



Newborn Screening Quality Assurance Program

PROFICIENCY TESTING PROGRAM FOR ANTI-HIV-1 IN DRIED BLOOD SPOTS

Quarterly Report

Quarter 1

February 2012

INTRODUCTION

The Anti-HIV-1 proficiency testing (PT) panel for Quarter 1, 2012, consisted of five individual-matrix dried-blood spot (DBS) specimens representing a variety of serostatuses. HIV antibody screening and confirmatory tests should identify all HIV-positive specimens, regardless of subtype. Method and laboratory performance are evaluated by challenging participants with specimens representing HIV-negative and positive serostatuses.

On January 17, 2012, we sent the Quarter 1 Anti-HIV-1 panel to 27 total participants. We received data reports from 24 participating laboratories by the designated deadline date. This report is the outcome of data reported for the Quarter 1, 2012, Anti-HIV-1 PT specimens. This quarterly report is distributed to all participants and to program colleagues upon request.

Each participant was asked to analyze the specimens for anti-HIV-1 using the assay schemes they routinely use and to report for each specimen the screening results

along with results from any confirmatory assays performed for presumptive positives. A final interpretation for each specimen must be submitted to receive a grade.

PARTICIPANTS' RESULTS

Table 1 shows the overall frequency of reported reactive, non-reactive, and indeterminate screening results for specimens 11241-11245.

In Part 1 of the report, Table 2 shows the number of laboratories using each screening method/kit both for the primary and secondary screens.

Table 3 shows the summary of screening errors by method.

In Part 2 of the report, Table 4 shows the number of laboratories using each confirmatory method/kit.

Table 5 shows the Reported Frequency of Bands by Western Blot for each of the PT specimens that tested positive for the Anti-HIV-1 screening analysis.

The Quality Assurance Program will ship next quarter's HIV-1 DBS proficiency testing specimens on April 9, 2012 and the next major allotment of HIV-1 DBS quality control specimens on July 16, 2012. ❖

CONFERENCES AND MEETINGS

- National STD Prevention Conference, Minneapolis, Minnesota, March 12-15, 2012.

- ACTHIV Conference, Denver, Colorado, May 10-13, 2012.

- Congress on HIV and Emerging Infectious Diseases, Marseille, France, May 23-25, 2012.

SPOTLIGHT

In July 2012, the world's largest AIDS conference comes to Washington, D.C. The 19th International AIDS Conference, also known as AIDS 2012, will be held in the United States for the first time since 1990. ❖



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Quarterly publications for colleagues and participants of the Proficiency Testing Program for Anti-HIV-1 in Dried Blood Spots.

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**Anti-HIV-1 PT Report
Quarter 1, 2012**

TABLE 1: Frequency Distribution: Outcome of Final Interpretations (23 Labs)

Specimen Number	Expected Results	Non- Reactive	Reactive	Indeterminate	Not Reported
11241	Non-Reactive	24	0	0	3
11242	Non-Reactive	24	0	0	3
11243	Non-Reactive	22	2	0	3
11244	Reactive	0	24	0	3
11245	Non-Reactive	23	1	0	3

Part 1. SCREENING

TABLE 2: Number of Screening Methods Reported; Includes Primary and Secondary Methods

Method Code	Kit Source	Participants
10	Fujirebio Serodia-HIV 1,2	2
11	In House	1
12	Other	4
15	rLAV EIA (Bio-Rad)	1
27	Tecnosuma (Cuba) UMELISA HIV 1+2	3
40	Avioq HIV-1 Microeleisa Systems	11
41	Bio-Rad HIV-1/Hiv-2 plus O EIA	1
Total		23*

*Note: Two laboratories did not report EIA data and reported final interpretations based on a Western Blot confirmatory tests.

This **NEWBORN SCREENING QUALITY ASSURANCE PROGRAM** report is an internal publication distributed to program participants and selected program colleagues. The laboratory quality assurance program is a project cosponsored by the **Centers for Disease Control and Prevention (CDC)** and the **Association of Public Health Laboratories**.

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