#### Triage Through Discharge:

Leveraging the EHR in Tackling the Opioid Crisis

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# Opioid Crisis: How did wet get there?

- Insurers, healthcare providers, and pharmaceutical manufacturers
- Ways to positively impact and reverse this crisis
  - Partnerships
  - Leverage Technology
  - Recovery Programs
  - Data and Reporting



#### **Outline**

- Learning Objectives
- Overview:
  - RWJBarnabas Health
  - Institute for Prevention and Recovery
  - Peer Recovery Program (PRP)
    - Formerly known as the Opioid Overdose Recovery Program (OORP)
  - Opioid Crisis in New Jersey
- A rule-based CDS intervention in the Emergency Department
  - Implementation
  - Evaluation
- Recovery Specialist & Patient Navigators
- Expansion into the Inpatient units
  - Clinical Opiate Withdrawal Scale (COWS)
  - Order Sets
  - CDS intervention upon discharge
- Q&A

# Learning Objectives:

- Increase awareness of opioid overdose prevalence in the State of New Jersey
- Discuss the implementation of a rule-based clinical decision support (CDS) tool as part of an interdisciplinary opioid-related recovery screening process inclusive of success metrics and effectiveness of the program
- Summarize recovery specialist and patient navigator roles and responsibilities, incorporating the EHR documentation for the position and current status at RWJBH
- Identify the significance of the Clinical Opiate Withdrawal Scale and Opioid Withdrawal order set
- Describe incorporation of rule-based CDS tool when opioid is added during the discharge medication reconciliation process.

#### RWJBarnabas HEALTH

# **Our Organization**

- 11 Acute Care Hospitals
- 3 Acute Care Children's Hospitals
- A Freestanding 100-bed Behavioral Health Center
- State's Largest Behavioral Health Network
- Ambulatory Care Centers
- Geriatric Centers
- Medical Groups
- RWJBarnabas Health and Rutgers University Launch The State's Largest and Most Comprehensive Academic Health System



#### Institute for Prevention and Recovery





#### Overview

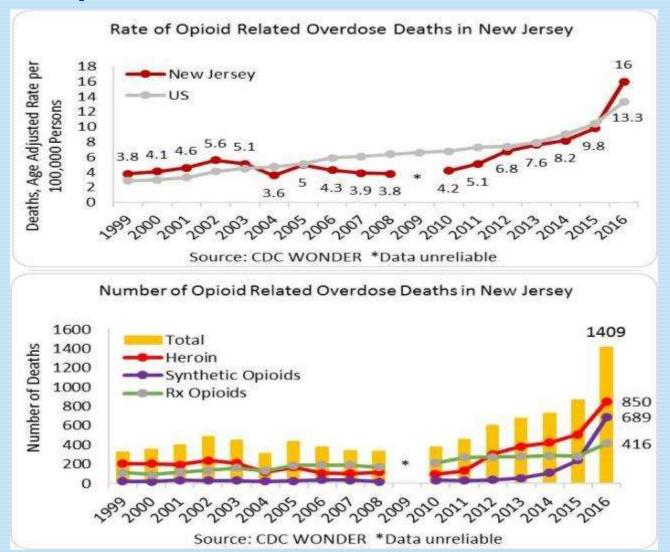
- RWJBH's Institute for Prevention and Recovery (IFPR)
  - Peer Recovery Program (PRP)
    - Formerly known as RWJBH Opioid Overdose Recovery Program (OORP)
    - Launched in 2016
    - Funded by The New Jersey Department of Health, Division of Mental Health and Addiction Services
    - Serves participating RWJBarnabas Health hospitals 24 hours a day, 7 days per week through full-time, hospital-based Recovery Specialists and Patient Navigators



- Opioids
  - Heroin
  - Synthetic opioids
    - Fentanyl
    - Oxycodone
    - Hydrocodone
    - Codeine
    - Morphine
- Heroin overdose is 3x the national average
  - 850 deaths in 2016, compared to 97 deaths in 2010
- Synthetic opioids rose from 35 to 689 deaths
- 1409 opioid overdose related deaths in 2016
  - 16 deaths per 100,000 in NJ
  - 13.3 deaths per 100,000 nationally
- NJ Providers prescribed opioids 55 per 100 persons (around 4.9 million prescriptions) in 2015

