

New Technologies and Innovative Methods to Facilitate HIV Prevention, Testing and Care

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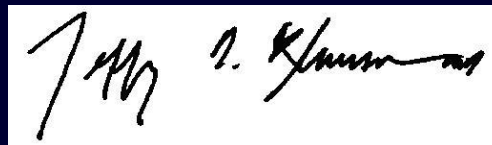
David Geffen School of Medicine

Department of Epidemiology

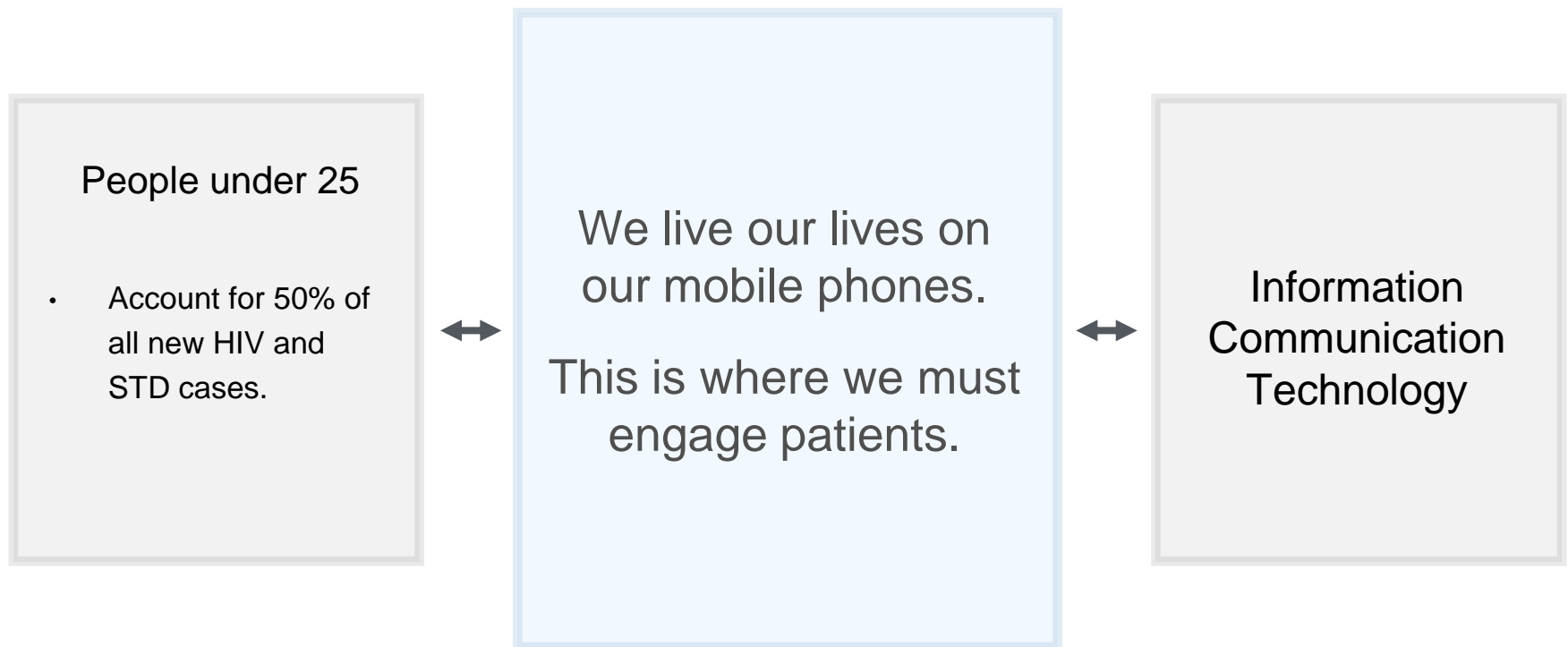
Karin and Jonathan Fielding School of Public Health

