Adjustments

12:30 - 12:55: Guest Topics: 20 minute presentations + 5 mins for questions

Kelley Saia, MD, FACOG, DABAM – MAT

12:55 - 1:00: Closing/ Final Comments



- We will take attendance in the chat box each month please comment with your name and hospital
- Please mute your lines and avoid placing us on hold, as we will hear your hold music sometimes beautiful, but also distracting
- Utilize "raise hand" feature to speak
- Please feel free to use the chat box as well
- We will be recording each session and placing slides on our website after the call
- We welcome feedback, suggestions about the webinar content and structure!
- Please participate! We want this to be helpful and collaborative!



PNQIN Perinatal Opioid Project Leadership Team

PNQIN

- Fifi Diop (DPH)
- Audra Meadows (BWH)
- Ron Iverson (BMC)
- Mary Houghton (BIDMC)
- Munish Gupta (BIDMC)
- Kali Vitek

Neonatal Folks

- Elisha Wachman (BMC)
- Larry Rhein (UMass)
- Rachana Singh (Baystate)
- Davida Schiff (MGH)
- Alan Picarillo (Maine)
- Eileen Costello (BMC)

Maternal Folks

- Katherine Callaghan (UMass)
- Leena Mittal (MCPAP for Moms)
- Laura Sternberger (Moms Do Care)
- Nicole Smith (BWH)
- Donna Jackson-Kohlin (Baystate)
- Linda Jablonski (Baystate)

Academic and Organizational Partners

- Patrice Melvin (BCH)
- Karla Damus (BU)
- Christina Gebel (MOD)

State Partners

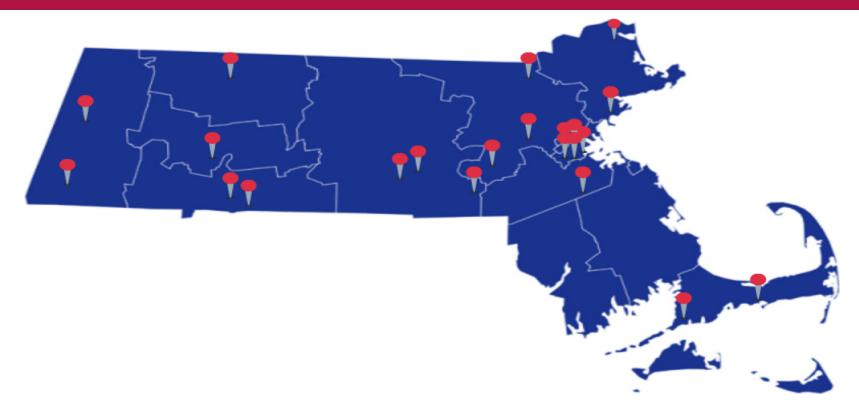
- Fifi Diop (DPH and PI of PNQIN Grant)
- Griffin Jones (HPC)
- Michael Kelleher (OHHS)
- Debra Bercuvitz (DPH)
- Abby Taylor (AGO)
- Karen Pressman (BSAS)
- Julia Reddy (BSAS)
- Mary Lutz (DCF)
- Alissa Cruz (MassBIRT)
- Colleen Labelle (BMC)
- Julia Prentice (BLC)
- Natalia Ciesielska (BLC)

Families

- Patricia McDonnell (Baystate)
- Julie Maida
- Meghann Perry
- Cieara McManus (Moms Do Care)



PNQIN AIM Wave I- Who's on the Line?



PNQIN AIM OUD Wave 1 Hospitals

- Anna Jaques Hospital
- Baystate Franklin Medical Center
- **Baystate Medical Center**
- **Berkshire Medical Center**
- Beth Israel Deaconess Med Center Lowell General Hospital
- **Boston Medical Center** •
- Brigham & Women's Hospital •

- Cape Cod Hospital
- Cooley Dickinson Hospital Milford Regional •
- Fairview Hospital
- Falmouth Hospital
- Mass General Hospital
- Mercy Medical Center

- Metrowest Med Center
- Newton-Wellesley
- North Shore Medical
- Saint Vincent Hospital
- South Shore Hospital
- Tufts Medical Center
- UMASS Memorial



- Webinar 10/12, two more to go!
- Process and Structural Measures
 - We will be resuming data collection with the help of Betsy Lehman Center via their REDCap database
- 2-hour Stigma, Bias, and Trauma-Informed Care Training dates are available July-September 2020, please sign up via the link!
 - <u>https://calendly.com/tictrainings/2hours</u>
- PNQIN Admin changes WELCOME Kali
- SMM Data Reports pilot phase and launch to 22 teams
- Check out our website for updates!
- Give feedback on webinar series



