

Screening and Brief Intervention for Substance Use in Pregnancy

All women should be screened for substance use at the first prenatal visit using a screening tool; e.g., the Modified NIDA Quick Screen (Modified NIDA) (see SUD2). If **positive screen** on Modified NIDA, had aberrant urine test, or If **negative** screen, then woman is lower risk clinical suspicion (see SUD2), woman is at risk **Brief Assessment Educate** "What substances have you been using in the past 3 months? During this Provide brief education about recommendations to pregnancy?" not use alcohol, tobacco, cannabis, illicit opioids, or 2. "How much of each substance have you been using at a time?" other drugs. 3. "How frequently are you using them?" Encourage the patient to ask for help in the future, as "How does this affect your life (job, home life, self-care, health, emotions)?" 4. needed. "Are you being treated for an SUD? Have you had prior treatment?" Stratify into risk group **High Risk Moderate Risk Low Risk** Current: No use Current: Low-level use of non-opioid substances, engaged in MAT, or Current: Opioid use or binge History: Low-level use prior to other SUD treatment pattern/heavy use of any learning of pregnancy History: High use in past and/or past treatment for SUD substance(s) or relapse of any SUD Is the patient currently misusing any substance? **Brief Intervention** "How ready are you to quit now?" Ask **Brief Intervention Monitor** the patient to rate this motivation on a scale from 1-10. "How ready are you to quit now?" Ask the patient to 1. Repeat Modified NIDA and "How confident are you that you can rate this motivation on a scale from 1-10. Brief Assessment at least once stop?" Ask the patient to rate their "How confident are you that you can stop?" Ask the per trimester confidence on a scale from 1-10. patient to rate their confidence on a scale from 1-10. 2. Urine testing at least once per "Why did you rate that way?" "Why did you rate that way?" 3. "How can we increase this score?" Check MassPAT at each visit "How can we increase this score?" If already in treatment, contact SUD provider Is there an active need for a referral to treatment? **Create Treatment and Monitoring Plan** Identify who will coordinate Plan of Safe Care (see SUD3) Yes No Refer to or provide medication treatment Call MCPAP for Moms with for opioid/alcohol use (see SUD4) questions **Monitor and Refer to Treatment** Recommend non-pharmacological treatment (see SUD3) Counsel on MAT in pregnancy (see SUD4) and For all women with any opioid 3. Formulate a monitoring plan including: non-pharmacological treatment (see SUD3) use or on MAT for OUD, • Repeat Modified NIDA and Brief Formulate a monitoring plan including: Assessment at least once per trimester discuss: Repeat Modified NIDA and Brief • Urine testing at least once per trimester Assessment at least once per trimester • Overdose prevention (see SUD6) • Check MassPAT at each visit • Urine testing at least once per trimester MAT during pregnancy/postpartum Identify who will coordinate Plan of Safe (see SUD4) · Check MassPAT at each visit Care (see SUD3) • Neonatal Opioid Withdrawal If already in treatment, contact SUD provider 3. Call MCPAP for Moms with questions Syndrome (NOWS) - a.k.a. Neonatal Identify who will coordinate Plan of Safe Care Abstinence Syndrome (NAS) MAT: medication for addiction treatment (see SUD3) • Pain management (see SUD5) SUD: substance use disorder Call MCPAP for Moms with questions Plan of Safe Care and DCF reporting **OUD**: opioid use disorder (see SUD3) MassPAT: Massachusetts Prescription Awareness Tool

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Assessment of Substance Use in Pregnancy

