PREVENTING TRANSMISSION OF HEPATITIS B IN INFANTS

*Guidelines for Pediatric Providers*

**Maternal HBsAg results**

- **POSITIVE/UNKNOWN**
  - **Vaccine schedule:**
    - Provide 1st dose of hepatitis B vaccine and immune globulin (HBIG) to infant within 12 hours of birth
    - Provide 2nd dose of hepatitis B vaccine to infant at 1-2 months of age
    - Provide 3rd dose of hepatitis B vaccine to infant at 6 months of age
  - **Post-Vaccination Serology Testing for Infants:**
    - Screen infant for HBsAg (hepatitis B surface antigen) and anti-HBs (hepatitis B surface antibody) at 9-12 months of age or 1-2 months after the 3rd dose of hepatitis B vaccine was administered
  - **HBsAg Negative**
    - Infant is considered to have immunity to hepatitis B infection. Intervention was successful.
  - **HBsAg Positive**
    - Infant does NOT have immunity to hepatitis B virus. Revaccinate with the 3-dose series of hepatitis B vaccine. Test for anti-HBs 1-2 months after revaccination.
    - **Anti-HBs Positive**
      - Infant has immunity.
    - **Anti-HBs Negative**
      - Infants are non-responders to the vaccine. Discuss with parents that infant may be susceptible to hepatitis B infection.
  - **Negative**
    - Infants are infected with hepatitis B virus. Rescreen in 6 months. Refer to pediatric specialist for medical monitoring.

**Vaccine schedule:**

- Provide 1st dose of hepatitis B vaccine to infant before discharge from birthing facility
- Provide 2nd dose of hepatitis B vaccine to infant between 1-4 months of age
- Provide 3rd dose of hepatitis B vaccine to infant between 6-18 months of age

**Notes:**

If infant weighs less than 4.4 lbs or 2,000 grams at birth:
1. Administer another dose of hepatitis B vaccine one month after birth dose. These infants require 4 doses to complete the series.
2. Administer first dose of hepatitis B vaccine before discharge OR one month after birth.