

Project Project Office Abuse Programs

Treating Pregnant Women with Opioid Use Disorder

Tuesday, October 15th, 2019

Presented by Candy Joreteg-Stockton, MD, FASAM Chief Medical Office, Humboldt IPA - Priority Care Center



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Disclosures

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Substance Use Disorder and Pregnancy

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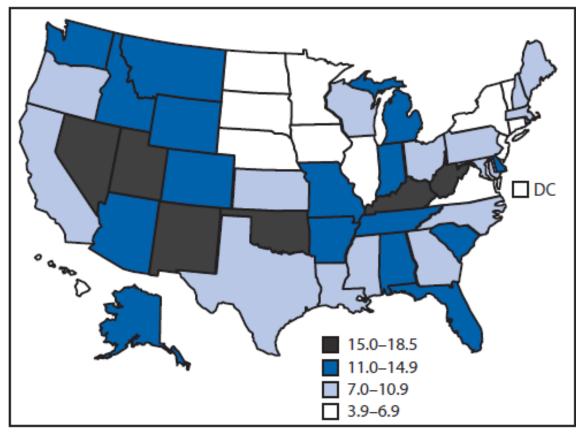
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- Women, opioid use disorder and pregnancy
- Treatment options in Pregnancy
 - Methadone
 - Buprenorphine (Bup)
 - Naltrexone
 - Detoxification
- Intra-partum care
- Postpartum care
 - Post-operative pain control
 - Breastfeeding
 - Contraception

Opioid overdose deaths in women

Between 2004 and 2010: opioidrelated overdose deaths increased more rapidly among Women (400%), then Men (276%)(1)

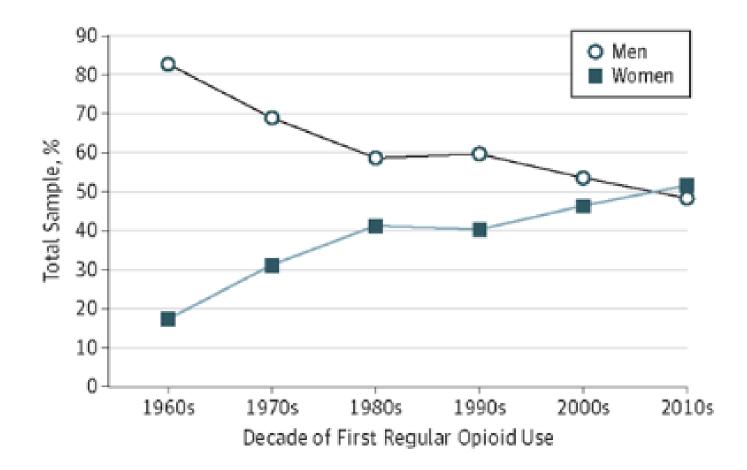


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Female deaths /100,000 due to opiate overdose 2009-10

First time heroin use by gender



(3) Cicero TJ, Ellis MS, Surratt HL, Kurtz SP. The changing face of heroin use in the United States: a retrospective analysis of the past 50 years. JAMA Psychiatry. 2014 Jul 1;71(7):821-6.

A unified response to the opioid crisis in California Indian Country

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Opioid Use by Women

In 2015 there were more past-year initiates of prescription opioid misuse among women (1.2 million - 0.9%) than men (0.9 million - 0.7%)(2) alifornia Indian Countr

There are still more male than female adults who use heroin, heroin use is increasing twice as fast among women than men(2)

Pregnancy and Opioid Use Disorder (OUD)

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- Nearly 50% of pregnant substance use disorder treatment admissions are for opioids(1)
- Overdose mortality has surpassed hemorrhage, pre-eclampsia and sepsis as a cause of pregnancy-associated death(2)

