

#### Pregnancy and Newborns: Considerations from Science to Systems

Leslie Hayes, MD
Family Physician and Addiction Medicine
El Centro Family Health
Espanola, NM





#### Financial Disclosure

Leslie Hayes, MD

• No relevant disclosures

#### Presentation Outline

Pregnancy and the postpartum period

Neonatal opioid withdrawal syndrome

Effects of substance use during pregnancy on the newborn



#### Learning objectives

- Understand the effect of alcohol and illicit drugs on pregnancy.
- Discuss the rationale behind use of medication treatment for opioid use disorder during pregnancy.
- Realize the importance of the postpartum period.
- Be able to discuss neonatal opioid withdrawal syndrome and child protective services involvement with patient.

### Definition of terms for providers not regularly doing obstetric care

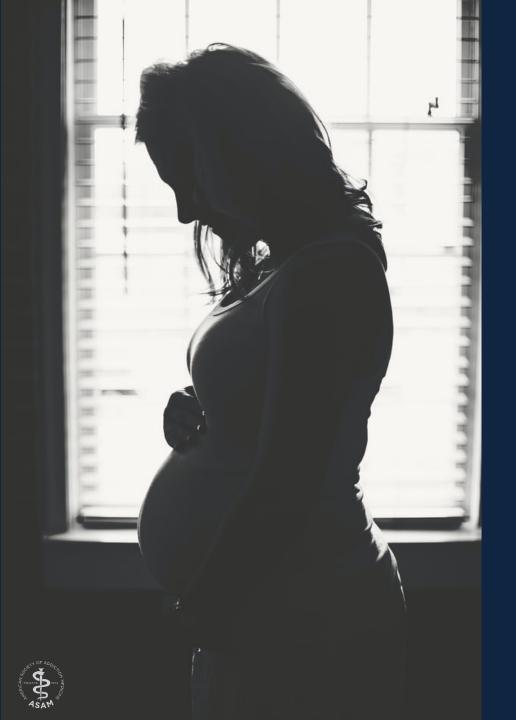
- G = Gravida = total number of pregnancies
- P = Para = total number of deliveries
- XX weeks = weeks since last menstrual period or weeks since conception + 2
- Full-term = 37-41 weeks gestation
- IUGR = Intrauterine growth restriction = fetal weight by ultrasound < 10th percentile
- SGA = small for gestational age = weight of newborn baby < 10th percentile for gestational age



### Definition of terms for providers not regularly doing obstetric care

- Preterm labor = labor at < 37 weeks</li>
- Preterm delivery = delivery at < 37 weeks</li>
- Placental abruption = placenta pulls away from the wall of the uterus. Small abruptions can cause IUGR or preterm labor. Large abruptions can be fatal for mother and baby.





#### **Case Study**

33 yo G4P3 had been stable on buprenorphinenaloxone for 4 years. Presented to her buprenorphine provider for routine appointment and was discovered to be pregnant. Her buprenorphine provider did not give her a script because of this. She relapsed to heroin. She presented to our clinic at 25 weeks gestation, but because of transportation difficulties, she was unable to get restarted on buprenorphine and delivered a premature infant at 31 weeks. She restarted buprenorphine postpartum, and both she and baby did well.



#### Case Study

22yo G1P0 presents @ 9 weeks gestation. Actively using heroin. Desperately wanted to keep this pregnancy and this child. Started on buprenorphine maintenance, did well. Child with no signs of Neonatal Opioid Withdrawal Syndrome at birth. Currently 10 years old, doing well.

#### Substance use in pregnancy

- Use of alcohol, tobacco, and drugs during pregnancy is the leading preventable cause of mental, physical, and psychological impairments in children.
- Opioid-dependent pregnant women have an unintended pregnancy rate of 86%.<sup>1</sup>
  - Please provide or refer for contraception if you are treating patients with OUD who can get pregnant and don't want to do so.
  - Also, please start them on folate, 0.4 0.8 mg daily, even if they are not planning to get pregnant.<sup>2</sup>



#### Perinatal SBIRT: 4 Ps Plus

Parents Did either of your parents ever have a problem

with alcohol or drugs?

Partner Does your partner have a problem with alcohol

or drugs?

Past Have you ever had a problem with alcohol or

drugs in the past?

