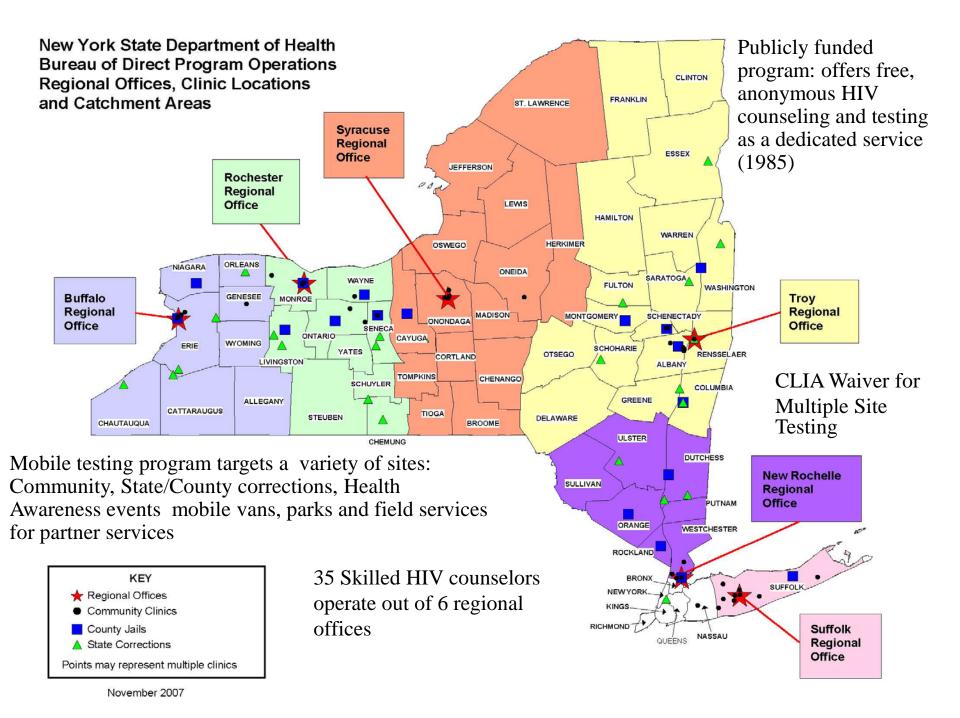
Two-Rapid Test Strategy in Anonymous HIV Counseling and Testing Sites in New York State 2008-2009



April Richardson-Moore, RN, MPH AIDS Institute, Division of HIV Prevention 2010 HIV Diagnostics Conference





ACT Program Description

- Program Mission
 - HIV prevention and access to care
- Guidance provided through NYS Public Health Law
 - Article 27F requires Informed Consent
 - Article V outlines laboratory requirements
 - Article 21 directs HIV Reporting and Partner Notification



ACT Program Policy

Steps taken to get HIV infected clients into care include:

- Change anonymous test results to confidential
- Provide active referrals to medical services
- Conduct follow-up visits (in addition to post test) to ensure referral complete and offer Partner Services
- Offer participation in Variant Atypical Resistance HIV
 Surveillance (VARHS/DFS) Project (ended October 2009)



Milestones in Rapid HIV Testing Implementation: NYS ACT Program

May 2008

Supplemental Rapid Test Strategy

April 2008

Training on Clearview Complete

Oct 2007

RNA testing added to algorithm

April 2007

VARHS/DFS Project initiated

April 2006

Training on Unigold, addition as new test option

Jan 2005

Oral Fluid Rapid testing

July - Dec 2005

Post Marketing Surveillance II Project

Jan 2004

Statewide Implementation of rapid testing and Post Marketing Surveillance Project

Feb 2003

Obtained CLIA permit; Initial training and implementation for OraQuick rapid testing pilot; Rollout through April 2003