Disclosures

- Dr. Klausner is a faculty member of the University of California Los Angeles
- Dr. Klausner is a board member of YTH, Inc, non-profit
- Dr. Klausner is an unpaid medical advisor for Healthvana.com
- In the past 12 months:
 - Research funding or donated supplies from the US NIH, US CDC, AIDS Healthcare Foundation, Gilead Sciences, Hologic, Alere-Standard Diagnostics, Chembio, Cepheid and MedMira.
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 - Advisory board: None
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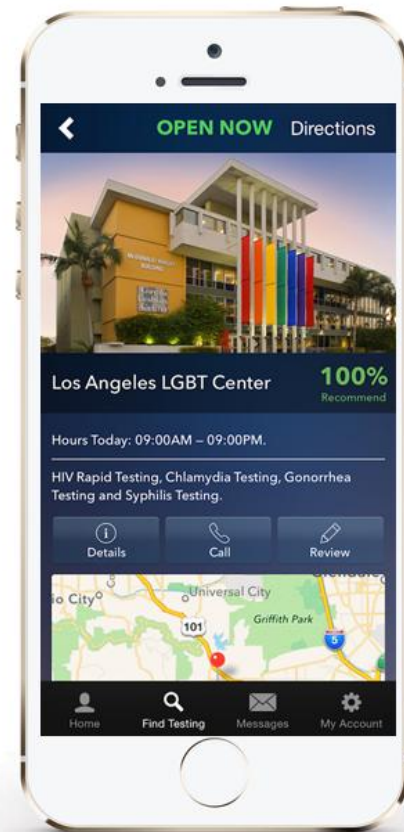
A handwritten signature in black ink on a white rectangular background. The signature appears to read "Jeffrey A. Klausner" in a cursive script.

The Future of Healthcare is Mobile



HIV & STD Testing Locator


- Custom curated data across country
- Approx. 224K pageviews
- 2 min 25 seconds average time on site








HIV testing locators

GET A TEST

GET A TEST




SHARE     

In order to End HIV, it's important that every gay man knows his status and gets tested regularly. Find the nearest location where you can get tested for HIV using our tool below, and remember: now you can get a rapid HIV test – it's free, easy, gay-friendly and quick: you get your results in approximately 30 minutes.

Enter Suburb and State, or Postcode

☒ HIV Test ☐ Rapid HIV Test



WHAT YOU NEED TO KNOW IF YOU ARE:

- SEXUALLY ADVENTUROUS
- YOUNG
- ABORIGINAL
- HIV
- I'M
- IN A RELATIONSHIP



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HIV Testing


Safe. Easy. Free.

Welcome



PLAATS

Jodenbreestraat... 
View larger map



Jodenbreestraat 158
1011 NS Amsterdam



FDA approved for home self-testing, July 2012



Acceptability of Using Electronic Vending Machines to Deliver Oral Rapid HIV Self-Testing Kits: A Qualitative Study

Sean D. Young^{1*}, Joseph Daniels², ChingChe J. Chiu¹, Robert K. Bolan³, Risa P. Flynn³, Justin Kwok¹, Jeffrey D. Klausner²

1 Department of Family Medicine, University of California Los Angeles, Los Angeles, California, United States of America, **2** Program in Global Health, University of California Los Angeles, Los Angeles, California, United States of America, **3** Los Angeles Gay and Lesbian Center, Los Angeles, California, United States of America

Abstract

Introduction: Rates of unrecognized HIV infection are significantly higher among Latino and Black men who have sex with men (MSM). Policy makers have proposed that HIV self-testing kits and new methods for delivering self-testing could improve testing uptake among minority MSM. This study sought to conduct qualitative assessments with MSM of color to determine the acceptability of using electronic vending machines to dispense HIV self-testing kits.

Materials and Methods: African American and Latino MSM were recruited using a participant pool from an existing HIV prevention trial on Facebook. If participants expressed interest in using a vending machine to receive an HIV self-testing kit, they were emailed a 4-digit personal identification number (PIN) code to retrieve the test from the machine. We followed up with those who had tested to assess their willingness to participate in an interview about their experience.

Results: Twelve kits were dispensed and 8 interviews were conducted. In general, participants expressed that the vending machine was an acceptable HIV test delivery method due to its novelty and convenience.

Discussion: Acceptability of this delivery model for HIV testing kits was closely associated with three main factors: credibility, confidentiality, and convenience. Future research is needed to address issues, such as user-induced errors and costs, before scaling up the dispensing method.

Table I: Vending Machine and HIV Test Kit Usage Behavior

Have you tested for HIV before?	8 Yes 0 No
How far do you live from the vending machine site?	Range: 5-15 miles Mode: 5 miles
What time of day did you use the vending machine?	Morning = 4 Afternoon = 4
Was using the vending machine a private experience?	Yes = 5 No = 3
When did you use the test kit after receiving it?	Day of receipt = 6 Within a week = 2
Do you feel you need to test again after using the kit?	Yes = 0 No = 8
How much should someone pay for the test kit when buying it from a vending machine?	Range: \$5-\$25 Mode: \$5

Sex Clubs

- High-risk population that 'cruise' for anonymous sex
- LA County requires sex clubs to provide HIV testing and education



Barriers to Sex Club Testing

- Sex club culture
- Client risk and demographics vary
- Busy hours at night versus tester availability during the day

