

# Iowa Perinatal Hepatitis B Prevention Program

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# What is Perinatal Hepatitis B?

- ▶ Hepatitis B Virus (HBV) is a liver infection that can be transmitted from a HBV positive mother to her infant at birth. Approximately 90% of infected infants become chronically infected. (CDC)
- ▶ Without post exposure immunoprophylaxis, an estimated 40% of infants will develop chronic HBV infection. Of these infants, 25% will eventually die from chronic liver disease. (CDC)
- ▶ Vertical transmission continues from generation to generation unless there is intervention.

# Goal of the Program

**Prevention** of perinatal transmission of hepatitis B virus through timely vaccination and case management.

Post-exposure prophylaxis (HepB vaccine + HBIG at birth, completion of HepB vaccine series, post-vaccination testing for outcomes) of infants born to infected mothers is 85-95% effective when started within 12 hours of birth.  
(Immunization Action Coalition)

# How Does a Case Start?

- ▶ **Hepatitis B is a reportable disease in Iowa**
  - ▶ Health care provider/lab required to report to IDPH.
  - ▶ Local public health agency (LPHA) receives email alert via Iowa Disease Surveillance System (IDSS) of a case. LPHA completes follow-up investigation on case including determination of pregnancy status.
  - ▶ LPHA notifies IDPH Perinatal Hepatitis B Coordinator of pregnant cases.

# LPHA Role Pre-Delivery

- ▶ **When completing case investigation:**
  - ▶ Provide education on HBV, including infant vaccination recommendations and post-vaccination serology.
  - ▶ Contact hospital/OB provider to ensure arrangements for HepB vaccine and HBIG are in place at delivery.
  - ▶ Plan to follow-up with mother/OB provider near estimated date of delivery.

# LPHA Role Post-Delivery

- ▶ Follow-up with case (mother) around estimated date of delivery. Create new case in IDSS for the infant (hepatitis B perinatal) if one does not already exist. Alert IDPH Perinatal Hepatitis B Coordinator of birth.
- ▶ Alternatively, IDPH Perinatal Hepatitis B Coordinator may receive notification of birth via vital records and will create case for infant in IDSS. LPHA will be notified to begin follow-up on infant's case.

# LPHA Role Post-Delivery cont.

- ▶ Contact birth hospital for stats of baby including date and time of birth, birthweight, HBIG and HepB vaccine administration dates and times. (Important to know exact time vaccines administered-CDC recommendation is within 12 hours of birth)
- ▶ Complete as much information in IDSS as possible. (May also document on 'Hepatitis B Carrier Follow Up' form available on IDPH Immunization website.)
- ▶ Ensure on-going communication with baby's health care provider and mother to assure completion of HepB vaccine series and post-vaccination serology testing (PVST).
- ▶ Routinely update vaccination dates, PVST results, and any other pertinent information in IDSS. Case will remain open until PVST completed.
- ▶ Contact IDPH Perinatal Hepatitis B Coordinator with questions.<sup>7</sup>

# Resources

**We are here to support you!**

▶ **State Coordinator:**

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# Resources cont.

- ▶ IDPH Perinatal Hepatitis B Immunization Program:

<https://idph.iowa.gov/immtb/immunization/perinatal-hepb>

- ▶ IDPH Perinatal Hepatitis B Program Coordinator's Guide  
(provides detailed guidance for case management)
  - ▶ IDPH LPHA Perinatal Hep B Case Management Flow Chart
  - ▶ IDPH Hepatitis B Brochure
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- ▶ IDPH Epi Manual: <https://idph.iowa.gov/CADE>

Thank you!