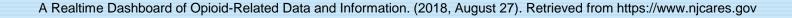


#### Stats: Opioid Crisis in New Jersey



#### **STATS: NJ 2018**

- Overdose Deaths (January 1 August 26, 2018)
  - **1,970**
- Naloxone Administration (January 1 July 31, 2018)
  - 9,162
- Opioid Prescriptions (January 1 August 23, 2018)
  - **2**,820,606



# Clinical Decision Support (CDS)



- Clinical Decision Support:
  - "HIT functionality that builds upon the foundation of an EHR to provide persons involved in care processes with general and person-specific information, intelligently filtered and organized, at appropriate times, to enhance health and health care."
- The availability of data captured through the EHR allows the ability to automate workflow processes to aid in the patient care delivery.

## Clinical Decision Support (CDS)



- Computerized alerts or reminders
- Clinical guidelines
- Condition-specific order sets
- Focused patient data reports and summaries
- Documentation templates
- Diagnostic support
- Relevant reference information

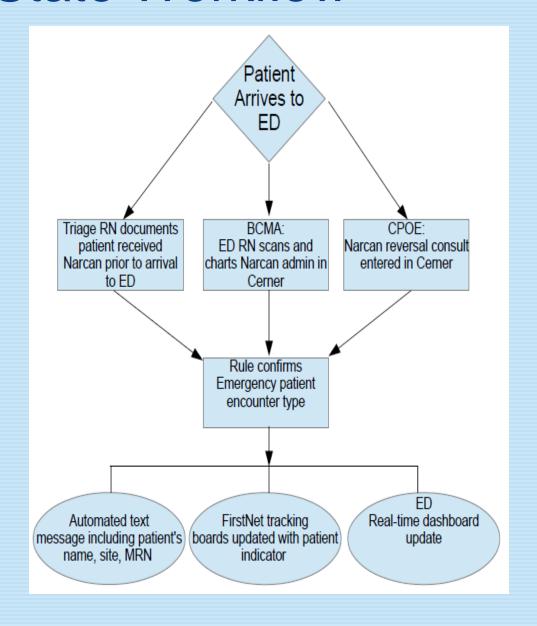
### **Project Timeline**

- A collaboration between the Enterprise Clinical Information Systems (ECIS), Institute for Prevention & Recovery, and Tackling Addiction Task Force
- Project timeline:
  - Sept. 2017
    - Discuss need of the Institute of Prevention & Recovery
    - Current state analysis
    - Plan and design a rule-based CDS
  - Oct. 2017
    - Presented through ED Collaborative
    - ECIS corporate change control
    - Build and test the rule-based CDS
  - Nov. 2017
    - End-user education
    - 11/16 Go-live!

#### **Current Workflow Analysis**

- ED staff communicates through phone call process
- Recovery support coordinator (remote) fields calls
- Coordinator contacts and deploys recovery specialist to assigned site
  - Remote, Per diem
  - Full time, Hospital-based, 24/7 coverage within the last 6 months
- Recovery specialist provides bedside intervention
- Patient navigator provides screening and engages treatment providers

#### **Future State Workflow**



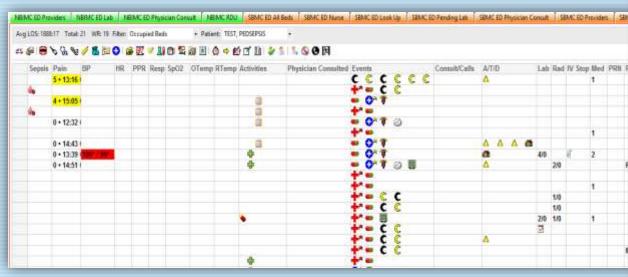
#### **Automated Text Messaging**

- Secured messaging
  - RWJBH issued mobile phones distributed to recovery specialists
  - Mobile Iron

ED Narcan (Naloxone) reversal consult for TEST, TEST1 | JCMC | JCMC ED | 000111111



