# Interventions internationally which have reduced access gaps

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#### **Disclosures**

- In the past 12 months, I have received scientific advisory board fees from GSK and Cepheid
- I have received research grant funding from Gilead
- I serve on the WHO STI Treatment Guidelines work group
- I chair 2 NIH-funded FDA clinical studies on STI diagnostics
- · Advisor to MyLabBox.com, SafeMovement and Healthvana

#### Access

- Testing
- Treatment
- Adherence
- Prevention
- Policy

# **Testing in Community-based Settings**











#### **Testing in Community-based Settings**

MMWR

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Clinic-Based Testing for Rectal and Pharyngeal Neisseria gonorrhoeae and Chlamydia trachomatis Infections by Community-Based Organizations - Five Cities, United States, 2007

erving MSM, CDC and the San Francisco Department of Public Health gathered data on rectal and pharyngeal gonor-rhea and chlamydia testing at screening sites managed by six gay-focused community-based organizations in five U.S. cities during 2007. This report summarizes the results of the study, which found that three organizations collected samples for NAA testing and three for culture. In total, approximately 30,000 tests were performed; 5.4% of rectal gonorrhea, 8.9% of rectal chlamydia, 5.3% of pharyngeal gonorrhea, and 1.6% of pharyngeal chlamydia tests were positive. These results demonstrate that gay-focused community-based organizations can detect large numbers of gonorrhea and chlamydia cases and might reach MSM not being tested elsewhere. Public health officials could consider providing support to certain community-based organizations to facilitate testing and treatment of gonorrhea and chlamydia.

Gay-focused community-based organizations provide medi-cal and social services and are guided and staffed by paid or unpaid community residents with various skill levels, including some who might have medical, nursing, or counseling backgrounds (4). Funding and other resources are provided by private and public sources. Many gay-focused community-based organizations in cities with large MSM, lesbian, and bisexual populations offer alternative venues to traditional public STD clinics and private physicians by providing onsite STD screening and treatment services. Gay-focused communitybased organizations typically do not require health insurance for access, are located in neighborhoods with many MSM, and provide culturally competent services for a historically

#### Walk-in self-testing for STDs

Dean Street Express, London High Volume at Point of Care



- ✓ Faster Results: From 183 hours to 4 hours
- ✓ Quicker Treatment: 80% reduction in time to treatment
- ✓ Reduced Waiting Time: From 2 hours to 32.
- ✓ Less Patients Lost to Follow-Up: From 3.8%
- ✓ For every 2 people diagnosed 1 partner spared exposure
- High Uptake: Monthly increase in testing
- ✓ Rated "Excellent" by 94% of users

A total of 12,500 people attend the clinics each month, 60% MSM The clinics diagnose half of all HIV infections in MSM in London (50% recent)

# **Self-Testing for HIV infection**



#### OraQuick® In-Home HIV Test, US

Projection of Positives Identified, among 1.2M tests sold, 2013-2017

The estimated prevalence rate between 1-2%

Theoretical Projection of Total Number of Positives Identified  Based on Consumer Support Center Activity			
	731 Positives* Identified via Consumer Support Center		
% of Positives Calling Support Center	1%	5%	10%
Projected Total Number of Positives	73,100	14,620	7310
Positives as Percent of Units Sold to date	6.1%	1.2%	.6%

<sup>\*</sup>Positives captured launch through 6/30/17 Based on prelaunch research indicating that most (96%) consumers receiving positive result will contact their healthcare professional; ~1.2M units sold Jan 2013 through July 2017



# **Vending Machines in LA sex clubs**

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



McGrath M et al, CROI pre-meeting, 2015

#### **Outreach Vouchers**





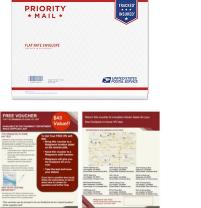
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### **Social media**



Huang, AIDS Edu Prev 2016

# **Self-test Access Choices**







Huang et al AIDS Edu Prev 2016

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#### **Self-testing dissemination-NYC**

**Goal:** Distribute 2,000 HIV in-home test kits to men and transgender individuals who have sex with men (MTSM)

- Tests sent at no cost, through the mail
- Conducted entirely online recruitment, eligibility assessment, kit order

Recruitment: Dating apps and websites







\*over 3 weeks

Edelstein, APHA, 2016

# STD Testing Home-collection myLABBox.com



myLAB Box has completed thousands of tests in all 50 states over 160% increase in demand from 2016 to 2017

#### **Treatment**

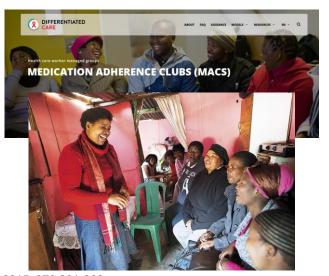
# South Africa's latest weapon against HIV: street dispensers for antiretrovirals

Patients will no longer need to join five-hour-long queues for their medication





#### **MSF Treatment Clubs**



N Engl J Med 2015; 372:301-303

# **Adherence**





# **Prevention**

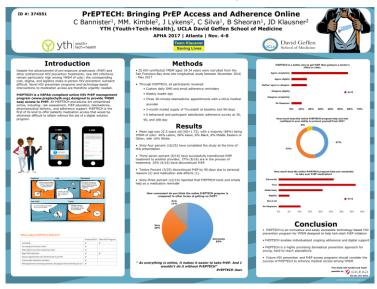


Meechai Viravaldya Thailand



**South Africa** 

# **Online PrEP, US**



# **Policy**

- Since the 1980s, affected populations engaged in HIV prevention policy
- In some places, community participation is required by law
- Slower uptake in STD prevention community
- Declining participation in highincome settings



# Thank you

- NIH Center for HIV Identification, Prevention and Treatment Services
- NIH Center for AIDS Research
- NIH Fogarty Center
- NIH NIAID
- NIH NICHD