Gender, Pregnancy and OUD

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- **86%** of pregnant opioid-abusing women reported pregnancy was unintended (1)
 - In general population: 31%-47% are unintended
- Pregnancy can be a powerful catalyst for women to engage in treatment
- During Pregnancy
 - Adolescents report the highest illicit substance use in the prior month
 - Reported substance use decreases with increasing maternal age (NSDUH 2012-2013)
 - Trend toward reduction of use over gestation
 - Reported substance use decreases with increasing gestational age (SAMHSA TEDS 2014)

ACOG Backs Buprenorphine and Methadone

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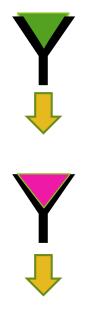
- Only FDA approved treatments in pregnancy
- Reduce opioid use (cravings, withdrawal, euphoria)
- Increase birth at term, higher birth weights
- Prevent overdose deaths
- Prevent HIV transmission
- Support family function and appropriate parenting





Non MAT Opioids: full agonist heroin, oxycodone, Percocet, etc Tribal
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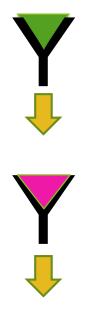




Non MAT Opioids: full agonist heroin, oxycodone, Percocet, etc

Methadone: full agonist Activates receptor, prevents binding Risk of sedation Only at special clinics Tribal A unified response to the opioid crisis in California Indian Country





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Naloxone (Narcan), Naltrexone (Vivitrol): Full antagonist, high affinity Tribal MAT A unified response to the opioid crisis in California Indian Country





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Non MAT Opioids: full agonist heroin, oxycodone, Percocet, etc

Methadone: full agonist Activates receptor, prevents binding, risk of sedation Triba

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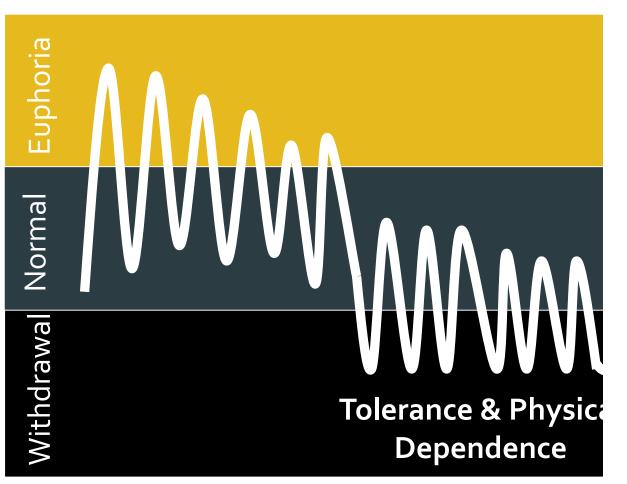
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Buprenorphine (Suboxone, Subutex): partial agonist High affinity, ceiling effect Risk of precipitated withdrawal Any prescriber with X waiver

Naloxone (Narcan), Naltrexone (Vivitrol): Full antagonist, high affinity



Staying well





ASAM American Society of Addiction Medicine

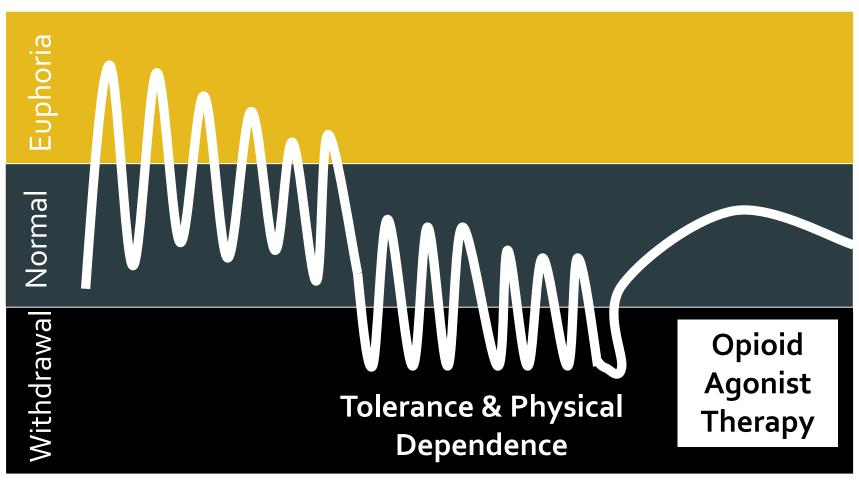
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No longer in the cycle