Available Trainings

- ASAM/ACOG's July Buprenorphine Waiver Trainings
 - July 10^{th} , 17^{th} , and 31^{st}
 - Register: <u>https://www.asam.org/education/live-online-cme/waiver-qualifying-training/ob-gyn-</u> focus?utm_source=ACOG&utm_medium=Todays%20Headlines&utm_campaign=ACOG&utm_term=20TOUD
- MAT Waiver training for Advanced Practice Registered Nurses is offered by Providers Clinical Support System for <u>free</u>!
 - CE credits available
 - Register: https://pcssnow.org/medications-for-addiction-treatment/waiver-training-for-nurses/



Webinars, Podcasts, and Videos

- ASAM National Practice Guideline 2020 Focus Update Webinar Pregnant Women
 - Visit the link for updates on a recording and/or slides from June 30th: <u>https://elearning.asam.org/products/the-asam-national-practice-guideline-2020-focused-update-pregnant-women</u>
- Florida PQC video series on maternal opioid use topics with the AIM states
 - https://files.constantcontact.com/9648b4fd601/1d443076-3f4f-430d-b60d-1dec5934d5ea.pdf
 - <u>https://health.usf.edu/publichealth/chiles/fpqc/morevideos</u>
- ACOG District II On the Front Line Podcast on Opioid Use Disorder
 - Listen here: <u>https://www.acog.org/community/districts-and-sections/district-ii/programs-and-resources/medical-education/opioid-use-disorder-in-pregnancy</u>
- "Engaging Women with OUD in the COVID-19 Crisis" presented by Mishka Terplan, MD, MPH
 - View the webinar recording and slides under the "Archived MORE Presentations and Webinars" tab: <u>https://health.usf.edu/publichealth/chiles/fpqc/MORE</u>



Team Updates/Check-In



March-June Update:

 We are working on re-engagement. We have a team meeting scheduled for the morning of 7/7 and are now hoping to focus our Fall Skills Day (virtual or in person) entirely on AIM OUD work. We had hoped our Spring Skills would be this opportunity, but had to cancel for Covid. We are working on rescheduling the many trainings we had set up that had to be cancelled r/t Covid.

Questions:

 We are wondering if any of the hospitals using Epic have had success adding a validated screening tool and if any of the MGB hospitals have an update on if/when the NIDA will be added to our Epic. We would love to avoid a paper tool if possible.



March-June Update:

- Implemented new clinical process including multidisciplinary team meetings; we are working on expanded engagement with our OB practices using tools including video to disseminate information
- Did SBIRT training for MFM practice as we move closer to universal screening (!)
- Developing patient education materials



March-June Update:

- BSAS approval for SSH
- Group therapy training
- Telehealth visits from 3/2020- Current, some in-clinic visits as well
- Developing OUD prenatal, PP and parenting clinic which will be called SHORE Program (supporting: hope, opportunity, resilience and empowerment) a program within the perinatal behavioral health clinic.
- Hoping to start measuring compliance with screening at 1st prenatal visit and 28 weeks as of August 1st.

Questions:

How are others managing group therapy? Are some teams doing virtual groups?



QI Webinar Topics for Next 12 months

Date	QI Topic
7/9/19	OUD Bundle Components Overview
8/6/19	Stakeholders
9/3/19	Developing a Project AIM
10/1/19	Measures for Improvement
11/5/19	Key Driver Diagram
12/3/19	Developing Interventions
1/7/20	Understanding Run Charts
2/4/20	Understanding Data Control Charts
3/3/20	Using the PDSA Cycle
7/7/20	PDSA: Making Adjustments
8/4/20	Scale and Spread Up
9/1/20	Sustainability