Past 30 days In the past month, have you drunk any alcohol

or used any substances?



 What are medical implications of substance use disorder with pregnancy?

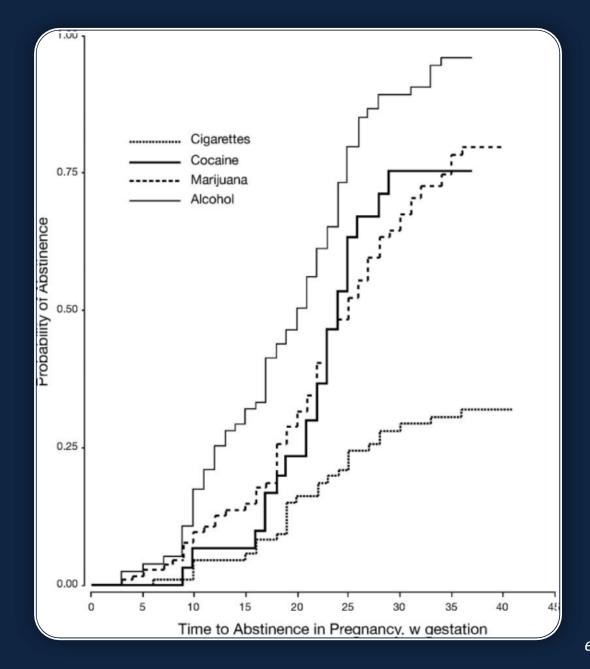
 What is the significance of pregnancy for any substance use disorder?



# Pregnant patients are likely to achieve abstinence during pregnancy, but relapse rate postpartum is high

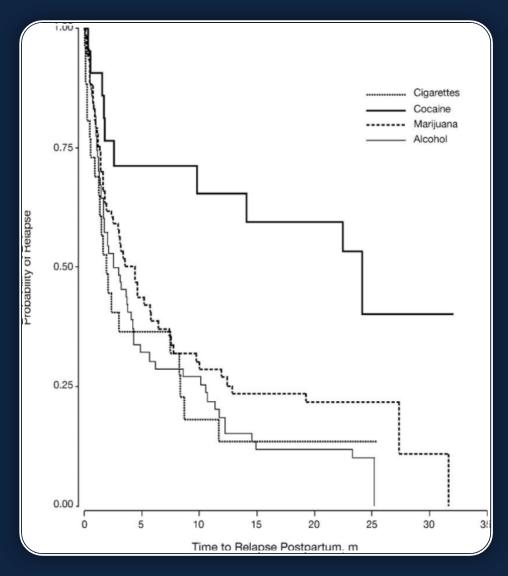
- A 2015 prospective study found that 83% of all women using cigarettes, alcohol, marijuana, and cocaine achieved abstinence from at least one substance.
- Postpartum, 80% of women abstinent in the last month of pregnancy relapsed to at least one substance.





# Pregnant patients are likely to achieve abstinence during pregnancy

Forray A, Merry B, Lin H, Ruger JP, Yonkers KA. Perinatal substance use: a prospective evaluation of abstinence and relapse. Drug Alcohol Depend. 2015 May 1;150:147-55. doi: 10.1016/j.drugalcdep.2015.02.027. Epub 2015 Mar 3. PMID: 25772437; PMCID: PMC4387084.



