



**Department  
of Health**

Wadsworth  
Center

2016  
HIV  
DIAGNOSTICS  
CONFERENCE



THE NEW LANDSCAPE OF HIV TESTING IN  
LABORATORIES, PUBLIC HEALTH  
PROGRAMS AND CLINICAL PRACTICE

# The New Landscape of HIV Testing

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# <sup>1</sup> landscape

*noun* | land·scape | \`lan(d)-skāp\

## Simple Definition of LANDSCAPE

Popularity: Top 30% of words

- : a picture that shows a natural scene of land or the countryside
- : an area of land that has a particular quality or appearance
- : a particular area of activity

*Merriam-Webster.com*. Merriam-Webster, n.d. Web. 14 Mar. 2016.



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# What's New in the Landscape?

Since the 2012 conference:

- Updated HIV testing recommendations
  - A new laboratory algorithm for HIV diagnosis
- Several new diagnostic tests approved by FDA
- Revised surveillance case definitions
- New test for estimating HIV incidence in the U.S.
- Clinical practice guidelines for PrEP

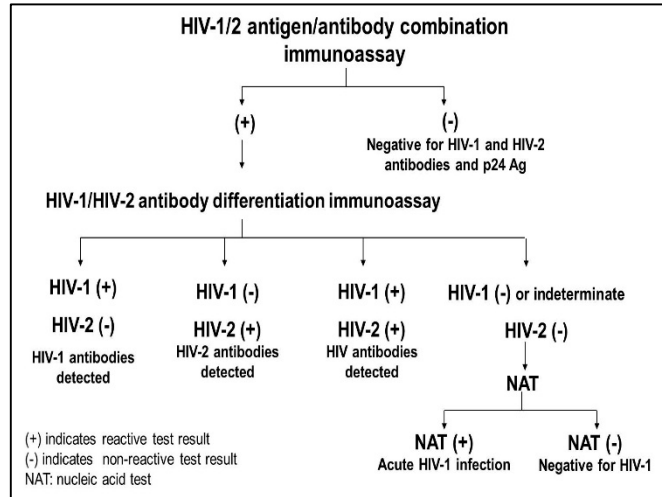
# Communication is Essential



# CDC/APHL Laboratory Algorithm

## Laboratory Testing for the Diagnosis of HIV Infection

Updated Recommendations



New tests, New results  
Next steps??

Suggested Reporting Language for the HIV Laboratory Diagnostic Testing Algorithm



November 2013


**APHL** ASSOCIATION OF  
PUBLIC HEALTH LABORATORIES

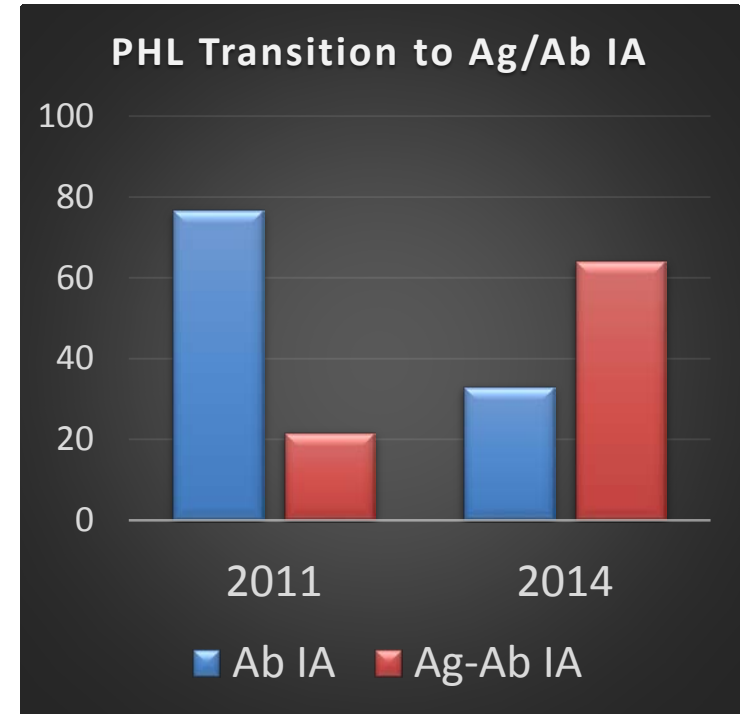


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# Adoption of the Recommended Algorithm

- APHL survey: 55% (41/74) of responding PHLs had implemented as of 2014
- Cost/Funding was PHL's #1 impediment to implementing
  - Ag/Ab IA,
  - Ab Differentiation IA
  - HIV-1 NAT