QI Training: PDSA Cycle: Making Adjustments

Ronald Iverson, MD, MPH Boston Medical Center

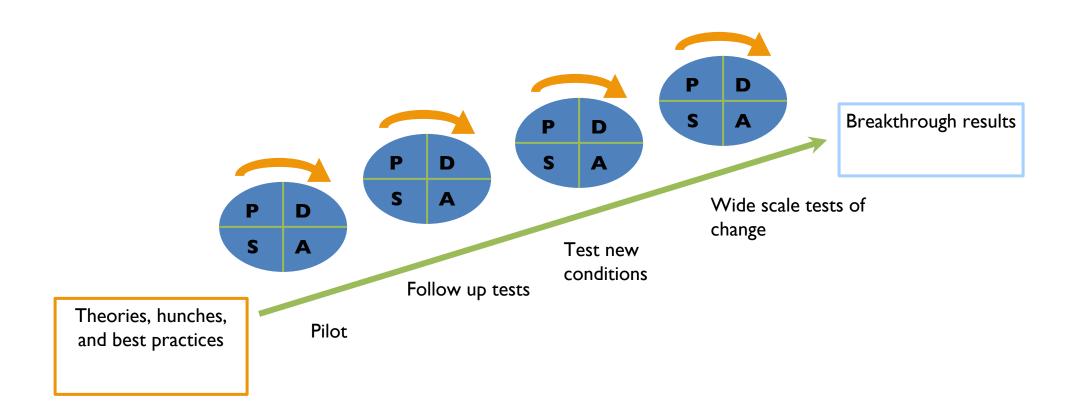


PDSA worksheet

Plan Do				PDSA WORKSHEET			
	Team Name: Hospi	ital A		Date of test: June 1, 2016	Test Completion Date: June 3, 2016		
	Study on pre-existing hypertension by 20%				the rate of severe morbidities in women with preeclampsia, eclampsia, or preeclampsia superimposed		
	What is the objectiv	ve of the test? To	improve access to IV	/ labetalol on the L&D unit.			
LAN:				DO: Test the changes.			
riefly describe the test:							
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Iterative PDSA Cycles





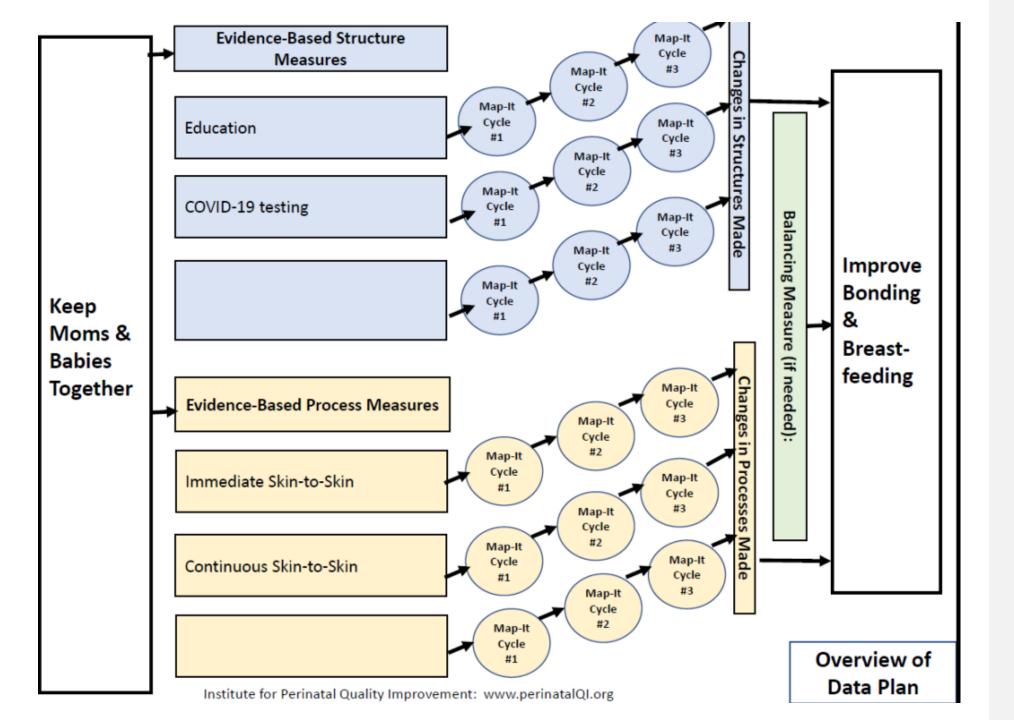
Make realistic predictions

- Use the data from your first PDSA cycle to adjust your predictions for your second
- Making more informed, datadriven predictions will help you better measure and understand the success or failure rates of your next cycle
- Revaluate your initial work sheet

	Team Name: Hospi	ital A		Date of test: June 1, 2016	Test Completion Date: June 3, 2016		
	Overall team/project aim: By December 2017, to reduce the						
Act Study	t Study on pre-existing hypertension by 20%						
	What is the objective of the test? To improve access to IV						
PLAN:				DO: Test the changes.			
Briefly describe the test:				Was the sure entried out as planned	d9 V Van III No		
Test use of the severe hypertension medication box containing: magnesium sulfate (with tubing,			ate (with tubing,	Was the cycle carried out as planne	O? X TES LI NO		
syringes, and needles), labetalol, hydralazine, and calcium gluconate.				Record data and observations.			
How will you know that the change is an improvement?					Nurse Joan used the box with a patient on June 3. Felt it greatly increased her access to the medications and patient was treated within 45 minutes of confirmed BP. Feedback that box was		
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What driver does the change impact?				······································			
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SOURCE: www.ilpqc.org ; https://www.nichq.org/insight/9-tips-moving-one-pdsa-cycle-next







Post-PDSA Cycle Round I - What's Next

- You've finished your first PDSA cycle, which means you have taken an essential step towards driving change.
- Next phase of continuous improvement: your second, third and fourth PDSA cycle, or, as many cycles as needed to reach the final adoption stage
- Utilized following tips to adjust PDSA



Stay on goal

- Modifying an individual test of change—the original PDSA cycle does not mean your overall project goals should change
- Remember to review your answers to the three fundamental questions and make sure your change modification still supports those goals



Setting Aims

The aim should be time-specific and measurable; it should also define the specific population of patients or other system that will be affected.

