Thalidomide

This sheet is about exposure to thalidomide in pregnancy and while breastfeeding. This information should not take the place of medical care and advice from your healthcare provider.

What is thalidomide?

Thalidomide is a medication that changes the body’s immune response and lowers the ability of the body to grow new blood vessels. Thalidomide was introduced in Germany and other countries in Europe and other continents in the 1960s as a sedative. It is one of the first medications known to cause birth defects in humans. It was prescribed to people who were pregnant to treat nausea and vomiting of early pregnancy. Thalidomide was not released in the United States until 1998. It has been used to treat several conditions, such as leprosy, cancer, inflammatory bowel disease, and complications from HIV infection. It is sold under the brand name Thalomid®.

Sometimes when people find out they are pregnant, they think about changing how they take their medication, or stopping their medication altogether. The product label for thalidomide recommends people who are pregnant not use this medication. But, the benefit of using thalidomide may outweigh possible risks. It is important to talk with your healthcare providers before making any changes to how you take this medication. They can talk with you about the benefits of treating your condition and the risks of untreated illness during pregnancy.

If you miss your period, become pregnant, have a positive pregnancy test, or have abnormal menstrual bleeding while taking thalidomide, contact your healthcare providers right away. They can talk with you about how to treat your condition and the possibilities for prenatal screening and/or testing for your pregnancy.

I am taking thalidomide, but I would like to stop taking it before becoming pregnant. How long does the drug stay in my body?

People eliminate medication at different rates. In healthy adults, it takes up to 2 days, on average, for most of the thalidomide to be gone from the body. It has been recommended that individuals using thalidomide one month before trying to get pregnant.

Thalidomide can cause birth defects when taken early in pregnancy, often before a person knows that they are pregnant. It is recommended that two different and reliable methods of birth control be used if a person is taking thalidomide. It is very important that effective methods of birth control be used correctly and at all times. Thalidomide may lower how well oral contraceptives (birth control pills) work. The manufacturer of thalidomide developed the REMS (Risk Evaluation and Mitigation Strategy) program (formerly known as the S.T.E.P.S.® program) to help prevent thalidomide exposure in people who are pregnant. Be sure to talk to your healthcare provider about the two birth control methods you should use when taking thalidomide.

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

There has been one small study that looked at people with inflammatory bowel disease who were treated with thalidomide. This study suggested exposure to thalidomide might lower the number of eggs in the ovaries.

Does taking thalidomide increase the chance for miscarriage?

Miscarriage can occur in any pregnancy. If a person takes thalidomide in pregnancy, there is an increased chance for miscarriage.

Does taking thalidomide increase the chance of birth defects?

Every pregnancy starts out with a 3-5% chance of having a birth defect. This is called the background risk. Thalidomide can increase the chance for birth defects above the background risk.

When a person who is pregnant takes thalidomide early in pregnancy (between the 20th and 36th day after conception or the 34-50th after the start of the last period), there is a chance of at least 20% or more to have a baby with birth defects. The birth defects usually seen with thalidomide exposure during pregnancy are very short or missing arms and legs, missing parts of the ears, and deafness. There is also a chance of other problems such as missing or small eyes, paralysis of the face, and defects in the heart, kidney, genitals (sex organs), and gastrointestinal tract (stomach
and intestines). The chance of birth defects if thalidomide is taken after the first trimester is unknown.

**Does taking thalidomide in pregnancy increase the chance of other pregnancy-related problems?**

Exposure to thalidomide in pregnancy has been associated with poor growth. Based on the studies reviewed, it is not known if thalidomide can cause other pregnancy-related problems, such as preterm delivery (birth before week 37).

**Does taking thalidomide in pregnancy affect future behavior or learning for the child?**

Long-term studies of thalidomide exposure during pregnancy were done on children who were born with birth defects. Some of these children have intellectual disabilities or other conditions such as autism. The possible long-term effects on children exposed to thalidomide but who were not born with physical birth defects are unknown.

**Breastfeeding while taking thalidomide:**

Thalidomide has not been studied during breastfeeding. Based on its chemical properties, it is expected to pass into breast milk. The drug may cause drowsiness in a breastfed infant, but the exact effects of thalidomide on the breastfed infant are unknown.

The product label for thalidomide recommends people who are breastfeeding not use this medication. But, the benefit of using thalidomide may outweigh possible risks. Your healthcare provider can talk with you about using thalidomide and what treatment is best for you. Be sure to talk to your healthcare provider about all of your breastfeeding questions.

**If a male takes thalidomide, could it affect fertility (ability to get partner pregnant) or increase the chance of birth defects?**

Studies have not been done to see if thalidomide could affect male fertility or increase the chance of birth defects. Thalidomide can get into semen, often at levels higher than found in blood. It is recommended that individuals taking thalidomide use latex or synthetic condoms during intercourse, and for 28 days after stopping thalidomide. In general, exposures that fathers or sperm donors have are unlikely to increase the risks to a pregnancy. For more information, please see the MotherToBaby fact sheet Paternal Exposures at https://mothertobaby.org/fact-sheets/paternal-exposures-pregnancy/.

**Please click here for references.**

Questions? Call 866.626.6847 | Text 855.999.3525 | Email or Chat at MotherToBaby.org.

Disclaimer: MotherToBaby Fact Sheets are meant for general information purposes and should not replace the advice of your health care provider. MotherToBaby is a service of the non-profit Organization of Teratology Information Specialists (OTIS). OTIS/MotherToBaby recognizes that not all people identify as “men” or “women.” When using the term “mother,” we mean the source of the egg and/or uterus and by “father,” we mean the source of the sperm, regardless of the person’s gender identity. Copyright by OTIS, May 1, 2021.