Vending Machines

- Self-contained unit
- Remote monitoring
- Instructions posted
- Private area



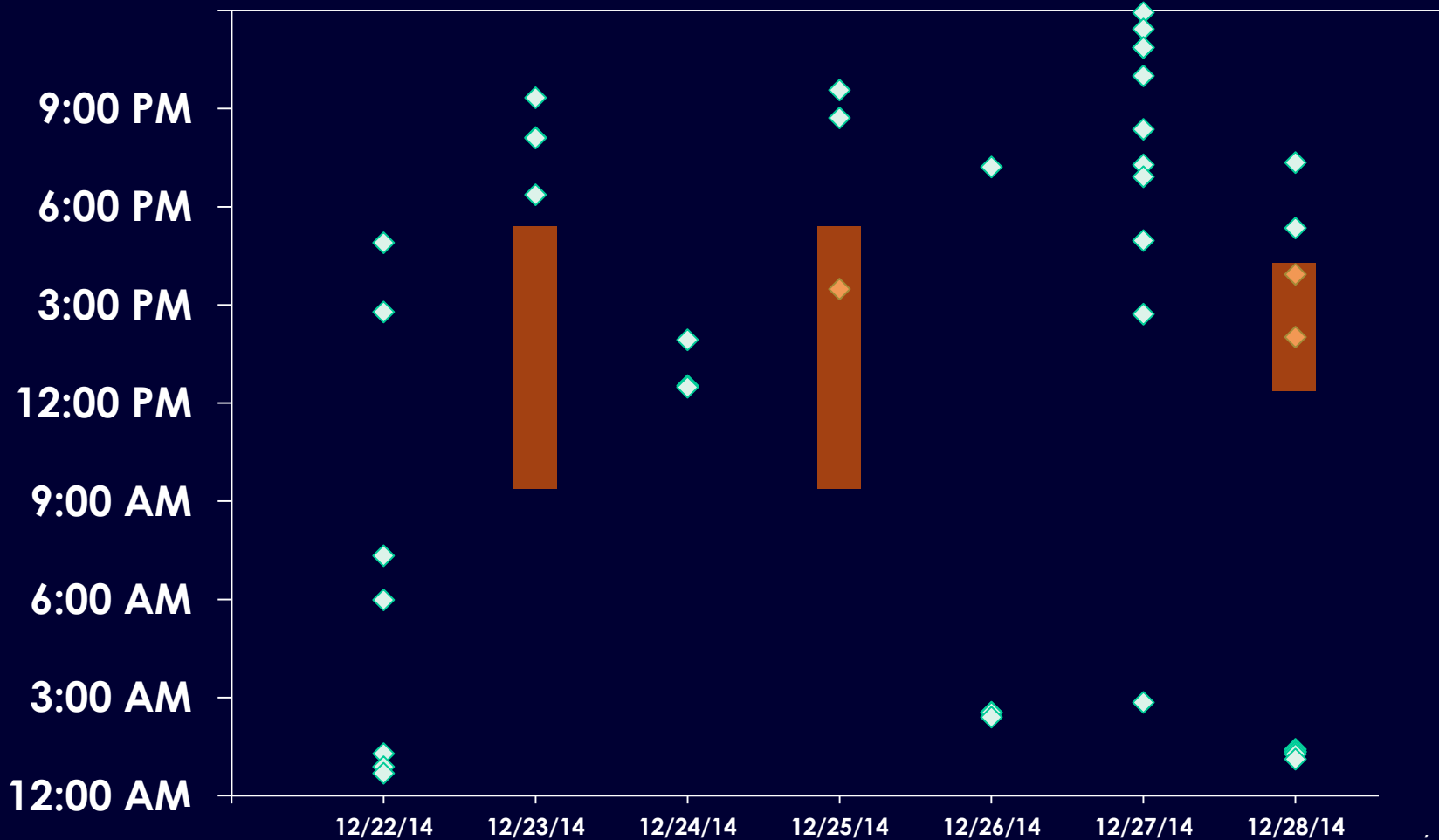
Initial Concerns

- Cost of HIV home test kits
- Emptying the vending machine
- Conflict with existing testing programs
- Home test kit window period
- Result anxiety
- Gateway to more comprehensive testing

Results

- Scatterplots by week
- Tester schedule (orange blocks):
 - Tuesday 9am-5pm
 - Thursday 9am-5pm
 - Sunday 12pm-4pm

Plot of vended tests vs. staff tests by time and date



Results summary over 7 weeks

- Vending machine
 - 1,176 hours
 - 312 tests
- Traditional testers
 - 64 hours
 - 58 tests

July – November 2013

FREE VOUCHER FOR THE ORAQUICK IN-HOME HIV TEST

AVAILABLE IN THE PHARMACY DEPARTMENT
WHILE SUPPLIES LAST

**\$43
Value!!**

THE ORAQUICK IN-HOME HIV TEST

OraQuick is a fast and easy in-home test to check for HIV (HIV-1 and HIV-2) in oral fluid. **No blood draw is needed!** The test can detect an HIV infection that occurred more than 3 months ago...