# **ED Tracking Board**



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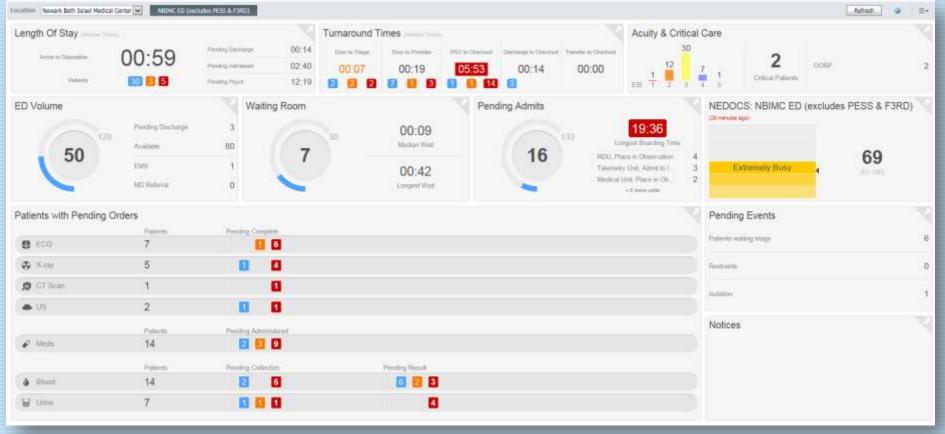
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Narcan Reversal

Narcan Reversal

#### **ED Real-Time Dashboard**





#### **Evaluation**

- 4 months of pre- and post-implementation data
  - Number of patients seen
  - Accepted bedside intervention
  - Accepted OORP services

#### **NBIMC**

	Pre- implementation	Post- implementation	% change
Patients seen	78	105	35%
Accepted bedside intervention	59	75	27%
Accepted OORP services	39	53	36%

# MSC

	Pre- implementation	Post- implementation	% change
Patients seen	36	66	83%
Accepted bedside intervention	28	51	82%
Accepted OORP services	26	36	38%

## SBMC

	Pre- implementation	Post- implementation	% change
Patients seen	15	19	27%
Accepted bedside intervention	15	13	13%
Accepted OORP services	15	13	13%

#### **JCMC**

	Pre- implementation	Post- implementation	% change
Patients seen	46	75	63%
Accepted bedside intervention	37	38	3%
Accepted OORP services	31	29	6%

## **MMC**

	Pre- implementation	Post- implementation	% change
Patients seen	24	47	96%
Accepted bedside intervention	19	38	100%
Accepted OORP services	17	31	82%

### CMC

	Pre- implementation	Post- implementation	% change
Patients seen	105	135	29%
Accepted bedside intervention	96	113	18%
Accepted OORP services	85	90	6%

# **CMMC**

	Pre- implementation	Post- implementation	% change
Patients seen	27	62	130%
Accepted bedside intervention	25	44	<b>76</b> %
Accepted OORP services	21	40	90%

# System (BH) Total

	Pre- implementation	Post- implementation	% change
Patients seen	331	509	54%
Accepted bedside intervention	279	372	33%
Accepted OORP services	234	292	25%



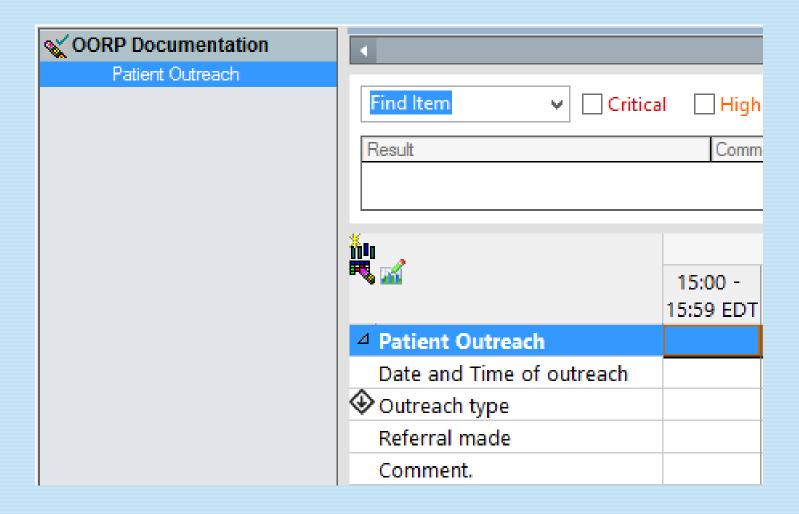
# Recovery Specialist

- Long-term recovery from substance use disorder
  - Peer-to-peer level
- Deployed to the patient's bedside following a non-physician order in the EHR
- Provides bedside intervention
- Follow-up
- Goal: Refer the patient to the appropriate level of care and into longterm recovery

