



Group B Strep and Pregnancy

About 1 in 4 pregnant women carry a type of **bacteria** known as **group B streptococcus (GBS)**. A woman with GBS can pass it to her **fetus** during labor and delivery. Most newborns who get GBS from their mothers do not have health problems, but a few will get sick. For a small number of babies, the illness can be serious and even cause death.

A test can detect if a pregnant woman carries GBS. If she does, treatment with **antibiotics** can be given during labor. This treatment may help prevent her newborn from getting GBS disease.

This pamphlet explains

- what GBS is
- how GBS may affect a newborn
- testing and treatment
- special situations

What Is GBS?

GBS is one of the many bacteria that live in the body. It usually does not cause serious illness, and it is not a **sexually transmitted infection (STI)**. Also, although the names are similar, GBS is different from group A streptococcus, the bacteria that causes “strep throat.”

In women, GBS most often is found in the **vagina** and **rectum**. GBS usually does not cause symptoms in adults. But if GBS is passed from a woman to her fetus, the baby may get sick after birth. This is rare and happens to 1 or 2 babies out of 100 when the mother does not receive treatment during labor. The

chance of a newborn getting sick is much lower when the mother receives treatment.

Although GBS is fairly common in pregnancy, very few babies get sick with GBS disease. The risk of GBS disease is higher in babies who are born before 37 weeks of pregnancy.

How GBS May Affect a Newborn

Even though it is rare for a baby to get GBS, it can be very serious when it happens. Babies who get GBS may have early-onset or late-onset disease.

Early-Onset Disease

With early-onset disease, a baby typically gets sick within 12 to 48 hours after birth or up to the first 7 days. Early-onset disease can cause severe problems, such as

- inflammation of the covering of the brain or spinal cord (*meningitis*)
- infection of the lungs (*pneumonia*)
- infection in the blood (*sepsis*)

A small number of babies with early-onset disease die even with immediate treatment.

Late-Onset Disease

With late-onset disease, a baby gets sick between a week to a few months after birth. The disease is usually caused by contact with the mother after delivery if she is infected. But it can come from other sources too, such as contact with other people who have GBS.

Late-onset disease also is serious and can cause meningitis (see box “Signs and Symptoms of Late-Onset Disease”). While antibiotic treatment during labor can help prevent early-onset disease in a baby, this treatment does not prevent late-onset disease.

Testing and Treatment

Pregnant women are screened for GBS as part of routine *prenatal care*. The test for GBS is called a culture. It is now done between 36 and 38 weeks of pregnancy. In this test, a swab is used to take a sample from the vagina and rectum.

If the results show that GBS is present, most women will receive antibiotics through an *intravenous (IV) line* once labor has started. This is done to help protect the fetus from being infected. The best time for treatment is during labor.

You likely will have a GBS test during each pregnancy no matter what your test results were in a past pregnancy. In some cases, you automatically will be

Signs and Symptoms of Late-Onset Disease

Treatment with antibiotics during labor can help prevent early-onset GBS disease, but it does not prevent late-onset disease. Babies may pick up GBS from people they come in contact with.

Late-onset disease most commonly causes meningitis. In newborns, the signs and symptoms of meningitis can be hard to spot. Contact your baby's health care professional right away if your baby has any signs or symptoms of disease, including,

- lack of energy
- irritability
- poor feeding
- high fever

given antibiotics during labor without testing for GBS. Antibiotics may be given without testing if

- you had a previous child who had GBS disease
- you have GBS bacteria in your urine at any point during your pregnancy
- your GBS status is not known when you go into labor and you have a fever
- your GBS status is not known and you go into labor before 37 weeks
- your GBS status is not known and it has been 18 hours or more since your water broke
- your GBS status for this pregnancy is not known but you tested positive for GBS in a past pregnancy

Penicillin is the antibiotic that is most often given to prevent early-onset disease in newborns. If you are allergic to penicillin, tell your health care professional before you are tested for GBS. You may have a skin test to determine the severity of your allergies. If needed, other antibiotics can be used.

Special Situations

Women who have a *cesarean birth* do not need to be given antibiotics for GBS during delivery if their labor has not started and the *amniotic sac* has not ruptured (their water has not broken). But these women should still be tested for GBS because labor may happen before a cesarean birth. If the test result is positive, the baby may need to be monitored for GBS disease after birth.

Finally...

GBS can cause serious health problems in newborns. Pregnant women are tested for GBS late in pregnancy. If you are GBS positive, treatment during labor and delivery may help prevent early-onset GBS disease in your baby. Tell your health care professional

- about your GBS status in past pregnancies
- whether you have had a baby with GBS disease
- if you are allergic to penicillin

Glossary

Amniotic Sac: Fluid-filled sac in a woman's uterus. The fetus develops in this sac.

Antibiotics: Drugs that treat certain types of infections.

Bacteria: One-celled organisms that can cause infections in the human body.

Cesarean Birth: Birth of a fetus from the uterus through an incision (cut) made in the woman's abdomen.

Fetus: The stage of human development beyond 8 completed weeks after fertilization.

Group B Streptococcus (GBS): A type of bacteria that many people carry normally and can be passed to the fetus at the time of delivery. GBS can cause serious infection in some newborns. Antibiotics are given to women who carry the bacteria during labor to prevent newborn infection.

Intravenous (IV) Line: A tube inserted into a vein and used to deliver medication or fluids.

Meningitis: Inflammation of the covering of the brain or spinal cord.

Pneumonia: An infection of the lungs.

Prenatal Care: A program of care for a pregnant woman before the birth of her baby.

Rectum: The last part of the digestive tract.

Sepsis: A condition in which infectious toxins (usually from bacteria) are in the blood. It is a serious condition that can be life threatening. Symptoms include fever, rapid heart rate, breathing difficulty, and mental confusion.

Sexually Transmitted Infection (STI): An infection that is spread by sexual contact. Infections include chlamydia, gonorrhea, human papillomavirus (HPV), herpes, syphilis, and human immunodeficiency virus (HIV, the cause of acquired immunodeficiency syndrome [AIDS]).

Vagina: A tube-like structure surrounded by muscles. The vagina leads from the uterus to the outside of the body.

This information was designed as an educational aid to patients and sets forth current information and opinions related to women's health. It is not intended as a statement of the standard of care, nor does it comprise all proper treatments or methods of care. It is not a substitute for a treating clinician's independent professional judgment. Please check for updates at www.acog.org to ensure accuracy.

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