Centers for Disease Control and Prevention Model Performance Evaluation Program

Human T-Lymphotropic Virus Types I and II (HTLV-I/II) Testing

Figures Used to Summarize the Participant Laboratory Results for the May 2002 Shipment

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Disease Control and Prevention
Public Health Practice Program Office
Division of Laboratory Systems
Atlanta, Georgia 30341-3717





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Report of the May 2002 Human T-Lymphotropic Virus Types I and II (HTLV-I/II) Performance Evaluation Sample Testing Results Provided by Participant Laboratories in the Model Performance Evaluation Program, Centers for Disease Control and Prevention (CDC).

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SUPPLEMENTAL INFORMATION FOR COMPREHENDING THE NUMBERS USED TO LABEL FIGURES IN THIS REPORT

The "N=" that appears on each graph represents the number of laboratories that reported results. For some graphs, laboratories reported results using more than one test; therefore, the number of results may exceed the actual number of laboratories providing reports. In figures 1-7 and 10, the vertical axis is labeled either as frequency or percentage of results; in figures 8 and 9, this axis is labeled as percentage of reports; and in figure 11, this axis is labeled as frequency of reports. However, in all figures, the number appearing directly above or within each bar represents a frequency of results only.

Centers for Disease Control and Prevention (CDC) Model Performance Evaluation Program Human T-Lymphotropic Virus Types I and II (HTLV-I/II) Testing May 2002 Participant Laboratory Shipment

Table 1

Panel	Vial Label	CDC Donor Number	CDC Contractor Result ²	Laboratory Interpretation ¹	
Letter				INIT. ³ FINAL ⁴	WB IIF
Α	A1, A4	1	Negative		
	A2	3	Positive, HTLV-I		
	A3	2	Negative		
	A5, A6	4	Positive, HTLV-II		
В	B1, B6	4	Positive, HTLV-II		
	B2	3	Positive, HTLV-I		
	В3	2	Negative		
	B4, B5	1	Negative		

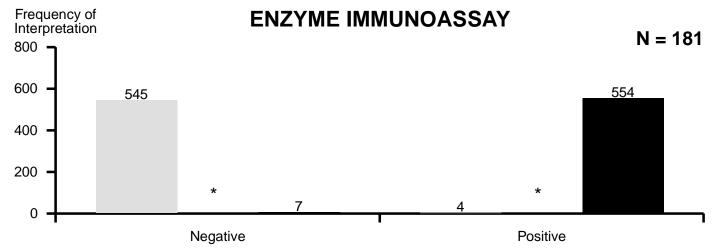
Laboratory Interpretation space (to be completed by participant laboratory) provided to facilitate comparison of participant laboratory result with CDC result.

The CDC result was obtained after composite EIA, WB, and RIPA testing, by CDC contractor, and employing the interpretation criteria of the Public Health Service Working Group.

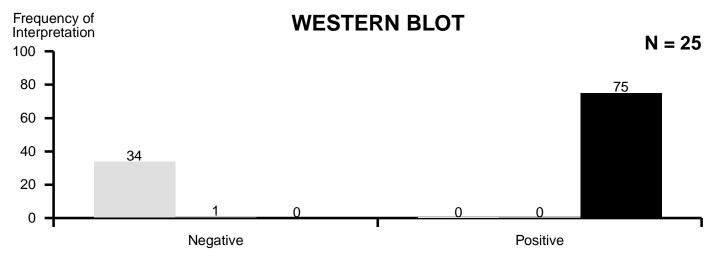
³ Initial EIA interpretation

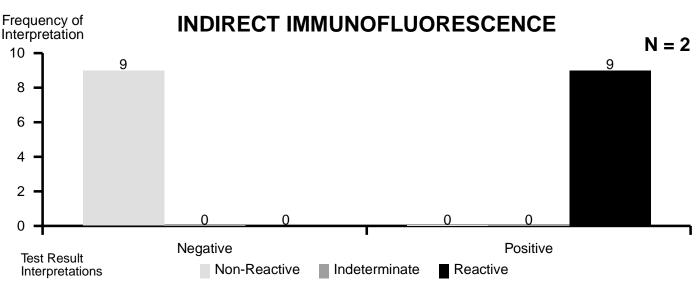
Final EIA interpretation

Figure 1. Frequency of HTLV-I/II antibody test result interpretations, by sample type (reactivity), for enzyme immunoassay (EIA), Western blot (WB), and indirect immunofluorescence (IIF), reported by participant laboratories for the May 2002 shipment