Modif	fied N	IIDA	Quick	Scre	en (Modified	NII	DA)				
Ask: "In the past three months, how often hav	e you u	used:	,,								
Alcohol (four or more drinks a day)			Never		Once or twice		Monthly		Weekly		Daily
Tobacco products			Never		Once or twice		Monthly		Weekly		Daily
Prescriptions drugs not used as prescribed or marijuana	any		Never		Once or twice		Monthly		Weekly		Daily
Illegal drugs			Never		Once or twice		Monthly		Weekly		Daily
Any answer other than "never" is a po substance(s) a					d prompt follow- nt, and the time				ner charac	terize	which
	Α	dapte	ed from t	he NII	DA Quick Screen	1					
Behaviors that may warra	nt clir	nica	l suspi	cion	for a substa	nce	use diso	rder	(SUD)		
Dose escalation Very focused on controlled substances Substantial effort/time/resources spent on obtaining controlled substances Requests early refills of controlled substances Evidence of tolerance History of withdrawal	 sub Reconfreq Pur Take present Multisub Mod 	estand quest quenc chas king d script stand od or	ces ing speci by ing illicit (liverted of tions) providers	fic ago drugs pioids s pres	controlled ent, route, (taking others' cribing controlled anges		speech) Withdrawa Evidence hoarding p Crushing/i Seeing dri syringes c Physical s	r hype al of tam oills whinjecting ug use or pipe signs o	eractive, ra apering with hile inpatie ng/snorting e parapher s)	pid or n IV o nt pills nalia (slurred r fe.g.,
Gather more history			Monite	or clo	sely			In	tervene		

Interpretation of	of Urine Drug Tests	
Urine drug tests are useful for monitoring high-risk women	Approxima	ate Detection Times in Urine
and preferred over universal screening because they can:	Drugs	Duration of Detection in Urine
Detect undisclosed substances	Buprenorphine	1-6 days
Help identify risk for neonatal withdrawal	Methadone	Up to 14 days
 Help with risk assessment for medical complications (withdrawal, management of hypertension) 	Cannabinoids	Up to 60 days (in chronic users)
Confirm use of prescribed medications	Cocaine	1-3 days
Discussion of urine drug tests results with patients should	Heroin	1-3 days
focus on promoting safety and not be punitive in nature.	Benzodiazepines	Up to 21 days

Urine drug tests have limitations because:

- They only reflect recent use, and detection times vary.
- Drug levels may vary widely depending on fluid intake, time elapsed since use, or individual variation.
- Providers need to know the characteristics of tests used within their institution because different assays may be used by different labs.
- They do not capture all illicit use (e.g., synthetic cannabinoids (K2/Spice), synthetic opioids (fentanyl, carfentanil), hallucinogens (LSD)).
- Patients can tamper with their urine specimen.
- The opioid urine assay tests primarily for heroin, morphine, and codeine and **does not** test for synthetic opioids like oxycodone, fentanyl, methadone, and buprenorphine, which each have their own urine test.

If the urine drug test is inconsistent with the patient's report, order confirmatory testing (e.g., Gas Chromatography/Mass Spectrometry – a.k.a. GC/MS).

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Treatment Options for Perinatal Substance Use Disorder (SUD)

How to Find Treatment and Resou	ırces
Bureau of Substance Abuse Services (BSAS) Helpline: Helps patient/provider determine treatment needs	1-800-327-5050 www.helplinema.org
Massachusetts Behavioral Health Access (MABHA) Service Locator: Provider-oriented treatment locator	www.mabhaccess.com/ SUD.aspx
Institute for Health and Recovery Resource Locator: Community resource locator by zip code	www.healthrecovery.or g/resource-search
The Journey Project: Website for pregnant and parenting women with substance use disorders	www.journeyrecovery project.com

Ps	ychosocial Treatments	
Peer Support	Professionally led	Residential
Alcoholics Anonymous: www.aa.org Narcotics Anonymous: www.na.org SMART recovery: www.smartrecovery.org	 Cognitive Behavioral Therapy Motivation enhancement Mindfulness-based treatments Couples/family Group counseling 	 Inpatient rehabilitation 28-day programs/"rehab" Long-term residential Sober living Therapeutic community
Patients can self-refer to any of the above options	Call MCPAP for Moms for	assistance with referrals

Plan of Safe Care (POSC)

The Plan of Safe Care is a document created jointly by a pregnant or parenting woman and her providers. This document helps a women and her team determine services or supports they may find useful to record and organize the patient's engagement in care.

