

Anika Alvanzo, MD, MS, DFASAM, FACP Eastern Region Medical Director, Pyramid Healthcare, Inc. October 23, 2020 Opioids, Overdose and the Impact of the Coronavirus Pandemic

Disclosures

- Pyramid Healthcare, Inc.
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 Board Member

Learning Objectives

- •Describe the epidemiology of the current opioid overdose crisis
- •Discuss the potential impacts of the Covid-19 pandemic on the overdose crisis
- Understand how providers can respond to opioid use disorder and overdose

Overdose Death Rate 1999 - 2018

Figure 1. Age-adjusted drug overdose death rates, by sex: United States, 1999–2018



Overdose Deaths Involving Opioids, 1999 - 2018



https://www.cdc.gov/nchs/data/databriefs/db356-h.pdf

Opioid Use and Hospitalization

- •1999 2006: 65% \uparrow in hospitalizations for poisoning by prescription opioids, sedatives, and tranquilizers
- •2002 2012: 1.9 fold ↑ in hospitalizations for opioid use disorder (OUD)
- •2-fold increase in OUD-associated skin and soft-tissue infections
- •5-fold increase in neonatal abstinence syndrome (NAS)/neonatal opioid withdrawal syndrome (NOWS) between 2004 -2014
- >60% with fatal overdose had ≥1 hospitalization or ED visit, for any reason, in the 1 year prior

Hospitalization may be "teachable moment"

Winkelman, et. al., 2018 Ronan and Herzig, 2016 Gserjing, et. al., 2016 Cohen, et. al., 2010 Seal, et. al., 2001

Maryland Overdose Deaths, 2010 - 2019



https://health.maryland.gov/vsa/Documents/Overdose/Annual_2019_Drug_Intox_Report.pdf

Maryland Overdose Deaths by Substance, 2010 - 2019



https://health.maryland.gov/vsa/Documents/Overdose/Annual_2019_Drug_Intox_Report.pdf



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This article is more than **2 months** old

'Cries for help': Drug overdoses are soaring during the coronavirus pandemic

Health

Suspected overdoses nationally jumped 18 percent in March, 29 percent in April and 42 percent in May, data from ambulance teams, hospitals and police shows.

COVID-19 pandemic deals setback to Maryland's opioid progress



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Since the COVID-19 pandemic lockdown began, the nation has been seeing double-digit increases in the numbers of opioid overdoes and deaths compared with last year. But



- Multijurisdictional public health and public safety data
- Links first-responder systems and record management systems with geo mapping data
- Hosted at University of Maryland Baltimore

Suspected overdoses nationally — not all of them fatal — jumped <u>18 percent</u> in March compared with last year, <u>29</u> percent in April and <u>42 percent</u> in May, according to the Overdose Detection Mapping Application Program, a federal initiative that collects data from ambulance teams, hospitals and police.

https://www.washingtonpost.com/health/2020/07/01/coronavirus-drug-overdose/





Maryland Opioid-Related Deaths, January – June 2020

Figure 2. Opioid-Related Fatalities

2011 through the Second Calendar Quarter, 2020*



https://beforeitstoolate.maryland.gov/wp-content/uploads/sites/34/2020/09/Second-Quarter-OOCC-Report-2020-Master-Copy-9-21-20-Update.pdf

Impacts of Covid-19

- Increased stress
 - Fear of illness
 - Financial strain
 - Job loss
- Exacerbation of psychiatric symptoms
- •Grief, loss and trauma
- Increased unstructured time/boredom

Impacts of Covid-19

- •Loss of or reduction in recovery supports
 - Group counseling
 - Self/mutual help (NA, AA Smart Recovery)
 - Religious/Spiritual communities (church, mosque, synagogues)

Social isolation

No one there to administer naloxone

DSM-5 Opioid Use Disorder

Physiology

Tolerance

Withdrawal

Loss of Control

Use more than intended

Inability to cut down or control use

Give up important activities

Craving

Great deal of time obtaining, using, recovering

Consequences

Continued use despite physical/psych problems

Role failure

Recurrent interpersonal /social problems

Use in hazardous situations

Mild: 2-3 symptoms; Moderate: 4-5 symptoms; Severe: ≥ 6 symptoms

- Identify and Respond
 - Universal screening, brief intervention and treatment or referral as appropriate for substance misuse
 - Check in with patients with substance use histories

NIDA <i>Quick Screen</i> Question: In the past year, how often have you used the following?	Never	Once or Twice	Monthly	Weekly	Daily or Almost Daily
Alcohol					
• For men, 5 or more drinks a day					
• For women, 4 or more drinks a day					
Tobacco Products					
Prescription Drugs for Non-Medical Reasons					
Illegal Drugs					