Establishing Measures

Teams use quantitative measures to determine if a specific change actually leads to an improvement.

Selecting Changes

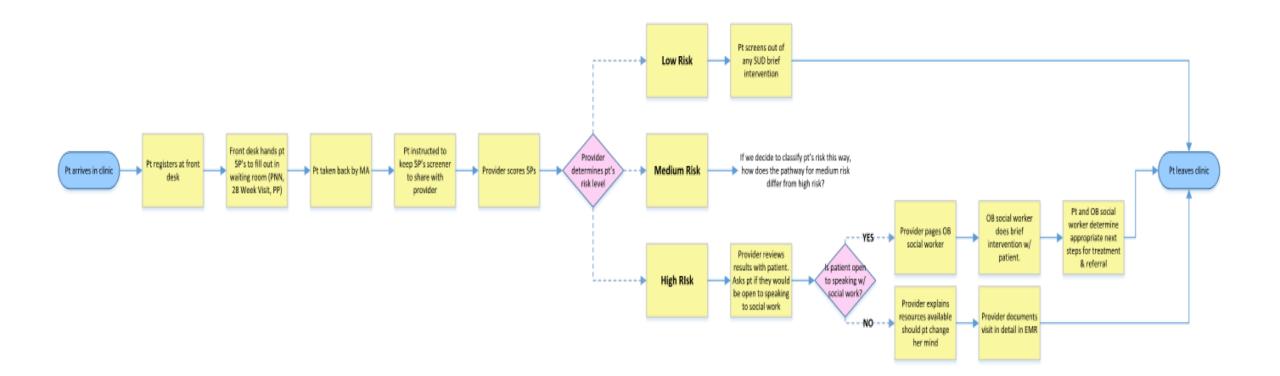
Ideas for change may come from those who work in the system or from the experience of others who have successfully improved.

Testing Changes

The Plan-Do-Study-Act (PDSA) cycle is shorthand for testing a change in the real work setting - by planning it, trying it, observing the results, and acting on what is learned. This is the scientific method adapted for action-oriented learning.

SOURCE: https://www.nichq.org/insight/9-tips-moving-one-pdsa-cycle-next





PERINATAL-NEONATAL QUALITY IMPROVEMENT NETWORK OF MASSACHUSETTS

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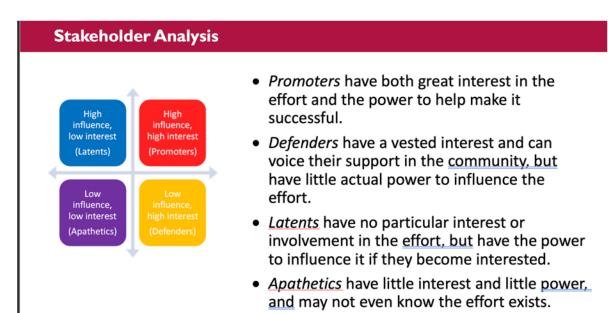
- New PDSA cycle means creating a new question that your test answers
 - Sometimes, that's a "smaller" aim
 - Don't disregard what you've learned and hope for the best
- Specifically, design a new question that addresses the problem noted in the previous PDSA cycle
- Example: AIM: help patients fill out the 5Ps, get the provider results, and support linkage to next steps
 - PDSA 1 AIM: Can we get the 5Ps form all the way through the process for one patient? We learned that there was a disconnect from MA to Provider
 - PDSA 2 AIM: can we help the MA and provider communicate? We learned that yes, we can, but the providers aren't documenting
 - PDSA 3 AIM: can we help providers document? yes, but they didn't always complete linkage to SW
 - PDSA 4 –AIM: can we support linkage to SW? Yes, by changing the process to communicate with SW
 SOURCE: https://www.nichg.org/insight/9-tips-moving-one-pdsa-cycle-next



Identify who needs to be notified:

- Change to the initial test will likely impact multiple groups of people
- Meeting with all key stakeholders helps ensure that the adaption will go smoothly during the Do phase of your next PDSA cycle
- Review stakeholder analyses and matrix from first PDSA cycle