# Relapse rate postpartum is high

#### Birth defects with substances

 The drug with the most teratogenic potential is alcohol. <sup>1</sup>

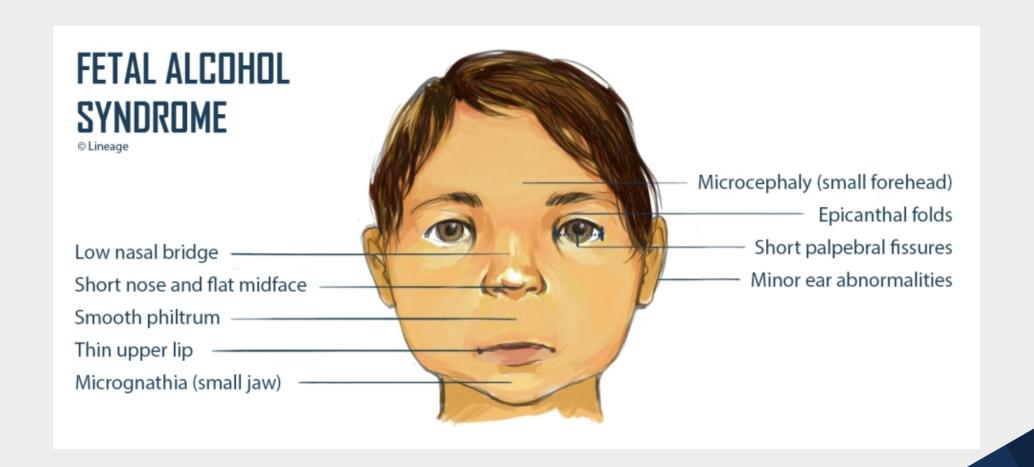


#### Fetal alcohol syndrome

- Evidence of growth restriction (prenatal and/or postnatal)
  - Height and/or weight <= 10th percentile</li>
- Evidence of deficient brain growth and/or abnormal morphogenesis
  - Structural brain anomalies or head circumference <=10th percentile</li>
- Characteristic pattern of minor facial anomalies
  - Short palpebral fissures, thin vermillion border upper lip, smooth philtrum



#### Fetal alcohol syndrome





#### Tobacco and pregnancy

- Neonates born to mothers who smoke weigh an average of 200 gm less than neonates born to mothers who don't smoke. <sup>1</sup>
- 22% of SUIDs (Sudden Unexpected infant deaths) can be directly attributed to maternal smoking during pregnancy.



#### Cannabis and pregnancy



- Many potential confounders:
  - Concurrent use of alcohol/tobacco
  - Income/age/education
  - Co-occurring psychiatric conditions
- Cannabis use is common the prevalence of self-reported marijuana use is 2-5%, and it increased from 2.37% in 2002 to 3.85% in the 2014 NSDUH.<sup>1</sup>

#### Cannabis and pregnancy

- Most common reasons to use cannabis in pregnancy are morning sickness, to manage anxiety/depression and to relax/sleep
  - Use of cannabis for morning sickness can lead to cannabinoid hyperemesis syndrome.<sup>1</sup>





#### Cannabis and pregnancy

- Data is mixed on effect of cannabis on fetus.<sup>1</sup>
  - A recent Cochrane review showed both low birth weight and small for gestational age in infants exposed to cannabis.<sup>2</sup>
  - Studies have been mixed for birth defects<sup>3</sup>
  - There does seem to be a pattern of neurobehavioral effects on the fetus, with hyperactivity and sleep problems in toddlers, ADHD in pre-teens, and emotional dysregulation in adolescents.<sup>4,5,6,7</sup>
    - 1. Sheryl A. Ryan, et al, COMMITTEE ON SUBSTANCE USE AND PREVENTION, SECTION ON BREASTFEEDING, Lucien Gonzalez et al; Marijuana Use During Pregnancy and Breastfeeding: Implications for Neonatal and Childhood Outcomes. Pediatrics September 2018; 142 (3): e20181889. 10.1542/peds.2018-1889
    - **2.** Avalos LA, Adams SR, Alexeeff SE, et al. **Neonatal outcomes associated with in utero cannabis exposure: a population-based retrospective cohort**. Am J Obstet Gynecol. 2024;231(1):132.e1-132.e13.

    - **4.**Weaver et al. **Alcohol and Other Drug Use During Pregnancy: Management of the Mother and Child** in Miller et al. The ASAM Principles of Addiction Medicine.

      Wolters Kluwer 2019P 1325



6. Nashed et al. Cannabinoid Exposure: Emerging Evidence of Physiological and Neuropsychiatric Abnormalities Frontiers in Psychiatry. 11/2021





## Cannabis and pregnancy –what we need to tell our patients

- Pregnant patients complain about hearing mixed messages from healthcare providers. They also state that want more research on the safety and effects of cannabis with pregnancy.<sup>1</sup>
- There is no recognized "safe" amount of cannabis with pregnancy.
  - Although marijuana hasn't been found definitively to be dangerous, it has also most definitely not been found to be safe.
  - It is also likely much more dangerous if combined with tobacco and alcohol.
- There is very likely a risk of long-term neurocognitive effects.
- While it may help with morning sickness, it can lead to cannabinoid hyperemesis syndrome, which is way worse, and there are better treatments.