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American Society of Addiction Medicine

Medically Assisted Withdrawal in Pregnancy (Detoxification)

- Not recommended in pregnancy (1)(2)(3)
- Withdrawal management has been found to be inferior in effectiveness over pharmacotherapy with opioid agonists and increases the risk of relapse without fetal or maternal benefit (ASAM)
- Increased rate of relapse with associated overdose mortality following detoxification

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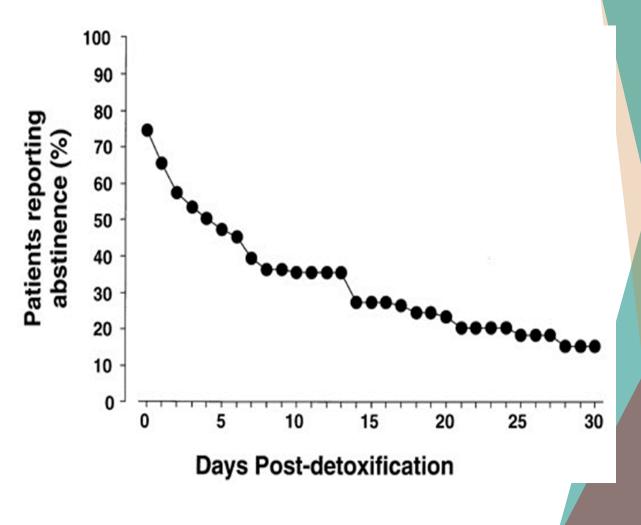
- Increased access to opioid agonist treatment was associated with a reduction in heroin overdose deaths(4)
- Offering pharmacotherapy for OUD in pregnancy increases*
 - Treatment retention
 - Number of obstetrical visits attended
 - In-hospital deliveries

Medically Assisted Withdrawal in Pregnancy is NOT Recommended

High risk of relapse
(59-90%)

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Not standard of care



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TREATMENT OPTIONS FOR OUD IN PREGNANCY

METHADONE

- Has been the Gold Standard for opioid use disorder in pregnancy
- Pregnancy category C
- Limited dosing flexibility
 - Split dosing in pregnancy is preferred due to increased clearance in later gestation
 - Prolonged QT syndrome
 - Baseline EKG recommended
 - Repeat EKG for dosing changes above 100mg

May contribute to lower birth weights when compared to Bup-exposed newborns

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- Gaining First-line recognition for treatment of opioid use disorder in pregnancy
- Pregnancy category C
- When compared to methadone:
 - Lower preterm delivery rate*
 - Higher birth weight*
 - Larger head circumference*
- Allows for adjustable dosing (split dosing)
- Treatment retention for pregnant women may favor buprenorphine over methadone(2).