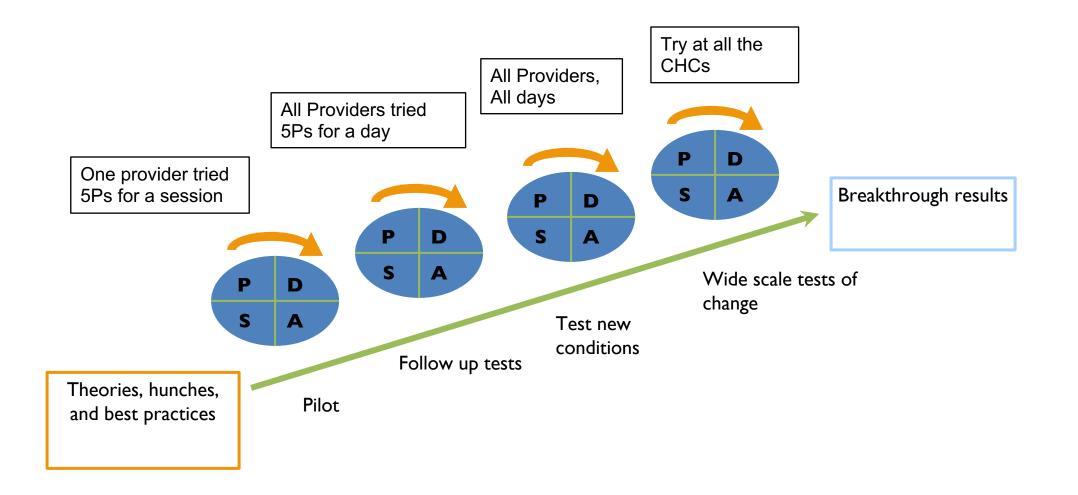
Stakeholder Matrix – Example						
Names or Group	Strongly Against	Moderately Against	Neutral	Moderately Supportive	Strongly Supportive	
Medical Residents					x	
Medicine Attendings			× —		→ o	
Emergency Medicine	× —			→ o		
Clinical Directors (Nursing)				×	→ o	
Family Medicine				x		
Floor Nurses	x			→ °		
Social Workers			x		→ o	



SOURCE: https://www.nichq.org/insight/9-tips-moving-one-pdsa-cycle-next



Iterative PDSA Cycles – Initiation of 5Ps into all Prenatal Clinics





PDSA TIPS

- Don't abandon too soon:
 - Don't make the mistake of discarding a promising idea because of poor execution
- But, don't adopt too soon either: When we see improvement that is greater than predicted, we can be tempted to adopt it as standard.
 - Remember if there is still room for improvement, keep adapting and start another PDSA cycle

• Don't repeat the cycle

- While this may seem like a given, it can be tempting to re-test the same change if you think the results from the first cycle aren't for sure
- Even if an anomaly occurs, adapt the model based on the cycle's results
- In the next cycle, develop a plan for these exceptions so that you are prepared to deal with them when they occur again in the future



Guest Presentations Topics for Next 12 Months

- OUD Screening Options
- Plans of Safe Care
- Linkages to Care
- Caring for Patients with OUD Using the Checklist
- Centering Patient Voice
- OUD SMM Data
- Equity Consideration in OUD Care
- Early Head Start
- MAT
- Pain Relief During Pregnancy, Labor, Surgery, Post-op
- SBIRT Check in



Guest Topics: MAT

Kelley Saia, MD, FACOG, DABAM Project RESPECT at Boston Medical Center



OUD in Pregnancy: The Fentanyl Effect

Kelley Saia, MD, FACOG, DABAM

Project RESPECT at Boston Medical Center

MOUD OB Manual

https://www.bmcobat.org/

Bmcobat.org \rightarrow Resources Tab \rightarrow OBAT Clinical Guidelines

RESPECT

GUIDELINES FOR THE TREATMENT OF OPIOID USE DISORDER IN PREGNANT AND PARENTING PATIENTS

PROJECT RESPECT:

