PERINATAL HEPATITIS B



A Guide for Prenatal Care and Pediatric Providers

The Philadelphia Department of Public Health's <u>Perinatal Hepatitis B Prevention Program</u> (PHBPP) follows all Hepatitis B (Hep B)-positive pregnant women from delivery through the first year of life of their child. The program helps ensure that infants receives post-exposure prophylaxis (PEP) and both women and their children receive adequate follow up testing.

OVERVIEW

40%

of infants born to Hep B (+) women become infected if PEP is not administered.

<1%

is the rate of vertical transmission in the United States with PEP being administered.

PHILLY FACTS

175

women are Hep B (+) and pregnant each year in Philadelphia.

~11%

of infants in Philadelphia are born to women from countries where Hep B is endemic.

ALL PREGNANT WOMEN SHOULD BE TESTED:

All pregnant women should be screened for Hep B surface antigen (HBsAg) during each pregnancy. Testing should be repeated if there is a new or ongoing risk of exposure to Hep B before delivery. Examples of risks include drug use, risky sexual behaviors & unlicensed tattoos.

PRENATAL CARE PROVIDERS

If woman is HBsAg (+)

- Test for Hep B DNA and Hep B envelope antigen (HBeAg).
- Inform the birthing hospital and pediatrician.
- Report all pregnancies of Hep B (+) women to the PHBPP.

HBeAg (+) or Hep B DNA >200,000 IU/mL

- The risk of vertical transmission is increased!
- Hep B treatment may be indicated during the third trimester of pregnancy.
- Immediately refer the woman to a Hep B specialist for evaluation.

HBeAg (-) or Hep B DNA <200,000 IU/mL

- The risk of vertical transmission is decreased.
- Refer all HBsAg (+) women to Hep B specialist.

PEDIATRIC PROVIDERS for children of Hep B(+)women

Administer HBIG

- Administer <u>Hep B Immunoglobulin</u> (HBIG) within 12 hours of birth for best protection.
- If not given at birth, give HBIG within 7 days.

Administer Hep B Vaccine Birth Dose

• Administer birth dose within 12 hours of birth.

Complete Hep B Vaccine Series

- Combo antigen vaccine doses at 2, 4, & 6 mths
 OR For single antigen vaccine
- Born > 2,000 g, 2 doses at 1-2 & 6 mths
- Born < 2,000 g, 3 doses at 1, 2-3, & 6 mths

Conduct Post-Vaccination Testing

- At 9-12 months test for HBsAg to identify infection & for Hep B surface antibody (HBsAb) to confirm Hep B immunity.
- If HBsAg (+) refer to pediatric specialist.
- If HBsAb (-) give dose of Hep B vaccine & retest 30-45 days after.

INFANT HEP B TESTING GUIDE

Hep B Positive → Report to PHBPP

Not Immune → Revaccinate

Immune → No Action Needed

HBsAg (+) & HBsAb (-)

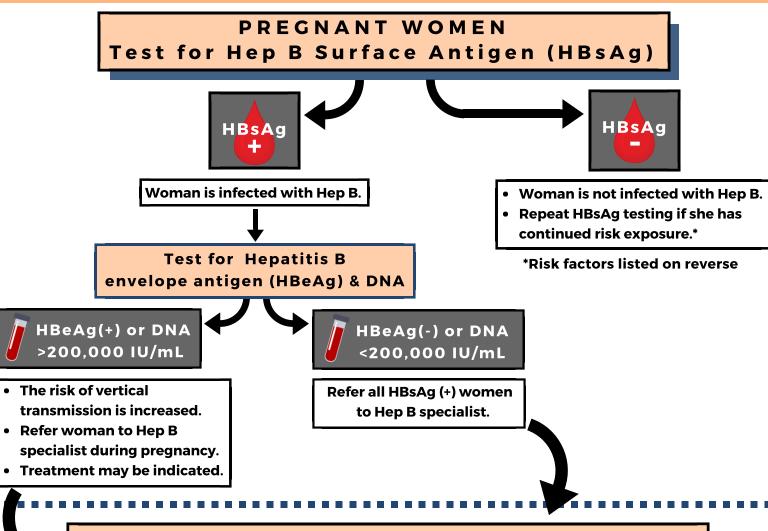
HBsAg (-) & HBsAb (-)

HBsAg (-) & HBsAb (+)

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CHILDREN OF HEP B-POSITIVE WOMEN Give Post Exposure Prophylaxis, Vaccinate with Hep B Series, & Test

| PEDIATRIC HEP B VACCINATION & TESTING RECOMMENDATIONS | |
|--|--|
| AGE OF CHILD | ACTION |
| At Birth within 12 hrs | Administer HBIG <u>and</u> birth dose of vaccine |
| 2, 4, & 6 mths | Vaccinate with Hep B-containing combo doses |
| If born > 2,000 g, 1-2 & 6 mths If born < 2,000 g, 1, 2-3, & 6 mths | Vaccinate with single antigen dose |
| 9-12 mths | Test for HBsAg <u>and</u> Hep B surface antibody |