- Unprotected anal or vaginal sex with a partner who may have HIV
- Having sex with multiple partners with other STDs
- Sharing needles, syringes, or other equipment used for drug injection

OraQuick comes with a simple set of instructions, takes only 20 minutes, and has information on what to do if you test positive.



WHY IS HIV TESTING IMPORTANT?

Knowing your HIV status is important so you can begin treatment early! Help your health and prevent the spread of HIV by getting tested.

This voucher can be turned in for an OraQuick kit at a *listed location** while supplies last!

VOUCHER NUMBER:

*Locations listed on the back →

To Get Your FREE HIV self-test:

- Bring this voucher to a Walgreens location *listed on the reverse side*.
- Hand this voucher to a Walgreens staff member.
- Walgreens will give you the OraQuick kit at no cost
- Take the test and know your status!

If you have a positive test result, follow the instructions in the kit about who to contact for questions and further help.

Return this voucher to a location shown below for your free OraQuick in-home HIV test.

REDEEMABLE WALGREENS LOCATIONS:



1050 N Highland Ave Los Angeles, CA 90028 (Cross street: Santa Monica Blvd)	10437 Santa Monica Blvd Los Angeles, CA 90025 (Cross street: S Beverly Glen Blvd)	3331 W Century Blvd Inglewood, CA 90303 (Cross street: Crenshaw Blvd)
1500 E Gage Ave Los Angeles, CA 90001 (Cross street: Compton Ave)	1501 Vine St Los Angeles, CA 90026 (Cross street: W Sunset Blvd)	230 N La Brea Ave Inglewood, CA 90301 (Cross street: E Florence Ave)
8420 Santa Monica Blvd West Hollywood, CA 90069 (Cross street: N La Cienega Blvd)	1800 W Slauson Ave Los Angeles, CA 90047 (Cross street: S Western Ave)	1825 W Sunset Blvd Los Angeles, CA 90026 (Cross street: Echo Park Ave)
1399 Roxbury Dr Los Angeles, CA 90005 (Cross street: W Pico Blvd)	8770 W Pico Blvd Los Angeles, CA 90035 (Cross street: S Robertson Blvd)	5451 W Sunset Blvd Los Angeles, CA 90027 (Cross street: N Western Ave)

Walgreens Use Only!
Please stamp here and fax this side.
Fax Number: (310) 557-3450

VOUCHER NUMBER:



RESEARCH ARTICLE

Open Access

Piloting an HIV self-test kit voucher program to raise serostatus awareness of high-risk African Americans, Los Angeles

Robert W Marlin^{1*}, Sean D Young², Claire C Bristow¹, Greg Wilson³, Jeffrey Rodriguez⁴, Jose Ortiz⁵, Rhea Mathew⁵ and Jeffrey D Klausner¹

Abstract

Background: Up to half of all new HIV cases in Los Angeles may be caused by the 20-30% of men who have sex with men (MSM) with unrecognized HIV infection. Racial/ethnic minority MSM are at particularly high risk for being sero-unaware and due to stigma and poor healthcare access might benefit from novel private, self-testing methods, such as the recently FDA-approved OraQuick® In-Home HIV Test.

Methods: From July-November 2013, we undertook a pilot study to examine the feasibility of a voucher program for free OraQuick® tests targeting African American MSM in Los Angeles. We determined feasibility based on: (1) the establishment of a voucher redemption and third-party payment system, (2) the willingness of community-based organizations (CBOs) to disseminate vouchers, and (3) the collection of user demographics, test and linkage-to-care results with an anonymous telephone survey.

Results: We partnered with Walgreens® to create a voucher and third-party reimbursement system for free OraQuick® tests. Voucher distribution was divided into two periods. In total, 641 vouchers were supplied to CBOs: 274 (42.7%) went to clients and of those 53 (19.3%) were redeemed. Fifty (18.2%) of the 274 clients were surveyed: 44 (88%) were African American, 39 (78%) reported being likely to repeat voucher use, 44 (88%) reported reviewing pre-test information, and 37 (74%) the post-test information. Three (6%) of 50 survey respondents reported newly testing HIV-positive of whom all (100%) reported seeking medical care. Two withheld their results, both of whom also sought medical care.