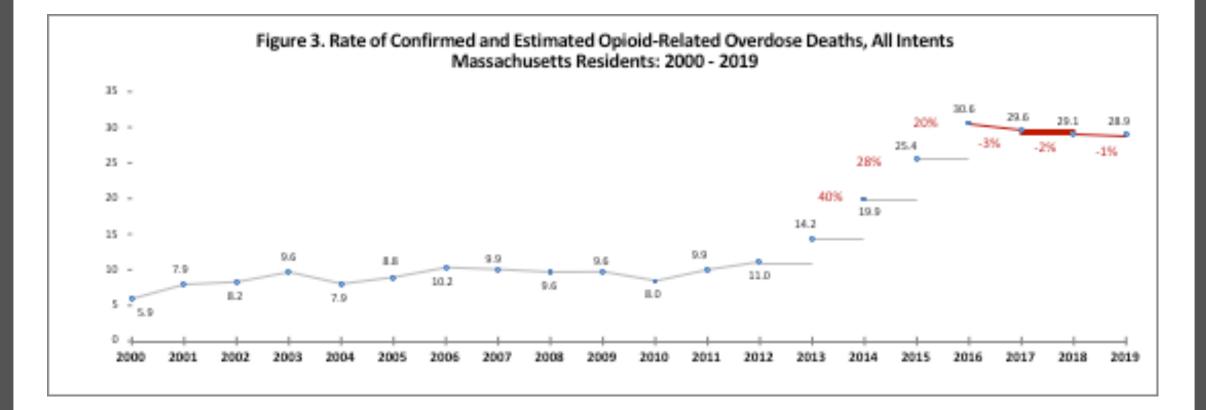
SUBSTANCE USE DISORDER IN PREGNANCY TREATMENT PROGRAM AT BOSTON MEDICAL CENTER

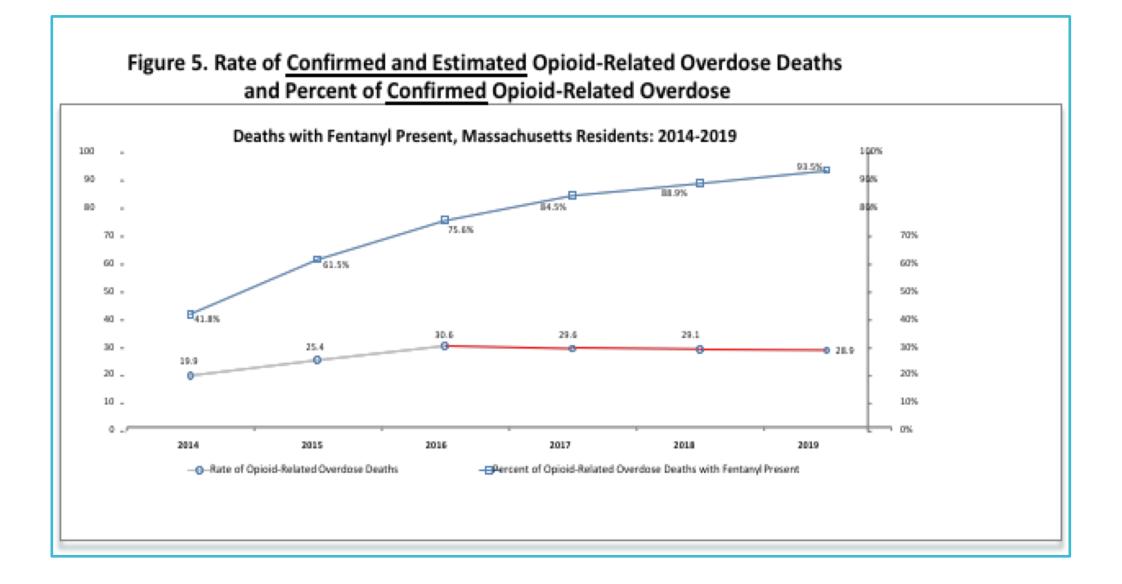
© 2019 Boston Medical Center

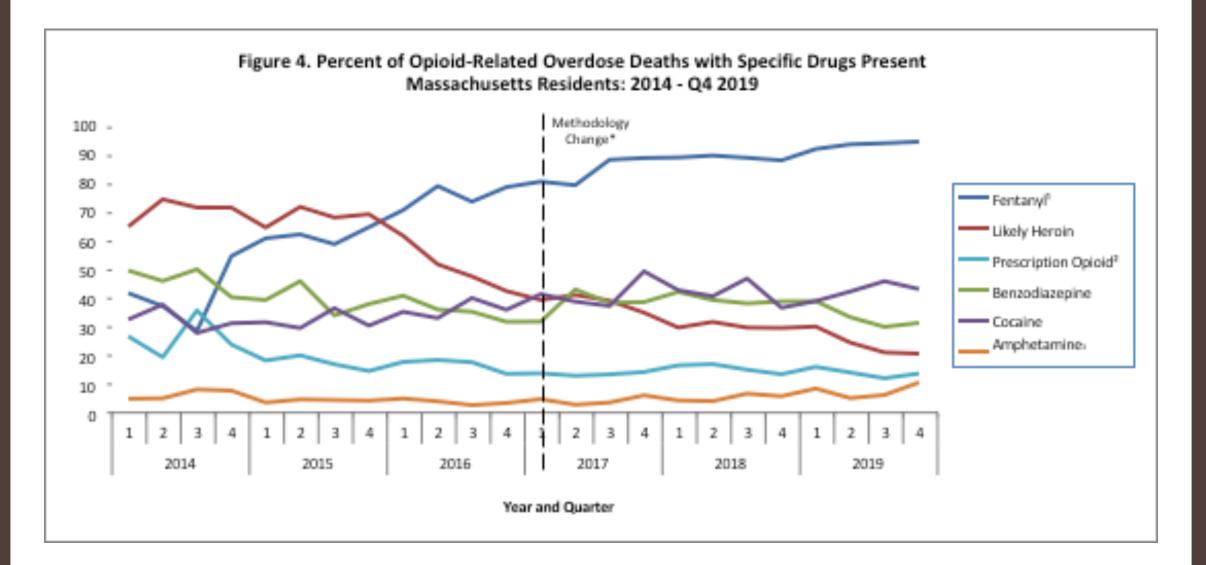
Data Brief: Opioid-Related Overdose Deaths among Massachusetts Residents Massachusetts Department of Public Health

