

# Escherichia coli (**E. coli**)

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This sheet is about exposure to Escherichia coli (**E. coli**) in a pregnancy or while breastfeeding. This information should not take the place of medical care and advice from your healthcare provider.

## **What is Escherichia coli?**

Escherichia coli (**E. coli**) are a group of bacteria (germs) that naturally live in the intestines and vagina. There are many different types (strains) of **E. coli** bacteria. Most strains of **E. coli** are harmless to humans, but some can cause severe illness and infection. The most common ways people can get infected with **E. coli** are by:

- Eating raw and unwashed fruits and vegetables that are contaminated with **E. coli**.
- Drinking unpasteurized milk, fruit juices, or cider (pasteurization involves heating liquids to kill any bacteria contamination)
- Eating soft cheeses made from unpasteurized milk
- Eating raw or undercooked meat
- Drinking or swimming in infected water
- Coming into contact with feces from infected farm or petting zoo animals

## **How can I find out if I am infected with E. coli?**

Eating or drinking contaminated products may cause some people to have stomach cramps, fever, diarrhea, and/or vomiting. In severe cases, there can be bloody diarrhea, which requires medical care right away. Rarely, people with **E. coli** infection can develop a form of kidney failure called hemolytic uremic syndrome. This condition is serious and can lead to kidney damage and death.

If you have symptoms of an **E. coli** infection, a healthcare provider will likely need a stool sample (feces) from you to test for **E. coli**. Most people who are otherwise healthy recover in a couple of days without the need for medication. If you are very ill your healthcare provider might prescribe medication.

## **I have E. coli. Can it make it harder for me to become pregnant?**

**E. coli** may be a cause of inflammation in the reproductive tract and intestines. It may be associated with endometriosis (a condition in which tissue that usually lines the uterus grows outside the uterus). In rare cases **E. coli** has also been linked to blockages in fallopian tubes. Blockages can prevent pregnancy by keeping the egg from reaching the uterus.

## **Does getting an E. coli infection increase the chance for miscarriage?**

Miscarriage can occur in any pregnancy. Having an **E. coli** infection in your stomach or urine would not be likely to directly cause a miscarriage. However, since having an **E. coli** infection can cause diarrhea, and diarrhea causes the body to lose a lot of fluids, a woman who is pregnant with an **E. coli** infection can become dehydrated. If you think you have an **E. coli** infection, talk with a healthcare provider right away so that you can be diagnosed and treated, if necessary. An **E. coli** infection in your uterus might increase the chances for pregnancy loss.

## **Does getting an E. coli infection increase the chance for birth defects?**

Every pregnancy starts out with a 3-5% chance of having a birth defect. This is called the background risk. Studies have not been done to see if an **E. coli** infection increases the chance for birth defects.

## **Would having an E. coli infection increase the chance of other pregnancy related problems?**

An **E. coli** infection in your vagina or uterus might result in pregnancy problems. There may be an increased chance for preterm rupture of membranes (a breaking of the amniotic sac, which holds the amniotic fluid around the developing baby), preterm delivery (delivery before 37 weeks of pregnancy) or stillbirth with severe **E. coli** infection. There are reports of **E. coli** causing low birth weight (weighing less than 5 pounds, 8 ounces [2500 grams] at birth).

Sepsis (serious widespread bodily infection) during pregnancy has also been reported. Babies born with *E. coli* infections are sometimes very sick.

***Does having an E. coli infection in pregnancy affect future behavior or learning for the child?***

Studies have not been done to see if *E. coli* in pregnancy can cause behavior or learning issues for the child.

***How can I prevent getting an E. coli infection?***

To help prevent eating or drinking contaminated food and/or drink products:

- Wash your hands with soap and water often. And always wash your hands after handling raw meat, using or cleaning the bathroom, changing diapers, handling dirty towels or linens, and touching animals or items in the animals' setting.
- Clean any surface touching raw meat with a disinfectant or bleach and water solution.
- Cook meat thoroughly, especially ground beef, to 160°F.
- Wash all vegetables and fruits before eating.
- Drink only milk, juice and ciders that have been pasteurized.
- Avoid swallowing water when swimming.

***Breastfeeding while I have an E. coli infection:***

The *E. coli* bacteria do not get into the breast milk, so breastfeeding can be continued. There are important immune factors in breast milk that can help protect your baby from infections. Having diarrhea and other symptoms of *E. coli* infection may cause a decrease in your milk supply, so drink plenty of fluids. Make sure that you wash your hands well before you hold or breastfeed your baby. If your baby gets diarrhea or other symptoms of *E. coli* infection, contact your pediatrician right away. Be sure to talk to your healthcare provider about all of your breastfeeding questions.

***If a man has an E. coli infection can it make it harder to get a woman pregnant or increase the chance of birth defects? E. coli*** can be passed from person to person. Wash hands often to help reduce the chance of passing the disease among people living in your home. *E. coli* infections of the genital tract can cause infection and inflammation. This might stop or block sperm from moving through the genital track properly and could make conception more difficult. In general, exposures that men 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](https://mothertobaby.org).

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