

Recommended Dosages of Hepatitis B (HepB) Vaccine & Hepatitis B Immune Globulin (HBIG) Including Hepatitis B Combination Vaccines

Hepatitis B (hepB) vaccines & Recipients	Single Antigen Vaccines				PreHevbrio™ (VBI)	Combination Vaccines			
	Engerix-B® (GSK)		Recombivax HB® (Merck)			Heplisav-B® (Dynavax)	Pediarix® (GSK)	Vaxelis™ (MSP)	Twinrix® (GSK)
	Pediatric/Adolescent Formulation	Adult Formulation	Pediatric/Adolescent Formulation	Adult Formulation	Adults – (18 yrs & older) – 2 dose series	Adults - (18 yrs & older)	DTaP-HepB-IPV (6wks – 7yrs)	DTaP-IPV-HIB-HepB (6wks - 4yrs)	HepA-HepB (18 yrs & older)
Infants born to hepatitis B surface antigen (HBsAg) positive persons*	10mcg (0.5mL) ¹ & (0.5mL) ² HBIG within 12 hours of birth		5mcg (0.5mL) ¹ & (0.5mL) ² HBIG within 12 hours of birth						
Infants born to persons whose HBsAg status is unknown*	10mcg (0.5mL) ¹ within 12 hours of birth; (0.5mL) ² HBIG within 7 days if childbearing person's status remains unknown or sooner if HBsAg-positive		5mcg (0.5mL) ¹ within 12 hours of birth; (0.5mL) ² HBIG within 7 days if childbearing person's status remains unknown or sooner if HBsAg -positive						
Infants born to HBsAg negative persons*	10mcg (0.5mL) ¹ within 24 hours of birth		5mcg (0.5mL) ¹ within 24 hours of birth						
Infants 6wks & older	10mcg (0.5mL)		5mcg(0.5mL)				10mcg (0.5mL) ⁸	10mcg (0.5mL) ⁹	
Birth-19 years	10mcg (0.5mL)		5mcg(0.5mL)						
11-15 years				10mcg (1mL) ⁴					
18 years & older					20mcg (0.5mL) ⁶	10mcg (1mL) ⁷			20mcg (1mL) ¹⁰
20 + years		20mcg (1mL)		10mcg (1mL)	20mcg (0.5mL) ⁶	10mcg (1mL) ⁷			20mcg (1mL) ¹⁰
Hemodialysis & other immuno-compromised persons	< 20 yrs	10mcg (0.5mL)	5mcg (0.5mL)						
	≥ 20 yrs		40mcg (2mL) ³	40mcg (1mL) ⁵					

Michigan Department of Health & Human Services (MDHHS) / Perinatal Hepatitis B Prevention Program (PHBPP)

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¹**HepB vaccine** is recommended **within 12 hours** if pregnant person is HBsAg-positive **or for babies who are safely surrendered and pregnant person's HBsAg status is unknown; within 24 hours** of birth for medically stable babies born to HBsAg-negative persons. **HepB birth dose MUST be a single antigen.** *Newborns weighing less than 2000 grams see [Hepatitis B Vaccine and Hepatitis B Immune Globulin Administration for Infants](#).

²**HBIG** (hepatitis B immune globulin) All infants born to HBsAg-positive persons or to safely surrendered babies if pregnant person's HBsAg is unknown, should receive (0.5mL) HBIG **within 12 hours of birth.** All susceptible contacts of an HBsAg-positive person should receive a (0.06 mL/kg) dose of HBIG, within 7 days of a blood exposure, or within 14 days of a sexual exposure, along with the hepB vaccine series.

³**Engerix-B®** dialysis formulation is approved for adult hemodialysis and immunocompromised persons 20 years and older by using (2 x 20mcg/1mL) at one site in one or two injections at 0, 1, 2 and 6 months.

⁴**Adolescent 2-dose series** - Merck's 2-dose adult Recombivax HB® (10mcg, 1 ml) used only for adolescents 11-15 years of age administered at 0 and 4-6 months. Documentation must indicate adolescent received 2 adult (10mcg, 1ml) doses of the Merck brand. If child starts hepB series prior to age 11, between the ages of 11 and 15 with another brand of hepB vaccine, or completes series after age 15, a 3-dose series should be administered.

⁵**Recombivax HB®** dialysis formulation is approved for adult hemodialysis and immunocompromised persons 20 years and older in a 3-dose series (40mcg/1mL) at 0, 1, and 6 months.

⁶**Heplisav-B – Dynavax's 2-dose series** for persons 18 years of age and older at 0 & 1 months; can be used as a substitute in a 3-dose series with another brand of hepB vaccine.

⁷**PreHevbrio™** - VBI's 3-dose series for persons 18 years of age and older at 0, 1 & 6 months.

⁸**Pediarix®** (DTaP, hepB and IPV) - GlaxoSmithKline (GSK)'s combination vaccine used as an alternative to single antigens for administration at 2, 4 and 6 months of age. This combination vaccine is **NOT to be given at birth.** It may be given to any child between ages 6 weeks to 7 years of age for whom no antigen is contraindicated, and only as a primary series. (Primary series is considered first three doses of DTaP and IPV vaccines). A 4-dose hepB series is approved with a single antigen dose of hepB vaccine at birth, followed by 3 additional doses of this combination hepB vaccine.

⁹**Vaxelis™** (DTaP, IPV, HIB, HepB) – Merck and Sanofi Pasteur (MSP) combination vaccine at 2, 4 and 6 months of age. **NOT to be given at birth.** It may be given to any child between 6 weeks to 4 years of age whom no antigen is contraindicated, and only as a primary series. (Primary series of DT (not pertussis), HIB, and IPV). A 4-dose hepB series is approved with a single antigen dose of hepB vaccine at birth, followed by 3 additional doses of this hepB vaccine.

¹⁰**Twinrix® (hepatitis A and hepatitis B)** – GSK's combination vaccine used as an alternative to single antigens for persons 18 years of age and older at 0, 1 & 6 months when neither antigen is contraindicated.