JUNE 2020

https://www.mass.gov/lists/current-opioid-statistics







Fentanyl: Its deadly history

- Synthetic opioid (*100x potency of morphine*)
- **1960**: First synthesized by Paul Janseen in Belgium
- **1972**: US FDA approval for treatment of severe pain
- **1980's**: Diversion and misuse by healthcare providers (IV)
- **1990's**: Advent of the transdermal patches for cancer pain
- **2000's**: Illicitly manufactured nonpharmaceutical fentanyl
- **2010's**: "designer-fentanyl" in pill / tablet form (mimic oxy, benzo)
- 22+ identified analogs (majority Schedule I)

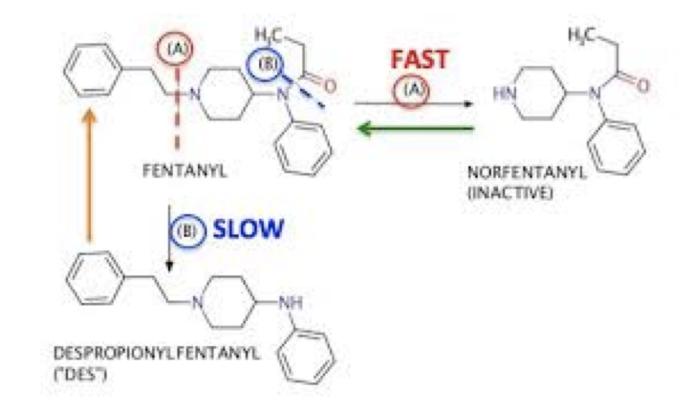
Sufentanil 10 times stronger than fentanyl (Schedule II) Butyryl fentanyl Acetylfentanyl Carfentanil 100 times stronger than fentanyl (schedule II)

- Pharmaceutical fentanyl vs. "Street" fentanyl
 - Minimal diversion of transdermal patches or lozenges
 - Fentanyl in Massachusetts is almost entirely illicitly-produced not diverted pharmaceutical fentanyl

Fentanyl: Metabolism and Clearance

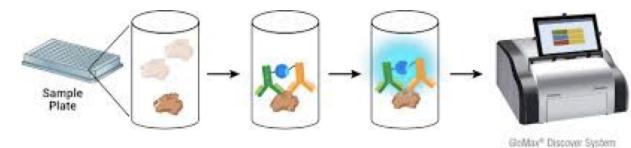
- Metabolized by hepatic cytochrome p450 (CYP3A4)
- < 10% of parent drug excreted in urine
- >90% excreted as non-toxic, clinically inactive metabolite: Norfentanyl
- Elimination half-life ranges (4-14 hours)
 - Morphine (2-4hours)
 - Highly lipophilic
 - binds strongly to plasma proteins
 - Large volume of distribution
- Clearance affected by
 - Renal / hepatic function
 - Genetic polymorphisms of CYP
 - BMI
 - Medications (SSRIs, antiretrovirals, antiemetics, etc)
- No data on Fentanyl metabolism/ clearance in pregnancy

Fentanyl



Principles of Urine Drug Testing: The Immunoassay

- **Immunoassay:** based on the principles that specific antigens will stimulate very specific (unique) immune responses and that the proteins produced by the immune response, called antibodies, can be used to signal the presence of a target compound in a sample
 - fast and relatively inexpensive
 - Cross-reactivity within drug families
 - Semi-quantitative Immunoassay at BMC
 - Approximately 20% false positive rate for fentanyl
 - "presumptive positive"
 - Confirmatory testing required



Add labeled antibodies d

Add Lumit[™] detection reagent Record luminescence Total time: 30min

Buprenorphine, Urine NEG

Comment: THIS IS A SCREENING ASSAY ONLY AND RESULTS ARE REPORTED AS PRESUMPTIVE POSITIVE OR NEGATIVE, USING A CUTOFF CONCENTRATION OF 20 NG/ML. RESULTS ARE TO BE USED FOR CLINICAL EVALUATION ONLY. CONFIRMATION TESTING WAS NOT PERFORMED.