- All women with a history of SUD should have a POSC coordinated.
- The POSC is intended to enhance collaboration and coordination of care.
- SUD treatment providers licensed by the MA BSAS are required to create a POSC and communicate about the POSC with other providers.
- POSC can be initiated at any time to facilitate the patient's engagement in care.
- POSC can be used to identify additional resources that may be helpful.
- DCF will ask if a POSC exists at the time any report is made.

A suggested template can be found at http://www.healthrecovery.org/safecare/.

	Treat	ment Settings for Substance Use Disorders
Level of Care	Services Offered	Additional Notes/Perinatal Options
Outpatient	Counseling	 Individual or group Facilitated by social workers or mental health/drug and alcohol counselors
	Medication management	 Methadone needs to be administered by a federally licensed facility. Buprenorphine can only be prescribed by a waivered provider. Naltrexone, acamprosate, disulfiram, or medications for smoking cessation can be prescribed by any provider (see SUD4, SUD5).
Intensive Outpatient	Group and Individual Counseling +/- medication	 Can be used for direct admission or as a step-down from a higher level of care Can vary in length and frequency of sessions Examples include: Intensive Outpatient program (IOP), Structured Outpatient Addiction Program (SOAP), and Partial Hospital Program (PHP)
Acute Treatment Services (a.k.a. "Detox")	Medically Supervised Withdrawal (Inpatient)	 Indicated for physiological dependence on alcohol or benzodiazepines Difficult to access during pregnancy Tapering opioids is not recommended during pregnancy.
Short-Term Residential (under 30 days)	Step-down and non- pharmacologic "detox"	 Examples include Clinical Stabilization Services (CSS) and Transitional support Services (TSS) or "holding." Some treat co-morbid psychiatric and substance use disorder (dual-diagnosis) and include: Individual, group, family therapy, case management, and linkage to aftercare, and medication. Some programs admit pregnant women and coordinate with prenatal care providers.
Long-term Residential (over 30 days)	Structured group living with supervision and treatment provided by addiction professionals	 Examples include 4-6 month recovery homes or "halfway houses" and specialized residential programs for women, families, and youth. Many programs assist with employment, parenting skills, and retaining/regaining custody of children. Some have enhanced services for pregnant/post-partum women and their infants, which include the coordination of perinatal/pediatric care. Individual, group therapy, case management
Involuntary Commitment/ Section 35 (up to 90 days)	Court-ordered treatment for medically supervised withdrawal and step-down services	 Family/providers can petition the local court with evidence that the patient is a danger to self/others due to substance use. The patient is brought before the judge, who decides if commitment is warranted.

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Choosing a Medication for the Treatment of Opioid Use Disorder (OUD)

Medication for addiction treatment (MAT) with methadone or buprenorphine is the first line for treatment of OUD during pregnancy. It is important to limit the use of benzodiazepines and other sedating medications to decrease overdose risk.

Is the patient already on a medication for the treatment of opioid use disorder?

YES

NO

Avoid changing medication during pregnancy

- Continue medications that the patient is stable on and optimize the dose.
- The patient may require dose increase as pregnancy advances and dose decrease at 2-4 weeks postpartum.
- If withdrawal symptoms emerge in the third trimester, you may need to increase total daily dose or frequency.

Considerations for initiating medication

- · Which medications are readily available?
- Which treatment setting can the patient get to?
- Which medication has the patient done well with before?
- · What does the patient prefer?
- For all medication choices, make sure to consider implications for pain management (see SUD5) and neonatal withdrawal risk.

