



CERTIFICATE OF COMPLETION

THE UNIVERSITY OF WASHINGTON AND HEPATITIS B ONLINE CERTIFY THAT

Rebil Jemal, MD

HAS COMPLETED THE FOLLOWING LESSONS IN THE

HEPATITIS B ONLINE 1ST EDITION

Epidemiology, Immunization, Initial Treatment, Perinatal Transmission, and Screening for HCC

A handwritten signature in black ink, reading "David H. Spach, MD".

David H. Spach, MD
Editor-in-Chief, Hepatitis B Online
Professor of Medicine, University of Washington

This certificate shows the progress of **Rebil Jemal, MD**, a physician, identified by **rebilhjs@gmail.com** as of May 2, 2025, 8:47 pm.

You may validate this certificate or obtain a digital copy by visiting <https://www.hepatitisB.uw.edu/certificate/self-study/rebilhjs@gmail.com/1>

The following Lessons were completed along with their quizzes with a quiz score of 80% or higher:

Lessons	Learning Objectives
HBV Epidemiology (Epidemiology) Completed November 25, 2022	<ul style="list-style-type: none"> • Differentiate between hepatitis B virus (HBV) incidence rate and HBV prevalence rate • Summarize regional global trends in HBV prevalence, as defined by the World Health Organization • List the most common risk factors and populations at risk for HBV acquisition • Cite clinical and laboratory criteria for HBV case definitions • Discuss the impact of HBV disease globally and in the United States
HBV Immunizations (Immunization) Completed November 25, 2022	<ul style="list-style-type: none"> • Discuss hepatitis B virus (HBV) vaccination as a core intervention to prevent and eliminate HBV infection • Identify populations that should receive HBV vaccination • Explain rationale for HBV pre- and postvaccination serologic testing • Describe dosing, scheduling, and administration of single-antigen or combination vaccines in children and adults • Summarize strategies to manage HBV vaccine nonresponders
Choosing an Initial HBV Treatment Regimen (Initial Treatment) Completed November 27, 2022	<ul style="list-style-type: none"> • Provide rationale for choosing an oral antiviral or interferon-based therapy to treat chronic HBV infection • Name the three preferred oral antivirals for initial treatment of chronic HBV infection • Discuss potential adverse effects with medications used to treat chronic HBV infection • List situations when interferon-based therapy is contraindicated for treatment of chronic HBV • Recognize special circumstances that warrant modification of standard treatment options for chronic HBV infection
Preventing HBV Perinatal Transmission (Perinatal Transmission) Completed November 27, 2022	<ul style="list-style-type: none"> • Provide rationale for universal screening for HBV infection during pregnancy • Summarize risks for HBV perinatal transmission, including HBV status of mother, route and timing, vertical and horizontal transmission, and breastfeeding • Contrast treatment options for women with chronic versus acute HBV infection in pregnancy • Discuss preferred HBV antiviral therapy options and respective safety issues in pregnant women • Cite recommendations for neonatal immunoprophylaxis to prevent perinatal transmission of HBV
Screening for Hepatocellular Carcinoma (Screening for HCC) Completed November 27, 2022	<ul style="list-style-type: none"> • Examine epidemiological trends in hepatocellular carcinoma in the United States and globally • List the most common risk factors for acquisition of hepatocellular carcinoma • Summarize the rationale for hepatocellular screening and its importance especially in the presence of chronic hepatitis B • Compare and contrast hepatocellular carcinoma surveillance testing methods • Discuss guidelines for hepatocellular carcinoma screening in the United States