Oxycodone, Urine **NEG** NEG

Comment: THIS IS A SCREENING ASSAY ONLY AND RESULTS ARE REPORTED AS PRESUMPTIVE POSITIVE OR NEGATIVE, USING A CUTOFF CONCENTRATION OF 100 NG/ML. RESULTS ARE TO BE USED FOR CLINICAL EVALUATION ONLY. CONFIRMATION TESTING WAS NOT PERFORMED.

Methadone, Urine NEG POS Abnormal

NEG

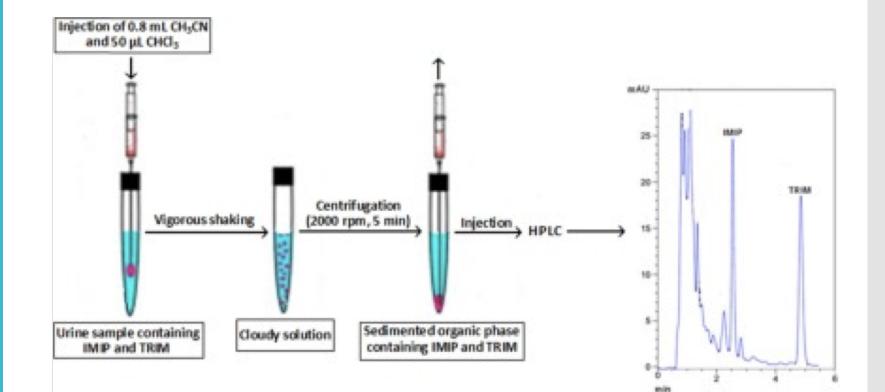
Comment: THIS IS A SCREENING ASSAY ONLY AND RESULTS ARE REPORTED AS PRESUMPTIVE POSITIVE OR NEGATIVE, USING A CUTOFF CONCENTRATION OF 300 NG/ML. RESULTS ARE TO BE USED FOR CLINICAL EVALUATION ONLY. CONFIRMATION TESTING WAS NOT PERFORMED.

Fentanyl Presumptive Screen, NEGPOS AbnormalUrine

Principles of Urine Drug Testing: GC/LC-MS

Gas or Liquid Chromatography-Mass Spectrometry

> Individual components in a mixture are first separated followed by ionization and separation of the ions on the basis of their mass/charge ratio



Confirmatory Results

GC-MS

Ref Range & Units		
Fentanyl, Urine	<0.50 ng/mL	38.00High
Norfentanyl, Urine	<0.50 ng/mL	390.50High

Case Report

- A 33-year-old G8P1 with opioid use disorder, hepatitis C, asthma, obesity (pre-pregnancy BMI was 43.59 kg/m²)
- Methadone 90mg
- Protracted fentanyl and norfentanyl detection window
 - Positive norfentanyl on 10 distinct gas chromatography/mass spectrometry
 - Norfentanyl detection 70 days after last use
 - Required a written document summarizing the how to accurately interpret urine drug screens

Urine Drug Testing during Pregnancy

- For the ordering provider
 - Approach urine testing as a *component* of OUD treatment, not the *focus*
 - an opportunity to confirm treatment success
 - recognize the power test results hold in the legal system

• Understand the limits of the tests you order

• Confirm accuracy, reliability, recognize processing errors (chain of custody) and availability/ necessity of confirmatory testing

• Be the expert on interpretation of results

- More complicated than you may think
- Can confuse medical providers and baffle non-medical systems

"lso"

Fall 2019:

Center for Forensic Science Research & Education issued a "Potent Synthetic Opioid" warning for isotonitazene

First synthesized in 1950s

Potency greater than Fentanyl



references

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Closing Thoughts

- Next Webinar is **Tuesday, August 4, 2020** from 12-1pm EST
- QI Topic: Scale and Spread Up
- Guest Topic: Pain Relief During Pregnancy, Labor, Surgery, Post-op
- Assignment: Register for 2-hour Stigma, Bias, and Trauma-Informed Care Training (<u>https://calendly.com/tictrainings/2hours</u>); Register for Buprenorphine Waiver Trainings and share with colleagues
- <u>Reminders:</u>
 - Please email or call with questions!



Questions or Concerns?