# Patient Navigators

- Clinically-trained
- Links the individual to appropriate level of care
- Collaborates with:
  - Case Managers/Social Workers
  - Treatment and Detox facilities

# Recovery Specialist/Patient Navigator Documentation



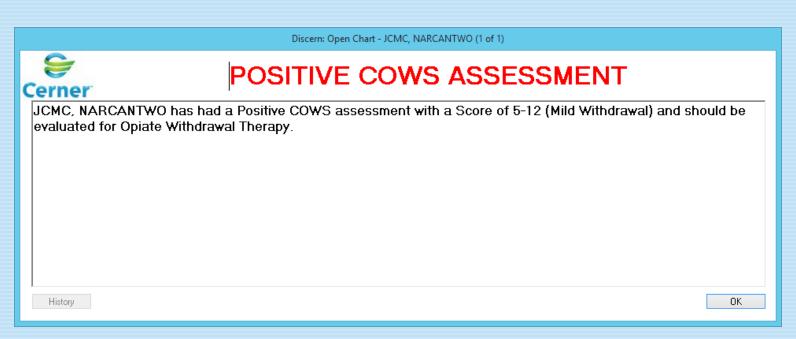
• "The Clinical Opiate Withdrawal Scale (COWS) is an 11-item scale designed to be administered by a clinician. This tool can be used in both inpatient and outpatient settings to reproducibly rate common signs and symptoms of opiate withdrawal and monitor these symptoms over time. The summed score for the complete scale can be used to help clinicians determine the stage or severity of opiate withdrawal and assess the level of physical dependence on opioids."

CONTRACTOR OF THE PROPERTY OF			
Clinical Opiate With	hdrawal Scale		
For Each Item, Score Based on What Best Describes the Patient's Sign Opiate Withdrawal.	is or Symptom. Rate on Just the Apparent Relationship to		
For Example: If Neart Rate is Increased Because the Patient was Jog NOT add to the Score.	ging Just Prior to Assessment, the Increased Pulse Rate wou	и	
Do you regularly take or use any narcotics/opicids such as Percocet/Vicodin/ Onycodone/Heroin/ Methadone?			
C Yes C No C Unable to access			
Resting Pulse Rate - Measured After Patient is Sitting or Lying for One Minute	Sweating: Over past 30 Minutes, not Accounted for by Room Temperature or Patient Activity		
C Less Than or Equal to SS 8PM C \$1-100 9PM C 101-120 9PM G geoder than 120 9PM	No Report of Chilb or Flashing Subjective Report of Chilb or Flashing Flashed or Observable Mosthess on Face Beach of Sweet withow or Face Sweet Steaming off Face		
Restlessness Observation During Assessment	Pupil Size		
Able to Sid Sid     Reports Difficulty Siting Sid But in Able to Do Sia     Reports Difficulty Siting Sid But in Able to Do Sia     Reported Shifting or Cultuments Movements of Legsillans     Unable to Sid Sid for More than a Few Seconds:	C Pupils Primed or Named Size for Room Light C Pupils Plansibly Larger from Named for Room Light C Pupils Moderately Dated C Pupils on Stated that Only the Plan of the line is Visible	Yawning Observed During Assessment  Next Next Next Next Next Next Next Next	Amilety or Irritability
Bone or Joint Aches: If Patient was Having Pain Previously, only the Additional Component to Opiate Withdrawal is Scored	Ranny Nose or Tearing not Accounted for by Cold Symptoms or Allergies	Yawang Dice or Teice Dung Assessment     Yawang Tiree or Nice Tiree Dung Assessment     Yawang Several Tiree or Mixub	Patient Reports Inchesting Inhibitely or Aroscustuss     Patient Obviously trabble (Aroscus     Patient to Inhibite or Amelius that Patiopation in the Assessment is Difficult
C Not present  Not present Not Discontint Not Discontint Pariety Report Series Discontint (Ching of Jointa Physician)	C Not passed C Wasel Staffness or Unasselly Most Eyes C Note Running or Tearing	Gooseflesh Skin	Score
C Patient is Rubbing-Joets or Muscles and is Unable to St Still Because of Discontract	C Note Constantly Running or Tears Running Dove Cheeks	Shin is Smooth     Florenceon can be Felt in Hairs Standergrup on Anna     Foreignest Planmetion.	
GI Upset: Over Last 30 Minutes	Tremor Observation of Outstreached Hands	Result: Do Not Modify the Final Result	
No Si Syeptoms Stones Charge Neuros or Louros Stool Vanistry or Disentes Multiple Episodes of Vanishing or Disentes	C No Tremo: C Tremo: Can be Fest, but not Observed C Signit Tremo: Observable C Signit Tremo: Observable C Signit Tremo: Of Muscle Twitching	C Less than 5 (No Signs of Withdrawa) C Greater from 36 (Severe Withdrawa) C 512 (Mod Withdrawa) C 13-84 (Moderale Withdrawa) C 35-96 (Moderale Withdrawa)	
		The National Allance of Advocates for Buprenorphire Treatment PO Box 333 o MakeContact@nasbt.org - https://www.nasbt.org/documents/COWS_induction Recognizing Opiate Withdrawal: https://www.bupgractice.com/node/1237m	Parmington, CT 06034 o _flow_sheet.pdf
		References: DSM-5 Office's for Opioid Withdrawal Published on BupPractice: https://www.buj Maintenance Therapy for Delekt Decendence - Dosing Guide:	ppractice.com