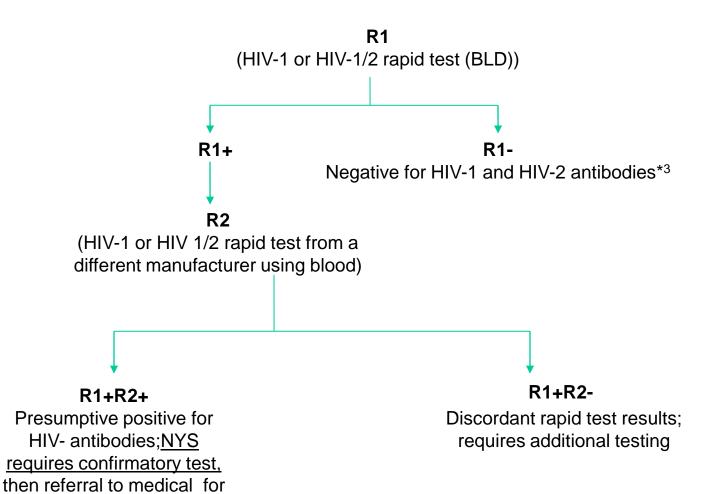


Data: Rationale for New Strategy

- Rapid Reactive results May 2007 to April 2008
 - 113 of 17,973 rapid tests were rapid reactive
 - 15 declined confirmation
 - 82 confirmed positive of 113 RR (7 Acute HIV Infections*)
 - 2 WB Indeterminate (prior to RNA availability)
 - 14 False Positive
 - 75% (63/84) return for test result (includes 2 standard positives)
 - 63.1% (53/84) self or provider reported in care
 - 70.2% (59/84) changed to confidential test result
 - 86.4% (51/59) self or provider reported in care
 - PPV = 85.4.% (82/96) **



Strategy: Two Rapid Tests (R1/R2) Performed in Sequence (R1/R2 are different rapid tests)

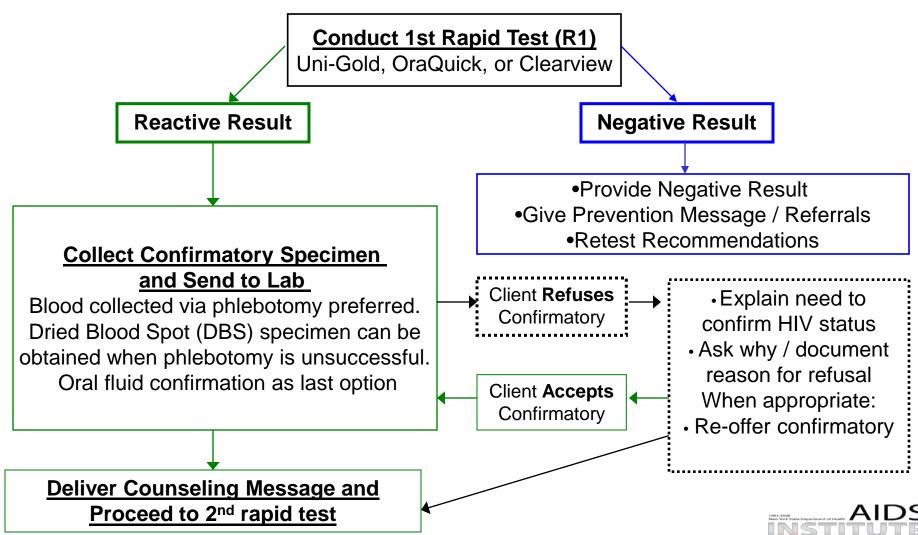


further evaluation and testing

Three Rapid Tests

Uni-Gold	Clearview Complete	OraQuick
#1 Control Test Sample TRINITY BIOTECH	# 2 CLEARVIEW CLEARVIEW HIV	# 3
Policy guidance directs staff	Product insert: reactive test	Oral fluid available for
to use device as R1 due to	maybe observed and read	clients who do not want a
run time, though situation	earlier than 15 minutes	finger stick
and client preference can impact R1 choice	(Line observed in Control and Test area)	PPV issues in past Must use blood if 2 nd test
Run time 10-12 min. Read window 2 min.	Run time 15-20 min. Read window 5 min.	Run time 20-40 min. Read window 20 min.
Run Temps 59 °F -80 °F	<u>Run Temps</u> 59 °F -99 °F	Run Temps 59 °F -99 °F

Supplemental Test Strategy with Counseling Messages



Counseling Message for Initial Rapid Reactive Result

R1: Reactive

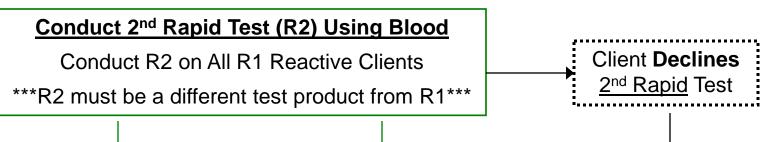
"Your first rapid screening test is reactive."

Your test result is reactive. This is a screening test, and as discussed, further testing is needed before we know for sure whether or not you are infected with HIV.

Though tests are highly accurate, a second rapid test and a confirmatory test are needed. A second rapid test will better indicate your HIV status while you wait for the results of a confirmatory test.