Survey of voucher redeemers (n = 49)

Survey Response	
For those that redeemed the voucher	Total (n=49)
Reported Test Result	
Positive	3* (6.1%)
Negative	44 (89.8%)
Not disclosed	2** (4.1%)
Activities Before taking the test:	
Engaged in Pre-Test Activity	44 (89.9%)
Activities After Taking the Test:	
Engaged in Post-Test Activity	37 (75.5%)
* All 3 reported linkage to care	** Both reported linkage to care

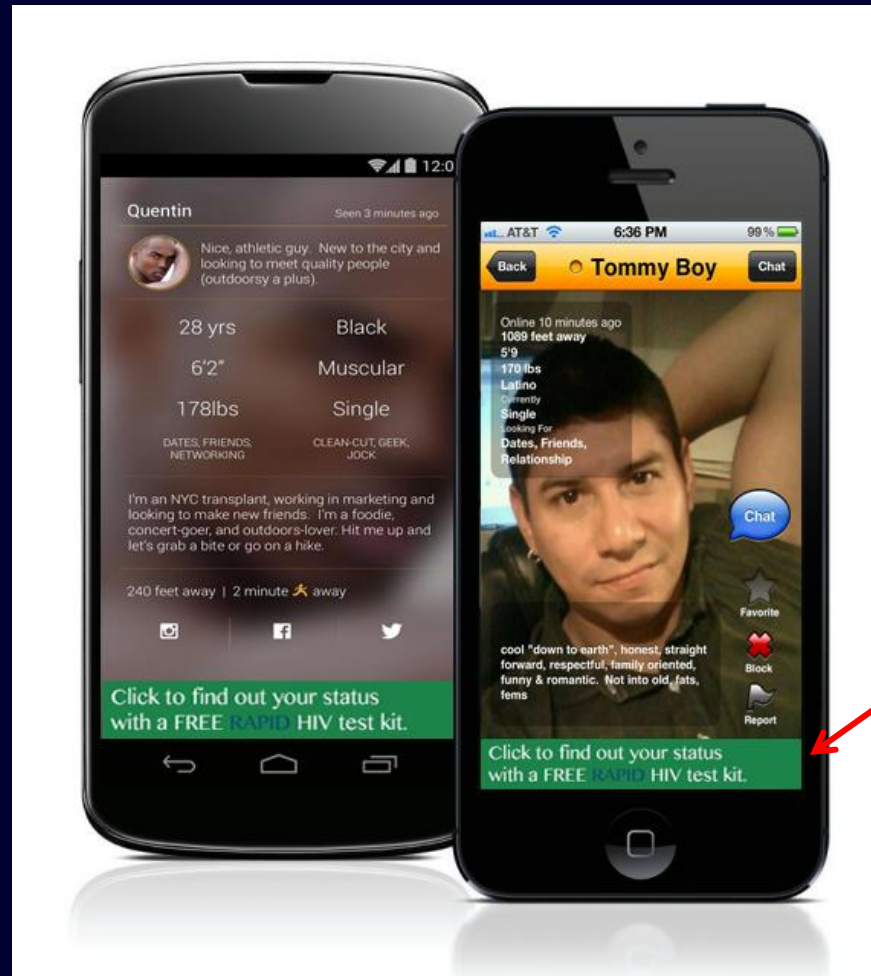
Geosocial Networking Apps



Source: iTunes.com

Social media promotion 1

April-May 2014



banner ad

Social media promotion 1

April-May 2014



FREE HIV SELF-TESTS · 1 X

freehivselftests.weebly.com

Apps Care Extenders Volunteer Information Split And Merge PDF https://services.as... https://services.as... Outlook Web App MSAR : HOME PAGE amfAR : amfAR Ann...

Free HIV Self-Test Program

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Welcome to the UCLA Free HIV Self-Test Program!

We are a group of researchers at the University of California, Los Angeles, who are interested in promoting HIV self-testing in Los Angeles. You can learn about our [research](#) and see [who we are](#) on this site.

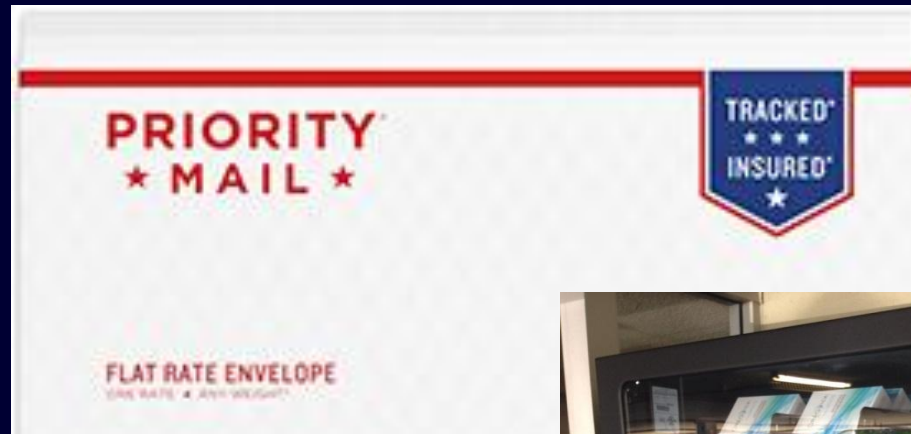
As part of an ongoing research project, we are currently giving away free, FDA-approved HIV self-tests to the community. It is a quick oral swab test (no blood required) that can be done in the privacy of your own home, and you can get your results in 20 minutes.

