Sleep in the Perinatal Period

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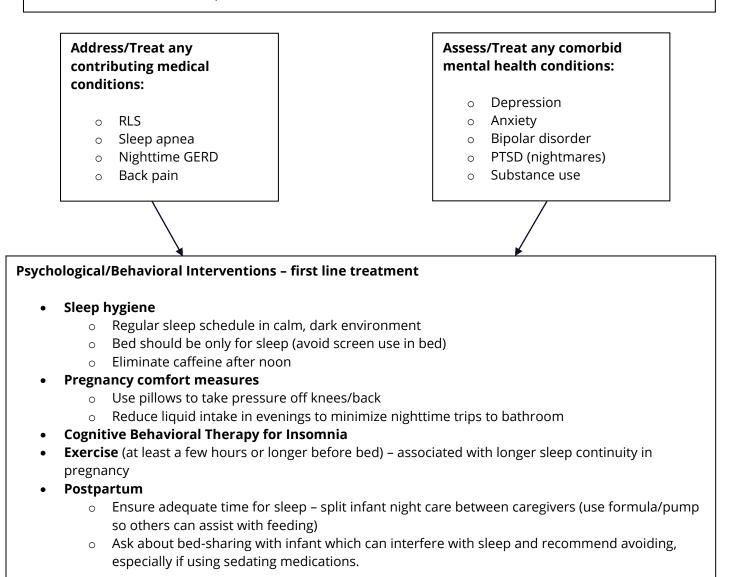
PERINATAL MENTAL HEALTH CARE GUIDE 87

Sleep disturbances

→ very common during pregnancy: Up to 78% of women (worse in third trimester)

→ fragmented sleep common postpartum

Poor sleep during pregnancy associated with: depression, SGA, pre-eclampsia, gestational diabetes, increased inflammation, and preterm birth



If hypnotic medications are necessary – use low dose for short period along with behavioral interventions

See medication chart for details on medications

Insomnia Medications and the Perinatal Period

Medication	Pregnancy	Lactation	Dose	Side Effects
Benzodiazepines *Lorazepam preferred benzodiazepine in pregnancy	See information on benzodiazepines in Perinatal Anxiety Medications Table In general, do not appear to be associated with congenital malformations (although some reports do suggest a possible association, especially when benzodiazepines are used concurrently with antidepressants) Appear to be associated with increased risk of spontaneous abortion Possibly associated with preterm birth	See information on benzodiazepines in Perinatal Anxiety Medications Table Lorazepam preferred benzodiazepine in breastfeeding – produces low levels in breastmilk	varies	 *FDA boxed warnings in general population: -abuse, misuse, addiction, physical dependence, and withdrawal -Opiate and benzodiazepine combination *Side effects: Sedation, poor coordination, risk of falls, memory impairment
"Z Drugs" Nonbenzodiazepine Benzodiazepine Receptor Agonists *Zolpidem preferred Z drug in pregnancy				*Likely increased risk of falls *Impaired cognitive function *headache, drowsiness, dizziness, and nausea. *Complex Sleep Behaviors: sleepwalking, sleep driving, sleep cooking
Zolpidem	Based on limited human data no increased risk of congenital malformations. Inconclusive data about increase of risk for preterm birth, small for gestational age, low birthweight	Doses in breastmilk are low and adverse effects are not expected. Monitor infant for sedation	5mg	
Eszopiclone	Limited data is based on zopliclone studies and is not expected to increase risk of congenital malformations. Less data than zolpidem.	No data about use in breastfeeding – recommend starting with a different medication	1-3mg	
Zaleplon	Limited data does not show increased risk of congenital malformations.	Produces low levels in breastmilk and has a short half- life. Adverse effects to infant are not expected.	5-20mg	
Antihistamines Doxylamine Hydroxyzine Diphenhydramine	Limited published data in pregnancy. Most data does not show a consistent association with birth defects. There are some isolated associations reported of cardiac malformations and non-cardiac malformations, but data has not been consistent.	Passes into breastmilk – associated with dose dependent sedation and irritability. Higher doses could decrease milk supply	Doxylamine 25mg Hydroxyzine 25-50mg Diphenhydramine 25-50mg	*sedation *dizziness * impaired coordination *Gl distress *thickened bronchial secretions

Medication	Pregnancy	Lactation	Dose	Side Effects
<u>Melatonin</u>	Recommend avoiding in pregnancy until more data is available since exogenous melatonin could theoretically interfere with fetal circadian rhythms.	Melatonin is a normal component of breastmilk, but it is unclear the effect of exogenous melatonin. There was a case report of bleeding possibly related to melatonin		*vivid dreams *irritability *headache *sedation
<u>Trazodone</u>	Very limited data in pregnancy, but not expected to increase risk of congenital malformations	Limited data, but produces low levels in breastmilk and not expected to cause adverse effects	25-100mg	*drowsiness *dizziness *orthostatic hypotension *Gl symptoms
<u>Mirtazapine</u>	*antidepressant – consider in patients with insomnia comorbid with depression. Can also help with nausea Limited data in pregnancy, but does not appear to be associated with increased risk of congenital malformations. There are conflicting reports about slight possible increase in spontaneous abortion, preterm and low birth weight. Also risk of postnatal adaptation	Limited data, but doses of up to 120mg produce low levels in breast milk and not expected to cause adverse effects	7.5mg – 15mg (for insomnia, up to 45mg for depression)	*somnolence *increased appetite *constipation
Quetiapine	 *due to side effects, recommend not using for insomnia alone, unless there is another indication for quetiapine (psychosis, bipolar disorder, antidepressant augmentation, treatment refractory anxiety) *based on limited data, no increased risk of congenital malformations. *possible increased risk of gestational diabetes *FDA warning for all atypical antipsychotics (including quetiapine): 3rd trimester exposure increases risk of adverse effects in infant – EPS, sedation, breathing and feeding difficulties, sedation, agitation, tremor 	Doses of up to 400mg produce low levels in breastmilk	*depends on indication (doses can range from 25mg – 800mg)	*FDA warning for all atypical antipsychotics: 3 rd trimester exposure increases risk of adverse effects in infant – EPS, sedation, breathing and feeding difficulties, sedation, agitation, tremor *side effects

The following medications for insomnia have no data in human pregnancy and lactation and thus should be avoided if possible: **suvorexant**, **lemborexant**, **ramelteon**

Sleep Resources

VA based CBT-I app:

https://mobile.va.gov/app/cbt-i-coach

Patient handout on pregnancy and sleep:

https://www.sleepfoundation.org/pregnancy