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#### Joint Meeting of the Anesthetic and Analgesic Drug Products Advisory Committee, and the Drug Safety and Risk Management Advisory Committee

#### 17-18 December 2018

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- Role of Naloxone in the Opioid Overdose Public Health Crisis
- Expanded Access to Naloxone
  - Risk Factors
  - Universal Precautions
- Naloxone Implementation
  - Challenges and Recommendations

# > Responding to a Dynamic Public Health Crisis

#### **Prescribed opioids**

Co-prescribing take-home naloxone to patients on opioid analgesics or medication assisted treatment (MAT)<sup>1-3</sup>

#### **Opioid Use Disorder (OUD)**

Patients who are being treated for OUD and their family members/significant others should be given prescriptions for naloxone and trained in the use of naloxone in overdose<sup>3</sup>



#### Heroin

Overdose education and naloxone distribution to opioid users and their families and peers<sup>4</sup>

#### **Synthetic opioids**

Illicit fentanyl and fentanyl analogs can trigger rapid onset and progression of overdose: prompt treatment with multiple naloxone doses may be required to reverse overdose<sup>5</sup>

1. Dowell D et al. *MMWR Recomm Rep* 2016;65:1-49. 2. Federation of State Medical Boards. *Guidelines for the Chronic Use of Opioid Analgesics*. 2017. 3. ASAM. *The ASAM National Practice Guideline for the Use of Medications in the Treatment of Addiction Involving Opioid Use*. 2015. 4. Maxwell S et al. *J Addict Dis* 2006;25:89-96. 5. O'Donnell JK et al. *MMWR Morb Mortal Wkly Rep* 2017;66:1197-202.

## > Opioids and Chronic Diseases

#### **Chronic Pain**

- 5-8 million patients rely on opioids for long term management of pain<sup>1</sup>
- 25% decline in total number of opioid prescriptions dispensed 2012-2017<sup>2</sup>

#### **Opioid Use Disorder (OUD)**

- 2.1 million people (12 and older) with Opioid Use Disorder in 2017<sup>3</sup>
- Crucial need to expand access to evidence-based treatments, including medication-assisted therapy (MAT)<sup>4</sup>
- High rates of relapse<sup>5</sup>

1. Reuben DB, et. al. Ann Intern Med. 2015;162 (4):295-300 2. https://www.cdc.gov/drugoverdose/maps/rxrate-maps.html . Accessed 13 Dec 2018. 3. NSDUH 2017. SAMHSA. 4. https://www.cdc.gov/drugoverdose/prevention/treatment.html. Accessed 29 Nov 2018. 5. Hser Y-I, et al. *Harv Rev Psychiatry*. 2015;23:76-89

## Naloxone – Expanded Access is Recommended

Many organizations strongly recommend that naloxone and opioid overdose education be readily accessible to individuals likely to witness a lifethreatening opioid overdose (World, Federal, State, Medical)



**Take-Home Naloxone (THN)** 

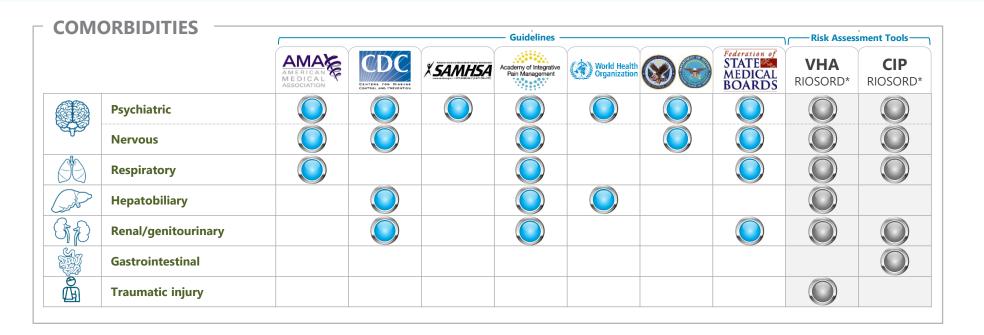
Considerations for Risk-Based vs Universal Prescribing<sup>1</sup>

RISK-BASED THN PROS	CONS				
Reaches a defined at-risk population	Time consuming				
Engages patients in conversations	Complicated				
about risk	May miss patients at risk				
UNIVERSAL THN					
Reaches a broader population	Increased pharmaceutical spend				
Less targeting/stigma	More potential for rare adverse events				
More efficient to HCP office	and inappropriate administration				

1. Binswanger I. https://www.fda.gov/downloads/Drugs/NewsEvents/UCM454769.pdf. Accessed January 11, 2018.

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### > Opioid Overdose Risk Factors



TREATMENT-RELATED										
P <sub>X</sub>	ER/LA formulations									
	Benzodiazepines									
24.	MME/day	HIGH	≥50	HIGH	HIGH	HIGH	>90		≥20	≥100
<b>₽</b> <sub>X</sub>	Duration of opioid therapy									
	Prior opioid overdose									

VHA = Veterans' Health Administration;

CIP= Commercial Insured health Plan;

RIOSORD = Risk Index for Overdose or Serious Opioidinduced Respiratory Depression;

ER/LA = extendedrelease/longacting.

## > Two Recent Studies Examined a Universal Precautions Approach to Overdose Education and Naloxone

#### • Universal Precautions - <u>Chronic Pain<sup>1</sup></u>

Prospective, single site, n=164 (18 or older), median morphine equivalent dose of 90 med/day, overdose education and naloxone instruction provided

- Difficulty of predicting which patients on chronic opioid therapy (COT) will experience opioid overdose
- In previous studies, naloxone was given to only high risk patients
- Universal Precautions (all patients receiving COT) may have significant impact on intentional and unintentional overdose deaths

#### • Universal Precautions - <u>Opioid Use Disorder<sup>2</sup></u>

Prospective, single site, n=244 (18 or older) in medication assisted treatment; overdose education and naloxone instruction provided

- There is evidence that take home naloxone can help prevent opioid overdose deaths in targeted populations
- Participants with a diagnosis of OUD in an outpatient treatment program (OTP) setting were enrolled
- Study suggests a model for naloxone could be replicated in other OTP settings to reduce opioid overdose deaths

1. Takeda M. et al.. Subst Abus. 2016;37:591-596. 2. Katzman, J. et al. J Addict Med. 2018;12:113-8

## Treating Chronic Conditions is Challenging A Clinician's Perspective

- Chronic Pain and Opioid Use Disorder (OUD) are chronic conditions
  - Goals of any long term chronic disease (i.e. diabetes, asthma) are to maximize benefits while managing risk of treatments and progression of disease
    - Individualized treatment for these conditions can drain resources (time, energy, finances)
    - Optimal management of these and other chronic conditions involves other individuals as well (family, friends, other caregivers)
  - Limited data on effective long-term therapies to treat Chronic Pain and OUD
  - With any chronic condition, relapse (of some degree) is expected
  - Return to function vs. symptom reduction
  - Chronic management vs. cure



#### • Naloxone should be an integral component of treatment for patients:

- On chronic opioid therapy; or
- With a diagnosis of OUD
- Health care providers, pharmacists and patients should be educated on naloxone as a life-saving, emergency intervention for opioid overdose
- Access to naloxone should be increased for:
  - People who misuse or abuse opioids, and are not in treatment (harm reduction / naloxone distribution programs)
  - Concerned family members and friends (accidental exposure, potential witness)



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