## Use of Multiple Rapid HIV Tests to Address False Positives and Increase Linkage to Care Within <u>ONE</u> Visit

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### HIV Rapid Testing Algorithm (RTA) Study

- Centers for Disease Control and Prevention (CDC) funded study
- Goal: Evaluate the impact and feasibility of using a sequence of up to 3 HIV rapid tests, to provide clients with information about their HIV status within 1 hour and link into care
- Two study sites: Los Angeles and San Francisco
- Project period = August 2007 March 2009



### **RTA Study Cities**



<sup>d</sup>San Francisco County HIV Epidemiology Program (2008)



### HIV Rapid Testing Algorithm (RTA) at Intervention Sites



## **Results: RTA Intervention Sites**





# **Results: Comparison Sites**

Study Time Period: August 1, 2007 – March 31, 2009

	Los Angeles N (%)	San Francisco N (%)
# Tested	32,929	10,086
# Screened Reactive	487 (1.48%)	271 (2.69%)
# False Positive	41 (0.12%)	34 (0.34%)
# Received Confirmatory Test Results	206 (42.3%)	149 (55.0%)
Median # Days Referred to Medical Care (range)	8 days (1 – 55 days)	7 days (1 – 137 days)

Note: HIV counseling and testing data are provisional due to reporting delays.



# Linkage to Care

- Linkage to care defined as either a CD4 or viral load lab reported to HIV Surveillance System
- Preliminary analysis
  - Approximately 3 6 month delay in reporting to HIV Surveillance
- Excluded from analysis:
  - Anonymous testers
  - Out of jurisdiction testers



# Linkage to Care: Los Angeles

### **Preliminary Analysis**

Time frame: August 1, 2007 – October 31, 2008 confidential testers

	RTA Participants N (%)	Comparison Sites N (%)
Initial Screen Reactive	64	539
Tested confidentially and resides in jurisdiction	53 (83%)	332 (62%)
Linked into Care:		
Within 3 months	15 (28%)	94 (28%)
Within 6 months	18 (34%)	103 (31%)
Within 12 months	19 (36%)	111 (33%)
Had lab reported <u>prior</u> to HCT test date	19 (36%)	172 (52%)

Data Source: HIV/AIDS Reporting System and HIV/AIDS Information Resource System



# Linkage to Care: San Francisco

### **Preliminary Analysis**

Time frame: August 1, 2007 – December 31, 2008

	<b>RTA Participants</b>	<b>Comparison Sites</b>
	N (%)	N (%)
Initial Screen Reactive	147	254
True positive	117 (80%)	220 (87%)
Tested confidentially and resides in jurisdiction	93 (63%)	120 (47%)
Linked into Care:		
Within 3 months	57 (61%)	66 (55%)
Within 6 months	67 (72%)	73 (61%)
Within 12 months	69 (74%)	77 (64%)
Had lab reported <u>prior</u> to HCT test	5 (5%)	8 (7%)

Data Source: HIV/AIDS Reporting System



# **Data Summary**

- RTA Intervention Sites:
  - 100% RTA clients received their test results on the same day
  - All RTA reactive clients were referred to medical care on the same day
  - 35 false positive results resolved on the same day
- Comparison Sites:
  - 42% 55% received confirmatory results
  - Median 7 8 days till referral to medical care
- Linkage to Care:
  - Preliminary analysis
  - 3% 11% increase in proportion of clients linked to care within 6 months with the RTA



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# **RTA Program Lessons Learned**

- Implementation
  - Slow roll out important
  - In Los Angeles offering RTA to clients who were reconfirming a positive result
- Successful RTA sites
  - Sites with a good history of providing rapid testing more successful
  - The more technical assistance the more successful
  - Sustainable phlebotomy capacity
- Maintaining a third rapid test was not cost effective



## Next Steps

- Linkage to care data analysis
- RTA continued to be offered at select POC sites post-study
- Modified RTA Algorithm POC Algorithms\* 2 and 3 using 2 types of rapid HIV test kits
- Potentially offer RTA at routine testing clinics

\* HIV Testing Algorithms: A Status Report. Available at http://www.aphl.org/aphlprograms/infectious/hiv/Pages/HIVStatusReport.aspx



### Thanks!

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### For More Information

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