Protecting your baby against hepatitis B with the hepatitis B vaccine

Public Health England

NHS

immunisation

the safest way to protect yourself and your baby
Hepatitis B infection and the risk to your baby

Each year in the UK, around 3,000 babies are born to women who have hepatitis B infection. This infection is caused by a virus that is spread through blood and attacks the liver.

During childbirth, your baby is in contact with your blood so there is a chance that the virus is passed on to your baby. If this happens, your baby could become infected. 9 out of 10 exposed babies will develop chronic (long-lasting) infection.

This can lead to liver disease such as scarring of the liver (cirrhosis) and liver cancer – which stops the liver from working properly.

Hepatitis B infection can be prevented by vaccination.

How you can protect your baby

Talk to your midwife and register your baby with a GP as soon as you can so that their vaccines can be ordered – see page 6. Make sure that your baby:

- has their vaccines at the right age from birth
- completes the full course of vaccines
- has a blood test for infection when they reach one year of age
Hepatitis B vaccine can protect your baby

A complete course of 6 doses of vaccines is needed to fully protect your baby against long lasting (chronic) hepatitis B infection. The vaccine is given as a small injection into the thigh.

Your midwife will know that your baby should have the first dose of hepatitis B vaccine within 24 hours of birth

Your baby may also need hepatitis B immunoglobulin (HBIG) at the same time as their birth dose of vaccine, if there is a higher risk of infection. Your midwife will tell you if it is needed. HBIG is also given as a single injection in the thigh.
Completing the full course of vaccines

The second dose of single hepatitis B vaccine needs to be given at 4 weeks of age.

The next 3 doses of hepatitis B containing vaccine are routinely given to all babies at 8, 12 and 16 weeks old. These also protect against other serious infections including diphtheria, tetanus, polio, whooping cough and haemophilus influenzae type B.

Your baby’s final dose of single hepatitis B vaccine should be given when they reach one year of age. This dose can be given at the same time as their other routine vaccines.

If you are not able to attend any of the appointments, please let your GP know as soon as possible so that another appointment can be arranged.

Testing your baby for infection

Each year, a very small number of babies may develop infection so your baby will be offered a blood test when they are one year old. This is to check that the course of vaccines have prevented them from developing hepatitis B.

There are two ways that this may be done and your GP, health visitor or practice nurse will advise you which test your baby will have:

1. a heel prick dried blood spot (DBS) test where a sharp point is used to make a small prick in your baby’s heel and a few drops of blood are dropped onto a card which is sent off for testing.

2. blood test taken from a vein in your baby’s arm or hand.

If they do have the infection, they will be referred to a specialist for treatment to reduce their risk of developing serious liver disease.
If a young infant is infected, they are more likely to develop long lasting (chronic) infection without any signs or symptoms of infection. **So even if your baby has no signs or symptoms of infection they should still have the blood test.**

Infection can be prevented in 90% of cases if the first dose of vaccine is given at birth and the full course of vaccines is completed on time.
If you had your baby at home, check with your midwife that they have ordered the first dose of vaccine (and immunoglobulin if needed) for your baby so it is given within 24 hours of birth.

If you move home it is very important that you let your health visitor know and that you register your baby with a new GP as soon as possible so that they can complete their course of vaccines.

Tell your new GP that your baby needs to complete a course of hepatitis B vaccination and have a blood test at 12 months old because they may have been in contact with the virus at birth.

If you are moving abroad before your baby is one year old, please let your GP know and don’t forget to register your baby with a new family doctor in your new country of residence.

Take your baby’s Red Book with you and make sure your baby receives all of the doses of hepatitis B vaccines on time and has a blood test at 12 months old.

If your baby needs to stay in hospital they should receive the second dose of vaccine when they reach 4 weeks old and then continue to follow the schedule on page 7.
### Keep a record of your baby’s appointments and vaccination dates below.

These will also be recorded by your midwife, health visitor, practice nurse and GP in your baby’s Red Book (Personal Child Health Record)

<table>
<thead>
<tr>
<th>Appointment date</th>
<th>Age due</th>
<th>Vaccine</th>
<th>Date vaccine given</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birth</td>
<td>Single dose of hepatitis B vaccine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HBlG (if required)</td>
<td>Single dose of hepatitis B vaccine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 weeks</td>
<td>Single dose of hepatitis B vaccine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 weeks</td>
<td>Routine childhood vaccines (contains hepatitis B protection)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 weeks</td>
<td>Routine childhood vaccines (contains hepatitis B protection)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 weeks</td>
<td>Routine childhood vaccines (contains hepatitis B protection)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 months</td>
<td>Single dose of hepatitis B vaccine</td>
<td>Blood test to check if your baby has hepatitis B infection</td>
<td></td>
</tr>
</tbody>
</table>
It is essential that your baby receives all of the doses in the table below at the right age to protect them from infection.

<table>
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Keep your baby up to date with their vaccines

Further information about hepatitis B is also available at:

**NHS Choices**
www.nhs.uk/conditions/hepatitis-b

**Children’s Liver Disease Foundation**
General enquiries: 0121 212 3839
www.childliverdisease.org
Email: info@childliverdisease.org

**British Liver Trust**
General enquiries: 01425 481320
www.britishlivertrust.org.uk
Helpline enquiries:
helpline@britishlivertrust.org.uk

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