To protect infants from HBV infection, CDC recommends that all delivery hospitals institute standing orders or admission orders and protocols to ensure healthcare professionals do the following:

1. Administer hepatitis B vaccine to all newborns before they are discharged from the hospital.
2. Identify all infants born to mothers who are hepatitis B surface antigen (HBsAg) positive or to mothers with unknown HBsAg status. Administer appropriate immunoprophylaxis to these infants.

Admission Orders and Procedures for Women Admitted to a Birthing Facility

For pregnant women who have a HBsAg lab report included in their prenatal records, do the following:

1. Examine a copy of the original laboratory report of the pregnant woman’s HBsAg test result to verify that the correct test (i.e., HBsAg) was performed and to verify that the testing date was during this pregnancy not a previous one. Do not rely on a handwritten or transcribed HBsAg test result!
2. Place a copy of the original HBsAg lab report into (1) the pregnant woman’s L&D record and (2) the infant’s hospital record.
3. If the pregnant woman is HBsAg positive, alert the nursery staff that the newborn is high risk and will need postexposure prophylaxis – both hepatitis B immune globulin (HBIG) and hepatitis B vaccine – within 12 hours of birth.
4. Perform a repeat blood test for HBsAg if the pregnant woman was HBsAg negative during a prenatal visit but was at risk for acquiring HBV infection during this pregnancy (e.g., not in a long-term, mutually monogamous relationship; had an HBsAg-positive sex partner; had evaluation or treatment for a sexually transmitted disease; currently uses or recently used injection drugs).
5. Instruct the laboratory to call L&D and the nursery with the HBsAg test result ASAP.
For pregnant women who do not have a HBsAg lab report on their prenatal record, do the following:

1. Perform HBsAg\textsuperscript{1} testing ASAP on women who do not have a copy of an original HBsAg laboratory report from the current pregnancy included in their prenatal record.

2. Instruct the lab to call L&D and the nursery units with the newly obtained HBsAg test result ASAP.

**Admission Orders and Procedures for Newborns**

**Hospital procedures to follow for ALL newborns**

1. Review a copy of the mother’s original HBsAg\textsuperscript{1} lab report to ensure that the correct serologic test was ordered and that it was ordered during this pregnancy.

2. Determine if the newborn needs immediate postexposure prophylaxis within 12 hours of birth. To do this you must know the mother’s HBsAg status and the newborn’s birth weight. If the newborn weighs less than 2 kg (4.4 lb), see the guidance below and footnotes 2, 5, 6.

3. Prior to vaccination, give parent a Hepatitis B Vaccine Information Statement.

**For newborns of HBsAg-negative mothers**

1. Administer single-antigen hepatitis B vaccine (0.5 mL, IM) before hospital discharge to all newborns weighing 2 kg (4.4 lb) or more at birth.\textsuperscript{2, 3, 4}

2. Document the hepatitis B vaccine dose in the newborn’s medical record, including the date, time, and site of administration, as well as the vaccine lot number. Notify the regional immunization registry, if one is available.

3. Give the mother an immunization record card that includes the hepatitis B vaccination date. Explain the importance of completing the hepatitis B vaccine series to protect her baby. Remind her to bring the immunization record card with her each time her baby sees a provider.

**For newborns of mothers with unknown HBsAg status, do the following:**

1. Administer single-antigen hepatitis B vaccine (0.5 mL, IM) within 12 hours of birth.\textsuperscript{3, 4} Do not wait for test results to return before giving this dose of vaccine.

2. Document the hepatitis B vaccine dose in the newborn’s medical record, including the date, time, and site of administration, as well as the vaccine lot number. Notify immunization registry.

3. Give the mother an immunization record card that includes the hepatitis B vaccination date. Explain the importance of completing the hepatitis B vaccine series to protect her baby. Remind her to bring the immunization record card with her each time her baby sees a provider.

4. Confirm that the laboratory has received blood for the mother’s HBsAg\textsuperscript{1} test.

5. Verify when the mother’s HBsAg result will be available and that it will be reported to L&D and the newborn unit ASAP.

6. If the nursery does not receive the report of the mother’s HBsAg test at the expected time, call the laboratory for the result.

7. If the laboratory test indicates the mother’s HBsAg\textsuperscript{1} test result is positive, do the following:
   a. Administer HBIG (0.5 mL, IM) to the newborn ASAP. (Hepatitis B vaccine should have been given within 12 hours of birth.)
   b. Document the HBIG dose in the newborn’s medical record. There is little benefit in administering HBIG to the newborn if more than 7 days have elapsed since birth.
   c. Alert the mother’s and newborn’s physician(s) of the test result.
   d. Follow the instructions below “For newborns of HBsAg-positive mothers,” steps 3–7.

