

MAT: Update on available products

WVU ECHO 7.9.18



Medication Assisted Treatment

- In 2015 ~2.4 million Americans had Opioid Use Disorder. ~80% did not receive treatment!
- MAT is a safe and effective strategy for decreasing the frequency and quantity of opioid use and reducing the risk of overdose and death._{3,4}
- Although MAT has significant evidence to support it as an effective treatment, it remains highly underutilized.

1.U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration. (2016). Key substance use and mental health indicators in the United States: Results from the 2015 National Survey on Drug Use and Health (HHS Publication No. SMA 16-4984, NSDUH Series H-51). Rockville, MD

2. U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration. (2016). Prescription drug use and misuse in the United States: Results from the 2015 National Survey on Drug Use and Health. Rockville, MD.

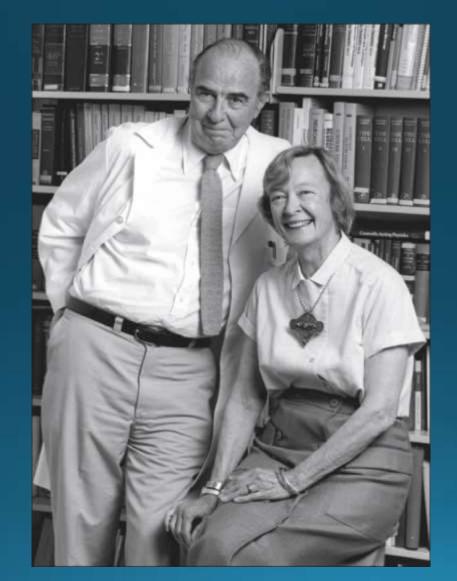
3. Kresina TF, Lubran RL. Improving public health through access to and utilization of medication assisted treatment. Int J Environ Res Public Health. 2011;8:4102-4117

4. National Institutes on Drug Abuse. Cost effectiveness of drug treatment. Retrieved from: http://www.drugabuse.gov/publications/teaching-packets/understanding-drug-abuse-addiction/sectioniv/6-costeffectiveness-drug-treatment

5. Volkow ND1, Frieden TR, Hyde PS, Cha SS. Medication-assisted therapies--tackling the opioid-overdose epidemic. N Engl J Med. 2014 May 29;370(22):2063-6. doi: 10.1056/NEJMp1402780. Epub 2014 Apr 23.



METHADONE



METHADONE

- Schedule II
- Use for <u>addiction</u> is restricted to non-residential treatment facilities: Opioid Treatment Programs (OTP) aka "Methadone Clinics"
- May be prescribed for <u>pain</u> in traditional medical setting
- Tricky to start and stop
- Stigma
- Inconvenient

Naltrexone





Naltrexone 50mg Tablets



Implants (Not FDA approved)

Tablets

(No better than placebo)

Injection Extended Release Naltrexone

XR-NTX

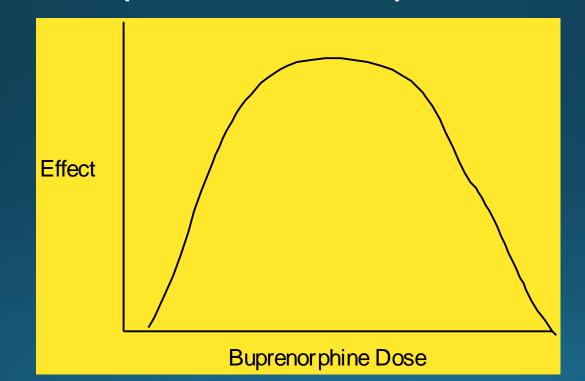
- 2006 approved for ETOH
- 2010 approved for OUD
- 380mg IM q 4 weeks
 - Mix refrigerated microspheres and diluent; keep room temp for 45min
 - 1.5 or 2 inch needle in gluteal muscle
- Wait 7-14 days after last use of opioids before induction
 - negative opioid UDS
- Liver and kidney metabolism (no CYP₄₅₀)
- Little research in pregnancy
- Risk of OD
- Monitor LFTs, depression

BUPRENORPHINE

• DATA 2000-

Buprenorphine Pharmacology

Bell-Shaped Dose Response Curve

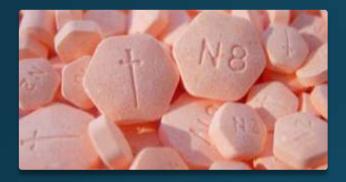


Drug and Alcohol Dependence, 2003;70:S61

Buprenorphine/Naloxone



BUPRENORPHINE







BUP + NALOXONE

Zubsolv

Generic

BUP

"Subutex" (generic) Probuphine (6m implant) Sublocade (1m injection)

FILM (Bup + Naloxone)

Suboxone

Bunavail

SUBLOCADE

- Approved November 2017
- Extended Release subcutaneous injectable buprenorphine
- Stabilized on transmucosal bup for <u>></u> 7 days
- First 2 monthly doses 300mg/ 1.5 mL followed by 100mg/0.5 mL maintenance doses
- Only available via REMS program
 - <u>Should never be dispensed directly to a patient</u>
- Wait at least 15 mins after refrigeration (must discard after 7 days)
- Abdominal

Methadone (Full Agonist) Pros: Long lasting Decades of evidence Helps with pain Cons:

Diverted Inconvenient Lethal in overdose Withdrawal Stigma

Buprenorphine (Partial Agonist)

MAT

Pros:

Doctor's office Less risk of overdose Less risk of IV use Helps with pain Cons: Diverted Withdrawal Naltrexone (Antagonist)

Pros

Not diverted No risk of overdose Cons:

Compliance

Pain