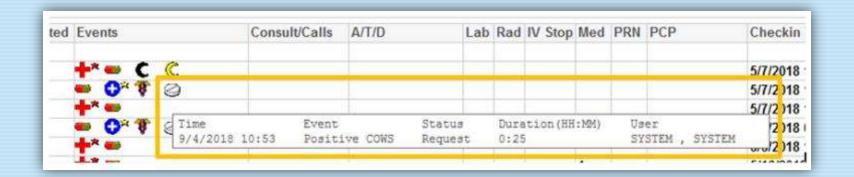
http://www.naabt.org/documents/RecketmantDosngGuideB.pdf



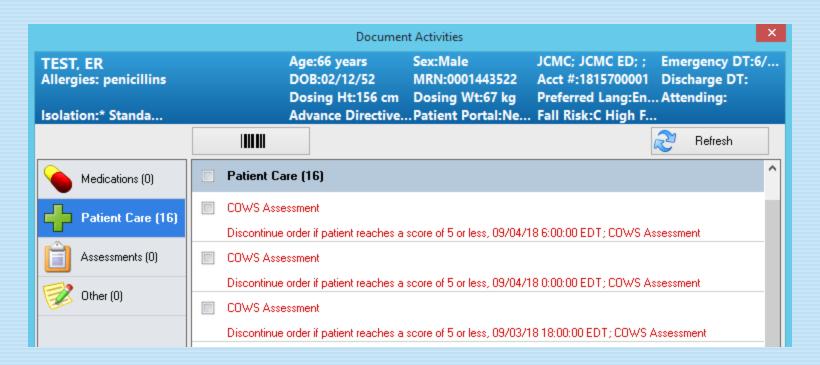
- 5-12 = Mild
- 13-24 = Moderate
- 25-36 = Moderately Severe
- >36 = Severe



