

## 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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