



Ambulatory Care Practitioners

Hepatitis B Vaccination for Adults

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	Vaccine Name	Patient Population & Approved Dose Volume	Number of Doses and Timing	Route of Administration
Single-antigen Hepatitis B Vaccines	Engerix-B® [Hepatitis B Vaccine (Recombinant)]	Adults 20 years and older: 1 mL	3 doses at 0, 1, and 6 months	Intramuscular
		Adults on hemodialysis or with immunocompromising conditions: 2 mL	4 doses at 0, 1, 2 and 6 months	Intramuscular
	Recombivax HB® [Hepatitis B Vaccine (Recombinant)]	Adults 20 years and older: 1 mL	Product: Recombivax HB® Adult Formulation 3 doses at 0, 1, and 6 months	Intramuscular
		Adults on pre-dialysis or dialysis or with immunocompromising conditions: 1 mL	Product: Recombivax HB® Dialysis Formulation 3 doses at 0, 1, and 6 months	Intramuscular
	Heplisav-B® [Hepatitis B Vaccine (Recombinant), Adjuvanted]	Adults 18 years and older: 0.5 mL	2 doses at 0 and 1 month	Intramuscular
Combination Hepatitis A & Hepatitis B Vaccine	Twinrix® [Combined Hepatitis A (Inactivated) and Hepatitis B Vaccine (Recombinant)]	Adults 19 years and older: 1 mL	Standard Timing: 3 doses at 0, 1, and 6 months	Intramuscular
			Accelerated Timing due to anticipated travel: 4 doses at 0 days, 7 days, 21 days, and 12 months	

- Notes:**

- It is generally recommended that the vaccine series be completed by the same manufacturer for all doses.
- For a 3-dose series of Engerix-B® or Recombivax HB®, the minimum dosing intervals are 4 weeks between dose 1 and dose 2, 8 weeks between dose 2 and dose 3, and 16 weeks between dose 1 and dose 3.
- For a 3-dose series of Twinrix®, the minimum dosing interval is 4 weeks between dose 1 and dose 2 and then

5 months between dose 2 and dose 3.

- PreHevbrio™ is a three-antigen Hepatitis B vaccine that was approved for adults 18 years and older in a 3-dose series. However, PreHevbrio™ was withdrawn from the U.S. market in late 2024 due to the manufacturer's bankruptcy. All doses of PreHevbrio™ that were previously administered are considered valid. If a patient is mid-series after receiving a PreHevbrio™ vaccine, they can complete the Hepatitis B vaccine with any other age-appropriate product.
 - If completing the series with Engerix-B® or Recombivax HB®, follow the dosing intervals for a 3-dose Hepatitis B vaccine series.
 - If completing the series with two doses of Heplisav-B® after a single dose of PreHevbrio™, the minimum interval between the two Heplisav-B doses is 4 weeks.
- CDC Hepatitis B Vaccine Recommendations:
 - All adults 19-59 years, including pregnant persons*, should receive the Hepatitis B vaccine series.
 - Adults ≥ 60 years, with known risk factors^ for Hepatitis B, should receive the Hepatitis B vaccine series.
 - Any adult ≥ 60 years who requests Hepatitis B vaccination should receive the Hepatitis B vaccine series.
 - Adults ≥ 60 years, without known risk factors^ for Hepatitis B, may receive the Hepatitis B vaccine series, based on shared clinical decision making.
- *Hepatitis B Vaccination in Pregnancy
 - On 9/11/2024, the FDA updated product labeling for Heplisav-B® to include a new indication for use in pregnant persons.
 - When a Hepatitis B vaccination is needed during pregnancy, providers can now use either Engerix-B®, Recombivax HB®, Heplisav-B®, or Twinrix® (if both Hepatitis A and Hepatitis B vaccination are needed).
- ^Risk factors for Hepatitis B virus infection:
 - Chronic liver disease
 - Persons with hepatitis C
 - Cirrhosis
 - Fatty liver disease
 - Alcoholic liver disease
 - Autoimmune hepatitis
 - ALT or AST > 2 x ULN
 - HIV infection
 - Sexual exposure risk
 - Sex partners of Hepatitis B surface antigen (HBsAg)–positive persons
 - Sexually active persons not in mutually monogamous relationships
 - Persons seeking evaluation or treatment for a sexually transmitted infection
 - Men who have sex with men
 - Current or recent injection drug use
 - Percutaneous or mucosal risk for exposure to blood
 - Household contacts of HBsAg–positive persons
 - Residents and staff of facilities for developmentally disabled persons
 - Health care and public safety personnel with reasonably anticipated risk for exposure to blood or blood–contaminated body fluids
 - Persons on maintenance dialysis (including in–center or home hemodialysis and peritoneal dialysis)
 - Persons who are pre-dialysis
 - Patients with diabetes
 - Incarceration
 - Travel in countries with high or intermediate endemic Hepatitis B

- Contraindications and Precautions:
 - Patients should not receive Hepatitis B vaccines if they have a history of severe allergic reaction to a previous dose or to a vaccine component, including yeast.
 - The vial stopper, syringe plunger stopper, and tip cap of Recombivax HB® products do contain dry natural latex rubber, which may cause allergic reactions in patients who are sensitive to latex.
 - The Twinrix® combination Hepatitis A and Hepatitis B vaccine should not be administered to those with a history of severe allergic reaction to a previous dose or to a vaccine component, including neomycin and yeast.
 - Use caution when administering the vaccine to patients with moderate or severe acute illness with or without fever.

- Common Adverse Reactions:
 - Injection site pain
 - Soreness
 - Fatigue/weakness
 - Headache

- Helpful Resource for Clinical Questions:
 - https://www.immunize.org/askexperts/experts_hepb.asp#adult

- References:
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 7. Sandul AL, Rapposelli K, Nyendak M, Kim M. Updated Recommendation for Universal Hepatitis B Vaccination in Adults Aged 19–59 Years — United States, 2024. MMWR Morb Mortal Wkly Rep 2024;73:1106. DOI: <http://dx.doi.org/10.15585/mmwr.mm7348a3>.
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