A rule to update the ED tracking boards



#### A rule to task the RN



# Opioid Withdrawal Orderset

△ Medicati		
	Choose One; Acetaminophen or Ibuj	profen
П	acetaminophen	650 mg, Tablet, Oral, Every 6 Hr, PRN Pain-Mild 1-3
	ibuprofen	▼ 400 mg, Tablet, Oral, Every 6 Hr, PRN Pain-Mild 1-3
	☐ cloNIDine	<ul> <li>0.1 mg, Tablet, Oral, Every 8 Hr Intrvl, PRN Other (See Comments), Opiate Withdrawal Symptoms Hold for SBP less</li> </ul>
	Nausea- Choose 1- Trimethobenazmide or Ondansetron	
	📝 trimethobenzamide	▼ 300 mg, Capsule, Oral, Every 6 Hr, PRN Nausea/Vorniting
	ondansetron	▼ 4 mg, Tablet, Oral, Every 12 Hr, PRN Nausea/Vomiting
	Abdominal Cramps-Dicyclomine	
	dicyclomine	10 mg, Capsule, Oral, Every 6 Hr, PRN Other (See Comments), abdominal cramps
	<sup>6</sup> Diarrhea-Loperamide or Atropine-Dipenoxalate(Lomotil)	
	atropine-diphenoxylate	2 Tab, Tablet, Oral, Every 12 Hr, PRN Diarrhea
П	7 loperamide	2 mg, Capsule, Oral, Every 2 Hr, PRN Diarrhea, ADULT Max 16mg/day
	Withdrawal Symptom Management  Output  Description:  Output  Description:  Withdrawal Symptom Management  Output  Description:  Output  Description:	
₹	buprenorphine	8 mg, Tablet-Sublingual, SubLINgual, Once, Duration: 1 Dose, Buprenorphine 8mg PO Day 1 Only
₽	📝 buprenorphine	6 mg, Tablet-Sublingual, SubLINgual, Daily, Start: T+1;0900, Duration: 1 Dose, Buprenorphine 6mg PO Day 2 Only
F	Duprenorphine	4 mg, Tablet-Sublingual, SubLINgual, Daily, Start: T+2;0900, Duration: 1 Dose, Buprenorphine 4mg PO Day 3 Only
F	buprenorphine	2 mg, Tablet-Sublingual, SubLINgual, Daily, Start: T+3;0900, Duration: 1 Dose, Buprenorphine 2mg PO Day 4 Only
₹		0.1 mg, Tablet, Oral, Every 6 Hr, PRN Other (See Comments), Withdrawal Symptoms COWS 5 to 24 or for breakthrou
₹	hydrOXYzine	50 mg, Capsule, Oral, Every 6 Hr, PRN Anxiety
⊿ Laborato		
П	ALC (Alcohol Level Serum)	Blood, T <sub>2</sub> N
	🗃 Beta hCG Qual	Blood, T;N
△ Consults	다. 이 회원 다.	
П	Referral to Substance Use Disorder Recovery Support (	Opioid withdrawal, T;N
	Referral to Social Worker	Priority: Routine, Reason: opioid withdrawal, T;N

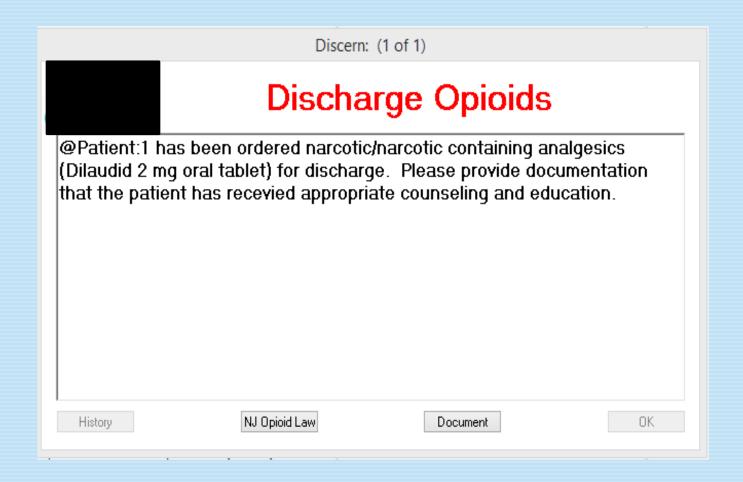
### Buprenorphine

- It's an opioid medication used to treat opioid addiction
- At the correct dose, buprenorphine may suppress cravings and withdrawal symptoms and block the effects of other opioids