Neonatal Abstinence Syndrome: Methadone and Buprenorphine





Maternal Opioid Treatment Human Experimental Research (MOTHER) : NEJM 12/2010

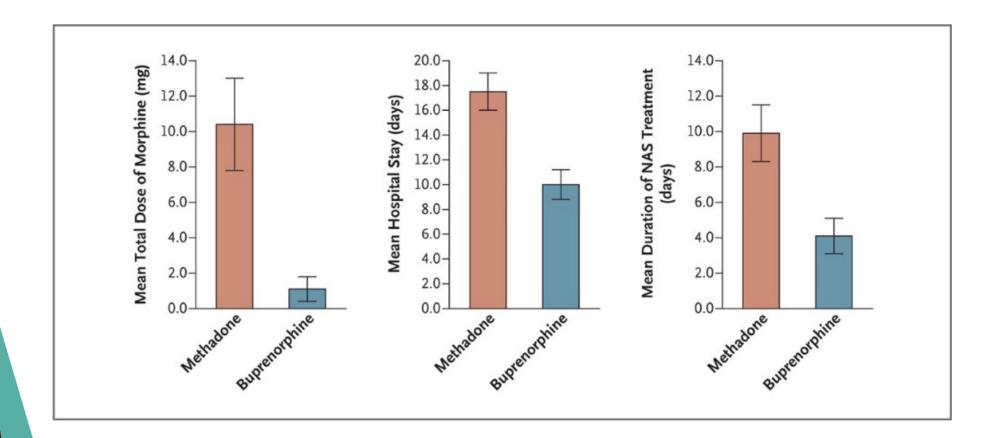
Double-blind, double-dummy, flexible-dosing, parallel-group clinical trial

Neonatal Outcomes: Comparing MMT (n=73) and Buprenorphine (n=58)



Neonatal Abstinence Syndrome: Methadone and Buprenorphine

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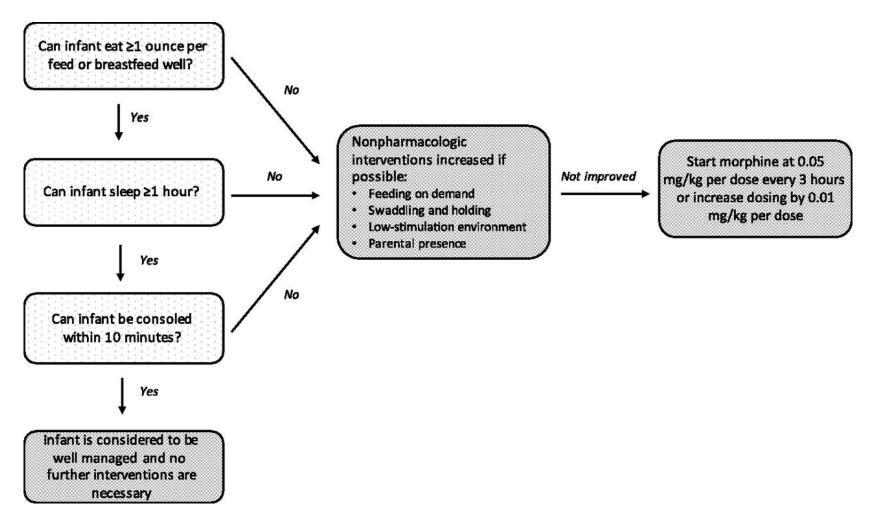


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Naltrexone: Emerging Data in Pregnancy

- 25 published human cases: all with normal birth outcomes(1)(2)(3)
- Animal literature without evidence for teratogenicity, although behavioral changes in animal offspring have been noted(4)
- No human long-term outcomes or developmental studies available
- May be appropriate for select patients
- High maternal interest in treatment without NAS sequelae(5)

Eat/Sleep/Console Assessment



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Matthew R. Grossman et al. Hospital Pediatrics 2018;8:1-6

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Eat/Sleep/Console



- Infants were treated with morphine significantly less frequently than they would have been using the traditional Finnegan Neonatal Abstinence Scoring System (12% vs 60%)
- An effective approach that limits pharmacologic treatment (morphine increase on 3% of days vs 25% of days)
- May lead to substantial decrease in length of stay (5.9 days vs 22.5 days) (Grossman, et al)





- Pharmacotherapy should be continued through labor (and postpartum) at same prenatal dose
- Labor pain should be managed with regional anesthesia (epidural)
- Do not use mixed opioid agonist-antagonist (butorphanol (Stadol)/ nalbuphine (Nubain))
 - Will precipitate a withdrawal syndrome for women on opioid pharmacotherapy

Spinal anesthesia provides adequate pain control for C-sections/

Postpartum

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(patient's wishes regarding opioids postpartum should be established)