8. If the newborn must be discharged before the mother’s HBsAg result is known:
   a. Document the parents’ contact information (e.g., addresses, telephone numbers, emergency contacts) in case further treatment is needed for the infant.

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**Hepatitis B:**

*What Hospitals Need to Do to Protect Newborns*

www.immunize.org/protect-newborns
b. Obtain the name, address, and phone number of the mother’s and the newborn’s healthcare providers.

c. Notify the mother’s and newborn’s healthcare providers that the mother’s HBsAg test result is pending.

For newborns of HBsAg-positive mothers

1. Administer HBIG (0.5 mL, IM) and single-antigen hepatitis B vaccine (0.5 mL, IM) at separate injection sites within 12 hours of birth.

2. Document the hepatitis B vaccine and HBIG dose in the newborn’s medical record, including the date, time, and site of administration, as well as the vaccine lot number. If an immunization registry is available, notify it of both doses.

3. Give the mother an immunization record card that includes the hepatitis B vaccination and HBIG dates. Explain the importance of completing the hepatitis B vaccine series to protect her baby. Remind her to bring the immunization record card with her each time her baby sees a provider.

4. Notify the local or state health department of the infant’s birth and the date and time of administration of HBIG and hepatitis B vaccine doses.

5. Obtain the name, address, and phone number of the newborn’s primary care provider.

6. Notify the provider of the newborn’s birth, the date and time of HBIG and hepatitis B vaccine doses administered, and the importance of additional on-time vaccination and postvaccination testing of the infant for HBsAg and antibody to HBsAg after completion of the hepatitis B vaccine series.

7. Provide advice to mother. Tell her the following:

   a. That she may breast-feed her infant upon delivery, even before hepatitis B vaccine and HBIG are given;

   b. That it is critical for her infant to complete the full hepatitis B vaccine series on the recommended schedule;

   c. That blood will need to be drawn from the infant after completion of at least 3 doses of the hepatitis B vaccine series at age 9–18 months (usually done at a well-child visit) to determine if the child developed a protective immune response to vaccination or needs additional management;

   d. About modes of HBV transmission and the need for testing and vaccination of susceptible household, sexual, and needle-sharing contacts;

   e. That she needs to have a medical evaluation for chronic hepatitis B, including an assessment of whether she is a candidate for antiviral treatment.

FOOTNOTES

1. Be sure the correct test for HBsAg (hepatitis B surface antigen) was/is ordered. The HBsAg test should not be confused with other hepatitis B serologic tests, including antibody to HBsAg (anti-HBs or HBsAb) or antibody to hepatitis B core antigen (anti-HBc or HBCAb).

2. Infants weighing less than 2 kg (4.4 lb) at birth and whose mothers are documented to be HBsAg negative should receive the first dose of vaccine 1 month after birth or at hospital discharge, whichever comes first. The mother’s HBsAg test result must be part of the infant’s medical record.

3. Federal law requires that you give parents a Hepatitis B Vaccine Information Statement (VIS) before vaccine administration. To obtain a VIS, download it from the IAC website at www.immunize.org/vis or see page 29.

4. According to the CDC recommendations, exceptions to administering the birth dose of hepatitis B vaccine are allowed on a case-by-case basis and only in rare circumstances. If the hepatitis B vaccine birth dose is not administered, a copy of the mother’s negative HBsAg test result from the current pregnancy must be placed in the newborn’s medical record and the attending physician must write a specific order directing staff not to administer the birth dose in the hospital. Infants who do not receive the first dose of hepatitis B vaccine before hospital discharge should receive the first dose no later than age 2 months.

5. An infant weighing less than 2 kg (4.4 lb) whose mother’s HBsAg status is unknown should receive HBIG and hepatitis B vaccine within 12 hours of birth. Do not count the hepatitis B vaccine dose as the first dose in the vaccine series. Reinitiate the full hepatitis B vaccine series at age 1–2 months.

6. An infant weighing less than 2 kg (4.4 lb) whose mother is HBsAg positive should receive the first dose of hepatitis B vaccine and HBIG within 12 hours of birth. Do not count the hepatitis B vaccine dose as the first dose in the vaccine series. Reinitiate the full hepatitis B vaccine series at age 1–2 months.