#### Stimulant use and pregnancy

- Methamphetamine<sup>1</sup> and cocaine<sup>2</sup> use are associated with the following:
  - Preterm delivery
  - Low birth weight
  - Small for gestational age infants



#### Implications of opioid use disorder with pregnancy

- Medication: Both use and withdrawal have fetal effects. Withdrawal effects usually considered more serious.
  - Withdrawal causes a hyperadrenergic state which causes constriction of blood vessels in placenta. Exacerbated by cocaine and methamphetamine use. Can cause preterm labor and placental abruption.
  - Biggest direct effect of opioid use is Neonatal Opioid Withdrawal Syndrome at birth.
    - Opioid use substantially increases the risk of maternal complications.<sup>1</sup>



# Case Study Pregnancy and Substance Use Disorder



28 yo G5P4, on methadone maintenance, disappeared from care at about 20 weeks, returned at 38 weeks in labor. Stated she had been at a methadone clinic in another community, but urine was negative for methadone, + for opiates. Baby went into horrible withdrawal at birth, child protective services involved and took child. Mother was arrested when she and her cousin, who was foster mother, got in fight on OB floor.



 What are psychosocial implications of substance use disorder with pregnancy?



# Implications of substance use disorder with pregnancy

- Co-occurring disorders
  - Depression and other mental illness<sup>1,2</sup>
    - Both substance use disorder and depression cause poor self-care.
  - Intimate partner violence
    - Homicide is the leading cause of death for women during pregnancy and the first 6 weeks postpartum<sup>3</sup>





## Implications of substance use disorder with pregnancy

- Psychosocial:
  - Most mothers have a high motivation to change.
  - Lot of guilt/shame for many women
  - Legal implications around custody of baby and older children
  - Often have history of childhood sexual abuse or physical abuse (with implications for parenting)
  - Cis women who use drugs often start using because their male partners use drugs. If they are still with that partner, it can be difficult for them to quit unless he quits as well.





# Medical Conditions Case Study Pregnancy and Opioid Dependence

25 yo G2P1 presents at 26 weeks, stating, "I'm addicted to fentanyl." Scared that she will lose baby to child protective services or have medical complications. She wants to get into treatment.



- Is medication therapy an option for the patient?
- Which is better, buprenorphine or methadone?
- What about weaning off the fentanyl and using abstinence-based therapy?
- Do they need any special care for their pregnancy?



#### Prenatal Care

- In a study in the Journal of Perinatology, it was found that pregnant people with illicit drug use and no prenatal care had the highest risk for prematurity, low-birth weight and small for gestational age infants. As prenatal care increased, risk for prematurity, low birth weight and small for gestational age babies dropped. <sup>1</sup>
- Pregnant people will often delay or not get prenatal care because of stigma and fear of consequences, including being reported to child protective services.<sup>2</sup>



#### Medication therapy and pregnancy

 Medication therapy for opioid use disorder (MOUD) is standard of care for pregnancy



#### Benefits of MOUD during pregnancy

- A recent study of 10,741 pregnant persons with OUD on Medicaid with 13,320 pregnancies showed the following benefits to Medication for Opioid Use Disorder:
  - Decreased rate of overdose
  - Decreased preterm birth
  - Decreased low birthweight
- All of the above outcomes improved with longer duration of MOUD during the pregnancy



#### Benefits of MOUD during pregnancy

• In addition to the medical benefits, infants with NOWS are significantly (odds ration 3.9) more likely to be discharged to the parent, rather than foster or relative, care if the mother received prenatal MOUD



### Access to buprenorphine and methadone while pregnant

- A 2020 study of obstetricians showed that only a third of obstetricians always recommend MOUD and a fourth never recommend it.<sup>1</sup>
- MOUD providers are less likely to accept pregnant patients than non-pregnant patients.<sup>2, 3</sup>
  - Methadone 97% vs 91% and Buprenorphine 83% vs 51% in a 2018 study<sup>2</sup>
  - Methadone no difference and buprenorphine 73.9% vs 61.4% in a 2020 study<sup>3</sup>

Ko, J.Y., Tong, V.T., Haight, S.C. et al. Obstetrician—gynecologists' practice patterns related to opioid use during pregnancy and postpartum—United States, 2017. J Perinatol 40, 412–421 (2020).

