

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, \geq \$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% of res respectively (Figure 1)
- Age and race/ethnicity were a (Table, Figure 2)
- Income and time since last HIN

Other factors associated with aw

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

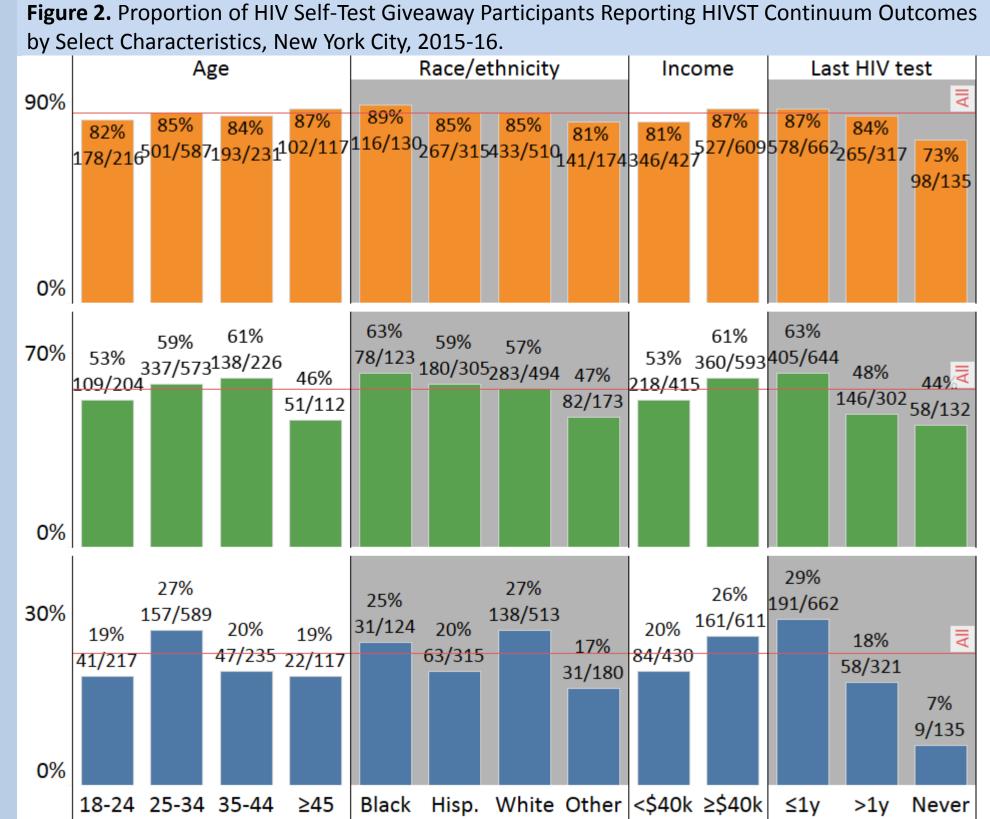
Other factors associated with ph

- Manhattan residence vs. othe
- Doctor's visit in the past year (
- PrEP use in the past 6 months
- HIV-positive partner in the past

Other factors associated with use

>1 CAS partner in the past 6 m

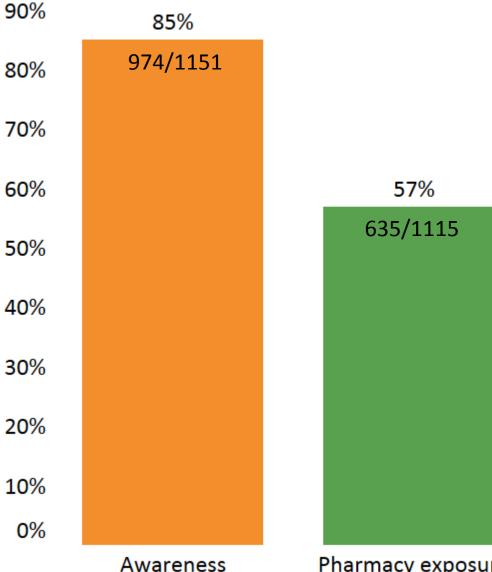
Other Factors not independently associated with any HIVST continuum outcomes include: education, sexual identity, insurance status, STI diagnosis and drug use in the past 6 months



^aCollected at eligibility; ^bCollected at follow-up

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Results			
espondents were aware of, had seen, and had used the HIVST,		gure 1. Pi ontinuum	•
associated with pharmacy exposure and use, but not awareness		90%	
V test were associated across the continuum (Table, Figure 2)		80%	
vareness s [adjusted odds ratio (aOR) 1.85, 95% confidence interval (CI)		70%	
ist 6 months (aOR 2.35, CI 1.20-4.63)	ле %	60%	
ver (aOR 3.26, Cl 1.61-6.57) vR 2.10, Cl 1.05-4.18)	utcon	50%	
narmacy exposure er (aOR 1.37, Cl 1.05-1.79)	HIVST outcome	40%	
(aOR 1.43, Cl 1.02-2.01) s (aOR 2.10, Cl 1.49-2.97)	-	30%	
st 6 months (aOR 1.71, CI 1.13-2.58)		20%	
se nonths (aOR 1.68, Cl 1.22-2.31)		10%	



