

#### OUD in Pregnancy ECHO MOUD in Pregnancy

Carol Ott, PharmD, BCPP Clinical Professor of Pharmacy Practice Purdue University Clinical Pharmacy Specialist, Psychiatry Eskenazi Health





#### I have no relevant disclosures

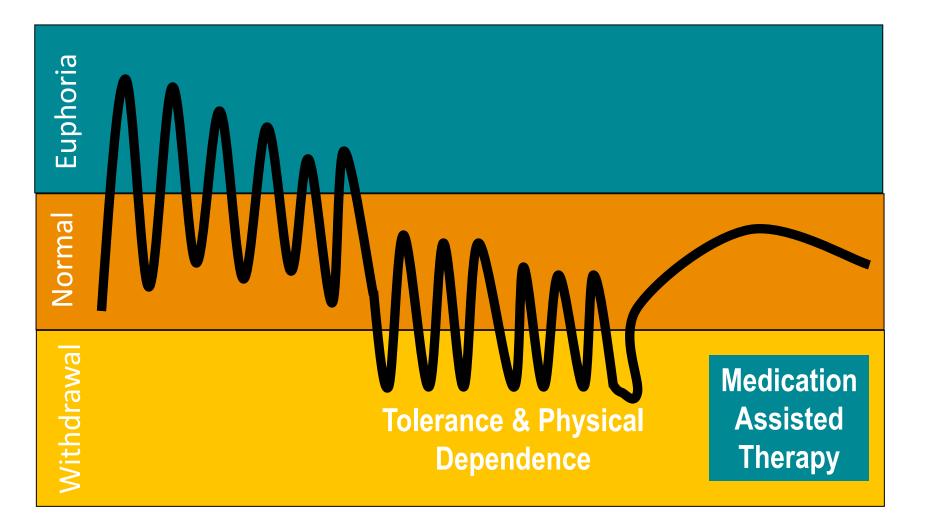




Identify appropriate MOUD drug therapy for pregnant women

- Discuss the standard of care and timing for initiation of MOUD for pregnant women
- Describe appropriate initiation and maintenance dosing of MOUD for pregnant women





Acute Use

**Chronic Use** 

Alford, Boston University, 2012 O

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#### Naltrexone

- Opioid antagonist that blocks other opioids
- Does not lead to physical dependence, or to withdrawal when stopped
- Causes acute withdrawal in opioid-dependent patients
- Can be used in office-based settings without added training
- Effective in alcohol use disorder treatment
- Two formulations available:
  - 50 mg tablet
  - 380 mg long-acting injection





#### Methadone

- Most effective
  - **T** survival, treatment retention, employment
  - Illicit opioid use, hepatitis and HIV infections, criminal activity
- Highly regulated, dispensed at Opioid Treatment Programs (OTP)
  - Supervised daily dosing with take-home doses if stable
  - Counseling, urine testing
  - Psychiatric, medical services often not provided
  - Illegal to prescribe methadone for opioid use disorder in general practice
- Pregnant women can be admitted to OTPs without meeting the one-year OUD diagnosis criteria



#### Buprenorphine

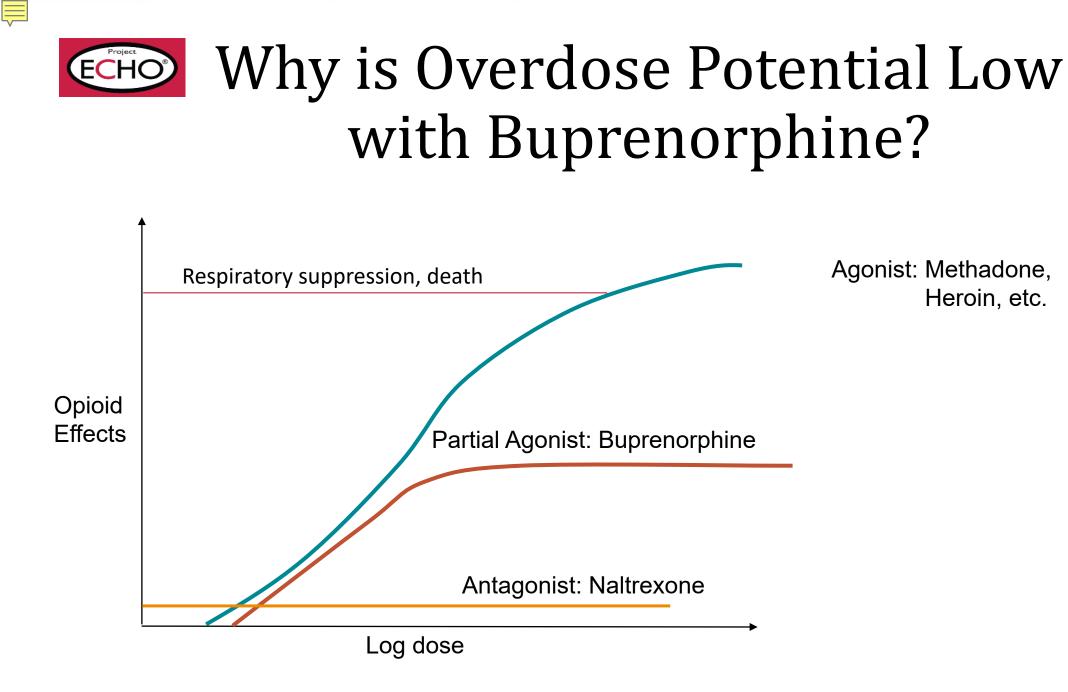
- 2000 Federal Drug Addiction Treatment Act ("DATA-2000"):
  - Made office-based addiction treatment by physicians legal
  - Must complete 8-hour training and obtain federal waiver
- 2002: Suboxone (buprenorphine/naloxone) FDA approved
  - Outcomes much superior to psychosocial treatment alone
  - Longer treatment duration is more effective
- Compared to methadone (general patients):
  - Similar abstinence from illicit opioids and decreased craving
  - Lower retention in treatment
  - Can be prescribed in general practice, lowering barriers to treatment