Stephen W. Patrick et al. (2018): Barriers to accessing treatment for pregnant women with opioid use disorder in Appalachian states, Substance Abuse



#### Buprenorphine vs methadone in Pregnancy

 2022 study of 11,272 pregnant patients who were exposed to buprenorphine and 5056 to methadone showed significantly lower rates of NOWS in babies exposed to buprenorphine than methadone.



### Medication therapy and pregnancy

- However, if buprenorphine does not work for patient, it is essential to switch them to methadone quickly. Having the patient on a successful treatment for Opioid Use Disorder is the most essential part of treatment.
- "ANY OPIOID AGONIST THERAPY IS RECOMMENDED OVER UNTREATED OPIOID USE DISORDER IN PREGNANCY." 1



### Starting buprenorphine in a pregnant person

- Very little data or consensus recommendation, although most providers are leaning towards rapid low dose dosing in an inpatient setting or low dose dosing in an outpatient setting
- Macrodosing may be considered if the patient presents in active withdrawal

### Morning sickness and methadone

- Both ondansetron and methadone cause QT prolongation, so use other treatments first.
- Lifestyle changes:
  - Small frequent meals
  - Avoid fluids with meals
  - Eat something before getting out of bed
  - Popsicles
- Ginger
- Pyridoxine, 10 mg + Doxylamine, 10mg tid



# Split dosing recommended for both buprenorphine and methadone during pregnancy

 A recent SAMHSA alert stressed the importance of split dosing of both methadone and buprenorphine during pregnancy to help manage the impact of metabolic changes.<sup>1</sup>



### What about medically monitored withdrawal?



### Medically monitored withdrawal

- THERE ARE NO GOOD STUDIES ON MEDICALLY MONITORED WITHDRAWAL. THE AVAILABLE STUDIES ARE OF POOR TO FAIR QUALITY AND HAVE CONFLICTING RESULTS.
- Recent meta-analysis reviewed 15 studies with 1,997 participants, of whom 1,126 went detoxification
  - Study quality was fair to poor with no randomized control trials
  - Mostly inpatient or residential setting with 3 incarceration studies
- Detoxification completion ranged from 9-100%.
- Relapse ranged from 0-100%
- 2 maternal deaths from postpartum overdose in one study



### Medically monitored withdrawal

- Rates of fetal demise and birthweights were similar between women who underwent detoxification and comparison group
- Rates of neonatal abstinence syndrome ranged from 0-100%



### Medically Monitored withdrawal

 No study of medically monitored withdrawal has examined maternal outcomes postpartum1



- The previous patient has made it to term and is about to go into labor.
- Do you need to do anything special to manage their labor?
- What can you expect for the baby?
- Can they breast-feed?
- What can they expect post-partum?



### Labor and delivery

- Method of delivery should be based solely on obstetric considerations.
- Epidural is preferred method of pain relief.





# Comorbid Medical Conditions Case Study: Pregnancy and Opioid Dependence

34 yo G2P1 had been on buprenorphine-naloxone for heroin use disorder. She moved away and got pregnant and weaned herself off the buprenorphine. Moved back and declined to restart buprenorphine because "I am not going to ever go back to drugs." NSVD of healthy baby with negative urine drug screens throughout pregnancy. Died of an overdose about 1 year post-partum.

#### MATERNAL MORTALITY AND OPIOID USE DISORDER

Studies from Maryland<sup>1</sup>, Tennessee<sup>2</sup>, Colorado<sup>3</sup>, Utah<sup>4</sup>, Ohio<sup>5</sup>, Massachusetts<sup>6</sup>, California<sup>7</sup>, Michigan<sup>8</sup>, Virginia<sup>9</sup>, Philadelphia<sup>10</sup>, New York City<sup>11</sup>, and New Mexico<sup>12</sup> have found that overdose is one of the top causes of maternal mortality, causing 15-34.5% of deaths.



