

# Perinatal Attention- Deficit/Hyperactivity Disorder (ADHD)

Laurel Pellegrino, MD

# Perinatal ADHD

**Prevalence:** 3-4% of adults (prevalence unchanged during pregnancy and postpartum)  
**Common Comorbidities:** Mood disorder (38%), anxiety disorder (47%), substance use disorder (15%) disorder  
**Medication Use:** Roughly 20% of pregnant people choose to continue ADHD meds throughout the pregnancy

**First, confirm the diagnosis:**  
 \*Administer [Adult ADHD Self-Report Scale \(ASRS\)](#)—5 min, positive result warrants further consideration  
 \*Age of onset, school history  
 \*Impairment in two or more domains  
 \*Rule out other causes: sleep apnea, anxiety, depression, substance abuse

**Possible pregnancy outcomes associated with untreated ADHD:**  
 \*miscarriage  
 \*preterm birth  
 \*NICU admissions  
 \*poor maternal nutrition & decreased prenatal vitamin use

**Next, assess level of impairment:**  
 Have they ever been off medications in the past? What happened?  
 Do they need medications to function at work or at home?  
 Are comorbidities worse off of medication (e.g. substance use)?  
 Are they more impulsive or accident-prone off meds (e.g. driving)?

**Non-pharmacologic strategies for mild, moderate, and severe ADHD:**  
 \*Psychoeducation  
 \*Cognitive Behavioral Therapy (CBT) for ADHD  
 \*Coaching  
 \*ADHD Support groups  
 \*Reduce workload or other workplace accommodations if possible  
 \*Use public transportation if driving concerns

<b>Mild</b>	Discontinue medication Optimize non-pharmacologic strategies
<b>Moderate</b>	Assess for comorbidities Optimize non-pharmacologic strategies Consider bupropion vs prn stimulant
<b>Severe</b>	Assess for comorbidities Continue stimulant at lowest effective dose (skip days when possible) Monitor maternal BP and weight gain Monitor fetal growth Optimize non-pharmacologic augmentation strategies

## ADHD Medications in Pregnancy

	Early Pregnancy	Late Pregnancy	Breastfeeding?
<b>Methylphenidate</b>	No consistent association with overall defects (~6700 exposures); possible small increased risk of cardiac septal defects (NNH estimates range from 92-333); possible increased risk spontaneous abortions.	Small increased risk of preterm birth. Possible increased risk of preeclampsia, SGA, placental abruption, low Apgar score, NICU admission, CNS disorders, induced terminations	Low levels in breastmilk, undetectable in infant serum. Limited data without adverse effects.
<b>Prescribed amphetamines</b>	No consistent association with malformations (~5600 exposures).	Small increased risk of preterm birth and preeclampsia. Possible increased risk of SGA, placental abruption, NICU admission, CNS disorders.	Infant dose 5-15% maternal dose. Very limited data without adverse effects.
<b>Bupropion</b>	No consistent association with malformations (~2300 exposures).	No adverse effects (small studies)	Nursing infant exposed to 2% maternal dose; 2 case reports of seizures at 6 months
<b>Atomoxetine</b>	No consistent association with malformations (~450 exposures)	Mixed evidence (~700 exposures)	Unknown
<b>Guanfacine</b>	Too few exposures to say (~30)	Low birth weight (very small studies)	Unknown
<b>Clonidine</b>	No consistent association with malformations based on data from women with HTN	Reduced fetal growth	Excreted in breast milk. Adverse events reports (hypotonia, drowsiness, apnea, seizure)