

RESEARCH ARTICLE

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

Kelly A. Curtis^{1*}, Donna L. Rudolph¹, Yi Pan¹, Kevin Delaney¹, Kathryn Anastos², Jack DeHovitz³, Seble G. Kassaye⁴, Carl V. Hanson⁵, Audrey L. French⁶, Elizabeth Golub⁷, Adesora A. Adimora⁸, Igbo Ofotokun⁹, Hector Bolivar¹⁰, Mirjam-Colette Kempf¹¹, Phillip J. Peters¹, William M. Switzer¹

1 Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Hepatitis, STD, and TB Prevention, Centers for Disease Control and Prevention, Atlanta, Georgia, United States of America, **2** Albert Einstein College of Medicine and Montefiore Medical Center, Bronx, New York, United States of America, **3** Downstate Medical Center, State University of New York, Brooklyn, New York, United States of America, **4** Department of Medicine / Division of Infectious Diseases, Georgetown University, Washington, DC, United States of America, **5** California State Department of Health, Berkeley, California, United States of America, **6** Department of Medicine, Stroger Hospital of Cook County, Chicago, Illinois, United States of America, **7** Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, United States of America, **8** Division of Infectious Diseases, Department of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, United States of America, **9** Division of Infectious Diseases, Emory University School of Medicine, Atlanta, Georgia, United States of America, **10** Division of Infectious Diseases, Department of Medicine, University of Miami Miller School of Medicine, Miami, Florida, United States of America, **11** School of Nursing, Public Health and Medicine, University of Alabama at Birmingham, Birmingham, Alabama, United States of America

* ccv2@cdc.gov



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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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