# 2022 SOAR Medications for Opioid Use Disorder (MOUD) Treatment Boot Camp

How To Get Started and Safely Manage Patients MOUD Basics

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# **Objectives**

- Define MOUD (Medications for Opioid Use Disorder).
- Describe who "should be" on MOUD.
- Explain the process of starting a patient on MOUD.

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# What is MOUD?

MOUD stands for Medication(s) for Opioid Use Disorder

- -Methadone
- -Buprenorphine Products
- -Naltrexone/Vivitrol



# **History of MOUD**

- 1800s: Heroin sold at the local apothecary for a substitute for alcohol
- 1860s: Opium used to treat Civil War soldiers who became addicted to morphine
- 1878-1885: 56-71% Opiate addicts in US upper-class white women
  - Rate of addiction nearly triple that in mid 1990s
- 1914: Harrison Act: Opioids available only with prescription
- Methadone in 1964
- Suboxone in 2001 (DATA)



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# Who Should Be On MOUD?

- · Depends on who you ask
- Harm reduction vs. abstinence
- Opioid detox (inpatient vs outpatient)
- · Patients with good follow-up in place
- History of OD more severe = better candidate
- NOT on benzodiazepines
- NOT with severe AUD (although hotly debated)
- Multiple treatment failures



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# **Fetal/Neonatal Complications** Without MOUD

- Fetal growth restriction preterm birth, still birth
- Preterm delivery- neurological, physical complications, death
- Trans-placental/peri-partum infection - syphilis, HIV, hepatitis B/C
- · Neonatal opioid withdrawal syndrome ITOWERS 2019 (NAS, NOWS)



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# **Buprenorphine (Subutex)**

- Partial agonist/antagonist
- Sublingual tab/film, monthly injectable, 6-month implant (non-US)
- Advantages
  - Established pregnancy/breastfeeding safety
  - Lower overdose risk
  - Fewer drug interactions
  - Office-based treatment
  - Shorter, less severe neonatal withdrawal
  - Blocks other opioid effects
  - Long-acting formulations

Wiegand 2015, Zedler 2016



# **Buprenorphine-Naloxone (Suboxone)**

- Advantages:
  - Decreased diversion/misuse
  - Improved insurance coverage
- Disadvantages:
  - Limited data
  - Prescriber training recommends change to monotherapy
- SAMHSA expert panel:
  - Continue/initiate with individual benefit-risk discussion
- Naloxone minimally absorbed with correct use

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ACOG 2017, SAMSHA 2018
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# **Naltrexone**

- Mu receptor antagonist
- Need at least a week off of opioids (10-14 days is preferred)
  - Lose tolerance
  - Not recommended in pregnancy
  - Better compliance
- · No dependence
- · No long-term survival data
- Expensive
- · Marketed to Department of Corrections
- Loss of tolerance = OD
- Pain?



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### **How OUD Medications Work in the Brain** How OUD Medications Work in the Brain Methadone Naltrexone **Buprenorphine** Empty opioid receptor **Full agonist** Partial agonist Antagonist - Generous effect - Generates limited effect - Blocks effect - Only at federally - Any waivered provider - Available but regulated clinic expensive **Stratis**Health

# **Comparison of Three MAT Options**

|                     | Methadone Buprenorphine              |   | Naltrexone   |  |
|---------------------|--------------------------------------|---|--------------|--|
| Who can prescribe   | OTP- fed regulation<br>for addiction | Waivered providers<br>NP, PA, MD, DO<br>ER providers* | Anyone       |  |
| Dosing              | Daily $\rightarrow$ take homes       | Office based opioid treatment                         | Every month  |  |
| Diversion potential | ↑ (especially when<br>take home)     | -/↓   | $\downarrow$ |  |
| OD Potential        | 1                                    | $\downarrow$  | $\downarrow$ |  |
| Emergency Dept.     | ergency Dept                         |   | -            |  |
|                     |                                      |   |              |  |
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# **Comparison of Three MAT Options cont.**