			First-Line Treat	tments	
	Mechanism	Pros	Cons	Special Considerations in Pregnancy	Lactation
Methadone	Full agonist at the Mu opioid receptor	Administered in structured setting with daily observed treatment Often includes multidisciplinary treatment such as groups and counseling	Must be prescribed through a federally licensed clinic, and clinics are not easy to access Daily observed dosing is not compatible with some work/childcare schedules. Can be sedating at higher doses	Risk of QTc prolongation Rapid metabolism in the third trimester may require dose increase and change from daily to twice daily doses. Pregnant women are eligible for expedited access to a methadone clinic. Multiple drug-drug interactions (e.g., many antiretrovirals, rifampin, phenytoin)	Translactal passage: 1-6 % of the maternal weight adjusted dose Low infant exposure should not preclude breastfeeding. Breastfeeding is encouraged in substance-exposed newborns unless there is active substance use or risk of infection.
Buprenorphine (Suboxone, Subutex, Sublocade)	Partial agonist at Mu opioid receptor High- affinity receptor binding	Office-based treatment; can get a prescription at variable intervals Not usually sedating Low risk for overdose	Must be prescribed by a waivered provider Can complicate pain management in labor (see SUD5)	Patient must be in mild withdrawal prior to initiation treatment May require dose increase in third trimester Buprenorphine without naloxone (Subutex) is preferred if available; less-severe neonatal opioid withdrawal	Translactal passage: 1-20 % of the maternal weight adjusted dose (only absorbed sublingually and not orally) Breastfeeding is encouraged in substance-exposed newborns unless active substance use or risk of infection.

Treatments	with Less Evidence for Use in Pregnancy
Gradual taper with medication (a.k.a. "detox")	Naltrexone
Can be done using taper of methadone or buprenorphine	Reversible binding of opioid receptor antagonist with efficacy for alcohol and opioid use
 Emerging data for safety in pregnancy but still not standard treatment High risk of relapse 	 Available as oral, daily medication (Revia), and IM monthly injection (Vivitrol) Very limited and emerging data in pregnancy Can complicate pain management Requires 7-10 days of abstinence from all opioids prior to starting naltrexone

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Management of Pain During and After Delivery

Pregnant women with opioid use disorder (OUD) must be reassured that their pain during and after delivery can and will be treated. For women on medication for addiction treatment (MAT), it is important to support continued treatment of pain, because adequate pain control is essential for their health and well-being.

Addressing Pain in Patients with OUD Special considerations for patients on medication treatment for OUD Medications used for treatment of OUD are not sufficient When using buprenorphine and methadone during alone for pain control. pregnancy: Maintenance doses of MAT should be continued Increase total daily dose Increase frequency of administration to 2-4x per day throughout labor and delivery. Additional opioids may be needed if non-opioid treatments are insufficient. **Buprenorphine** Methadone **Naltrexone** Avoid butorphanol, nalbuphine, Blocks the analgesic effects of Avoid butorphanol, nalbuphine, and pentazocine in and pentazocine in all patients all patients with OUD or chronic opioid use as opioids: with OUD or chronic opioid use Oral naltrexone blocks these are partial agonists and can precipitate as these are partial agonists opioid withdrawal. analgesia for 72 hours and can precipitate opioid Confirm the dose with the provider, and notify the after last dose. withdrawal. o IM (depot) blocks provider of all pain medications given. · If using additional opioids for analgesia for 14-25 days Baseline dose is not sufficient for analgesia. pain, the patient may require For acute pain management Pain relief can be achieved with additional doses higher doses due to the favor regional and non-opioid of methadone; split dose three times per day. buprenorphine-blocking effect options. If the patient is NPO, methadone can be given by (high-affinity). IV, IM, or SC (if IM or SC, give half the dose divided 2-4 times per day). Optimize non-opioid medication options Optimize non-medication treatment options

Acetaminophen
 NSAIDs (e.g., ibuprofen, ketorolac)
 Ketamine, if available
 Neuraxial or regional blocks
 Mindfulness
 Meditation
 Hypnosis
 Massage
 Heat/Ice
 Cognitive Behavioral Therapy (CBT)
 Physical therapy/light exercise
 Biofeedback
 Acupuncture

Opioids can be used if the above strategies do not work (see SUD6 regarding safe opioid prescribing).