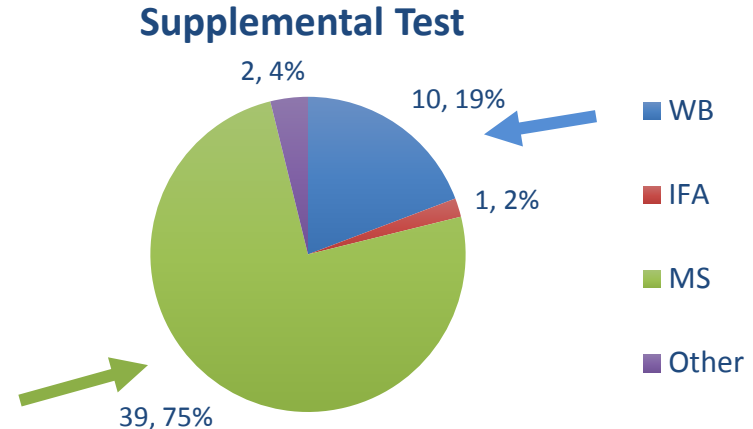
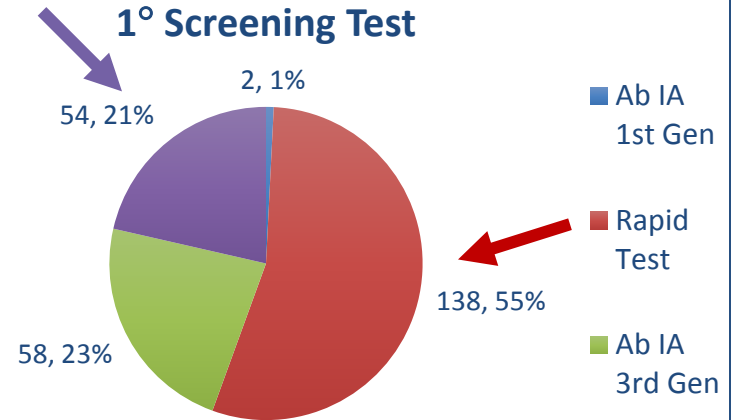
# NYS-licensed clinical laboratories – Sept 2015

Screening Tests: 252 labs reporting

- Only 21% were using a lab-based Ag/Ab Combo IA
- 55% were screening with a rapid test
  - 19% were using the Ag/Ab combo rapid test

Supplemental Tests: 52 labs reporting

- 75% were using a HIV-1/2 Ab Differentiation IA (Multispot)
- 20% were using either Western blot (19%) or IFA (2%)



# Our Charge for the 2016 Conference

- Evaluate data
  - The CDC/APHL laboratory testing algorithm
  - New screening and supplemental tests
  - Beyond the lab: Timeliness, Linkage to care
- Consider new situations, new approaches
- Share successes, address challenges, fill gaps, develop solutions



# ROUNDTABLES

**Tues 8:30-9:30**

Overcoming the Challenges  
and Barriers to  
Implementing the HIV  
Diagnostic Testing Algorithm  
in your Laboratory

**Wed 8:30-9:30**

Improving the Impact of HIV  
testing Through Better  
Linkage to Care and More  
Timely Viral Suppression

**Tues 4:00-5:00**

Challenges and Successes of  
Implementing the HIV  
Diagnostic Testing  
Algorithm: Reports from  
Four HIV Surveillance  
Programs

**Wed 3:15-4:15**

Dried Blood Spots (DBS)  
May Have High Utility Both  
in Resource Limited Settings  
and in Hard to Reach  
Populations for Diagnosis  
and Treatment Decisions

# Tests and Technology

- New technologies allow us to expand and improve testing
- More HIV tests available than ever
  - But needs still exist
- Talk to the manufacturers!
  - Meet the Exhibitors – Tues 5:00-6:30

# Your Feedback is Requested!

- New Technology and its Impact on the CDC/APHL Laboratory Testing Algorithm
  - Immediately following the final oral session
  - Data presented here will be summarized
  - Provide input on the next update to the HIV Diagnostic Testing Algorithm

# HIV Testing: A Landscape in Flux



None has a conflict of interest  
to report.

## HIV 101 Workshop

- Update on HIV Testing Technology
  - *S. Michele Owen, PhD, CDC*
- Why HIV Tests are Regulated as They Are, and Understanding the Package Insert
  - *Pradip Akolkar, PhD, U.S. FDA*
- Evaluating HIV Test Performance
  - *Bernard M. Branson, MD, Scientific Affairs*
- Health Department HIV Testing Programs: Status and Opportunities
  - *Liisa Randall, PhD, Massachusetts DPH*
- Uses of HIV Test Results in Classifying New Diagnoses for Surveillance
  - *Albert Barskey, MPH, CDC*
- Use of Lab Data for Prevention
  - *AD McNaghten, PhD, MHSA, CDC*



# The Team



## Conference Co-chairs

S. Michele Owen, PhD  
Monica M. Parker, PhD

## Scientific Committee Co-chairs

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Kelly Wroblewski, MPH, MT (ASCP)  
Laura Wesolowski, PhD

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