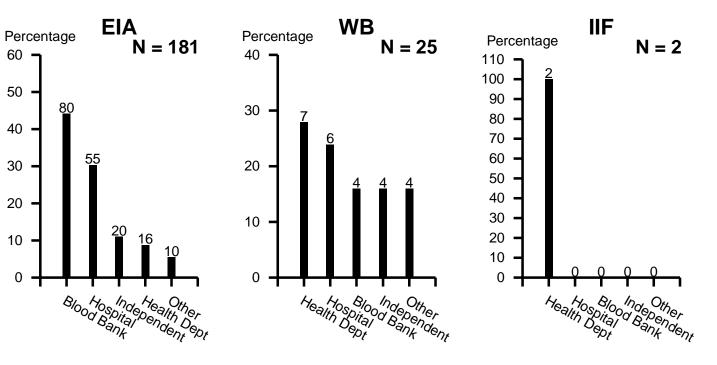


* = Indeterminate is not an EIA interpretation option; these areas have been left blank





Percentage of HTLV-I/II participant laboratories, by laboratory type, that Figure 2. reported EIA, WB, and IIF results to the CDC for the May 2002 shipment



Combination of HTLV-I/II antibody tests reported by participant Figure 3. laboratories for the May 2002 shipment

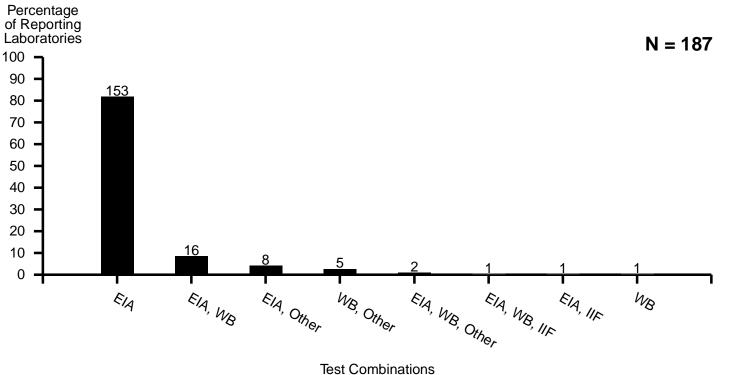
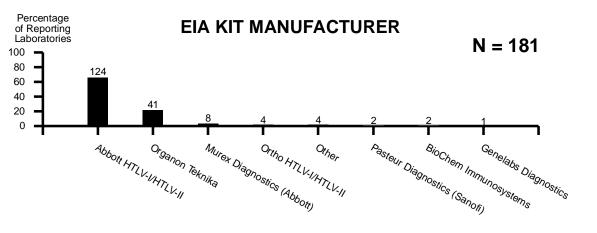
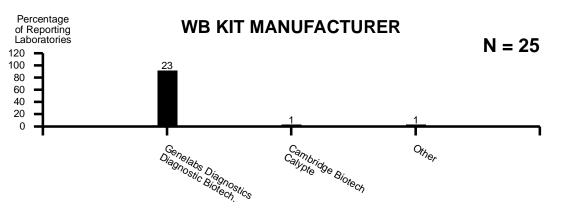


Figure 4. Types of HTLV-I/II antibody test kits used for enzyme immunoassay, Western blot, and indirect immunofluorescence, as reported by participant laboratories to the CDC for the May 2002 shipment





