

CDC's Communications Efforts Related to Medications and Pregnancy

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Medication use in pregnancy is common



IN THE UNITED STATES TAKE A MEDICATION DURING PREGNANCY



5.4 MILLION PREGNANCIES ARE EXPOSED TO MEDICATIONS EACH YEAR



Medication use in pregnancy raises questions

66 Should I keep taking my allergy medicine while pregnant?

Ge Who mar preg

66 How should I change my pregnant patient's treatment plan?

What should I take to manage my pain while pregnant?

Previous work

Formative research:

- Women
- Healthcare providers
- Pharmacists
- **Resulting efforts**

Formative research aimed to understand knowledge, attitudes, and beliefs about medication during pregnancy

• 3 key audiences:

- Women (focus groups + in-depth interviews)
- Prescribers (in-depth interviews)
- Pharmacists (in-depth interviews)



Primary concern was harm to fetus

"My concern is just the effects on the child. That is my greatest fear. Every time I take medication that comes to mind. I don't know if I am just being paranoid...I am always concerned, though. In the long run, will there be a side effect? I am the one who will be taking care of a child with a problem, and it would be a long, lifetime struggle."

- Interview (Planning, Depression)



Participants were also concerned with their own health...



"I didn't like using my inhaler when I was pregnant, but I had to. I don't want to feel like I can't breathe or I'm hurting my health by not taking it."

Focus Group
(Postpartum, Asthma)

...and unknown risks of medication use

"If there's no risk information, then I don't take the medication. It's not worth risking the little one. I'd value my doctor's opinion, but I don't want to cause life-long damage to the baby."

-Focus Group (Planner, Asthma)



Preferred detailed, consistent information from multiple sources

Preferred detailed information

- Potential adverse effects of medication
- Long-term side effects
- Risks to fetus during each trimester
- Risks of no treatment
- OBGYN is primary trusted source
 - Other specialists
 - Relatives
 - Friends
 - Online sources



Clear, consistent messaging and personal stories are powerful motivators and enhance trustworthiness



The New York Times

I'm Embarrassed by My Prenatal Depression. Here's Why I Talk About It Anyway.

One in five women will have mental health issues during and after pregnancy. Raising awareness matters for getting them the treatment they need.



r/BabyBumps • 4 yr. ago PM_ME_OTTER_PIX

Pregnancy and ADHD Meds

Women with ADHD who have been pregnant and continued taking their meds, I want to hear your stories! What was the outcome? Do you regret it? Did you have problems? Was everything great? I want to hear anything and everything!

...

There isn't a lot of good information on outcomes of pregnancies where women stayed on medication. Most of the data for stimulants is about addiction and recreational usage, which brings in a bunch of confounding variables. I'm trying to get a sense of other peoples real experiences and perhaps some direction of where to look for more information.

Efforts with healthcare professionals and pharmacists provided additional implications for practice

• Key Findings

- Providers retrieve information during clinical visits
- Widespread provision of safe lists
- Limited counseling for people not planning pregnancy



- Proposed enhanced technical and policy solutions
 - Improved digital information tools for discussing information in clinical settings
 - Developing evidence-based resources for physicians to share with patients
 - Encouraging counseling all women of reproductive age receiving teratogenic medications

Improving Safe Use of Medications During Pregnancy: The Roles of Patients, Physicians, and Pharmacists (sagepub.com) Obstetrician-Gynecologist Views of Pregnancy-Related Medication Safety - PMC (nih.gov)

Findings led to new materials and resources



Español (Spanish) Print

Almost every pregnant person will face a decision about taking medicines before and during pregnancy. Many people need to take medicine to stay healthy during pregnancy. However, not all medicines are safe to take during pregnancy. Some medicines may cause birth defects, pregnancy loss, prematurity, infant death, or developmental disabilities. CDC aims to improve the health of people and their babies by identifying the safest treatment options for common conditions before, during, and after pregnancy.

| Fact about Medicine and Pregnancy | Research |
|---|-------------------|
| Safer medicine use in pregnancy. | Key research find |
| Guidelines & Recommendations | Materials |
| Guidelines and recommendations for treatment. | Posters and fact |
| Questions and Answers | Key Findings |
| Answers to frequently asked questions. | Read key findings |

dings by health condition.

sheets.

s from recent publications.



