

Pediatric Hepatitis B Vaccination Schedule and PVS Guidance

Pediatric Hepatitis B Vaccination Schedule and Product Options

Following the birth dose of hepatitis B vaccine and HBIG, the infant needs either two doses of monovalent hepatitis B vaccine or three doses of a hepatitis B-containing combination vaccine to complete the hepatitis B vaccine series. In particular, please note:

- Combination vaccines (Comvax or Pediarix) should not be administered before 6 weeks of age.
- The final dose of hepatitis B vaccine (either the third or fourth dose) should be given on or after 6 months of age. Do not give it before 24 weeks of age.

OPTION 1: Monovalent hepatitis B vaccine schedule (Energix or Recombivax)	
Dose	Timing
Dose 1 (given with HBIG)	Within 12 hours after birth
Dose 2	1-2 months of age
Dose 3	6 months of age
Post-vaccination serology (HBsAg and anti-HBs)	1-2 months after last dose, but not before child is 9 months of age
OPTION 2: Pediarix vaccine schedule	
Dose	Timing
Dose of monovalent hep B vaccine (given with HBIG)	Within 12 hours after birth
Dose 2	6 weeks to 2 months of age (do not administer before 6 weeks of age)
Dose 3	4 months of age
Dose 4	6 months of age
Post-vaccination serology (HBsAg and anti-HBs)	1-2 months after last dose, but not before child is 9 months of age
OPTION 3: Comvax vaccine schedule	
Dose	Timing
Dose of monovalent hep B vaccine (given with HBIG)	Within 12 hours after birth
Dose 2	6 weeks to 2 months of age (do not administer before 6 weeks of age)
Dose 3	4 months of age
Dose 4	12-15 months of age
Post-vaccination serology (HBsAg and anti-HBs)	1-2 months after last dose.

Note: With Comvax, the post-vaccination serology is delayed because the final hep B dose is not given until 12 months of age. This means infants must be followed longer to complete the vaccination series and have the post-vaccination serologic testing. To avoid this, you can give monovalent hep B vaccine at 6 months instead of 12 months so the serology can be done at 9-18 months, and give monovalent PedvaxHib at 12 months to complete the Hib series.

Post-vaccination Serology (PVS) Results and Recommended Follow-up

Serology result	Follow-up needed
HBsAg negative Anti-HBs positive	None. Infant is protected.
HBsAg negative Anti-HBs negative	No response. Infant is susceptible to infection. Repeat hep B monovalent vaccine series using an accelerated schedule of 0, 1, and 4 months. Recheck serology 1-2 months after third dose.
HBsAg positive Anti-HB negative	Infant is infected with hepatitis B; consult with liver specialist for follow-up and ongoing care.

For more information see the MDH perinatal hepatitis B website at <http://www.health.state.mn.us/divs/idepc/diseases/hepb/perinatal/index.html>.