- •Know national, state and local resources
 - American Society of Addiction Medicine (ASAM) Covid-related Guidance
 - <u>https://www.asam.org/Quality-Science/covid-19-coronavirus</u>
 - Local State Chapter
 - State Crisis Line
 - Local Health Department

- Prescribe/Dispense Naloxone
 - Patients
 - Histories of substance use disorder
 - Prescribed opioid analgesics
 - Family members and close contacts of patients

•Treat Opioid Use Disorder in your Practice

- Training (8 hours for MD, 24 hours for NPs/PAs)
 - Provider Clinical Support System (PCSS)
 - American Society of Addiction Medicine (ASAM)
- Provider Clinical Support System (PCSS)
 - Paired mentor for assistance with buprenorphine prescribing

FDA Approved Medications for Opioid Use Disorder



	Methadone	Buprenorphine	Naltrexone
Mechanism of Action	Full opioid agonist	Partial opioid agonist	Opioid antagonist
DEA Schedule	Schedule II	Schedule III	Unscheduled
Treatment Location	SAMSHA-approved Opioid Treatment Programs (OTPs)	OTPs or Office-Based Opioid Treatment (OBOT)	Any setting
Available at Retail Pharmacy for Addiction?	No	Yes (except for injectable form)	Yes (except for injectable form)
Precautions	Benzodiazephines or other sedative-hypnotics should be used with extreme caution but <u>should</u> <u>not prohibit initiation</u> of treatment.	Patients with physical dependence should be in withdrawal at initiation. Benzodiazephines or other sedative- hypnotics should be used with extreme caution but <u>should not</u> <u>prohibit initiation</u> of treatment.	Requires 7 -10 days of abstinence before initiation

Benefits of Opioid Agonist Pharmacotherapy

- •More effective than placebo in \downarrow illicit opioid use
 - (Self reports, urine toxicology)
- Good treatment retention
- Saves lives
 - **2.2 3.2x** mortality rate when off of buprenorphine or methadone
- Improvements in other recovery areas
 - Decreased criminal activity
 - Reduction in HIV & HCV transmission
 - Increase in employment

METZGER, ET. AL. (1993) JAIDS TORRENS, ET. AL, (1997) ADDICTION MARSCH (1998) ADDICTION JOHNSON ET AL. (2000) NEJM. FUDALA ET. AL. (2003) NEJM. KAKKO J ET AL. (2003) LANCET.

Injectable Naltrexone (XR-NTX) Efficacy

- Compared to placebo
 - Increased abstinence
 - Decreased cravings
- Compared to buprenorphine
 - More difficult to start patients on XR-NTX than BUP-NX (24-week trial)
 - 28% vs 6% unable to be initiated
 - Similar effectiveness if patients can get on it

Krupitsky E et al. Lancet 2011 Lee, et. al., Lancet 2018 Medications for Addiction Treatment (MAT): Goals

- •Minimize harms of continued drug use
- Alleviate signs/symptoms of physical withdrawal
- •Opioid receptor blockade
- •Diminish and alleviate drug craving
- •Normalize and stabilize perturbed brain neurochemistry
- •Save Lives

Buprenorphine Treatment for Hospitalized, Opioid-Dependent Patients

- •139 inpatients on general medicine service (Aug 2009 Oct 2012)
 - 67 randomized to detoxification
 - 72 randomized to buprenorphine prescription + linkage

•Outcomes

- Treatment entry: [52 (72.2%) vs. 8 (11.9%), P < .001]</p>
- Buprenorphine at 6 months f/u: [12 (16.7%) vs. 2 (3.0%), P = .007)]
- Self-reported prior 30-day illicit opioid use: (0.60; 95% CI, 0.46-0.73; P < .01)</p>

Emergency Department–Initiated Buprenorphine/Naloxone

- •329 Emergency Department patients (Apr '09 Jun '13)
 - 104: screening + referral
 - 111: screening, brief intervention + facilitated referral
 - 114: screening, brief intervention + buprenorphine prescription with primary care referral

Outcomes

- Treatment at 30-day f/u: [89 (78%) vs. 50 (45%) vs. 38 (37%), p < .001]
- Self-reported days of illicit opioid use: [5.4 days to 0.9 days vs. 5.6 days to 2.4 days vs. 5.4 days to 2.3 days, p < .001]
- Urine toxicology (% negative): 58% vs. 43% vs. 54%, NS

Implications for Hospital Medicine Providers

Strongly consider buprenorphine certification

•Instead of buprenorphine taper protocols for opioid withdrawal, we should strongly consider buprenorphine initiation protocols

•Buprenorphine bridges to treatment for patients



Implications for Ambulatory Medicine Providers

Strongly consider buprenorphine certification and waiver

Integrate opioid use disorder treatment into your practice

•Need to be on the other side of the bridge to receive the patients



#TreatAddictionSaveLives