Analgesics in Pregnancy and Lactation



Updated October 2025

The following chart includes information to help guide decisions regarding analgesic use in pregnancy and lactation. FDA pregnancy categories have several limitations and are not included. Topical analgesics are covered in our chart. Topical Medications in Pregnancy and Lactation.

NONOPIOIDS		
Drug or Drug Class	Use in Pregnancy 🍮	Use in Lactation
Acetaminophen	Generally considered the analgesic/antipyretic of choice in pregnant women, but use the lowest dose for the shortest duration necessary. For chronic use (e.g., -21 month), some (not all) limited observational studies in humans suggest an association with neurodevelopmental concerns (e.g., ADHD, autism). Some cohort evidence suggests an association with early puberty in girls, and cryptorchidism.	First-line analgesic for lactating patients. ¹⁷ Amount in milk less than therapeutic doses given to infants. ² Case report of rash. ¹
NSAIDs and Aspirin	 impaïrment and/or oligohydramnios and its complications. ^{9,23} Consider ultrasound monitoring of amniotic fluid if used for >48 hours. ⁵Increased risk of maternal and newborn hemorrhage. Third trimester use poses risk of premature closure of ductus arteriosus (30 weeks or later.) and inhibition of labor. Use of non-aspirin NSAIDs before week 20 possibly linked to miscarriage; data 	Aspirin Hemolysis (in a glucose-6-phosphate dehydrogenase-deficient infant), metabolic acidosis, and thrombocytopenia reported. ² Theoretical risk of Reye's syndrome. ² Low-dose aspirin 81 mg once daily can be considered. ² NSAIDs Ibuprofen is the NSAID of choice: short half-life; amount milk less than therapeutic doses given to infants. ²¹⁷
OPIOIDS IN PREGNA	ANCY 🙈	

- Use the lowest dose that is effective for the shortest duration necessary.*
 Burrenorphine or methadone can be used during pregnancy for onloid use disorder ²⁴⁻²⁶⁻³² Methadone has a higher risk of preferm high than huprenorphine ³.
- Opioid use during labor can cause fetal distress or neonatal respiratory depression. Meperidine is not recommended during labor. Newborns clear meperidine slowled and may experience respiratory depression or neurologic side effets.
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developed by neonatology experts. ¹⁹		
Drug	Use in LACTATION (also see footnote a)	
Buprenorphine	 Poor oral absorption.¹ Use considered "acceptable" based on use for opioid dependence.² Extradural use for postpartum pain may suppress feeding.² 	
Butorphanol	 Poor oral absorption.² Probably compatible with breastfeeding,¹ but no info with repeated, high, intravenous, or intranasal doses.² Consider alternatives due to paucity of information, especially if nursing preterm infant or newborn.² 	
Codeine	Not recommended (Canada: contraindicated). 15,21 Risk of fatal morphine (codeine metabolite) toxicity if the lactating person is an ultrarapid CYP2 metabolizer (see footnote c). 1	
Fentanyl	 Considered compatible with breastfeeding, but try to limit use to only a few days at a low dose. Preterm infants have impaired fentanyl clearance. If used epidurally, may affect infant for first 24 hours and impair initial breastfeeding efforts if good support is not available. 	
Hydrocodone	 Excessive sleepiness and cyanosis reported in two case reports.² Active metabolite (hydromorphone) formed through CYP2D6 is more potent than oxycodone.² Theoretical risk of hydromorphone (hydrocodone metabolite) toxicity if the lactating person is an ultrarapid CYP2D6 metabolizer (see footnote c). Limit daily dose 30 mg for 2 to 3 days.² 	
Hydromorphone	Excreted in breast milk.¹ Case report of excessive sleepiness, intermittent bradycardia, and apnea in infant.²	
Meperidine	 Newborns have trouble clearing meperidine.¹ Fentanyl preferred for intravenous or intramuscular use during lactation, especially if nursing a newborn or preterm infant.² Higher risk vs morphine.² Single dose for maternal anesthesia usually not problematic in older infants.² Postpartum epidural PCA usually not sedating to breastfed infants.² 	
Methadone	 Probably compatible.¹ Breast milk concentrations are too low to be relied upon to prevent neonatal abstinence syndrome.¹ Other agents are preferred for pain control during breastfeeding.² Initiation of methadone postpartum, or increasing the dose to >100 mg/day, poses a particular risk of infant sedation and respiratory depression, especially if the infant is opioid-naive.² 	
Morphine	 Newborns and young infants do not clear morphine as rapidly as adults.² Infant can have detectable morphine levels, which may be within the therapeutic range.² Epidural administration leads to lower levels in milk than oral or intravenous administration.² Limit use to 2 to 3 days at a low dose.² 	
Nalbuphine	 Poor oral absorption.¹ Amount in milk less than therapeutic doses given to infants. Unlikely to affect infant.² 	
Oxycodone	 Accumulates in breast milk.¹ May not be safer than codeine; one in five infants of moms taking oxycodone experience CNS depression, similar to codeine.¹³ Oxycodone elimination is impaired in young infants and varies interindividually.² Theoretical risk of oxymorphone (oxycodone metabolite) toxicity if lactating person is a CYP2D6 ultrarapid metabolizer (see footnote c).¹⁴ But oxycodone is metabolized mainly by CYP3A4 to a weak metabolite (noroxycodone).³ Limit daily dose to 30 mg for 2 to 3 days.² 	
Oxymorphone	No data in humans. 12 Probably excreted in breast milk. 2	
Tapentadol	Potential to accumulate in breast milk based on physicochemical properties.	
Tramadol	 Not recommended (Canada: contraindicated) because tramadol and its active metabolite are excreted in breast milk. 20,30 Tramadol has the same risks associated with ultrarapid CYP2D6 metabolism as codeine (see codeine and footnote c). 20,30 	