Pregnant Women Report Taking Medicines for Anxiety and Other Mental Health Conditions

Pregnant or thinking of getting pregnant?



Talk to all your healthcare providers before starting or stopping any medicine.

3 Things to Discuss

- 1. All medicines vou take, including over-the-counter medicines, herbal and dietary supplements, and vitamins
- 2. Best ways to keep your health condition under control
- 3. Your personal goals for managing your health condition during pregnancy

Did you know?

9 in 10 women in the United States take a medicine during pregnancy. But not all medicines are safe to take during pregnancy.

For more information about safer medication use during pregnancy, visit: www.cdc.gov



Current efforts

- Quantitative efforts
- Qualitative efforts
- Information dissemination
- Partnerships

Recent survey explored terminology and information seeking preferences

- Where would you go to find information about pregnancy and baby health?
 - Ask a professional (72%)
 - Ask a family member (35%)
 - Search on the internet (30%)
 - Look it up on a specific website (e.g., WebMD, CDC) (29%)
- How would you like to receive information about pregnancy and baby health?
 - Link from doctor to a website (51%)
 - Handout/brochure from doctor (39%)
 - Book (30%)
 - Text from your doctor (27%)
 - Video (viewed in doctor's waiting room or patient portal) (25%)

New questions added to BD-STEPS

- Case control study of birth defects and stillbirth with a focus on medications
- Women with thyroid disease, asthma, epilepsy, autoimmune conditions, depression and/or anxiety, and ADHD were asked:

Either before or during your pregnancy, did you speak with a healthcare provider about your treatment options during pregnancy?

Starting the analysis to describe the demographic characteristics and timing of the discussions

Formative research aims to understand perceptions of risk during pregnancy

• Project with Karna

- Literature review
- Focus groups
- Survey
- Findings from literature review consistent with previous knowledge:
 - Heightened perception of risk during pregnancy
 - Overestimation of teratogenic risk of medication
 - Reliance on healthcare providers, internet sources, partners/family for information
 - Barriers include conflicting information, medical jargon, language barriers
 - Facilitators include plain language, visuals, numbers, tailored information

Next steps include focus groups and survey

• Domains to explore:

- Risk perception
- Risk communication
- Information seeking
- Decision making
- Trusted messengers
- Messaging/Framing



2 groups: Planning pregnancy 2 groups: Currently or recently pregnant (1st time) 2 groups: Currently or recently pregnant (not 1st time)

Explore perceptions of different risks and communications approaches

- Current exposure scenarios to reference (not final)
 - Medication for depression
 - Food safety advice
 - Marijuana
- Concepts/approaches to test
 - Risk to mom versus risk to baby
 - Receiving info on specific topics versus info grouped together
 - Data or storytelling
 - Explanation or directive
 - Testimonials from trusted sources

Share clear messaging and translate new findings

...



Got our RSV vaccine!

I go pres

cdcgov 🛛 • Follow

cdcgov Jazmyn knows that RSV can be dangerous for babies and young children. After talking with her doctor and family, she decided to get an RSV vaccine during her pregnancy to help protect her newborn from RSV this respiratory virus season.

To protect babies from severe RSV, CDC recommends either you get an RSV vaccine between 32 and 36 weeks of pregnancy or your baby receive a preventive antibody shot after birth. Talk to your doctor or pharmacist about which option is best for you and your baby. Tap link in bio.

A

comment.

#CDC #PublicHealth

Edited · 18w

I got the RSV vaccine in pregnancy because I am expecting a newborn during respiratory virus season. I wanted to do everything in my power to prevent him from getting seriously ill!



CDC partners with MotherToBaby



MotherToBaby

Sertraline (Zoloft®)

This sheet is about exposure to sertraline in pregnancy and while breastfeeding. This informal published literature. It should not take the place of medical care and advice from your healthc

What is sertraline?