Managing Medication for Addiction Treatment (MAT) during the Perioperative/Postpartum Period

The dose of buprenorphine or methadone may need to be increased throughout the pregnancy.

- Due to metabolic changes during pregnancy it is common to have to increase the frequency of methadone and buprenorphine dosing; this can be continued post-delivery while pain management is challenging.
- Metabolism gradually returns to the pre-pregnancy state in the 2-4 weeks postpartum, so dosing needs to be decreased to pre-pregnancy dosing, and pain and sedation levels should be monitored.

Prior to delivery, collaborate with anesthesia colleagues to plan intrapartum pain management.

- Use a regional analgesia if possible (epidural or spinal, regional blocks if appropriate).
- Maximize non-opioid pain relief (avoid NSAIDs prior to delivery).
- Pain must be treated adequately to enable mobility for newborn care and breastfeeding.

Continue methadone and buprenorphine during labor and cesarean or vaginal delivery.

• Do not stop MAT at the time of delivery because it puts women at increased risk for relapse, and restarting MAT in the postpartum period is challenging.

Continuation of MAT in Postpartum period

Avoid discontinuation of MAT in 6-12 months to minimize risk of relapse/overdose during this high-risk time.

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Opioid Overdose Prevention

Opioid overdose is a leading cause of preventable maternal mortality in Massachusetts. Opioid use disorder (OUD) greatly increases the risk of death by overdose up to 12 months postpartum.

Safe Opioio	l Prescribing
Ensure the patient and caregivers have access to naloxone.	Prescribe a short duration of narcotic medication (3-7 days).
Use short-acting/immediate-release opioids at the lowest effective dose.	Discuss safe storage and disposal of opioid medication to limit risk for diversion and overdose.
Perform urine drug monitoring for patients taking opioids (confirm use of prescribed medication, and check whether the person is taking other illicit agents).	Engage the patient in an agreement for close monitoring.
Check the Massachusetts Prescription Awareness Tool (Mas	·

access to MassPAT - https://massachusetts.pmpaware.net/login.

Risk Factors for Opioid Overdose

- Combining use of opioids with other drugs (e.g., benzodiazepines or alcohol)
- A recent period without any opioid use high risk of this with postpartum relapse because of the loss of opioid tolerance

(Narcan)

- Contamination of illicit drugs with other active substances (e.g., heroin is often contaminated with fentanyl)
- Medical risks for respiratory depression (e.g., history of respiratory disease/infection, on other sedating medications)
- Previous overdose(s)
- Using alone

Na	aloxone
Naloxone is an opioid antagonist that reverses the effect opioid intoxication.	ts of
The goal of administering naloxone is to restore respiration prevent death related to opioid overdose.	ion and
Naloxone is most commonly administered intra-nasally.	
Prescribe naloxone to all patients at risk for overdose.	
Teach patients and friends/family supports how to admir nasal naloxone.	nister



How to Identify an Overdose	Steps to Manage an Overdose	Recovery Position
 Pinpoint pupils Decrease/absent breathing Unresponsiveness to loud voice or sternal rub Body goes limp Heart rate slows or stops May have a blue color to skin or nails Counsel patients and their supports about how to identify an overdose. 	 Call 911 and stay until EMS arrives. Remove the kit from packaging (two sprays per kit). Hold nasal spray with your thumb on the bottom of the plunger and two fingers on either side of the nozzle. Insert the tip of the nozzle into either nostril until your fingers touch the bottom of the person's nose. Press the plunger firmly to deliver the first dose. Remove nasal spray. Wait 3 minutes; if there is no response, administer the second dose in the alternate nostril. Place the patient in the recovery position. Advise the person not to place the victim in an ice or water bath, induce vomiting, or try to wake by slapping/hitting. 	HAND SUPPORTS HEAD KNEE STOPS BODY FROM ROLLING ONTO STOMACH
The Massachuset	ts Good Samaritan Law protects people from prosecution for if seeking help for an overdose.	drug possession