|              | Methadone  | Buprenorphine                                    | Naltrexone   |  |
|--------------|--|--|--|--|
| Jail         | -  | +  | +  |  |
| Availability | Chain of custody   | Widely available                                 | Buy and bill   |  |
| Cost         | Transportation, logistics  | \$   | \$\$\$   |  |
| Side effects | Sleep apnea, long Qt, hypogonadism in men, flat affect, drowsiness, constipation | Initial potential drowsiness,<br>headache        | Nausea, vomiting- can be<br>severe, injection site, LF<br>abnormalities  |  |
| Long term    | ? Jobs, safe pregnancy, frequent medication interaction                          | Min issues, safe in pregnancy, safe with surgery | LFTs, shouldn't use in<br>pregnancy, challenging to<br>treat "real pain" |  |
| Induction    | At OTP, usually after abstinence or detox  | In clinic, ER, jail need mild withdrawal         | 1 week off any opioid, after withdrawal                                  |  |
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| Subo                                | xone Screening Criteria  | 5. Have you had any previous treatment?   | Rule 25 completed? Y/N                |
|-------------------------------------|--------------------------|---|---------------------------------------|
| 1: Where do you live?               | County:                  | A: Inpatient  | Legal issues? Y/N                     |
| 2. What is the drug/Substance that  | you are currently using? | B: Outpatient   | Current Insurance?                    |
| 3. Have you been on Suboxone in th  | e past or currently?     | 6: Are you currently in counseling?   |                                       |
| A: If current, dose?                |                          | A: NA or AA?  |                                       |
| B: Why are you changing Sub         | boxone providers?        | <ol> <li>What medications are you currently taking? Pl<br/>supplements, OTC and prescriptions.</li> </ol> | ease list all meds including herbals, |
| 4. Who is your doctor now? If no on | e, who in the past?      |   |                                       |





|  | Age of<br>first use | When did you<br>last use? | Frequency of most recent use. | Was this substance ever |              |
|--|---------------------|---------------------------|-------------------------------|-------------------------|--------------|
| Alcohol  | (ex. 16)            | (ex. 1 month ago)         | (ex. 3x per week)             | (yes/no)                |              |
| Benzodiazenines                                  |                     |                           |                               |                         |              |
| (Xanax, Valium, etc.)                            |                     |                           |                               |                         |              |
| Cocaine  |                     |                           |                               |                         | We track     |
| Crack  |                     |                           |                               |                         | some of this |
| Hallucinogens (LSD,                              |                     |                           |                               |                         | data         |
| mescaline, etc.)<br>Heroin                       |                     |                           |                               |                         |              |
| Inhalants ("Huffing")                            |                     |                           |                               |                         |              |
| Marijuana  |                     |                           |                               |                         |              |
| Methamphetamine                                  |                     |                           |                               |                         |              |
| Methadone  |                     |                           |                               |                         |              |
| MDMA ("Ecstasy")                                 |                     |                           |                               |                         |              |
| PCP ("Angel Dust")                               |                     |                           |                               |                         |              |
| Prescription Medicine<br>(Vicodin, "Oxys," etc.) |                     |                           |                               |                         |              |
|  |                     |                           |                               |                         |              |



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| rior authorization- what you "need" for "approval"   |
| or Authorization Rationale:  |
| 1. PDMP reviewed   |
| 2. Urine drug screen updated and reviewed  |
| 3. Pregnancy test, where applicable, negative  |
| 4. Avoiding benzodiazepines, and other illicit drugs, reviewed with patient  |
| <ol><li>With our program, patient will either need to have completed treatment or be in the process of<br/>getting into or going through treatment</li></ol> |
| 6. Patient has been complaint with treatment plan laid out in our clinic   |
| r new starts/induction:  |
| 1. Dosage is currently being adjusted to meet patient's needs  |
| 2. Patient will be seen and new prescription give quite frequently until stability reached   |
| r chronic/maintenance:   |
| 1. Stable dose in stable patient- maintenance phase of treatment   |
| 2. Dosage reviewed and deemed to still be an appropriate dose to meet patient's needs  |
|  |
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## Induction cont. • Home inductions: -Clearly outlined instructions for perollowood the patient -More convenient for patient -Likely no increased risk compared to clinic -Does not "tie up a room" 2900 5 Jonad Via **Stratis**Health 41

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# **Precipitated Withdrawal**

- The Science
  - High activation drug with less affinity pushed off by less activating drug with high affinity
  - Less activation = withdrawal symptoms

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