

Repeat Participation in a Free Home HIV Self-testing Service and Sexual Health: Home Test Giveaway (HTG), New York City

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Background

- HIV self-testing (HIVST) may increase HIV status awareness
- In 2015, the New York City Department of Health and Mental Hygiene (NYC DOHMH) implemented the HTG among men and transgender people who have sex with men (MTSM)
- HIVST kits sent at no cost, through the mail
- Entirely online recruitment, eligibility assessment, kit order, follow-up survey
- Two waves annually
- We report demographics and sexual health characteristics of participants with repeat enrollment in consecutive HTG waves

Methods

Home HIVST Model

- Participants recruited on dating applications and websites
- Eligibility determined via brief questionnaire: MTSM, age ≥18, NYC resident, no prior HIV diagnosis
- Eligible participants emailed discount codes to redeem a free home HIVST on the manufacturer's website
- ~2 months after HIVST distribution, participants recruited for follow-up survey (incentive: \$25 gift card)

Repeat participant data analysis

- Restricted to HTG waves conducted in Spring 2017 (May - July, 2017) and Winter 2017/18 (December 2017-March 2018)
- Repeat participation determined by email matching across waves
- Descriptive statistics performed on survey data from Winter 2017/18
- Sexual health characteristics analysis limited to participants who reported HTG HIVST use
- Matched-pair analysis performed on participants' responses to questions on sexual health (condomless sex in the past month, STI testing in the past 6 months, HTG effect on HIV testing schedule) to evaluate withinparticipant changes from Spring 2017 to Winter 2017/18 (McNemar's)

Figure 1. Example of Home Test Giveaway recruitment advertisement, NYC 2017-2018



Results

Characteristics of repeat participants as reported in Winter **2017/18** (Table 1)

- 25% of Winter 2017/18 participants previously participated in Spring 2017
- 78% were <35 years; 34% identified as Hispanic and 30% as White; 98% identified as a man; 89% identified as gay; 33% reported income <\$20,000
- 41% were uninsured, 45% had not seen a healthcare provider in the past 6 months, and 21% reported PrEP use in the past 6 months
- 21% reported willingness to pay retail price for a HIVST

Table 1. Characteristics of repeat participants of Home Test

Giveaway (HTG) as reported in Winter 2017/18, NYC

Winter 2017/18 participants who also

participated in Spring 2017

Characteristic

Age (years)

18-34

≥35

Race

Black

Asian

White

Other

Man

Gay

Bisexual

Other

Income

< \$20,000

≥ \$20,000

Insured

No

No

No

Self

Gave away

Not used

Uninsured

Health insurance

Healthcare visit in the past 6 months

Would pay retail price for an HIVST (~\$40)

PrEP use in the past 6 months

How was HIVST used

Gender

Woman

Transgender

Sexual identity

Gender non-conforming

Hispanic

Sexual health characteristics of repeat participants who reported using the HTG HIVST in Winter 2017/18 (Table 2)

- 17% reported condomless sex in the past month
- 65% reported not having STI testing in the past 6 months
- 72% reported testing for HIV sooner because of the

Within-subject matched-pair responses (Table 3)

- 14 of 31 (45%) participants who reported past-month condomless sex in Spring 2017 did not report this risk factor in Winter 2017/18
- There were no significant changes in response for 6month STI testing or HIV testing frequency

Table 2. Sexual health characteristics of repeat participants of Home Test Giveaway (HTG) who reported using the HIVST in Winter 2017/18, NYC

Characteristic	n/N	%
Condomless sex in past month		
Yes	59/340	17%
No	281/340	83%
STI testing in the past 6 months		
Yes	122/346	35%
No	244/346	65%
HTG effect on HIV testing schedule		
Tested for HIV sooner	184/257	72%
No change in HIV testing	62/257	24%
Tested for HIV later	11/257	4%

Table 3. Within-subject matched-pair analysis of sexual health survey responses, Spring 2017 and Winter 2017/18

Characteristic

%

78%

22%

19%

34%

11%

30%

5%

98%

<1%

1%

1%

10%

1%

33%

67%

45%

21%

21%

79%

84%

7%

9%

n/N

343/440

97/440

85/440

150/440

49/440

133/440

23/440

431/440

1/440

5/440

3/440

41/415

4/415

127/380

253/380

370/415 89%

244/414 59%

170/414 41%

234/425 55%

344/433 79%

191/425

89/433

73/353

280/353

356/422

29/422

37/422

440/1728 25%

			Winter 2017/18		
			Yes	No	Total
Condomless sex in the				14/31	
	Spring	Yes	17	(45%)	31
past month	2017				
*p=0.011		No	31 (12%)	225	256

			Winter 2017/18		
	_		Yes	No	Total
CTI I will be to the world				33/91	
STI testing in the past 6	Spring	Yes	58	(36%)	91
months	2017		31/199		
p=0.803		No	(16%)	168	199

		Winter 2017/18		
		Same/		
_		sooner	Later	Total
	Same/		3/108	
Spring	sooner	105	(3%)	108
2017		4/5		
	Later	(80%)	1	5
		Spring sooner 2017	Same/sooner Same/ Spring sooner 105 2017 4/5	Same/ sooner Later Same/ 3/108 Spring sooner 105 (3%) 2017 4/5

Limitations

- Data are based on self-report and subject to social desirability bias and recall error
- Follow-up survey was voluntary and respondents may not be representative of all repeat participants who received an HIVST
- Repeat participation criteria was limited to two HTG waves and did account for participation in all prior HTG waves
- Results of this giveaway may not be generalizable to other settings or populations

Discussion

- Home HIVST acceptability was high, with one quarter of participants participating in consecutive HTG waves
- Free home HIVST may benefit those of low income, limited healthcare resources, or unwilling to pay for an **HIVST**
- 6-month STI testing among repeat participants was low, but the majority reported testing for HIV sooner because of the HTG
- Nearly half of repeat participants who reported pastmonth condomless sex changed their response in the following wave
- Next steps include identifying and characterizing repeat participants across all 6 waves of the HTG to understand how to better serve MTSM in NYC who are utilizing the HTG and to improve promotion of sexual health resources and strategies

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