#### Buprenorphine

- Partial opioid agonist, so safer than methadone
- High mu receptor affinity, so blocks other opioids
- Formulated with naloxone abuse deterrent
- Sublingual dosing because of reduced oral bioavailability
- Can precipitate withdrawal in tolerant patients
- Requires induction after patient enters mild-moderate withdrawal
- Extended release subcutaneous injectable approved in those initiated on transmucosal buprenorphine 8-24mg/day after a minimum of 7 days







# MOUD in Pregnancy

- Buprenorphine vs Buprenorphine/naloxone
  - Buprenorphine has traditionally been preferred in pregnancy due to theoretical risks to the fetus
  - This has changed in recent years as a growing number of studies do not support a risk for naloxone
- Methadone
  - Pregnant women who receive methadone may have fewer setbacks to substance use and be retained in treatment longer
  - A history of IV substance use or severe OUD may benefit from the structure of an OTP
- Naltrexone
  - Should not be initiated in pregnancy due to a lack of safety data
  - Continuation of naltrexone for a woman who becomes pregnant while on treatment should be carefully assessed and informed consent of risks, as well as the risk of inadequate pain management during labor and delivery



- Pregnant women with active OUD should be treated with methadone or buprenorphine as the standard of care.
- Pregnant women with a history of OUD may be candidates for treatment if a return to opioid use is possible
- Psychosocial needs should be assessed and patients should be offered or referred to psychosocial treatment
- A woman's choice to decline psychosocial treatment should not delay opioid agonist therapy

## Methadone Initiation and Dosing

- Initiation:
  - Early initiation for longer gestation time and higher birth weight
  - Dose range 10 30 mg
  - 5 10 mg given every 3 6 hours as needed to treat withdrawal symptoms max first day dose = 30 – 40 mg
  - Increase dose by no more than 10 mg about every 5 days
- Dosing during Pregnancy:
  - Doses may need to be increased in the 2<sup>nd</sup> and 3<sup>rd</sup> trimester due to increased metabolism and circulating blood volume
  - Half-life falls from ~ 24 hours to ~ 8 hours in pregnant women
  - Increased or split dosing (every 12 hours) may be needed to maintain effect



- Initiation:
  - Initiation may lead to withdrawal symptoms
  - Begin dosing when there are objective, observable signs of withdrawal
    - 6 12 hours after last short-acting opioid dose, 24 48 hours after last long-acting opioid
  - Hospitalization may be considered during initiation, especially during the 3<sup>rd</sup> trimester
  - If concern for fentanyl use (short-acting with a long half-life of 8 10 hours and high affinity for the mu opioid receptor), may wait until COWS score is 13 or higher (moderate withdrawal)

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- Initiation dosing same as non-pregnant patient:
  - 2 4 mg, observe for signs of withdrawal, after 60 90 minutes without withdrawal symptoms, repeat dosing in increments of 2 – 8 mg
  - Repeat COWS during initiation to assess effect of buprenorphine dose
  - Determine dose needed to provide effects for 24 hours
- Buprenorphine dosing may not need to be adjusted in pregnancy
- Split dosing may be considered as pregnancy progresses to address afternoon/evening increase in craving
- Dosing adjustments post-partum are generally not required
- May continue buprenorphine post-partum without a need to switch to buprenorphine/naloxone if the patient prefers.



- Naloxone should not be used to evaluate opioid use in pregnant women in a clinical setting
- May induce withdrawal that may precipitate preterm labor or fetal distress
- Naloxone SHOULD be used in the case of maternal overdose
- Naloxone SHOULD be provided to pregnant women and family/friends for emergency use

### NOWS (Neonatal Opioid Withdrawal Syndrome)

- NOWS is a term that in gaining increased use in place of NAS (neonatal abstinence syndrome)
- There is a risk of NOWS when using opioid agonists for the treatment of OUD in pregnant women
- No evidence that methadone or buprenorphine have a higher risk of NOWS than use of illicit opioids
- The risk of untreated OUD to the mother and infant is much higher than the risk of NOWS

- Pregnant women should be encouraged to continue MAT while pregnant and post-partum to decrease the risk of setbacks.
- Stopping smoking can reduce the severity of NOWS

# **Indiana Medicaid Coverage**

- Buprenorphine/naloxone and buprenorphine are covered by Indiana Medicaid for the treatment of OUD in pregnant women
- Recently, prior authorization has been relaxed for the use of buprenorphine without naloxone in post-partum women
- The preferred drug list for buprenorphine products will continue to prefer the tablet dosage form due to significant cost issues
- If a pregnant woman has been stabilized on the film dosage form, there should not be a requirement for the patient to try the tablet dosage form in order to have the film covered by Indiana Medicaid





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