Supplemental Testing Strategy (Continued)



Deliver Counseling Messages			
R1 Reactive R2 Reactive	R1 Reactive R2 Negative	R1 Reactive R2 Refused	
Discuss:	Conduct Risk Assessment	Review Risk Assessment	
- Likelihood of Positive Result	Discuss:	If High Risk Discuss:	
- Low Probability of False	- Possibility of False Reactive	- Likelihood of Positive Result	
Positive with 2 Reactive	Result from R1	- Offer Referrals	
Results	- Possibility of AHI	If Low Risk Discuss:	
- Elicit Partners	- Offer Referrals	- Possibility of R1 False Reactive	
- Offer Medical / Other Referrals		- Offer Referrals	

For all clients:

- Offer change of status option for reactive result
- Stress need to return for confirmatory result
- Collect informal client contact information

- Discuss HIV transmission and prevention messages
- Offer VARHS (if eligible)
- Schedule post-test
- Discuss Partner Services



Counseling Message for Second Test Rapid Reactive Result

R2: Reactive

"Your second rapid screening test is reactive."

"You have had 2 reactive rapid HIV tests indicating you are likely HIV infected. The confirmatory specimen will confirm that you are HIV infected. We need to discuss medical care, how you can prevent transmission and how to notify your partners..."



Counseling Message for Second Test Rapid Non-Reactive Result

R2: Non-Reactive

"Your first screening test was reactive and your second test was negative."

"It is possible that the test may have reacted to some underlying health condition, or it may have been a false reaction with the rapid test. Based on our discussion you may not be infected with HIV. *

It is necessary to get the results of the confirmatory test to know your HIV status "

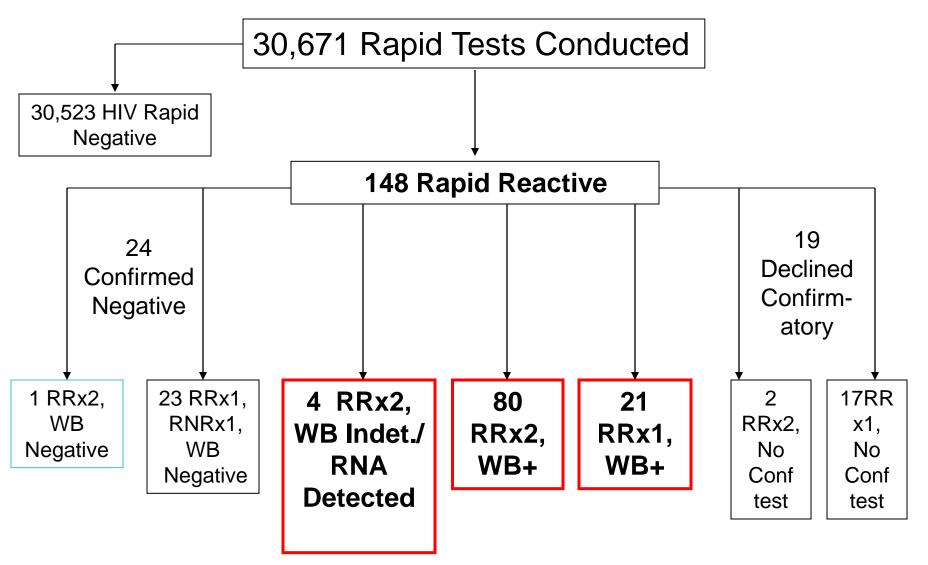
* Message for low risk client: If high risk indicated, AHI is discussed

Supplemental Testing Strategy Questions

- Does this strategy increase the number of positive clients who know their test result?
- Does this approach get clients linked to medical care?
- Does it improve predictive value of rapid testing?