To get your free HIV self-test, please answer the following questions.

1. How would you like to get your HIV self-test?

Choose one of the three options below.

- ☒ Local vending machine
[Click here to view the vending machine location.](#)
- ☐ A printable voucher for a self-test kit at select drugstores
[Click here to view store locations.](#)
[Click here to see what the voucher looks like.](#)



FREE VOUCHER
FOR THE ORAQUICK IN-HOME HIV TEST

\$43 Value!!

AVAILABLE IN THE PHARMACY DEPARTMENT
WHILE SUPPLIES LAST

THE ORAQUICK IN-HOME HIV TEST

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VOUCHER NUMBER: _____

*Locations listed on the back →

Return this voucher to a location shown below for a free OraQuick in-home HIV test.

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Walgreens Use Only!
Please stamp here and fax this side.
Fax Number: (916) 557-3450

VOUCHER NUMBER: _____



11,939 website visits in 6 weeks

Figure 1: Daily number of unique visits to the HIV self-test program website (17 Apr – 29 May)

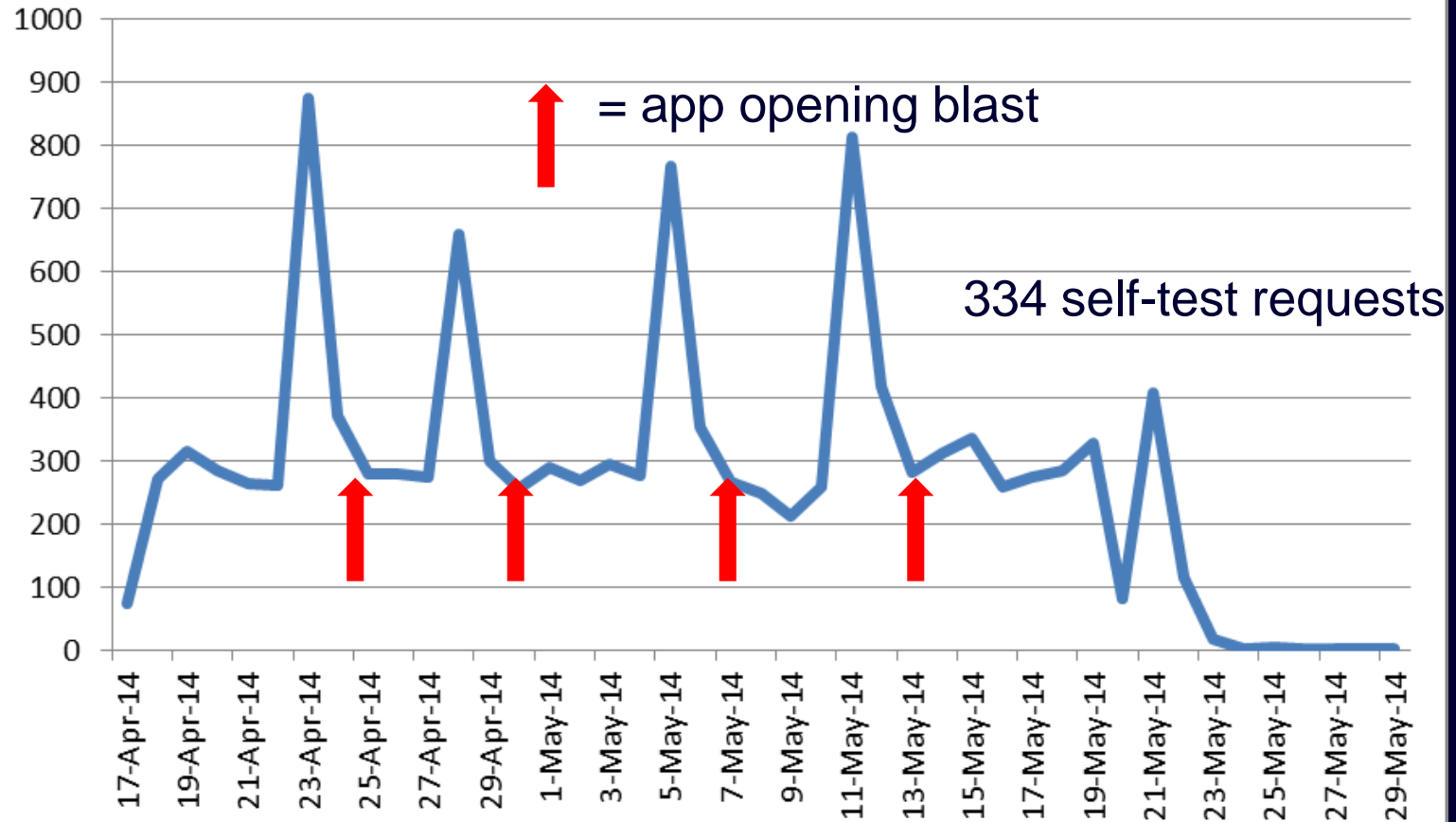


Figure 2: Number of HIV self-test kit requests by delivery method

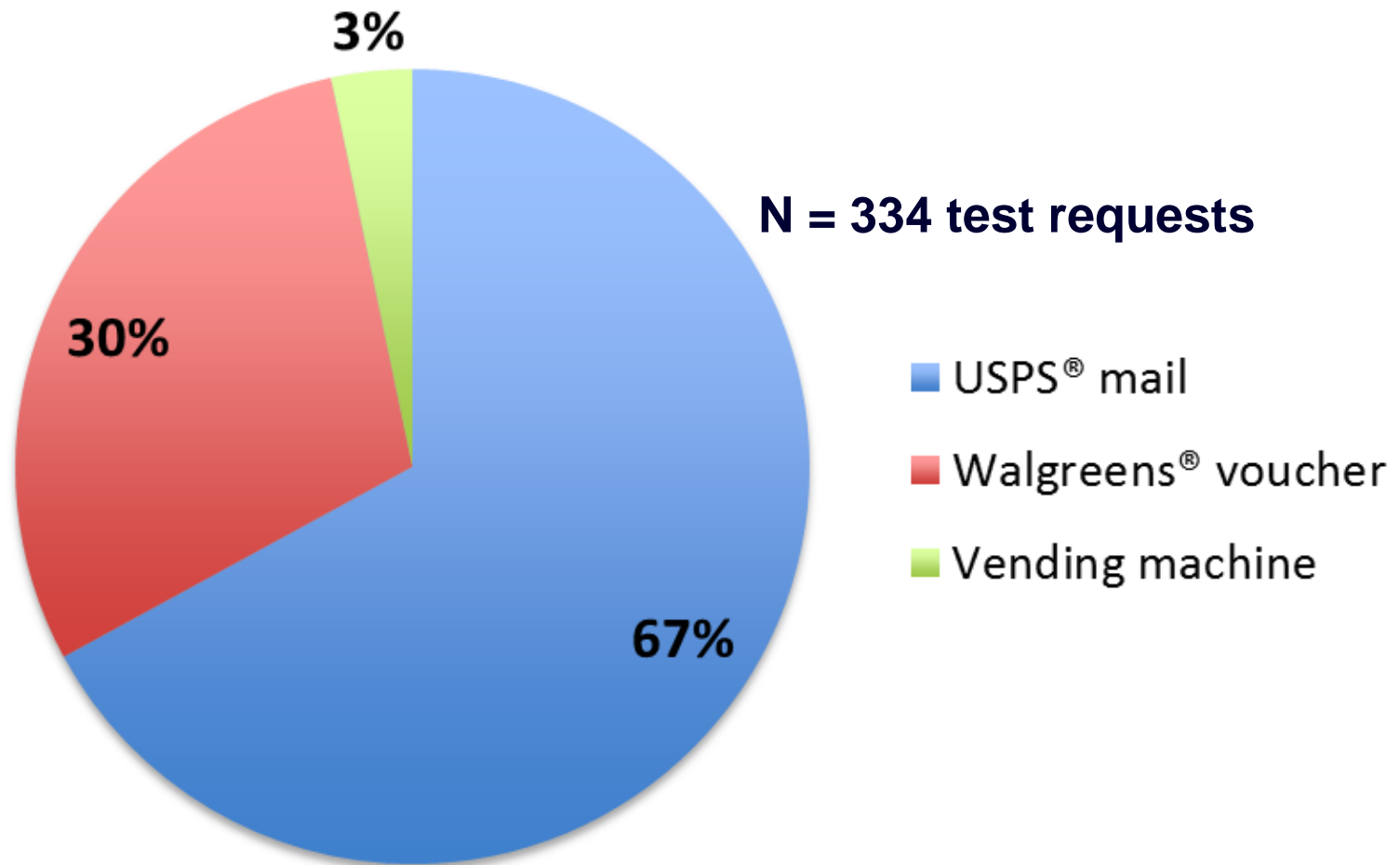


Table 1b: HIV self-test program testing experiences survey (N=56), Los Angeles, 2014

