

GROUP B STREP TESTING

What is Group B Streptococcus?

Group B Streptococcus (GBS) bacteria is a common bacteria found in about 25% of pregnant women. GBS bacteria generally do not produce symptoms in a healthy adult. Colonization with GBS is transient, intermittent, or chronic, meaning that a woman can test positive at certain times and not at others. Women who test positive for GBS in late pregnancy (after 35-37 weeks), or women who have a urinary tract infection caused by GBS at any point in pregnancy, are considered to be carrying GBS at the time of birth, and are therefore at risk of passing GBS bacteria to their newborn.

Why should I be aware of Group B Streptococcus (GBS)?

Of the 25% of pregnant women who are positive for GBS, about 50% of their newborns will have the bacteria transmitted to them either as they are born through the birth canal, or prior to birth as a result of the bacteria entering the amniotic sac (bag of waters). Most babies (~98%) will not be affected by the transmission of GBS during labour. About 2% of the babies colonized with the bacteria (1% of all babies born to GBS positive mothers), will become ill. A small percentage of the colonized babies who become ill will die from the infection.

Two types of GBS infections can occur in the newborn:

- Early onset disease usually starts within hours of birth up to 7 days of age, and has a mortality rate of 4%. Sepsis (blood infection), and pneumonia (lung infection) are the most frequently seen problems. Premature babies are more susceptible to GBS disease than full term babies.
- Late onset disease can occur in newborns 7 days to 3 months of age. It is less common and has a lower mortality rate. Meningitis (infection of the fluid and lining around the brain) is more common with late-onset disease. Only half of late-onset GBS disease among newborns comes from a colonized mother; the source of infection for the other 50% is unknown. Late-onset GBS disease is very rare.

How do I know if I am carrying GBS bacteria?

The current guidelines recommend that all pregnant women be tested for GBS at 35 to 37 weeks gestation. A sterile swab is used to collect a sample from the vagina and the rectum. Studies show that results are the same if the woman collects her own swab as if the swab is done by a health care provider. This is sent to a laboratory for testing, results are available within one week.

What treatment is recommended?

If the swab is *positive*, the woman if offered treatment with intravenous antibiotics when they are in active labour or when their water breaks. If the swab is *negative*, antibiotics are not required in labour.

Women with either a GBS positive bladder infection during the current pregnancy or a previously delivery of a newborn with GBS disease do not require testing in late pregnancy, as they are considered positive and are therefore offered intravenous antibiotic treatment in labour.

Pregnant women who decline testing for GBS or who go into labour before results are known are offered antibiotics if they develop risk factors which can increase the chances of their newborn being affected:

- labor starting at less than 37 weeks (preterm labor);
- prolonged membrane rupture (water breaking more than 18 hours before labor starts);
- fever during labor.



GROUP B STREP TESTING

How are antibiotics administered?

Antibiotics are given through an IV in your arm. The antibiotics work to reduce the level of GBS in the birth canal and to provide protection to the baby should he/she become colonized with GBS. Antibiotics are most effective if given at least four hours before delivery. Pencillin is the most effective antibiotic, with alternative antibiotics used for those with allergy to Pencillin. The antibiotic takes about 30 minutes to administer, and is repeated every 4 hours until the birth of your baby. Midwives are able to administer these antibiotics at home for women planning homebirth.

Risk of GBS infection in the newborn:

1 in 200 babies born to GBS positive women who do *not* receive antibiotics in labour 1 in 4,000 babies born to GBS positive women who receive at least 1 dose of antibiotics in labour

All babies born to GBS positive mothers are watched for signs of infection, especially those that do not receive antibiotics in labour or those that are at increased risk of developing GBS infection. If your baby develops any symptoms of infection they will be cared for in the Special Care Nursery (SCN). Well babies who do not develop symptoms of infection are able to go home from the hospital or stay with you at home as usual after a normal birth.

INFORMED CONSENT

I have read and understand the above information and have had my questions answered.

 I would like to be tested for GBS. I am aware I will be offered IV regardless of the presence or absence of any other risk factors. I do not want to be tested for GBS. I am aware that I will be offer factors including preterm delivery (prior to 37 completed weeks), my membranes are ruptured for more than 18 hours before delivered. 	red IV antibiotics in labour if I develop risk maternal fever in labour (>38.0 oC), or if
Client's Signature	_ Date:
Midwife's Signature	_ Date:

References:

- 1. The Society of Obstetricians and Gynaecologists of Canada (SOGC). September 2004. Clinical Practice Guidelines No. 149: <u>Statement on the Prevention of Early-Onset Group B Streptococcal Infections in the Newborn</u>.
- Centres for Disease Control and Prevention. Clinical Practice Guidelines: <u>Prevention of Perinatal Group B</u> <u>Streptococcal Disease</u>. Morbidity and Mortality Weekly Report (MMWR) 2002:51 (No.RR-11). <u>http://www.cdc.gov/groupbstrep</u>
- Centres for Disease Control and Prevention. Frequently Asked Questions: Group B Strep http://www.cdc.gov/groupBstrep/general/gen-public-fag.htm