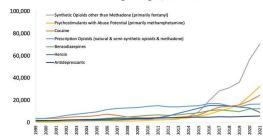


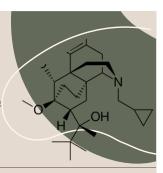
National Drug-Involved Overdose Deaths Number Among All Ages, 1999-2021

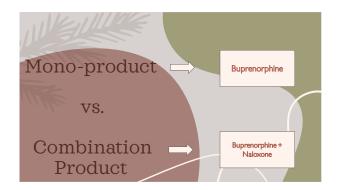


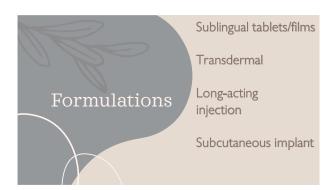
What is buprenorphine? Full Agonts (Methodose) Death Intoxication Partial Agonts (Represcriphed) Antagonts (Represcriphed) Log Dese

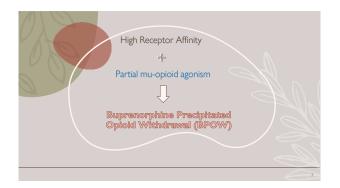
Regulatory History

- 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
- In 2023, Consolidated Appropriations Act eliminated the waiver program
 All providers with DEA registration can now prescribe buprenorphine for OUD













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: (2) A part of the sound of	
(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	
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	

9	UESTIONS TO ASK ABOUT OPIOID USE
	1. Type and amount of opioid(s) used recently 2. Route of administration 3. Last use 4. Treatment history 5. Problems resulting from drug use. 6. 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?

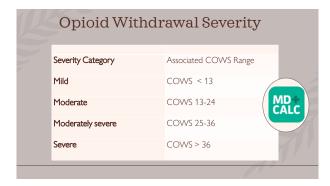
- Buprenorphine is a risk reduction strategy
- A positive drug screen in itself should not be a reason to deny/stop treatment
- Drug screens positive for fentanyl or methadone require caution
- Benzodiazepines, barbiturates, and alcohol can increase risk of overdose
- Continued positive UDS on follow-up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



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Resting Pulse Rate: beato/minute Measured after patient is sitting or lying for one minute 0 pulse rate 80 or below 1 pulse rate 81-100 2 pulse rate 101-120 4 usies rate restore than 120	Bone or Joint aches If patient was having pain previously, only the additional componen attributed to opinize withfluwed is zoored. Once present imid diffuse discomfort. 2 patient reports severe diffuse aching of joint/muscles. 4 outent is rubbine points or muscles and is unable to six	Vawning Observation during assessment 0 no yawning 1 yawning once or twice during assessment 2 yawning three or more times during assessment 4 yawning several times/mutet
Sweating: over past 1/2 hour not accounted for by room temperature or patient activity. On report of chils or Hushing: 1 subjective report of chils or Hushing: 2 Hushed or observable mointeness on face: 3 heads of sweat on brow or face: 4 weeks treatment of face:	still because of discomfort Runny none or tearing Net accounted for by cold symptoms or allergies 0 not present instal staffiness or unusually moist eyes 2 nose running or tearing 4 nose constantly running or tears streaming down cheeks	Anxiety or Irritability O none I patient reports increasing irritability or anxiousness 2 patient obviously irritable or anxious 4 patient so irritable or anxious difficult Gooseffesh skin
Restlessness Observation during assessment 0 able to six still 1 reports difficulty sitting still, but is able to do so 3 frequent shifting or extraneous movements of legularms 5 mable to six still for more than a few seconds Pupil size	GI Upset: over last 1/2 hour 0 no GI symptoms 1 stomach cramps 2 nausea or loose stool 3 vomiting or diarrhea 5 multiple coiled of diarrhea or veeniting	3 piloerrection of skin can be felt or hairs standing up on arms 5 prominent piloerrection
O pupils pinned or normal size for room 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 hands 0 on tremor 1 tremor can be felt, but not observed 2 slight tremor otherwable 4 gross tremor or muscle twitching	Total Score The total score is the sum of all 11 items at lating assessment:



INPATIENT FACILITY	OFFICE	HOME
	Has generally been not practical for most	
May be unavailable geographically and may not be affordable		

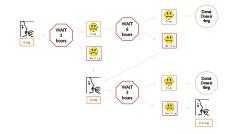


Buprenorphine - Beginning Treatment at Home

Before taking a buprenorphine tablet you want to feel lousy from your withdrawal symptoms. Very lousyl 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 fentanyl.

