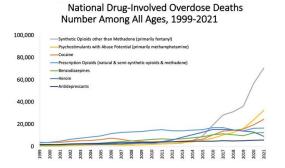
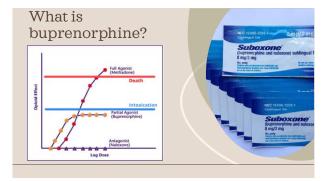
## Buprenorphine: Managing Opioid Use Disorder

#### J. Luke Engeriser, MD, DFAPA, DFASAM

Residency Program Director, Psychiatry Fellowship Program Director, Addiction Media Associate Professor USACON, Department of Psychiatry Deputy Chief Medical Officer AtaPointe Health

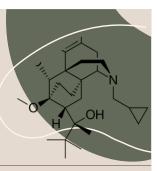


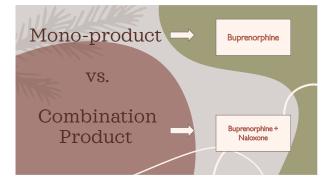


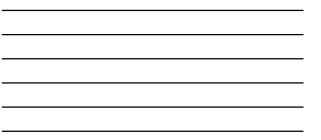


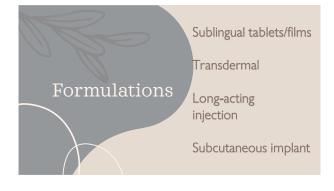
#### **Regulatory History**

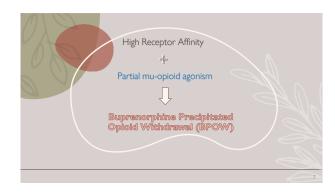
- Approved by FDA 2002 to be prescribed for OUD under the Drug Addiction Treatment Act of 2000 (DATA 2000)
- Physicians needed to apply for a DEA waiver after completing an 8-hour course
   Comprehensive Addiction and Recovery Act (CARA) in 2016 extended prescribing authority to NPs and Pas who obtain waiver
- aver
  In 2023, Consolidated Appropriations Act eliminated the waiver program
  All providers with DEA registration can now prescribe buprenorphine for OUD











## Managing Withdrawal/BPOW

Joint pain	Nausea/vomiting	Diarrhea	Hot/cold flashes Restlessness	Anxiety	
Ibuprofen	Ondansetron	Loperamide	Clonidine	Gabapentin	
Acetaminophen				Benzodiazepines	
		All of the above			
		Ketamine?			



#### Diagnosing Opioid Use Disorder (OUD)

- Opioids are often taken in larger amounts or over a longer period of time than intended.
- There is a persistent desire or unsuccessful efforts to cut down or control opioid use.
- A great deal of time is spent in activities necessary to obtain the opioid, use the opioid, or recover from its effects.
- Craving, or a strong desire to use opioids.

#### Diagnosing Opioid Use Disorder (OUD)

- Recurrent opioid use resulting in failure to fulfill major role obligations at work, school or home.
- Continued opioid use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of opioids.
- Important social, occupational or recreational activities are given up or reduced because of opioid use.
- · Recurrent opioid use in situations in which it is physically hazardous

 Continued use despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by opioids.

#### Diagnosing Opioid Use Disorder (OUD)

• Tolerance, as defined by either of the following:

 $(a)\ a$  need for markedly increased amounts of opioids to achieve intoxication or desired effect

(b) markedly diminished effect with continued use of the same amount of an opioid  $% \left( {{{\rm{D}}_{\rm{s}}}} \right)$ 

- Withdrawal, as manifested by either of the following:
  - (a) the characteristic opioid withdrawal syndrome

(b) the same (or a closely related) substance are taken to relieve or avoid withdrawal symptoms



- Last use
   Treatment history
   Problems resulting from drug use.
   Experiences with buprenorphine

## Opioid Intoxication vs. Withdrawal

#### Intoxication

- Drooping eyelids
- Constricted pupils
- Reduced respiratory rate
- Scratching (due to histamine release)
- Head nodding

#### Withdrawal

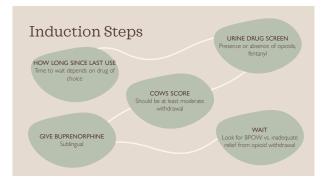
- Restlessness
- Irritability/anxiety
- Yawning
  - Abdominal cramps, nausea, diarrhea • Dilated pupils
- Sweating

  - Piloerection

#### How should I react to a positive UDS?

- Buprenorphine is a risk reduction strategy
- A positive drug screen in itself should not be a reason to deny/stop treatment
- Drug screens positive for fentanyl or methadone require caution
- Benzodiazepines, barbiturates, and alcohol can increase risk of overdose
- Continued positive UDS on follow-up appointments
   may require a change in treatment strategy





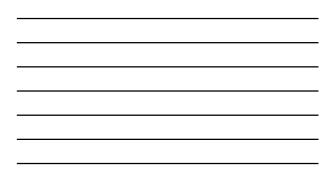
#### Clinical Opiate Withdrawal Scale (COWS)

