Health

HIV Self-Test (HIVST) Awareness, Pharmacy Exposure and Use, New York City, 2015-16

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Background

- The New York City (NYC) Department of Health and Mental Hygiene (DOHMH) conducted an HIVST Giveaway (HTG) to distribute free HIVSTs online¹
- Potential participants were recruited on MSM-centric dating mobile apps and LGBTQ-interest websites
- Eligible participants provided email addresses for HIVST redemption and a follow-up survey
- The HIV self-test (HIVST) can increase status awareness in domestic urban settings, but barriers to access² exist along a proposed continuum from awareness, to pharmacy availability, to use
- The HTG follow-up survey presented an opportunity to explore the HIVST continuum among a large, urban sample of men and transgender people who have sex with men (MTSM)

Objectives

We examined associations between sociodemographic and behavioral factors and:

- Prior HIVST awareness
- Exposure to HIVST in pharmacies
- Ever using HIVST

Methods

Study population Eligible HTG participants (≥18 years old, assigned male sex at birth or currently identifying as a man, not previously diagnosed with HIV, living in NYC) who completed a follow-up survey

Data collection Self-administered online surveys at eligibility (11/2015-12/2015) and follow-up (3/2016-4/2016)

Outcomes Self-report of the following *prior to participation in HTG* ("Before the Home Test Giveaway, I had..."):

- HIVST awareness ("...heard of the home HIV test")
- HIVST pharmacy exposure ("...seen the home HIV test at a pharmacy")
- HIVST use ("...used at least one home HIV test")

Characteristics examined

- Sociodemographics Age^a; race/ethnicity^a (non-Hispanic Black, Hispanic, non-Hispanic white, other); education^b (≤high school equivalent, some college, 4year degree, graduate degree); annual income^b (<\$40,000, ≥\$40,000); borough of residence^a (Manhattan, other); doctor's visit in the past year^b (yes, no); sexual identity^b (gay, non-gay); insurance status^b (insured, uninsured)
- **HIV-related behaviors** Timing of last HIV test^a (≤ 1 , >1 year ago, never) and last condomless anal sex^b (CAS; <1, 1-3, >3 months ago, never); in the past 6 months: number of CAS partners^b (0-1, >1); gender and HIV status of partner(s)^b; sexually transmitted infection (STI) diagnosis^b; pre-exposure prophylaxis (PrEP) use^b; drug use^b (cocaine, meth, MDMA, GHB, poppers, injection)

Data analysis Factors associated with outcomes in bivariate analysis (p<0.05) were assessed via multivariable logistic regression, adjusted for age, race/ ethnicity, education, and income

Continuum

- Eighty-five, 57% and 23% respectively (Figure 1)
- Age and race/ethnicity w (Table, Figure 2)
- Income and time since last

Other factors associated wit

- PrEP use in the past 6 more 1.12-3.06]
- HIV-positive partner in the
- CAS in the past month vs.
- Partnering only with men

Other factors associated wit

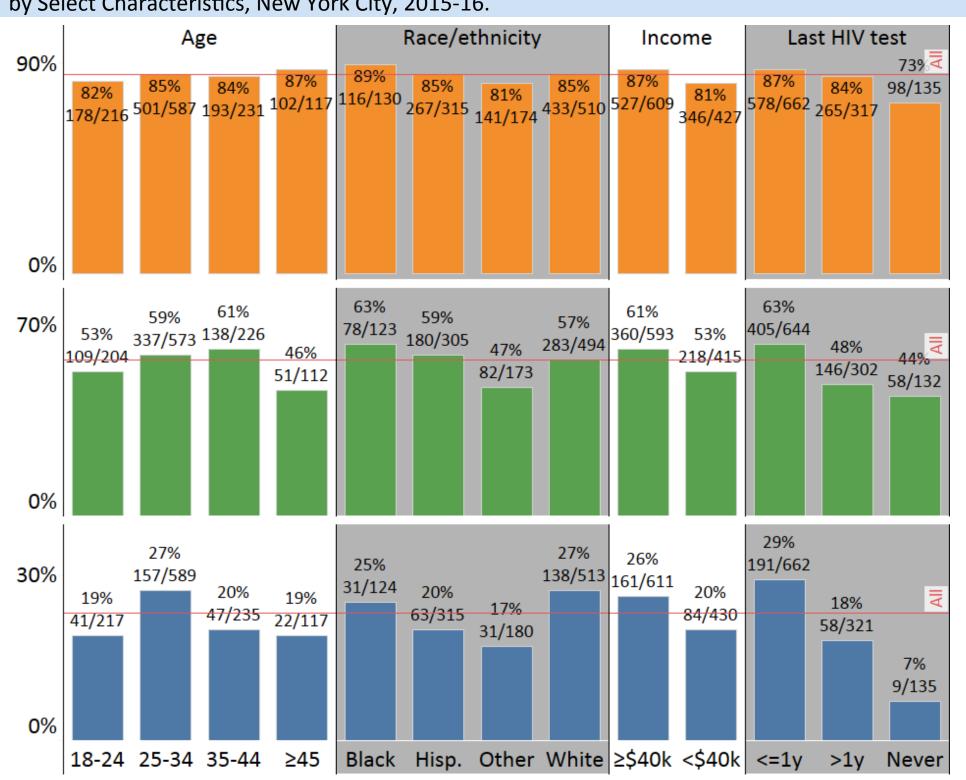
- Manhattan residence vs.
- Doctor's visit in the past y
- PrEP use in the past 6 more
- HIV-positive partner in the

Other factors associated with

• >1 CAS partner in the pas

Other Factors not independe education, sexual identity, ir

Figure 2. Proportion of HIV Self-Test Giveaway Participants Reporting HIVST Continuum Outcomes by Select Characteristics, New York City, 2015-16.