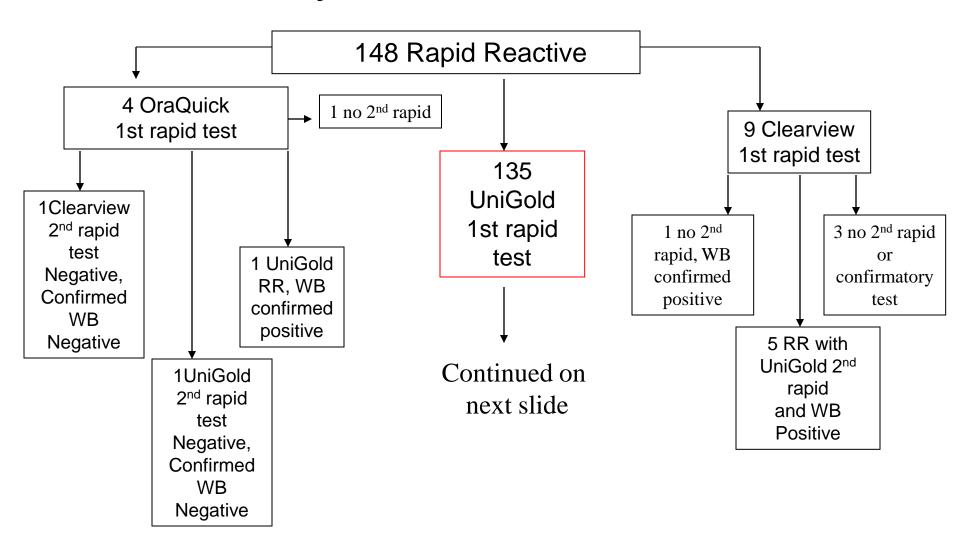
NYSDOH Rapid Testing Data May 2008 - December 2009



105 Confirmed Positive

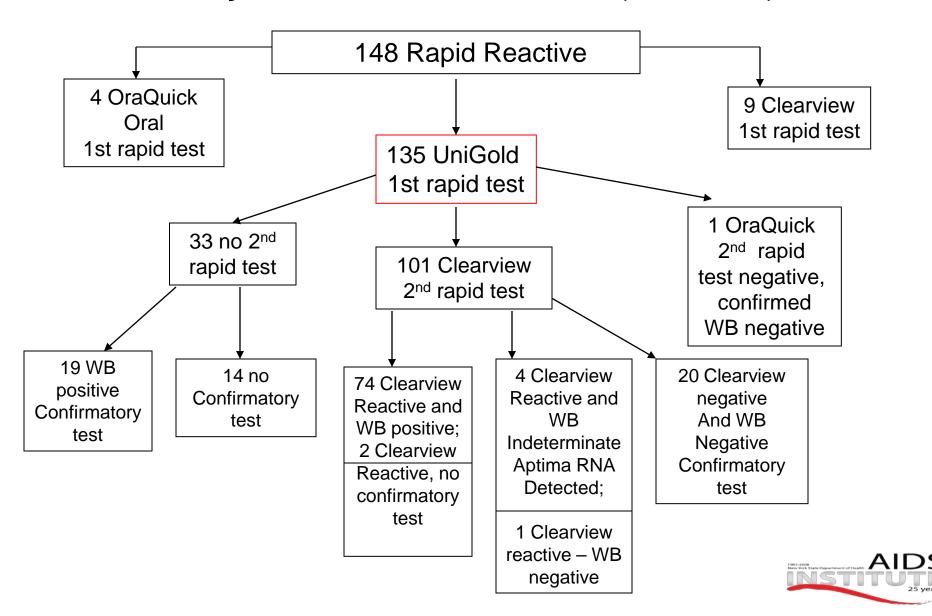


NYSDOH Rapid Testing Detail by Test Type May 2008 to December 2009





NYSDOH Rapid Testing Detail by Test Type May 2008 to December 2009 (continued)



Confirmed Positive Status

- 89 of 105 returned for post test counseling (84.8%)
 - 16 did not return for post test
- 88 of 89 changed to confidential status (98.9%)
 - 1 did not convert
- 84 of 89 self-reported or physician reported in care

$$(94.4\%)$$



Positive Predictive Value

- 148 total rapid reactive
 - 19 did not accept confirmatory testing
- 129 Reactive tests with confirmation
 - 105 confirmed positive
 - 24 Rapid Reactive/Negative WB
 - 23 False Reactive (RR1 reactive/RR2 non-reactive)
 - 1 False Positive on 2 rapid tests (only true FP)
 - PPV= TP/(TP+FP): 105/106=99.1%



Program Outcomes

Activity	Before	<u>After</u>
Post Test Counseled	75%	84.8%
Changed to Confidential	70.2%	98.9%
Accessed Care (confidential)	86.4%	94.4%
PPV	85.4%	99.3%



Future Program Directions

- Based on Two-Test Algorithm Results:
 - Link clients to care prior to receiving confirmatory test results
 - Utilize knowledge for public health benefit, i.e.,
 partner services, prevention messages



Staff Acknowledgements

 Bureau of Direct Program Operations Central and Regional Offices

Wadsworth Center Laboratory

Contact Information:

Email: April Richardson-Moore alr02@health.state.ny.us

Mara SanAntonio-Gaddy mls07@health.state.ny.us

Phone: 518-474-3671