				Limitations
Figure 1. Proportion of HIV Self-Test Giveaway Participants Reporting HIVST		Reporting HIVST	Data based on self-report and thus subject to social desirability bias,	
Continuum Outc	omes, Overall, New `	York City, 2015-16.		recall error, or misrepresentation
				Advertisement and email recruitment strategy introduces self-
90%	85%			selection bias
201/	974/1151			 Convenience sample of those participating in a NYC HIVST giveaway and thus may not be generalizable to other settings or populations
80%				 Continuum does not account for all possible methods of HIVST
70%				access, though data (not shown) suggest the impact of alternative
, 0, 0				access pathways is minimal
s 60%		57%		Discussion
e 20 50%		635/1115		DISCUSSION
		00071110		• Overall, most respondents were aware of the HIVST prior to HTG,
no				but fewer had seen one in a pharmacy, and only 1 in 4 had ever
<u>40%</u>				used one
Ē				Associations with:
30%			23%	Income across the continuum suggest that socioeconomic
20%			267/1155	status may affect HIVST use through mechanisms beyond its
20/0			207/1155	cost Becant HIV testing across the continuum suggest that loss
10%				Recent HIV testing across the continuum suggest that less frequent testers may not be adequately informed about the
01/				HIVST
0%				• Recent CAS (awareness, use) suggest those at risk may have
A	wareness P	harmacy exposure	Use	greater access to HIVST
Table Select Ass	sociations with HIV/S	elf-Test Continuum Out	comes among HIV/ST	• The lack of association with insurance status across the continuum
	ipants, New York City			suggests that self-testing can provide a suitable alternative to
			I	those without adequate access to health care
	Awareness	Pharmacy exposure ¹		Further research to assess residual confounding is warranted
Characteristic	aOR* (95% CI)	aOR* (95% CI)	aOR* (95% CI)	
<i>Age</i> 18-24	0.82 (0.39 - 1.74)	1.79 (1.05 - 3.04)	1.49 (0.78 - 2.85)	 Ongoing HIVST Giveaways in NYC (6/2016-8/2016, 11/2016- 1/2017) may increase HIVST awareness and use, with the ultimate
25-34	0.86 (0.44 - 1.68)	1.82 (1.15 - 2.88)	1.88 (1.07 - 3.29)	goal of increased status awareness
35-44	0.69 (0.34 - 1.41)	1.97 (1.19 - 3.26)	1.23 (0.66 - 2.30)	
≥45	Ref	Ref	Ref	References
Race/ethnicity				
Black, NH	1.53 (0.81 - 2.89)	1.36 (0.87 - 2.12)	0.99 (0.61 - 1.60)	1. 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
White, NH	Ref	Ref	Ref	 and Expo, November 2 2016. Denver, CO. Abstract #353199. 2. Myers JE, et al. Availability, Accessibility, and Price of Rapid HIV
Other ²	0.75 (0.46 - 1.20)	0.60 (0.41 - 0.87)	0.55 (0.35 - 0.88)	Self-Tests, New York City Pharmacies, Summer 2013. AIDS Behav.
Income	Dof	Dof	Dof	Published online: Nov 1 2016 (DOI 10.1007/s10461-016-1594-4).
<\$40,000 ≥\$40,000	Ref 1.66 (1.14 - 2.41)	Ref 1.49 (1.12 - 1.97)	Ref 1.54 (1.11 - 2.15)	
Time since last	•	1.7J (1.12 - 1.J/)	1.34 (1.11 - 2.13)	Acknowledgements
$\leq 1y$ ago	2.73 (1.67 - 4.46)	2.21 (1.45 - 3.38)	5.59 (2.64 - 11.86)	
> 1y ago	1.85 (1.08 - 3.16)	1.20 (0.76 - 1.90)	2.83 (1.28 - 6.25)	Jay Varma, Amina Khawja, Jay Bala, Reyes Garcia
Never tested	Ref	Ref	Ref	Guzman, Grant Roth, Arjee Restar, Paul Santos,
aOR: adjusted od	ds ratio; NH: Non-Hispa	inic	Bold = p<0.05	Anisha Gandhi, Adriana Andaluz, Paul Kobrak, Ben
•	, race/ethnicity_educat		-	Tsoi, 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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Isol, Estella Yu, Jennifer MacGregor, Monica Gierada, Faiyaz Ahmed, Kathleen Weber, Rick Kula, Allison Miller-Coffin, OraSure, Grindr, Scruff, Facebook, Twitter, Gay Ad Network and HTG participants