#### MATERNAL MORTALITY AND OPIOID USE DISORDER

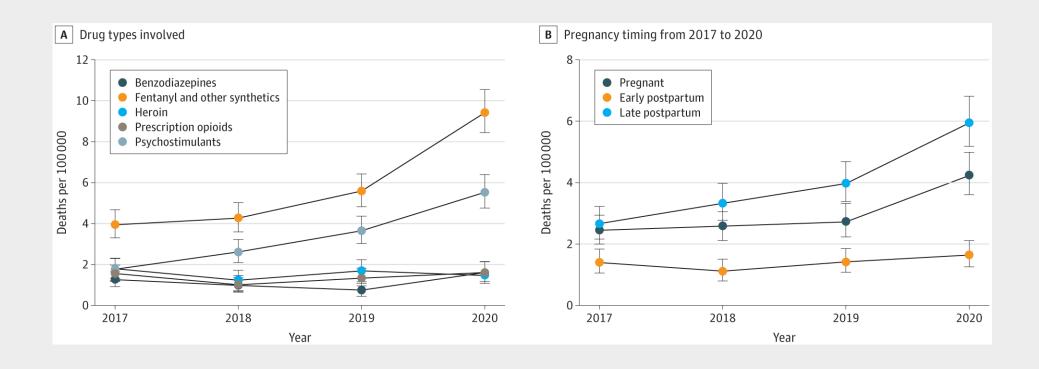
- 1. Maryland Maternal Mortality Review. 2020 Annual Review. Health General Article 13-1207 13-1208 and 13-1212.
- 2. Maternal Mortality in Tennessee Annual Report 2024 Tennessee Department of Health | Family Health and Wellness | December 2024
- 3. Metz et al. Maternal Deaths from Suicide and Overdose in Colorado, 2004-2012. Ob Gyn. Vol 128. No. 6. December 2016. pp 1233-1240
- 4. Smid et al. Pregnancy-Associated Death in Utah: Contribution of Drug-Induced Deaths. Obstet Gynecol. 2019 Jun; 133(6): 1131-1140
- 5. Hall et al. Pregnancy-Associated Mortality Due to Accidental Drug Overdose and Suicide in Ohio, 2009-2018. Obstetrics and Gynecology. Vol 136, No 4 October 2020
- 6. Schiff et al. Fatal and Nonfatal Overdose Among Pregnant and Postpartum Women in Massachusetts. Obstet Gynecol. 2018
- 7. Goldman-Mellor S, Margerison CE. Maternal drug-related death and suicide are leading causes of postpartum death in California. Am J Obstet Gynecol 2019;221:489.e1-9
- 8. :Kountanis JA, Roberts M, Admon LK, et al. Maternal deaths due to suicide and overdose in the state of Michigan from 2008 to 2018. Am J Obstet Gynecol MFM 2023;5:100811.
- 9. Virginia Maternal Mortality Review Team Annual Report. Report To The Governor And The General Assembly 2023
- 10.Mehta PK, Bachhuber MA, Hoffman R, Srinivas SK. Deaths From Unintentional Injury, Homicide, and Suicide During or Within 1 Year of Pregnancy in Philadelphia. Am J Public Health. 2016 Dec;106(12):2208-2210. doi: 10.2105/AJPH.2016.303473. Epub 2016 Oct 13. PMID: 27736205; PMCID: PMC5105012
- 11.2024 Health Advisory #31: Overdose is the Leading Cause of Pregnancy-Associated Death in NYC. NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE
- 12. New Mexico Maternal Mortality Review Committee. Pregnancy-Associated Deaths 2015 2018. New Mexico Department of Health.





#### From: US Trends in Drug Overdose Mortality Among Pregnant and Postpartum Persons, 2017-2020

JAMA. 2022;328(21):2159-2161. doi:10.1001/jama.2022.17045



- Suicide is also a substantial contributor to postpartum mortality.<sup>1</sup>
- Risk factors for postpartum opioid overdose and postpartum suicide have significant overlap.<sup>2</sup>
  - Three of the most common include depression, intimate partner violence, and substance use disorder.
- Screen for depression postpartum. Use Edinburgh Postpartum Depression Screen or another tool.



