

RESEARCH ARTICLE

Evaluation of the Abbott ARCHITECT HIV Ag/Ab combo assay for determining recent HIV-1 infection

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Citation: Curtis KA, Rudolph DL, Pan Y, Delaney K, Anastos K, DeHovitz J, et al. (2021) Evaluation of the Abbott ARCHITECT HIV Ag/Ab combo assay for determining recent HIV-1 infection. *PLoS ONE* 16(7): e0242641. <https://doi.org/10.1371/journal.pone.0242641>

Editor: Javier R. Lama, Asociacion Civil Impacto Salud y Educacion, PERU

Received: November 5, 2020

Accepted: June 2, 2021

Published: July 1, 2021

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Data Availability Statement: All relevant data are within the paper.

Funding: This work was supported through intramural CDC funding.

Competing Interests: The authors have declared that no competing interests exist.

Abstract

Background

Given the challenges and costs associated with implementing HIV-1 incidence assay testing, there is great interest in evaluating the use of commercial HIV diagnostic tests for determining recent HIV infection. A diagnostic test with the capability of providing reliable data for the determination of recent HIV infection without substantial modifications to the test protocol would have a significant impact on HIV surveillance. The Abbott ARCHITECT HIV Ag/Ab Combo Assay is an antigen/antibody immunoassay, which meets the criteria as the first screening test in the recommended HIV laboratory diagnostic algorithm for the United States.

Methods

In this study, we evaluated the performance characteristics of the ARCHITECT HIV Ag/Ab Combo signal-to-cutoff ratio (S/Co) for determining recent infection, including estimation of the mean duration of recent infection (MDRI) and false recent rate (FRR), and selection of recency cutoffs.

Results

The MDRI estimates for the S/Co recency cutoff of 400 is within the 4 to 12 months range recommended for HIV incidence assays, and the FRR rate for this cutoff was 1.5%.

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