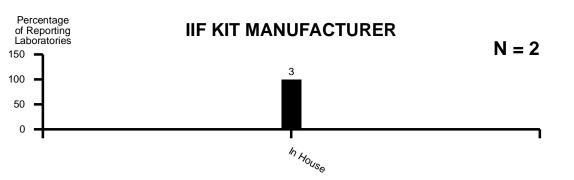
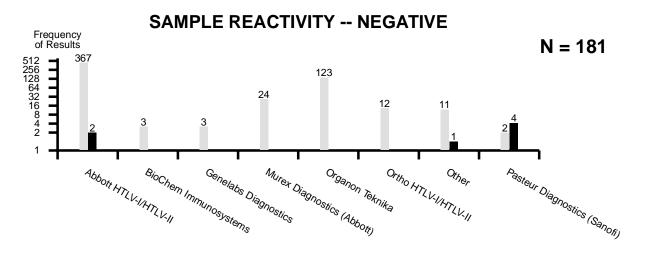


Figure 5. Enzyme immunoassay HTLV-I/II antibody test results, by kit manufacturer, reported by participant laboratories for the May 2002 shipment



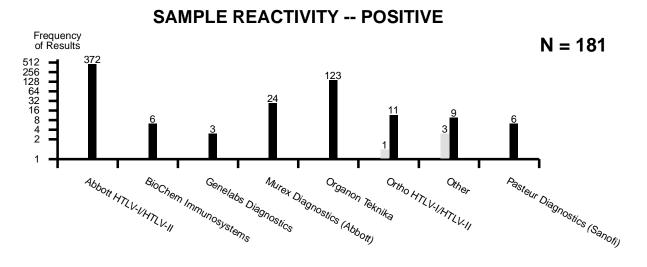
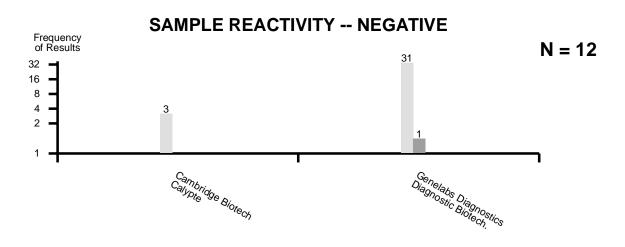


Figure 6. Western blot HTLV-I/II antibody test results, by kit manufacturer, reported by participant laboratories for the May 2002 shipment



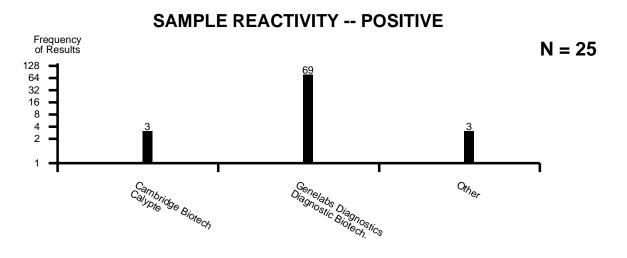
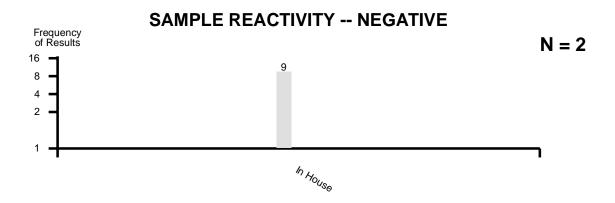


Figure 7. Indirect immunofluorescence HTLV-I/II antibody test results, by kit manufacturer, reported by participant laboratories for the May 2002 shipment



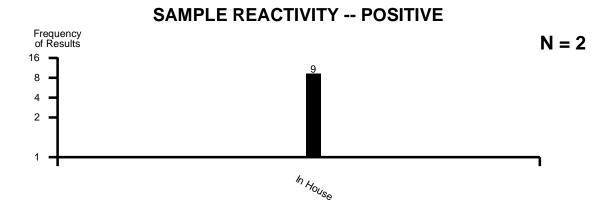


Figure 8. Western blot HTLV-I/II antibody band patterns reported to CDC by participant laboratories for the May 2002 shipment

