## ADHD treatment in pregnancy and breastfeeding:

There have been no systematic studies evaluating the course of ADHD across pregnancy and the postpartum period. Discussion about continuing medication during pregnancy and lactation needs to be based on understanding the risk to the pregnant person of not being on medication vs known risks of medication exposure.

First, assess for disease severity- how severe is the occupational and relational functional impairment (work, relationships, domestic responsibilities) without treatment? What are the possible and likely negative outcomes of not being treated? Can use ASRS to understand picture more fully (LINK TO ASRS). Key questions to ask include:

- 1. How have you functioned in the past at work (or school) without the use of medications?
- 2. How is your driving when not treated with medications for ADHD? Have you had a history of accidents? (this is one of, if not THE, biggest concern with untreated ADHD in pregnancy)

If severe AHD: Recommend staying on medication with discussion of risks as outlined below-

# **Congenital Malformations**

Based on the findings of large studies (Huybrects 2017) and Kolding 2021, it appears that prenatal exposure to methylphenidate or amphetamines is not associated with an increase in the overall risk of major malformations. However, both the older Huybrechts study and the newer Kolding study have observed an increase in risk of cardiovascular malformations — specifically ventricular septal defects in the Kolding study had only a small number of amphetamine exposures, the Huybrechts study reported on over 5500 amphetamine exposures, documenting no increase in risk of cardiac malformations.

Assuming the relative risk calculated in the Kolding study is correct, the risk for cardiac malformation in the methylphenidate-exposed children would be around 1.63%. A very small increase in absolute risk.

### Neurobehavioral Outcomes

Many of the neurodevelopmental studies showed no abnormalities. For example: 40

children exposed during pregnancy to methamphetamine (in some of them the mothers misused methamphetamine) showed no difference in cognitive function at 3–4 years of age compared to sex-matched controls, with the exception of slightly worse testing on the visual motor integration domain (Chang 2009).



### If mild to moderate:

- CBT Therapy for ADHD
- Bilbiotherapy: ADD Friendly Ways to Organize Your Life, Scattered, Thriving with Adult ADHD, the CBT Workbook for Adult ADHD, Driven to Distraction
- Apps: inflow, rescuetime, Focus@Will, SimpleMind
- Medication: Buproprion

#### **Breastfeeding:**

We have limited data on breastfeeding with stimulants, but the information we have thus far is reassuring There are reports of six infants breastfeeding while their mothers were treated with methylphenidate and blood levels were very low in breastmilk and undetectable in 4 infants. In the 2 reports of infants breastfeeding while their mothers were treated with amphetamine stimulants, amphetamines were detectable in breast milk at low levels and blood levels of amphetamine were detectable but very low in infants. *No adverse events were reported in any of the infants studied.* 

With severe ADHD, it may be reasonable to continue stimulants in breastfeeding. It may be useful to consider switching to an IR formulation if mom is on an extended release medication. The blood level of Immediate Release formulations peak in 1-2 hours and then decline. Moms can breastfeed or pump prior to taking medication and this can decrease exposure for the infant who has less capacity for hepatic metabolism. This risk decreases as infants age and particularly as solid foods are introduced.