Resting PANE Rate — — — benchmisser. Maximum of day particles institute or bing for the particle and the set of the particle and the set of th	here or phat subs (f pation was having pain provind), op/shadilinoid imperiment ambient of the proving of the phate of the phate of the phate of the phate of the phate and difficult accordent approximation of the phate of the phate approximation of the phate of the phate of the phate approximation of the phate of the phate of the phate of the phate approximation of the phate of the phate of the phate of the phate approximation of the phate of t	Varming Observation during assessment 0 so yearing a constraint of the second	
1 reports difficulty sitting still, but is able to do so 3 frequent shifting or extraneous movements of legs/arms 5 unble to sit still for more than a few seconds Pupil size	1 storach cramps 2 nausea or loose stool 3 vomiting or diarrhea 5 multiple exisodes of diarrhea or vomiting		
0 pupils pointed or normal size for noom light 1 pupils possibly larger than normal for room light 2 pupils moderately dilated 5 pupils so dilated that only the rim of the iris is visible	Tremor observation of outstretched hunds O no tremor I termor can be felt, but not observed 2 slight tremor ohservable 4 gross tremor or muscle twitching	Total Score The total score is the sum of all 11 items Initials of person completing assessment:	

Source: Wesson, D. R., & Ling, W. (2003). The Clinical Opiate Withdrawal Scale (COWS). J Psychoactive Drugs, 35(2







## Induction Settings

- OFFICE

HOME o Comfortable for patient

Home Induction

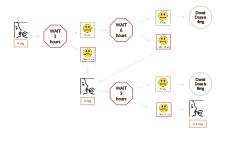
#### Buprenorphine - Beginning Treatment at Home

Before taking a buprenorphine tablet you want to feel lousy from your withdrawal symptoms. Very lousy! It should be at least 12 hours since you used heroin or pain pills (Roxicet, Vicodin, Lortab, etc.) and at least 24 hours since you used methadone or fentany!.

Wait it out as long as you can. The worse you feel when you begin the medication, the better it will make you feel and the more satisfied you will be with the whole experience.

- You should have a least 3 of the following feelings: twittching, tremors or shaking joint and bone aches bad chils or sweating anxious or imitable goose pimples very restless, can's is still heavy yawning enlarged pupits runny nose, tears in eyes stomach cramps, nausea, vomiting, or diarrhea Attacher Lipho Council Discus D Council 1981 Homespon

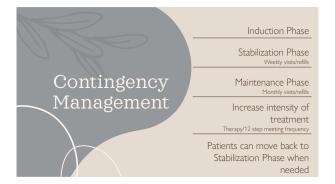
7



### Typical dosing

- Goal is to eliminate severe cravings that may lead to relapse
- Typical dose 8-16 mg per day
- Dose does not need to be divided, but many patients prefer to take BID or TID
- Doses > 24 mg rarely effective, BUT this may be different with fentanyl
- Suboxone 8/2mg = Zubsolv 5.7/1.4 mg





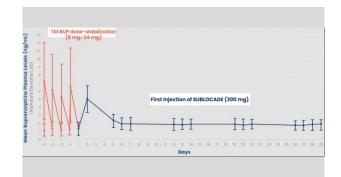
## Reducing buprenorphine diversion

Visit Frequency	Weekly visits/medication fills early in treatment
Dosing	Use lowest effective dose
Drug testing	Look for buprenorphine and metabolites
Medication & wrapper counts	Random call-ins

#### Long-Acting Injectible Buprenorphine

Sublocade\* (buprenorphine extended-release) injection for subcutaneous use & 100mg-300mg

#### Brixadi (buprenorphine) extended-release injection for subcutaneous use (1) Weekly 8-16-24-32 mg Monthly 84-96-128 mg



Pregnant patients Buprenorphine is increased during pregnancy – are cravings being controlled?

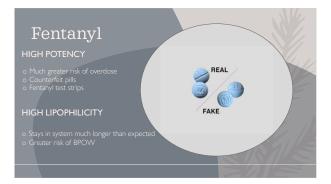
o Can (should) continue buprenorphine witl lactation



#### Acute pain & surgery

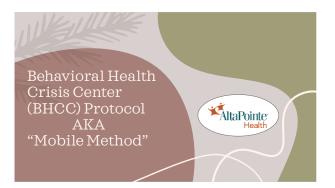
o Use adjunctive medications for pain (ibuprofen, acetaminophen, gabapentin)



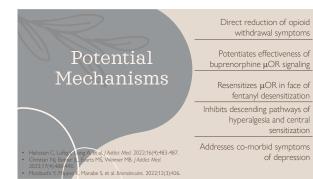










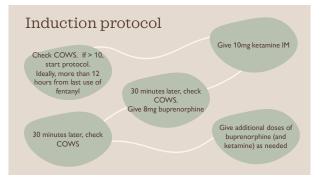


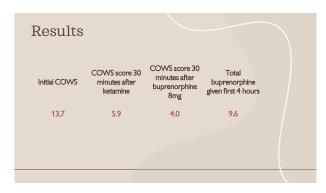
12

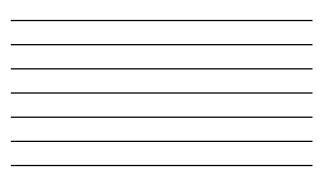
# Our burning question

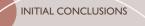
Could low-dose intramuscular ketamine assist in preventing BPOW when transitioning from fentanyl to buprenorphine?











Low-dose intramuscular ketamine was well tolerated, safe, and appears to have been successful in decreasing the frequency of BPOW

## Transition from Methadone

1. Taper dose to 30mg daily

- 2. Wait 24-48 hours from last use of methadone (the longer the better)
- 3. Patient should be in at least moderate withdrawal (COWS>10)

4. Start with 2-4 mg buprenorphine. If withdrawal improves, give additional 2-8 mg until withdrawal symptoms relieved

#### Summary

20XX

Buprenorphine is a safe and potentially life-saving medication for individuals with opioid use disorder.

Alabama is in desperate need for more providers to be comfortable prescribing this medication.