- Pharmacotherapy should be continued at same dose postpartum
 - Some women will require/request a dose decrease after delivery due to sedation; but any decrease should be individualized and carefully monitored

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- For MMT, Postpartum fatigue and potential peak dose sedation should be anticipated; and precautions taken
- NSAIDS and non-opioid pain medications should be maximized (scheduled orders; not PRN) (ketorolac, acetaminophen)
- Full opioid agonists should be used for post-operative pain
 - Bup and MMT patients have higher opioid requirements than general population (1)
 - Bup does not appear to prevent/block efficacy of full-opioids (Vilkins 2017)



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Postpartum Monitoring and Counseling

- Frequent maternal follow up is needed
- Postpartum women are at high risk of a return to opioid use
- The first year postpartum marks the highest risk of overdose death, with the highest rates 7-12 months after delivery

Postpartum overdose death rates

0

В

Overall

Year

prior to

delivery

First

Second

trimester trimester trimester months

Third

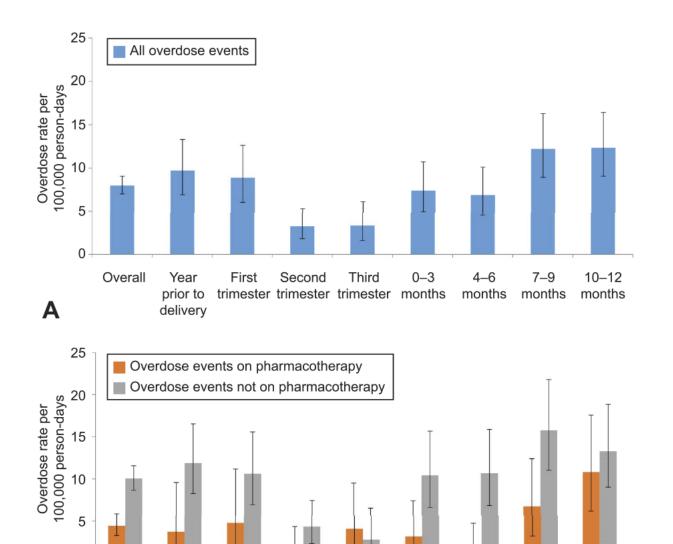
0–3

4–6

months

7–9

months



10–12

months

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Naltrexone: Intrapartum and Postpartum

- Between 35-38 weeks gestation: women should be transitioned from IM Naltrexone to oral (Naltrexone 50mg po qd)
- With the onset of labor, women should hold oral dosing
 - Precautions allow for postoperative full opioid agonists pain control prn
- IM Naltrexone can be resumed postpartum



Breastfeeding

Methadone and buprenorphine are safe for breastfeeding <1% of maternal opioid intake transmitted to breastmilk (1)

*Published guidelines from the American Academy of Pediatrics (AAP), the American College of Obstetricians and Gynecologists (ACOG), and the Academy of Breastfeeding Medicine (ABM) all support breastfeeding for women on opioid pharmacotherapy

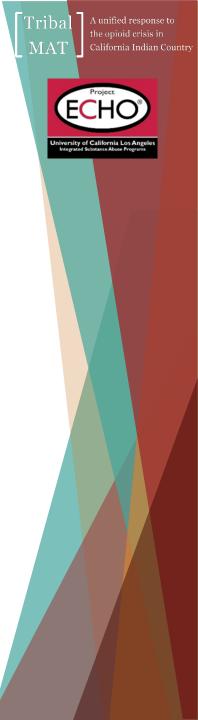
- <u>Maternal benefits</u>: increased oxytocin levels are linked to lower stress, increased maternalinfant bonding both lower the risk of postpartum relapse (2)
- <u>Newborn benefits</u>: reduction in pharmacologic treatment for NAS, shorter hospital stays (2)



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- All postpartum women should be offered reliable contraception
- Contraception options should be reviewed/ discussed during prenatal care with a set plan prior hospital discharge
- > Access to long acting reversible contraceptive (LARC) options should be readily available



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