- Studies in New Mexico and Philadelphia found that about half of maternal deaths were connected to substance use.<sup>1,2</sup>
- Around 40% are associated with serious mental illness.<sup>1,2</sup>
- About 20% are associated with Intimate Partner Violence.<sup>1,2</sup>
  - 54.3% of suicides and 45.3% of homicides involved IPV.<sup>3</sup>

New Mexico Maternal Mortality Review Committee. Pregnancy-Associated Deaths 2015 – 2018. New Mexico Department of Health. Mehta PK, Bachhuber MA, Hoffman R, Srinivas SK. Deaths From Unintentional Injury, Homicide, and Suicide During or Within 1 Year of Pregnancy in Philadelphia. Am J Public Health. 2016 Dec;106(12):2208-2210. doi: 10.2105/AJPH.2016.303473. Epub 2016 Oct 13. PMID: 27736205; PMCID: PMC5105012



- Social stressors can also be significant risk factors,<sup>1</sup> including unemployment, divorce, and homelessness.
  - Removal of custody of an infant can significantly destabilize a postpartum patient.<sup>2,3</sup>
- Discontinuing psychiatric medications is associated with suicide.<sup>2,3</sup>
  - Roughly half of women on psychiatric medications discontinue them with pregnancy<sup>1</sup>

Metz et al. Maternal Deaths from Suicide and Overdose in Colorado, 2004-2012. Ob Gyn. Vol 128. No. 6. December 2016. pp 1233-1240 Smid MC, Maeda J, Stone NM, Sylvester H, Baksh L, Debbink MP, Varner MW, Metz TD. Standardized Criteria for Review of Perinatal Suicides and Accidental Drug-Related Deaths. Obstet Gynecol. 2020 Oct;136(4):645-653. doi: 10.1097/AOG.0000000000003988. PMID: 32925616; PMCID: PMC8086704.



- Prior overdose is predictive of death by overdose in the postpartum period.<sup>1</sup>
- High unscheduled health-care utilization (emergency room visits or hospitalizations) predictive of overdose and suicide.<sup>1,2,3</sup>
- Not taking or discontinuation of MOUD is a significant risk factor for overdose.<sup>4,5</sup>
  - Methadone discontinuation rate in the first six months postpartum was found to be 56% in one systematic review.<sup>4</sup>

Nielsen T, et al. Maternal and infant characteristics associated with maternal opioid overdose in the year following delivery. Addiction. 2020 Feb;115(2):291-301. doi: 10.1111/add.14825. Epub 2019 Nov 13. PMID: 31692133; PMCID: PMC7066531.Use Edinburgh Postpartum Depression Screen or another tool.

Goldman-Mellor S, Margerison CE. Maternal drug-related death and suicide are leading causes of postpartum death in California. Am J Obstet Gynecol 2019;221:489.e1-9

Kountanis JA, Roberts M, Admon LK, et al. Maternal deaths due to suicide and overdose in the state of Michigan from 2008 to 2018. Am J

Obstet Gynecol MFM 2023;5:100811.

Wilder et al Medication assisted treatment discontinuation in pregnant and postpartum women with opioid use disorder. Drug and Alcohol

Dependence 149 (2015) 225–231



# Substance use and mental health deaths during pregnancy and postpartum are preventable

 The New York State Maternal Mortality Review found that 92.9% of pregnancy associated deaths due to substance use disorder were potentially preventable.



# Increased maternal mortality continued for many years after delivery in 2019 study

Mothers in Ontario and England with babies who had neonatal abstinence syndrome have a mortality rate that is over ten times as high as mothers who did not have an affected baby.

Roughly 1 in 20 mothers died over the next decade.

Top cause of death was unintentional injuries, but there were also high rates of murder and suicide, drug-related deaths, and unavoidable deaths.



#### What can be done

- Screen for depression postpartum. Use Edinburgh Postpartum Depression Screen or another tool.
- Screen for relapse.
- Screen for intimate partner violence
- Talk about seatbelts.
- Distribute Narcan.
- Make sure every postpartum patient has a follow up appointment with primary care, postpartum care, and addiction medicine.
- Use home nursing liberally.



### Neonatal Opioid Withdrawal Syndrome



## Neonatal Opioid Withdrawal Syndrome definition

Neonatal Opioid Withdrawal Syndrome = physical withdrawal.

Neonatal Opioid Withdrawal Syndrome baby ≠ addicted to drugs.