^aCollected at eligibility; ^bCollected at follow-up

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Result	S				
% of respondents were aware of, had seen, and had used the HIVST,		-	roportion of HIV Solo Outcomes, Overa		-
were associated with <i>pharmacy exposure</i> and use, but not awareness		90%	85%		
ast HIV test were associated across the continuum (Table, Figure 2)		80%	974/1151		
i th awareness onths [adjusted odds ratio (aOR) 1.85, 95% confidence interval (CI)		70%			
he past 6 months (aOR 2.35, CI 1.20-4.63)	le %	60%			57%
s. never (aOR 3.26, CI 1.61-6.57) n (aOR 2.10, CI 1.05-4.18)	1.20-4.63) 7) 50% 40%		635/1:		
ith pharmacy exposure . other (aOR 1.37 <i>,</i> Cl 1.05-1.79)	HIVST o	40%			
year (aOR 1.43, CI 1.02-2.01) onths (aOR 2.10, CI 1.49-2.97)	Ť	30%			
he past 6 months (aOR 1.71, CI 1.13-2.58)		20%			
r ith use ast 6 months (aOR 1.68, Cl 1.22-2.31)		10%			
dently associated with any HIVST continuum outcomes include:		0%			
insurance status, STI diagnosis and drug use in the past 6 months	_		Awareness	I	Pharmacy e

					Limitations
	oortion of HIV Self-Test utcomes, Overall, New		Reporting HIVST	r	Data based on self-report and thus subject to social desirability bias, recall error, or misrepresentation Advertisement and email recruitment strategy introduces self-
90%	85%				selection bias
80% 70%	974/1151			6 • (Convenience sample of those participating in a NYC HIVST giveaway and thus may not be generalizable to other settings or populations Continuum does not account for all possible methods of HIVST access, though data (not shown) suggest the impact of alternative access pathways is minimal
^ج 60%		57%			Discussion
50% 50% 40%		635/1115		-	Overall, most respondents were aware of the HIVST prior to HTG, but fewer had seen one in a pharmacy, and only 1 in 4 had ever used one
≧ 30%			23%	• /	 Associations with: Income across the continuum suggest that socioeconomic status may affect HIVST use through mechanisms howend its
20% 10%			267/1155		 status may affect HIVST use through mechanisms beyond its cost Recent HIV testing across the continuum suggest that less frequent testers may not be adequately informed about the
0%	Awareness P	harmacy exposure	Use		 frequent testers may not be adequately informed about the HIVST Recent CAS (awareness, use) suggest those at risk may have greater access to HIVST
	Associations with HIV S rticipants, New York Cit		tcomes among HIVST	S	The lack of association with insurance status <i>across the continuum</i> suggests that self-testing can provide a suitable alternative to those without adequate access to health care
Characteris	Awareness tic aOR* (95% CI)	Pharmacy exposure ¹ aOR* (95% CI)	Use aOR* (95% CI)		Further research to assess residual confounding is warranted
<i>Age</i> 18-24 25-34	0.82 (0.39 - 1.74) 0.86 (0.44 - 1.68)	1.79 (1.05 - 3.04) 1.82 (1.15 - 2.88)	1.49 (0.78 - 2.85) 1.88 (1.07 - 3.29)	:	Ongoing HIVST Giveaways in NYC (6/2016-8/2016, 11/2016-1/2017) may increase HIVST awareness and use, with the ultimate goal of increased status awareness
35-44 ≥45	0.69 (0.34 - 1.41) Ref	1.97 (1.19 - 3.26) Ref	1.23 (0.66 - 2.30) Ref		References
Race/ethnic	ity				
Black, NH	1.53 (0.81 - 2.89)	1.36 (0.87 - 2.12)	0.99 (0.61 - 1.60)		Edelstein ZR, et al. Results from the HIV Home Test Giveaway, New
Hispanic	1.19 (0.77 - 1.84)	1.18 (0.85 - 1.63)	0.74 (0.51 - 1.07)		York City, 2015. Oral abstract presented at APHA Annual Meeting
Other ²	0.75 (0.46 - 1.20)	0.60 (0.41 - 0.87)	0.55 (0.35 - 0.88)		and Expo, November 2 2016. Denver, CO. Abstract #353199.
White, NH	Ref	Ref	Ref		Myers JE, et al. Availability, Accessibility, and Price of Rapid HIV
Income		<u>.</u>	_		Self-Tests, New York City Pharmacies, Summer 2013. <i>AIDS Behav</i> .
≥\$40,000	1.66 (1.14 - 2.41)	1.49 (1.12 - 1.97)	1.54 (1.11 - 2.15)		Published online: Nov 1 2016 (DOI 10.1007/s10461-016-1594-4).
<\$40,000	Ref	Ref	Ref		
Time since lo					Acknowledgements
≤ 1y ago	2.73 (1.67 - 4.46)	2.21 (1.45 - 3.38)	5.59 (2.64 - 11.86)		y Varma, Amina Khawja, Jay Bala, Reyes Garcia
> 1y ago	1.85 (1.08 - 3.16)	1.20 (0.76 - 1.90)	2.83 (1.28 - 6.25)		izman, Grant Roth, Arjee Restar, Paul Santos,
Never test	ed Ref	Ref	Ref		hisha Gandhi, Adriana Andaluz, Paul Kobrak, Ben
aOR: adjusted	d odds ratio; NH: Non-Hisp	banic	Bold = p<0.05		oi, Estella Yu, Jennifer MacGregor, Monica

*Adjusted for age, race/ethnicity, education, and income. ¹Pharmacy exposure is defined as having ever seen an HIV self-test at a pharmacy. ²Other race includes Asian/Pacific Islander; Native American; mixed race, non-Hispanic; and those reporting other race.



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