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Risks of Maternal Use	Acute Intoxication	Withdrawal	Ongoing Management
		Opioids	
Fetal effects: Opioids do not cause structural fetal abnormalities. However, opioid use during pregnancy is associated with intrauterine growth restriction, fetal demise, meconium leakage/aspiration, and preterm labor.	Symptoms: Sedation, euphoria, decreased respiration	Symptoms: Nausea, vomiting, diarrhea, abdominal muscle pain, leg cramping, rhinorrhea, lacrimation, recklessness, sweating, anxiety, hot and cold flashes, tachycardia, and yawning	Pharmacologic treatment is the first line to decrease relapse risk. Methadone can only be obtained through a federally licensed clinic. Buprenorphine (Suboxone,
Neonatal effects: Neonatal Abstinence Syndrome (NAS)/Neonatal Opioid Withdrawal Syndrome (NOWS), hypotonia, respiratory depression at delivery Maternal effects: Postpartum hemorrhage, risk of maternal overdose (mortality increases first year postpartum)	Management: Naloxone (Narcan), monitoring respiratory status	Management: Initiate agonist therapy to decrease risk for relapse. There is mixed data regarding the negative impact of maternal opioid withdrawal.	Subutex) must be prescribed by a waivered provider. Psychosocial treatments like peer supports, counseling, and sober living should be offered concurrently.
		Alcohol	
Fetal effects: Spontaneous abortion, pre-term labor, stillbirth, intrauterine growth restriction Neonatal effects: Fetal Alcohol Spectrum Disorder (FASD) and other developmental/behavioral problems, intoxication, withdrawal, Sudden Infant Death Syndrome	Symptoms: Disinhibition, sedation, slowed reaction time, vomiting, loss of coordination, sedation/loss of consciousness	Symptoms: Rapid heart rate, increased blood pressure, tremor, anxiety, flushing, diaphoresis, nausea, hallucinosis, delirium tremens, and seizures	Naltrexone: Emerging data suggests low risk of adverse birth outcomes. Disulfiram (Antabuse): Not recommended for use in pregnancy due to risk of fetal malformation and severe reaction with ETOH use
(SIDS) Maternal effects: Hepatic/pancreatic toxicity, physiologic dependence, risks of injuries/falls	Management: IV fluids (supplement with multivitamin thiamine and folate), prevention of physical injury	Management: Benzodiazepine taper. Lorazepam (Ativan) is preferred over other benzodiazepines. If the patient is using benzodiazepines, manage the taper with same medication being used. There is limited data regarding the impact of withdrawal on pregnancy. The setting for withdrawal management is individually determined based on obstetric status, gestational age, and medical and psychiatric comorbidity.	Acamprosate (Campral): No human pregnancy data Psychosocial treatments such as peer supports, counseling, or sober living should be offered concurrently.
		Benzodiazepines	
Fetal effects: Not teratogenic, can slow fetal movement Neonatal effects: Preterm birth, low birth weight, low apgar, withdrawal syndrome, admission to NICLI	Symptoms: Anxiolysis, euphoria, amnesia, disinhibition and symptoms similar to alcohol intoxication	Symptoms: Rapid heart rate, increased blood pressure, tremor, anxiety, flushing, diaphoresis, nausea, hallucinosis, delirium tremens, and seizures	The primary goal is to manage underlying symptoms and psychiatric comorbidity.
Maternal effects: Physiologic dependence, worsening of depression and anxiety, cognitive decline	Management: Flumazenil can be used to reverse acute overdose, though it is associated with increased risk of seizure, and there is no human pregnancy or lactation data.	Management: Benzodiazepine taper. Lorazepam (Ativan) is preferred, but may also use the same agent patient is dependent on. If using benzodiazepines, manage the taper with the same medication being used. There is limited data regarding the impact of alcohol or benzodiazepine withdrawal on pregnancy. The setting for withdrawal management is individually determined based on obstetric status, gestational age, and medical and psychiatric comorbidity.	supports, counseling, or sober living should be offered concurrently.

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SUD8 Summary of Impact and Management of Substance Use during the Perinatal Period (cont'd) For Mons

Risks of Maternal Use	Acute Intoxication	Withdrawal	Ongoing Management
		Cannabis	
Fetal effects: There is increased risk for psychiatric and substance use disorders in offspring. There are similar risks associated with smoking tobacco. Lipophilic (e.g., stores in fetal brain and body fat) Neonatal effects: Associated with deficits in visual processing, executive function, attention, academic	Symptoms: Euphoria, anxiety or paranoia, impaired judgement, conjunctival injection	Symptoms: Irritability, anxiety, sleep difficulty, change in appetite, mood changes, abdominal pain, shakiness, tremors, headache, and diaphoresis	Women should be advised to abstain during pregnancy/breastfeeding. Given the dose response for some risks, like growth restriction, even cutting down may be beneficial. Assess for mental health or comorbid condition.
In lactation: Levels of cannabinoids in breastmilk can exceed maternal serum levels, and exposure via breastmilk is associated with lethargy, slowed motor development, and increased risk of Sudden Infant Death Syndrome (SIDS). Maternal effects: Risks are associated with smoking, exacerbation of depression, anxiety or psychosis; heavy use could trigger hyperemesis syndrome.	Management: Supportive care	Management: Generally presents within 2-3 days of cessation of use and can last 2-3 weeks. Symptomatic and supportive care.	There is no FDA-approved pharmacotherapy for cannabis use disorder.
	Cocaine, Amphetan	Cocaine, Amphetamines, and Other Stimulants	
Fetal effects: Intrauterine growth restriction, placental abruption, increased risk for still birth Neonatal effects: Transient hypertonia, irritability, hyperreflexia. Vasoconstriction can increase the risk of necrotizing enterocolitis. There is mixed data on neurodevelopmental impact.	Symptoms: Euphoria, agitation, hyperactivity, anxiety, disorientation, confusion, and psychosis Risk for placental abruption with binge use	Symptoms: Sedation/somnolence, dysphoria, vivid dreams	Anti-craving agents such as topiramate, tiagabine, and modafinil are used in nonperinatal patients, however have not been well studied in pregnancy and lactation. Psychosocial treatments are the primary evidence-based treatment – peer supports.
Maternal effects: Hypertension and coronary vasospasm, pregnancy loss	Management: If severe, manage agitation with benzodiazepines or antipsychotic. Acute intoxication can confound assessment of vital signs and management of labor. Avoid beta blockers.	Management: Supportive care: symptomatic treatment for physical symptoms, otherwise does not require pharmacologic treatment	counseling, and sober living.
		Торассо	
Fetal effects: Smoking is associated with spontaneous abortion and intrauterine growth restriction. Nicotine is associated with miscarriage and stillbirth.	Symptoms: Acute use can result in increased heart rate, blood pressure, and GI activity.	Symptoms: Cessation has been associated with cravings, anxiety, insomnia, and irritability.	Quitting is the goal, but cutting down has benefits. Nicotine replacement should be used with a goal of cessation, not for ongoing and/or concurrent use.
Neonatal effects: Preterm birth, low birth weight, SIDS, persistent pulmonary hypertension of the newborn Maternal effects: Increased risk of deep vein thrombosis, pulmonary embolism, stroke, respiratory illness	Management: Supportive care is generally sufficient.	Management: Nicotine replacement can help with acute withdrawal, with the goal of eventual, gradual taper.	E-cigarettes: not well studied in pregnancy Bupropion: minimally effective Varenicline: effective, but limited pregnancy data Quitworks offers free phone counseling.

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