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:
 twitching, tremors or shaking
 joint and bone aches
 bad chills or sweating
 ansious or irritable
 goose pimples
 very restless, can't sit still
 heavy yawning
 enlarged pupils
 runny nose, tears in eyes
 stomach cramps, nausea, womiting, or diarrhea
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Adapted from: Lee |D, Grossman E, DiRocco D, Gourevitch MN. Home buprenorphine/naloxone induction in primary care. | Gen Intern Med. 2009;24(2):226-23.

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

Always prescribe naloxone

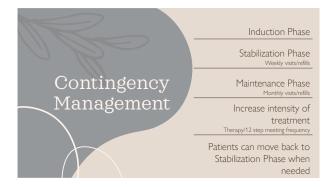
- Available over the counter, but may be expensive
- Free through Vital



https://vitalalabama.com/free-naloxone-and-fentanyl-test-strips/

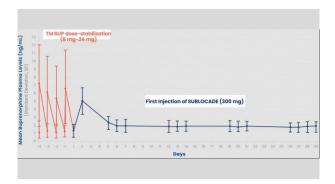


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Reducing buprenorphine diversion Visit Frequency Weekly visits/medication fills early in treatment Dosing Use lowest effective dose Drug testing Look for buprenorphine and metabolites Medication & wrapper counts Random call-ins

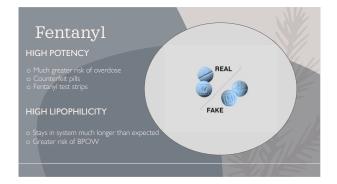
Long-Acting Injectible Buprenorphine Sublocade (Outprenorphine extended-release) Injection for subcutaneous use & Injection for subcutaneous use & Injection for subcutaneous use @ Injection for sub

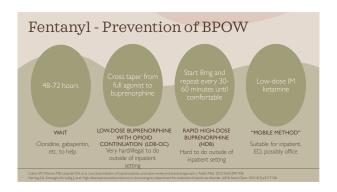


Pregnant patients o Buprenorphine is recommended in pregnancy and should be started as early as possible controlled? o Mono-product vs. Combination Product o Coordinate treatment with OB/Gyn

Continue usual dose of buprenorphine Buprenorphine alone is a very effective pain medication, but in tolerant individuals will not be enough to control acute pain Coordinate with surgeon/anesthesiologist Coordinate with surgeon/anesthesiologist O Add short-acting full agonist opioids in supervised settings until acute pain relief until acute pain of control acute pain opioids may need to be higher than in opioid-naïve patients O Use adjunctive medications for pain (ibuprofen, gabapentin) O Doses of full-agonist opioids may need to be higher than in opioid-naïve patients

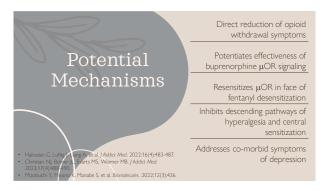










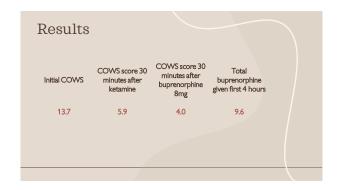


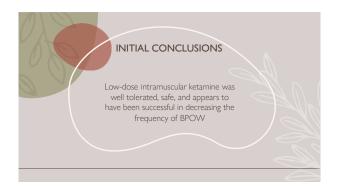
Our burning question

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



Check COWS. If > 10, start protocol. Give 10mg ketamine IM Give 10mg ketamine IM Start protocol. Ideally, more than 12 hours from last use of fentanyl 30 minutes later, check COWS. Give 8mg buprenorphine Give additional doses of buprenorphine (and ketamine) as needed





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

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summary

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.



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