



CERTIFICATE OF COMPLETION

THE UNIVERSITY OF WASHINGTON AND NATIONAL HIV CURRICULUM CERTIFY THAT

Dr. Maqsood A. Bangash, PharmD

HAS COMPLETED THE FOLLOWING LESSONS IN THE

SCREENING AND DIAGNOSIS 3RD EDITION MODULE

Epidemiology of HIV, HIV Screening Recommendations, HIV Diagnostic Testing, Acute and Recent HIV Infection, and Linkage to HIV Care

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

David H. Spach, MD
Editor-in-Chief, National HIV Curriculum
Professor of Medicine, University of Washington

This certificate shows the progress of **Dr. Maqsood A. Bangash, PharmD**, a Pharmacist, identified by **drbangash@outlook.com** as of November 13, 2025, 4:50 pm. You may validate this certificate or obtain a digital copy by visiting <https://www.hiv.uw.edu/certificate/screening-diagnosis/drbangash@outlook.com/3>

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

Lessons	Learning Objectives
Epidemiology of HIV Completed March 31, 2024	• Explain the difference between HIV prevalence and incidence • Describe the contemporary epidemiology of HIV-1 in the United States • Discuss trends and causes of HIV-related deaths in the United States • Summarize the global HIV epidemiology • Identify populations in the United States at risk for HIV-2
HIV Screening Recommendations Completed August 25, 2024	• Discuss the history of HIV testing in the United States • Explain the rationale for routine HIV screening and identify strategies to overcome potential barriers to routine screening • State Centers for Disease Control and Prevention (CDC) HIV screening recommendations • List indications for repeat HIV testing • Summarize recommendations for providing HIV test results
HIV Diagnostic Testing Completed August 25, 2024	• Compare different types of HIV diagnostic tests and when to use these tests • Describe the timing of when HIV diagnostic tests become positive after HIV infection • Explain updated recommended nomenclature for HIV diagnostic tests • Summarize the CDC/APHL recommended HIV testing algorithm • Discuss interpretation of HIV diagnostic tests and delivery of test results to clients
Acute and Recent HIV Infection Completed August 25, 2024	• State the definition of acute and recent HIV • Describe the immunopathogenesis and clinical manifestations of acute HIV • Discuss the laboratory diagnosis of acute HIV infection • List the potential public health benefits of diagnosing and promptly treating a person with acute or recent HIV infection • Summarize the recommended antiretroviral treatment regimens for persons with acute or recent HIV infection
Linkage to HIV Care Completed August 25, 2024	• State the United States Federal benchmarks and goals for successful linkage to care after HIV diagnosis • List the metrics used to estimate and monitor linkages to care • Summarize current estimated HIV linkage to care data in the United States • Describe strategies for optimizing linkage to care for persons newly diagnosed with HIV in the United States • Identify barriers that impede successful linkage to care after HIV diagnosis