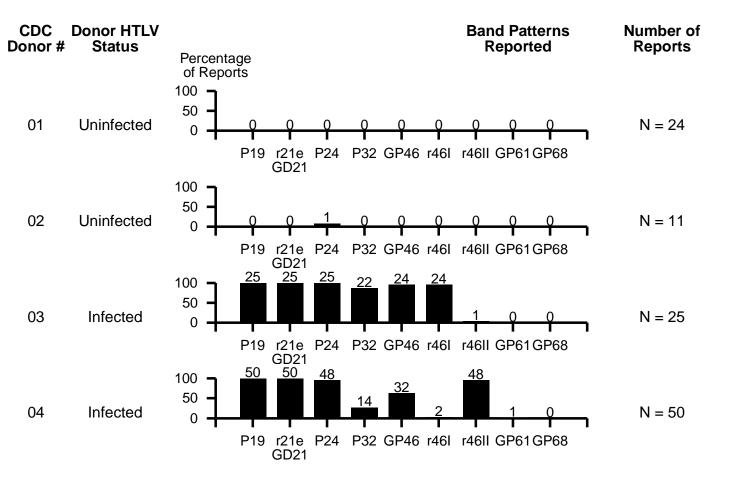


Figure 9. Fluorescence intensity patterns, of HTLV-I/II-infected cells, for IIF results reported to CDC by participant laboratories for the May 2002 shipment

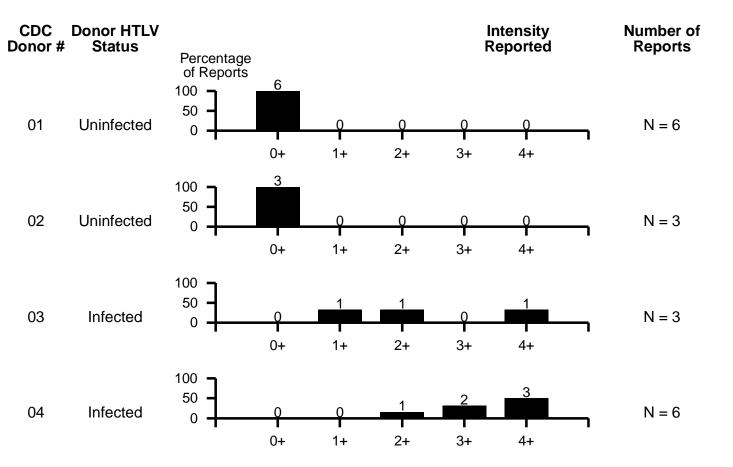
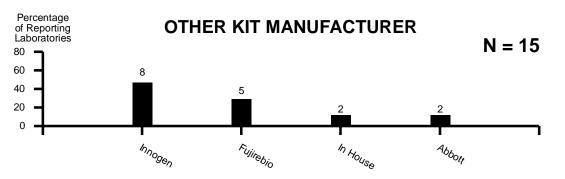
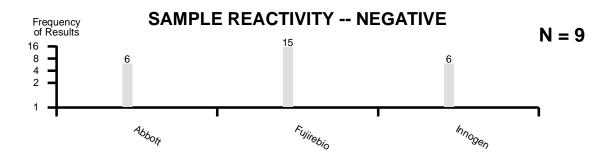


Figure 10. Types of 'Other' HTLV antibody test kits used and results reported by participant laboratories to the CDC for the May 2002 shipment





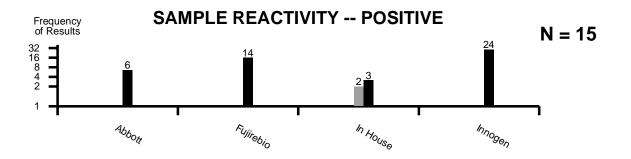


Figure 11. HTLV-I/II antigen lines reported to CDC by participant laboratories using INNO-LIA for the May 2002 shipment