### Clinical definition of opioid withdrawal in the neonate from the AAP

- Presence of clinical elements 1 and 2
- (1)In utero exposure to opioids with or without other psychotropic substances (recommended to be collected via confidential maternal self-report; toxicology testing also acceptable with maternal informed consent)
- (2)Clinical signs characteristic of substance withdrawal; any 2 of the following 5 signs qualify:
  - Excessive crying (easily irritable)
  - Fragmented sleep (<2-3 h after feeding)</li>
  - Tremors (disturbed or undisturbed)
  - Increased muscle tone (stiff muscles)
  - Gastrointestinal dysfunction (hyperphagia, poor feeding, feeding intolerance, loose or watery stools)

# Non-pharmacologic treatment of Neonatal Opioid Withdrawal Syndrome

- Non-pharmacologic treatment includes the following:
  - Small, frequent feeds.
  - Quiet, dim light.
  - Swaddling or skin-to-skin.
  - Prenatal education for parents.
- Studies from Dartmouth <sup>1</sup> and Yale <sup>2</sup> showed substantial improvements in cost and length of stay using non-pharmacologic treatment.



### Breastfeeding

- The Academy of Breastfeeding Medicine, the American Academy of Pediatrics, the American College of OB-GYN, the Substance Abuse and Mental Health Services Administration, and the American Society for Addiction Medicine recommend breastfeeding for women with substance use disorder who are in a treatment program and have had negative drug screens for 2 months prior to delivery. <sup>1-5</sup>
  - This includes women on MOUD.

<sup>1</sup>Jansson, L. et al, Methadone Maintenance and Breastfeeding in the Neonatal Period PEDIATRICS Vol. 121 No. 1 January 2008, pp. 106-114

2 Harris et al. Academy of Breastfeeding Medicine Clinical Protocol #21: Breastfeeding in the Setting of Substance Use and Substance Use Disorder (Revised 2023). BREASTFEEDING MEDICINE Volume 18, Number 10, 2023

\*\*Substance Use, Misuse, and Use Disorders During and Following Pregnancy, with an Emphasis on Opioids. ASAM Policy

Statement. January 18, 2017

<sup>4</sup>Clinical Guidance for Treating Pregnant and Parenting Women with Opioid Use Disorder and Their Infants. SAMHSA.

HHS Publication No. (SMA) 18-5054



### Child protective services and mental health

Study in Manitoba showed that losing custody of a child-to-child protective services is associated with significantly worse maternal mental health outcomes than experiencing the death of a child

Risk of depression was 1.90 times greater for women who had lost a child to child protective services.

Risk of substance use was 8.54 times greater for women who had lost a child to child protective services.



#### Child protective Services

- Discuss child protective service involvement during pregnancy
  - What will trigger a referral
  - What will likely happen with a referral
- Discuss with your patient what to do if a referral is made:
  - Be honest with child protective services
  - Have a plan for SUD treatment
  - Have a plan to ensure the baby is safe





From the AMERICAN INDIAN HEALTH COMMISSION
ADDENDUM TO THE WASHINGTON STATE DEPARTMENT OF
HEALTH'S MATERNAL MORTALITY REVIEW PANEL REPORT TO
THE LEGISLATURE. Tribal and Urban Indian Leadership
Recommendations September 2022

 "Help is not taking the baby from the parents. What we need is laundry cleaned, dishes washed, and some good heartwarming food." Substance use disorder is common with substantial risks during pregnancy.

Medication treatment is recommended for opioid use disorder in pregnancy.

The postpartum period and after is a risky time for relapse and death in women with SUD

Use non-medical treatments first for neonatal opioid withdrawal syndrome.

#### Take home messages



### Which of the following is correct about opioid use disorder and pregnancy?

- A. The highest risk time for relapse is postpartum
- B. Medically-assisted withdrawal should be done during the second trimester to reduce the risk of neonatal opioid withdrawal syndrome
- C. C-section is recommended for anyone actively using opioids
- D. There is a high risk of congenital anomalies with opioid use



# Which of the following are typical symptoms of neonatal opioid withdrawal syndrome?

- A. Lethargy, high-pitched cry, constipation
- B. Diarrhea, tremor, inability to sleep
- C. Bradycardia, poor feeding, excessive sleep
- D. Seizures, poor muscle tone, jaundice





#### Get in Touch

0

301.656.3920



education@asam.org



www.asam.org

JULY 2025 REVIEW COURSE 2025