Sertraline is a medication that has been used to treat depression, anxiety, obsessive-compuls disorder, post-traumatic stress disorder, premenstrual dysphoric disorder (a severe form of pr and social phobia. Sertraline belongs to the class of antidepressants known as selective serote (SSRIs). A brand name for sertraline is Zoloft®.

Sometimes when people find out they are pregnant, they think about changing how they take stopping their medication altogether. However, it is important to talk with your healthcare pro any changes to how you take your medication. Your healthcare providers can talk with you ab treating your condition and the risks of untreated illness during pregnancy.

Stopping this medication suddenly can cause some people to have withdrawal symptoms. It is withdrawal might affect a pregnancy. If you plan to stop this medication, your healthcare prov you slowly lower the dose instead of stopping all at once. Some people may have a return of t if they stop this medication during pregnancy. If you stop taking this medication, it is importan support in place (e.g. counseling or therapy) and a plan to restart the medication after deliver

I take sertraline. Can it make it harder for me to get pregnant?

It is not known if sertraline can make it harder to get pregnant. One study found that people who take SSRIs have a slightly lower chance of getting pregnant. However, some conditions, including depression, can make it harder to get pregnant. This makes it hard to know if the medication, the condition being treated, or other factors might affe fertility. For more information on depression, please see our fact sheet at https://mothertobaby.org/fact-sheets/depression-pregnancy/.

Does taking sertraline increase the chance of miscarriage?

Miscarriage is common and can occur in any pregnancy for many different reasons. Use of set Pregnancy filled prescriptions for sertraine during the first 35 days of pregnancy and those who stopped before pregnancy. Also, some conditions, including depression, may increase the chance of m hard to know if the medication, the condition being treated, or other factors might affect the c

Does taking sertraline increase the chance of birth defects?

reports of more than 25,000 pregnancies exposed to sertraline. Some studies have suggested heart defects or other birth defects. However, most studies have not found an increased chan birth defects above the background risk.

Does taking sertraline in pregnancy increase the chance of other pregnancy-related

Some studies suggest a higher chance for pregnancy-related problems, such as preterm deliv 37) or low birth weight (weighing less than 5 pounds, 8 ounces [2500 grams] at birth) with the pregnancy. However, research has also shown that when conditions such as depression or an undertreated during pregnancy, there could be an increased chance for pregnancy complicati to know if it is the medication, the underlying condition, or other factors that might increase the problems.

Some, but not all, studies have suggested that when people who are pregnant take SSRIs duri pregnancy, their babies might have an increased chance for a serious lung condition called pe

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Balancing Act: The Importance of Medication Dose in Pregnancy

Categories

Q SEARCH 866.626.6847

Ep. 64: Weight Loss and Ozempic in

January 31, 2024

MotherToBaby

Every pregnancy starts out with a 3-5% chance of having a birth defect. This is called the bad Sarah Obican, MD, a maternal-fetal medicine specialist at the University of South Florida and medical director of MotherToBaby Florida, joins host Chris Stallman, CGC to discuss what's known sertraline is used in pregnancy. Overall, the available data does not suggest that sertraline in about Ozempic, berberine supplement and other weight loss trends during pregnancy and



Sertraline (Zoloft®) August 1, 2023

CDC engages with clinical partners

- Ensure consistent recommendations
- Educate and empower women's health providers
- Recruit and engage champions and trusted messengers



Future steps

• Short-term action

- Assess info available on digital platforms for healthcare providers (e.g., UpToDate)
- Pitch content to digital platforms for pregnant individuals (e.g., WTE, BabyCenter)
- Expand partnerships with nurses, midwives, nurse practitioners
- Translate new findings for audiences

• Longer-term opportunities

- Improve messaging and training for pharmacists, specialty care (e.g., psychiatry)
- Enhance communication materials for patients, free of jargon, inclusive of personal stories and easy-to-understand visuals
- Partner with other experts (e.g., lactation, immunization, response)
- Consolidated hub to house information on this topic

Key points



For more information

For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

