Progesterone

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

What is progesterone?

Progesterone is a hormone that is naturally made in the body by the ovaries. The body uses progesterone to build the lining of the uterus during the menstrual cycle and helps the fertilized egg attach to the wall of the uterus. During pregnancy, the placenta also makes progesterone to help prevent miscarriage. Progesterone medication is sold under many brand names including Aygestin®, Crinone®, Endometrin®, Prometrium®, Prochieve®, and Progestrona®. Some forms of progesterone are identical to the natural hormone and others are a little different. There are also man-made substances with similarities to progesterone called progestins. Progestins are included in some forms of birth control. This fact sheet does not discuss progestins when used for birth control. See our fact sheet on Depot medroxyprogesterone at https://mothertobaby.org/fact-sheets/depot-medroxyprogesterone-depo-provera-pregnancy/.

Does taking progesterone increase the chance for miscarriage?

Miscarriage can occur in any pregnancy. Progesterone use is not expected to increase the chance for a miscarriage. In fact, pregnant women might be prescribed progesterone early in pregnancy to help prevent miscarriage. Progesterone might be prescribed to help a woman become pregnant and in infertility treatment. It is important that you speak with your healthcare provider before beginning any treatment.

Will taking progesterone cause a birth defect?

In every pregnancy, a woman starts out with a 3-5% chance of having a baby with a birth defect. This is called her background risk. It is unlikely that using progesterone or progestin will increase the chance of birth defects. Studies that have looked at the children of women who took progesterone during pregnancy found that the number of birth defects was no higher than expected when compared to children of women who did not take progesterone.

A few studies suggest that there is a higher chance of a baby boy being born with hypospadias after exposure to progestins. Hypospadias is when the opening where urine comes out is not at the correct location on the penis. Sometimes this can be treated with surgery.

Could progesterone use cause other pregnancy complications?

Studies that have followed children up to the age of 5 have not found progesterone use in pregnancy to be harmful.

Can I take progesterone while breastfeeding?

Progesterone can enter breastmilk. Breastfeeding while taking progesterone is not expected to be harmful to the nursing infant. Be sure to talk to your healthcare provider about your breastfeeding questions.*

My baby’s father was taking progesterone when I became pregnant. Is there any risk to the baby?

There have been no studies looking at how a father’s progesterone intake affects pregnancy. In general, fathers’ exposures are unlikely to increase risks to a pregnancy. For more information, please see the MotherToBaby fact sheet Paternal Exposures at https://mothertobaby.org/fact-sheets/paternal-exposures-pregnancy/.*

* Section Updated May 2020
Selected References: