"PIC TALKS"

February 22, 2017 Seminar "Psychiatric Medication Use during Pregnancy"

Dr. Nathan Stuckey, Director Pharmacy at Manchester University School of Pharmacy



Prenatal & Infant Care Network





Psychiatric Medication Use During Pregnancy

Prenatal Infant Care Network

Nathan T. Stuckey, PharmD, RPH, BCPS

Director of Clinical Pharmacy – Ambulatory Clinical Pharmacist 22 February 2017

Objectives

- I. Define Pregnancy Risk Categories
- 2. Discuss common psychotropic medications that are used during pregnancy
- 3. Identify resources for patients and caregivers



Risk vs Benefit

What is more important...?

- ☐ Fetal health and outcomes
- ☐ Maternal health and quality-of-life







Evaluating Risk

Medication Considerations

- □ Risk of abnormality in general population
- ☐ Gestational age
- □ Dosage related risks

Untreated disease implications

- □ Risk of abnormal pregnancy outcomes
- □ Risk of malformation

Make the decision







Factors the influence Teratogenicity

Stage at time of drug exposure

Maternal and fetal genotypes

Dose and duration of drug exposure

Specificity of agent





Complications of Medication Exposure

No effect

Premature or delayed labor

Spontaneous abortion

Malformation

Altered fetal growth

Functional deficit

Carcino- & Mutagenesis



Pregnancy Categories

| OLD System (before June 30, 2015) | | NEW System (after June 30, 2015) | | |
|-----------------------------------|---|-------------------------------------|---|--|
| Category | Description | Category | Description | |
| A | Adequate, well-controlled studies of pregnant women have not shown an increased risk of fetal abnormalities | Pregnancy | Required to provide registry and contact information if available Risk summary Clinical considerations | |
| В | - Animal = no risk; human = no controlled studies - Animal = risk; human = controlled studies have no risk | | + Disease-associated maternal and/or embryo/fetal risk + Dose adjustments during pregnancy and the postpartum period + Maternal adverse reactions + Fetal/neonatal adverse reactions + Labor or delivery - Human and animal data | |
| С | Animal = risk; human = no controlled studies Studies of women or animals are unavailable | Lactation | - Risk summary - Clinical considerations + Minimizing exposure + Monitoring adverse effects | |
| D | - Known risk; benefit of medicine greater than risk | Female and male individuals with | - Pregnancy testing - Contraception | |
| x | - Known risk; risk greater than benefit | fertility potential | - Infertility | |





Specific Drug Categories

| Brand Name | Generic Name | Pregnancy Category | Breactfeeding |
|--------------------|-------------------------------------|--|---|
| Clouwil | Closspine | В | For all antipsychotics, assumed to be |
| Zyprasa | Obnazpine | C | excreted in breast milk; discontinuation of |
| Seroqual | Quetizpine | С | drug or breastfeeding not recommended |
| Risperdal | Risperidone | С | Closspine (increased life-threatening |
| Invegn | Paliperidone | С | reaction in infant) and olamapine |
| Geodon | Ziprasidone | С | (increased extrapyramidal symptoms) are contraindicated |
| Abilify | Aripipmzole | С | |
| Saplaris | Asesapine | С | The AAP notes concern with closspine, |
| Latuda | Lursidone | В | olanzapine, haloperidol, chlorpromanine, perphenazine, trifinoperazine |
| Fampt | Roperidone | С | perposition, uninquinia |
| Haldol | Haloperidol | C | 1 |
| Thorazine | Chlorpromarine | С | 1 |
| Prolixin | Fhiphenamine | С | |
| Trilaton | Perphenazine | С | |
| Loxitane | Lozzpine | С | 1 |
| Navana | Thiothissne | С | |
| Stelanine | Triffsoperazine | С | |
| Mallaril | Thioridazine | С | 1 |
| Lithobid, Eskulith | Lithium | D | Breastfeeding is contraindicated, risk of hypotonia, leftargy, cyanosis, hypothermia If breastfeeding, monitor infant electrolytes and hydration closely |
| Depaketa | Valproic acid, sodium divalproex | D for opilopsyBPD X for migrains | Carbamasopine and valproic acid exposure is 3%–5% maternal exposure and considered safe, but adverse effects are possible: |
| Tegratol | Carbamanogino | D | Valproic acid and hepatotoxicity, lamotrigine |
| Торахия | Topiramate | D | and rash; sedation, lethargy possible; not |
| Lamictal | Lamotrigine | С | recommended |
| Trileptal | Оксагопреділе | C | |
| Lyrica | Progabalin | С | |
| Neurontin | Gebepentin | C | |
| Keppra | Levetiracetam | С | |
| | | | |

| Brand Name | Generic Name | Pregnancy Category | Bressfeeding |
|------------------------------|---------------------------|--|--|
| Prozac | Fluoratine | C | Overall data suggest that breast milk |
| Zoloft | Sertraline | С | values of autidepressants are low to non- |
| Lanox | Fluoresmine | С | detectable but recommend avoidance when |
| Peril | Parasetine | D | possible; sertraline has the lowest breast milk excretion and is preferred; perceptine. |
| Colona | Citalogram | С | imipramine, and nortriptyline may be used |
| Lexagno | Escitalopram | С | with monitoring, no other antidepressants |
| Effect | Venlsferine | С | are recommended |
| Cymbalta | Dulometine | С | 1 |
| Pristiq | Derrenlafazine | С | 1 |
| Savella | Minacipran | С | 1 |
| Valryd | Vilazodone | C |] |
| Decyrel | Trasodone | С |] |
| Rememo | Mirtazapine | С | |
| Wellbutrin | Bupropion | | |
| Tricyclic antidepressants | С | c | |
| MAO inhibitors | С | 1 | |
| Benzodiazopines | D | All beamodisaspines enter breast milk, may cause sedation or withdrawal effects; use is contraindicated | |
| Z-hypnotics | С | Enters breast milk; use not recommended | |
| Amphetamines C | | Enters breast milk; use not recommended | |
| Methadope | C/D | Enters breast milk; use not recommended | |
| Suborenae | Buprenorphine naloxone | CD | Enters breast milk; use not recommended |
| BuSper | Baquirose | В | Enters breast milk in trace amounts; discontinue breastfeeding or maternal use of drug if irritability or sedation in infast |

Antidepressants

Examples

☐ Citalopram (Celexa), Sertraline (Zoloft), Fluoxetine (Prozac)

Controversy about use during pregnancy

- □ Possible pulmonary hypertension and serotonin withdrawal syndrome
- □ Avoid paroxetine secondary to cardiovascular abnormalities

FDA: BLACK BOX warning, but continue if indicated

Sertraline and Fluoxetine considered the safest



Mood Stabilizers

Avoid in pregnancy

□ Consider changing to alternative therapy

Valproic Acid

□ Neural tube defects and reduced IQ

Lithium

☐ Heart defects and possible miscarriage





Antipsychotics

Most agents are rated category C

□ Clozapine and Lurasidone are category B

May be an alternative for mood-stabilizers





Resources

Mother to Baby

- □ https://mothertobaby.org/
- □ App for IOS and Android

Registries

- □ http://www.fda.gov/ScienceResearch/SpecialTopics/WomensHealthResearch/ucm134848.htm
- https://womensmentalhealth.org/clinical-and-researchprograms/pregnancyregistry/antidepressants/clinicians/



Conclusion

No clear answers

Difficult decision for patient and caregivers

□ Use fact sheets to facilitate conversations

Enroll in registries if medications are continued





QUESTIONS?