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Footnotes

a. Reserve opioids for postpartum pain that can't be managed with acetaminophen or ibuprofen. 17 Use a low dose of a low-potency, short-acting opioid as needed for shortest time necessary. 17 Watch baby for limpness, difficulty feeding or breathing, or sleeping more than usual. 2 Watch baby for limpness, difficulty feeding or breathing, or sleeping more than usual

b. Using data from the single-payer health system in Ontario, Canada, association was found between first trimester use of opioids and birth defects (2.8% vs 2% [unexposed]), including heart defects (e.g., ASD [tramadol], VSD [codeine], pulmonary artery stenosis) gastrointestinal malformations (e.g., hypertrophic pyloric stenosis), tongue tie, neoplasms (tramadol), urinary defects (tramadol), and genital defects (oxycodone). Opioids represented in the study included codeine, fentanyl, hydromorphone, managed in the study included codeine, fentanyl, hydromorphone, hydromorphone, hydromorphone, hydromorphone, hydromorphone, hydromorphone, hydromorphone, hydromorphone, hydromorphone, hydromorphone meperidine, morphine, oxycodone, and tramadol.

c. Ultrarapid CYP2D6 metabolism occurs in up to 1% to 10% of white Europeans or North Americans; 3% to 4% of African Americans; 1% to 2% of Chinese, Japanese, and Koreans; and >10% of Oceanic, North African, Middle Eastern, and Puerto Rican populations, and Ashkenazi Jews. ²⁰ In a US urban population, individuals identifying as Caucasian or Hispanic had an incidence of ~11%, with variability within subpopulations. ²⁷

d. The **Birth Defects Study (Pregnancy Health Interview Study)** found an odds ratio of 2.2 (95% CI 0.9 to 5.7) for risk of **neural tube defects** in women who took opioids in early pregnancy for pain. The absolute risk of neural tube defects is low (four to six per 10,000 live births), so a two-fold increased risk would represent a small increase in absolute risk. Opioids represented in the study included **buprenorphine**, **butorphanol**, **codeine**, **fentanyl**, **hydrocodone**, **hydromorphone**, **meperidine**, **morphine**, **nalbuphine**, oxycodone, and tramadol.

e. In the **National Birth Defects Prevention Study**, associations were found between opioid use one and three months post-conception and heart defects, hydrocephaly, spina bifida, gastroschisis, glaucoma/anterior chamber defect, and cleft palate (hydrocodone). However, the absolute risk is likely small (e.g., 0.06% increased risk of hypoplastic left heart syndrome). Diopioids represented in the study included **codeine, fentanyl, hydrocodone, hydromorphone, meperidine, methadone, morphine, oxycodone, and**

Abbreviations: ASD = atrial septal defect; VSD = ventricular septal defect

References

1 Brigas GG, Towers CV, Fortnash AB. Drugs in Pregnancy and Lactation. 12th ed. Philadelphia, PA: Wolters Kluwer, 2021 (online version accessed October 4, 2025).
2 Restoration of the program of the progra Users of this resource are cautioned to use their own professional judgment and consult any other necessary or appropriate sources prior to making clinical judgments based on the content of this document. Our editors have researched the information with input from experts, government agencies, and national organizations. Information and internet links in this article were current as of the date of publication. Copyright © 2025 by Therapeutic Research Center. All Rights Reserved. trchealthcare.com