Depot medroxyprogesterone (Depo Provera®)

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. This sheet talks about whether exposure to depot medroxyprogesterone may increase the risk for birth defects over that background risk. This information should not take the place of medical care and advice from your health care provider.

What is depot medroxyprogesterone?

Depot medroxyprogesterone is a lab-made hormone similar to the female hormone progesterone. Depot medroxyprogesterone is sold under the brand name Depo Provera®.

Depot medroxyprogesterone injection is effective for preventing pregnancy for approximately 90 days but may be found in the bloodstream longer. It is recommended that women receive a shot every 90 days to prevent pregnancy. Depot medroxyprogesterone is not the same as oral birth control pills, which contain other hormones.

Depot medroxyprogesterone can also be used to treat menstrual disorders and, at high doses, can be used to treat certain types of cancer. This fact sheet is written specifically for the contraceptive depot medroxyprogesterone injection.

I am using depot medroxyprogesterone as birth control, but I would like to try to get pregnant. How long does the drug stay in my body?

Everyone is different. However, on average, it takes around 120 to 200 days following your last injection for the medicine to be undetectable in your system. The manufacturer of the drug found that most women who try to get pregnant after using the Depo-Provera injection get pregnant within 18 months after their last shot. Again, this can vary from person to person. Women trying to get pregnant should talk to their health care provider about taking folic acid before trying to get pregnant.

What are the effects on my baby if I was already pregnant when I received my depot medroxyprogesterone shot?

The majority of studies have not found an association between non-genital birth defects after depot medroxyprogesterone exposure during the first trimester. Also, children exposed to depot medroxyprogesterone during pregnancy or breastfeeding did not show adverse effects on their long-term health or development, including the age or stage when a person can reproduce (called sexual maturity).

There have been case reports of depot medroxyprogesterone and high-dose progesterone hormone use in early pregnancy and babies born with external (outside) genitals that are not clearly male or female (called ambiguous genitalia) in animal and human studies. These effects do not change the internal (inside) reproductive organs or sexual behavior. If correct, these effects are thought to happen less than 1% of the time. This means that 99% of the time we would not expect to find this change.

One study showed there may be an increased chance low birth weight among babies exposed to depot medroxyprogesterone during pregnancy. These pregnancies were unplanned and were compared to pregnancies among women who were planning a pregnancy. No other studies have shown long term health issues from use of depot medroxyprogesterone during pregnancy. Also, there is no evidence that depot medroxyprogesterone causes an increased chance for ectopic pregnancy (when a fertilized egg implants somewhere other than the uterus), or pregnancy loss. When you know you are pregnant you should not continue getting the depot medroxyprogesterone injections.

Are there any effects if I use depot medroxyprogesterone while breastfeeding?

In women using depot medroxyprogesterone during breastfeeding, the amount of hormone found in the breast
milk is very small. Many studies have shown that the hormone in breast milk appears to have no effect on the baby’s long term growth and development. If a woman is going to use depot medroxyprogesterone, the World Health Organization and the product label recommend waiting 6 weeks after the baby’s birth before starting. Be sure to talk to your health care provider about all your breastfeeding questions.

Selected References:

- PDR Entry for: Depo-Provera Contraceptive Injection. 2016. Pharmacia and Upjohn Company LLC.