

## **Considerations for Treatment of Opioid Use Disorder in Pregnancy**

It is essential that patients be informed about the various risks of opioid use disorder (OUD) in pregnancy, including health consequences such as stillbirth as well as legal consequences such as involvement of Child Protective Services. This should be coupled with counseling about the treatment options including Medication Assisted Treatment (MAT) and behavioral therapies as well as support to realize their preferred treatment if they indicate willingness to start. A trauma-informed approach to the preceding counseling is strongly advised (see Best Practice #5).

Given that there is evidence that MAT achieves better maternal and neonatal outcomes, it should be strongly recommended over medically supervised withdrawal. However shared-decision making should be used to determine if patient would like to pursue abstinence from opioids with or without medication. The table below highlights information that can be helpful to provide patients who are considering whether or not to pursue MAT.

	Supervised Withdrawal	Medication Assisted Treatment
		(MAT)
Definition	Use of adjunctive therapies (e.g.	Use of FDA-approved medications for
	behavioral therapies, antiemetics)	treatment of OUD along with
	while patients detox from opioids to	adjunctive therapies to help patients
	help patients decrease/abstain from	decrease/abstain from opioid use
	opioid use	
Contraindications	Medically unstable	Medically unstable
		Allergy to both medications
Complicating	Severe psychiatric illness	Severe psychiatric illness
Factors		Acute pain
		Liver disease
		Heavy benzodiazepine and alcohol use
Benefits	Possibility of decreased opioid use and	Increased rates of opioid abstinence
	abstinence	Reduction in illicit opioid use and
	Avoid risks of MAT side effects	injection drug use
	Avoid ongoing need for opioid agonist	Reduction in overdose deaths and all-
	if successful	cause mortality
		Lower rates of stillbirth
		Lower risk of preterm birth
		Lower risk of growth restriction
Risks	Experience of withdrawal	Medication side effects
	Higher risk of stillbirth	Diversion of treatment
	Higher risk of relapse	(Note: no known increased risk of
	High risk of death seen in	birth defects)
	nonpregnant patients	

If patients express interest in MAT, shared-decision making should also take place to help them determine which medication to pursue. Methadone has been studied more extensively in pregnancy and approved for use accordingly, Buprenorphine is reasonable given a growing

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body of evidence of safety though longitudinal impact on children is more limited compared to Methadone.

Prior experiences with MAT are important to elucidate. Patients who have previously been on Buprenorphine/Naloxone (Suboxone) should be made aware that Buprenorphine without Naloxone (Subutex) is considered standard of care in pregnancy given limited data on the safety of Naloxone in pregnancy and decision of how to proceed should be patient-centered. Switching between different types of MAT is not advised in pregnancy given limited data and concern for high relapse rates.

The table below highlights key similarities and differences between the two MAT options that should be leveraged in the counseling of patients.

	Buprenorphine	Methadone
Withdrawal	Need to be in mild to moderate	Do not need to be in withdrawal to
Considerations	withdrawal to initiate	initiate
	Can cause withdrawal if opioids are	
	still in patients' system	
Dispensing	Must be dispensed by provider with an	Must be dispensed by Opioid
Considerations	X license	Treatment Program (OTP)
	Variable frequency of visits depending	Typically daily visits but potential for
	on clinical need	take-homes after 3 months
Treatment Retention <sup>1</sup>	Lower than Methadone	Higher than Buprenorphine
<b>Diversion Potential</b>	Low for directly observed therapy	Low for directly observed therapy
	High for take-homes	High for take-homes
Overdose Risk	Low	Low-moderate
	Increased with sedating medications	Increased with treatment induction
Contraindications	Allergy to Buprenorphine	Allergy to Methadone
	Severe liver impairment	Respiratory depression or
		hypercarbia
		Paralytic ileus
		Prolonged QTc (>500)
Warnings/Precautions	Medications with interactions	Medications with interactions
	Concomitant substance use	Concomitant substance use
	Concomitant psychiatric illness	Concomitant psychiatric illness
	Severe cardiovascular disease and/or	Decompensated liver disease
	hypotension	
	Difficulty in engaging in care	
Maternal Outcomes	Increased rates of opioid abstinence	Increased rates of opioid abstinence
	Reduction in illicit opioid use and	Reduction in illicit opioid use and
	injection drug use	injection drug use
	Reduction in overdose deaths and all-	Reduction in overdose deaths and
	cause mortality, though may be higher	all-cause mortality, though may be
	than with buprenorphine	higher than with buprenorphine
Neonatal Outcomes <sup>2</sup>	Later average gestational age than	Later average gestational age than
	untreated OUD and methadone	untreated OUD



	Higher average birthweight than	Higher average birthweight than
	untreated OUD and methadone	untreated OUD
	Less severe neonatal abstinence	Less severe than NAS than untreated
	syndrome (NAS) than untreated OUD	OUD
	and methadone	Dose does NOT affect NAS severity
	Dose does NOT affect NAS severity	
Lactation	Considered safe and advisable	Considered safe and advisable
Considerations	provided no concern for other	provided no concern for other
	contraindications (Limited data for	contraindications
	Naloxone however)	
	If not breastfeeding, appropriate to	
	switch to Buprenorphine/Naloxone	
	combination postpartum	

- 1. In the MOTHER Study, retention in treatment with Buprenorphine was 88% vs 67% with Methadone.
- 2. In the MOTHER Study, average NAS treatment for patients on Buprenorphine was 10 inpatient days and 1.1mg of Morphine vs 17.5 inpatient days and 10.4mg morphine for patients on Methadone.

Once patients determine which MAT option they would like to pursue, a decision needs to be made regarding where to initiate treatment. In contrast to non-pregnant patients, pregnant patients have obstetric risks that often make inpatient induction more desirable.

## Outpatient induction of MAT is reasonable if the following conditions are met:

Gestational age less than 20 weeks
No other significant co-existing substance use, medical or psychiatric diagnosis
Stable housing
Ability to comply with frequent visits initially
Outpatient infrastructure to allow for prompt enrollment in a Methadone Opioid
Treatment Program or access to provider who can prescribe Buprenorphine within 3
days (see Appendix B: Sample Outpatient Buprenorphine Induction Algorithm)
Ability to realize comprehensive "Plan of Safe Care" (see Best Practice #38)
Informed consent for outpatient Buprenorphine induction, including recognition that
there is limited data investigating this approach compared to innatient induction

If the preceding conditions cannot be met, inpatient MAT induction is advisable (see Appendix B: Sample Inpatient Medication-Assisted Treatment Induction Algorithms).

## **Resources/References**

- 1. Providers' Clinical Support System's Guidance on Buprenorphine Induction
- 2. ZSFG Inpatient Protocols
- 3. VCMC Protocols
- 4. SAMSA 2018 Clinical Guidelines
- 5. Jones HE, Kaltenbach K, Heil SH, et al. Neonatal abstinence syndrome after methadone or buprenorphine exposure. N Engl J Med. 2010;363(24):2320-31. [MOTHER Trial]