Follow-up survey response	Total	
<i>Ease of use of self-test kit</i>		
Very easy	33	59%
Easy	19	34%
Neutral	2	4%
Hard	2	4%
Very hard	0	0%
<i>Reported self-test result</i>		
Negative	54	96%
Positive	2	4%
<i>Testing preferences</i>		
Prefer self-test kit	35	63%
Somewhat prefer self-test kit	8	14%
Neutral	6	11%
Somewhat prefer a clinic	3	5%
Prefer a clinic	4	7%

HIV self-testing summary

- Pilot projects using vending machines, vouchers and US mail delivery
 - 732 HIV self-tests delivered
 - 51 vending, 210 vouchers, 471 mail
 - Of 159 surveyed, 6 (3.8%) newly HIV+
 - 100% linked to care

Adherence and Retention



Effects of a mobile phone short message service on antiretroviral treatment adherence in Kenya (WelTel Kenya1): a randomised trial

Richard T Lester, Paul Ritvo, Edward J Mills, Antony Kariri, Sarah Karanja, Michael H Chung, William Jack, James Habyarimana, Mohsen Sadatsafavi, Mehdi Najafzadeh, Carlo A Marra, Benson Estambale, Elizabeth Ngugi, T Blake Ball, Lehana Thabane, Lawrence J Gelmon, Joshua Kimani, Marta Ackers, Francis A Plummer

	SMS group (number [%])	Control group (number [%])	RR (95% CI)*	p value
Primary outcome				
Intention-to-treat analysis†				
Self-reported adherence (>95%)	168 (62%)	132 (50%)	0.81 (0.69–0.94)	0.006
Viral suppression (<400 copies per mL)	156 (57%)	128 (48%)	0.85 (0.72–0.99)	0.04
Complete-case analysis‡				
Self-reported adherence§	168 (91%)	132 (91%)	1.00 (0.94–1.07)	0.94
Viral suppression¶	156 (75%)	128 (66%)	0.88 (0.77–1.00)	0.047
Secondary outcomes				
Total attrition (missing)	53 (19%)	61 (23%)	1.24 (0.82–1.89)	0.31
Loss to follow-up	17 (6%)	27 (10%)	1.69 (0.91–3.23)	0.094
Mortality	25 (9%)	30 (11%)	1.27 (0.72–2.22)	0.42
Withdrawal	7 (3%)	3 (1%)	2.26 (0.59–8.67)	0.34
Transfer out	4 (1%)	1 (0%)	0.25 (0.19–2.17)	0.38



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Welcome to the Oregon Health Reminders.

This is the place where you can set customized SMS reminders (and email and voice!) for regular HIV testing, daily medication reminders, prescription refill reminders and weekly health tips and life advice. Oregon Reminders is free, private and HIPAA compliant.

It's simple to get started. [Watch the video](#) to learn how much you can do with Oregon Health Reminders. You'll never forget your meds again!

To get started:

What is your age? *

Select value

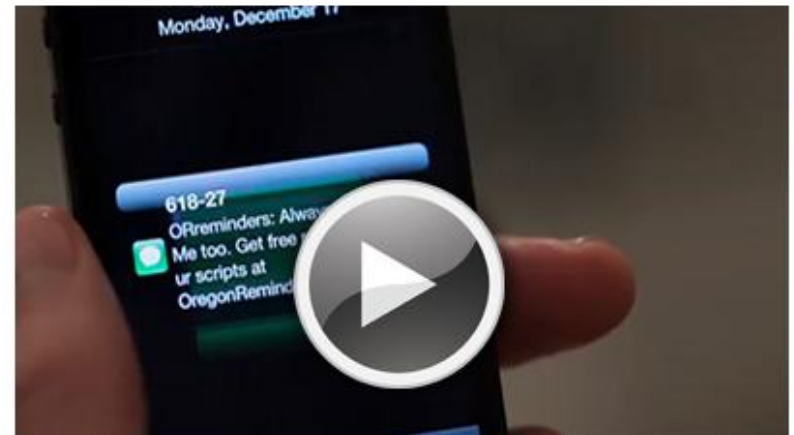
Zip/Postal Code *

Where did you hear about Oregon Reminders? *

Select

If Other please specify where you heard of Oregon Reminders.

Submit



Watch: How To Sign up for free HIV Testing Reminders, Medication Reminders and Prescription Refills in Oregon

Future

- "Digital Big Brother" - the pill bottle will communicate with your phone and if you leave home without it, you will be reminded to go back
- Geo-mapping of persons w/ HIV/STI test results to track where new infections occur
- Home PCR testing for HIV/STIs
- Tele-health for PrEP

Thank you



JDKlausner@mednet.ucla.edu