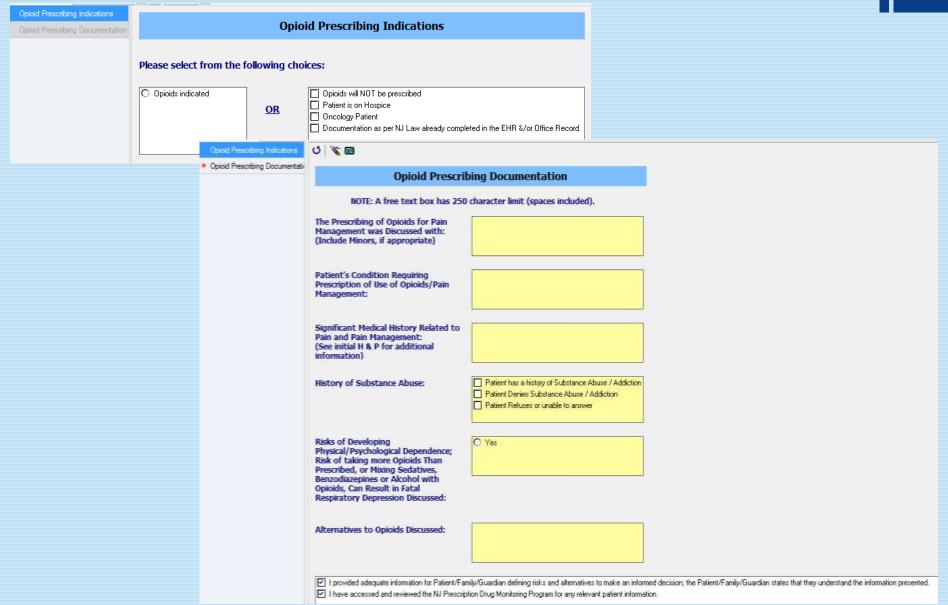
"The goal of using buprenorphine for medically supervised withdrawal from opioids is to provide a transition from the state of physical dependence on opioids to an opioid-free state, while minimizing withdrawal symptoms (and avoiding side effects of buprenorphine)."

#### Discharge Medication Reconciliation





# Opioid Prescribing Documentation



#### What Can Be Done?

- Healthcare Providers can:
  - Prescribe opioids only when benefits are likely to outweigh the risk
  - Determine a patient's prescription drug history and level of risk by accessing data from the State's prescription drug monitoring program (PDMP)
  - Identify mental health, social services, and treatment options to provide appropriate care for patients who have opioid use disorder
- Everyone can:
  - Learn about the risks of opioids. <a href="https://go.usa.gov/xn6um">https://go.usa.gov/xn6um</a>
  - Learn about naloxone, its availability, and how to use it. https://go.us.gov/xn6uV
- CDC Rx Awareness Campaign:
  - https://www.cdc.gov/rxawareness/resources/video.html

#### Formula for Success

#### IFPR Joins Milken Institute Opioid Prevention Collaboration

RWJBarnabas Health Institute for Prevention and Recovery recently joined the Milken Institute Opioid Prevention Collaboration meeting focused on prevention, the opioid crisis and the DEA 360 Strategy efforts in Newark. The action-oriented meeting highlighted the efforts of Newark community leaders and DEA 360's three-pronged approach to fighting drug trafficking and opioid abuse. Michael Litterer, Director, Prevention and Recovery, RWJBarnabas Health Institute for Prevention and Recovery, moderated a prevention science executive roundtable for



Michael Litterer, Director, Prevention and Recovery, RWJBarnabas Health IFPR.

government officials, health care, education, business and faith-based leaders.

#### **RWJBH Behavioral Health Center**

Peer Recovery Specialists Continue to Make an Impact at the BHC—Peer recovery specialists of the Peer Recovery Program, Institute for Prevention and Recovery, working directly with the Behavioral Health Center patients and collaborating with behavioral health staff and clinicians, continue to make an impact on patients who are admitted with substance use disorders. Kevin Murphy is the latest peer recovery specialist to be mentioned by name in a positive manner, with a direct correlation to the patient experience on the BHC inpatient Press Ganey surveys. The peer recovery specialists and navigator assigned to the BHC are integral parts of the patient's treatment team when called upon to engage the patient and link the individual with appropriate treatment and recovery services. In particular, they have been invaluable to the Voluntary Unit at the BHC.

Kevin Murphy, Peer Recovery Specialist, and Sheryl Schneider, Director Patient Care, Voluntary Unit, meet with a BHC patient to discuss treatment options.



"It's not that some people have willpower and some don't. It's that some people are ready to change and others are not."

– James Gordon, MD

"Remember that just because you hit bottom doesn't mean you have to stay there."

- Robert Downey Jr.

# Q&A



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