Correlates of Uptake of HIV Prevention Interventions Among Black MSM in DC, 2013-2014

A Mixed-Methods Investigation of Structural Barriers to Biomedical and Behavioral HIV Prevention Interventions

Matthew E. Levy¹, Christopher Chauncey Watson¹, Madhu Balachandran¹, Irene Kuo¹, Leo Wilton², Russell A. Brewer³, Sheldon D. Fields⁴, James Peterson¹, Manya Magnus¹

1The George Washington University Milken Institute School of Public Health, Washington, DC; 2Binghamton University, Binghamton, NY; 3Louisiana Public Health Institute, New Orleans, LA; 4Charles R. Drew University of Medicine and Science, Los Angeles, CA



Public Health

For more information: Matthew E. Levy mattelevy@gwu.edu 202 480 2345

CROI 2016 Poster 893

BACKGROUND

- Current modalities for the provision of HIV prevention interventions are failing to control the HIV epidemic among Black men who have sex with men (MSM).
- · Black MSM are newly diagnosed with HIV at a rate six times that of White MSM, yet this disparity is not adequately explained by racial differences in individual-level risk behaviors.
- · The disproportionately high HIV incidence among Black MSM is better attributed to gans in outcomes of the HIV prevention and care continuums, often in settings where there is a high HIV prevalence among the sexual partner pool of Black MSM.
- · Previous studies have found that Black MSM are less likely than White MSM to have access to health care, receive a prescription for preexposure prophylaxis (PrEP), and - among those living with HIV receive an HIV diagnosis and achieve and maintain viral suppression.
- Many sexually active Black MSM do not regularly test for HIV.
- Most HIV prevention interventions require interaction with health care infrastructure, yet it is often difficult for Black MSM to access culturally appropriate health care services that address psychosocial needs affecting uptake of HIV prevention interventions.

OBJECTIVE

• To identify correlates of uptake of HIV prevention interventions and explore structural barriers to accessing HIV prevention interventions

METHODS

- Self-reported, cross-sectional quantitative and qualitative data collected from two non-clinic-based samples of Black MSM in Washington, DC from 2013-2014 as part of an NIH-funded study.
- 1. Face-to-Face Sample of Black MSM with Barriers to Health Care:
- Recruitment: Men with barriers to health care were recruited using seed recruitment and incentivized chain peer referral. Seeds were identified via online recruitment (e.g., Adam4Adam), venue-based recruitment, and word of mouth.
- . Inclusion Criteria: ≥18 years old, Black male reporting a sexual experience with a male in the last year, lives in the DC area, and reports at least one barrier to health care in the last six months (i.e., did not access HIV testing, prevention, or care services; did not see primary care physician, or did not have one; was incarcerated; or was unable to get medical care at a time that he needed it).
- Data Collection: Data on health care experiences were collected using a quantitative computer-assisted self-interview (CASI) and an indepth semi-structured qualitative interview at a research clinic.
- Data Analysis: Compared proportions having received HIV prevention interventions by health care setting using Fisher's exact test. Transcribed 30 randomly selected qualitative interviews and identified relevant themes using a theoretical coding scheme.

2. Internet-Based Sample of Black MSM:

- Recruitment: Men were recruited irrespective of health care characteristics using Facebook and the distribution of recruitment materials to community-based organizations.
- Inclusion Criteria: ≥18 years old, Black male who identifies as gay or bisexual or who had sex with a man in the last year, and lives in the DC area.
- Data Collection: Online CASI collected data on the use of HIV prevention interventions, including history of PrEP use.
- Data Analysis: Correlates of lifetime PrEP uptake were assessed using multivariable logistic regression.

RESULTS

Table 1. Characteristics of two non-clinic-based samples of Black MSM in Washington, DC, 2013-2014 (N=168).

	Face-to-Face Sample with Barriers to	Internet-Based Sample (n=93)	
	Health Care (n=75)		
Variable	%	%	
Age (years)			
18-24	58.7	12.9	
25-29	25.3	30.1	
30-39	9.3	33.3	
≥40	6.7	23.7	
Used a condom the last time he had anal sex with a man	52.0	53.9	
Has health insurance	74.7	95.7	
HIV-positive	11.3	25.8	
Was offered an HIV test the last time he saw a health care provider for any reason ^a	50.0	58.0	
Health care settings accessed in the last 6-12 months ^b			
Community-based clinic	60.0	61.3	
Primary care doctor	21.3	49.5	
Acute care setting	36.0	41.9	
Mental health care setting	5.3	8.6	
HIV prevention interventions accessed in the			
last 6-12 months ^{a,b}			
HIV testing	76.1	88.4	
HIV counseling	23.9	22.6	
PrEP	7.5	30.4	
PEP	0	7.3	

Driving among those who reported to be HIV-negative.

Barticipants could provide more than one value for a response. Due to differences in the two CASIs, the time period specified was

Table 2. Proportions of Black MSM who received HIV prevention interventions in the last six months by health care setting (n=67).a

	clinics (n=39)	primary care providers (n=15)	(n=23)
HIV prevention intervention	%	%	%
Any ^b	89.7	53.3	43.5**
HIV testing	84.6	53.3	43.5
HIV counseling	38.5	0	0**
PrEP ^c	5.1	0	4.3
PEP	0	0	0

and talking to counselors that I got all my HIV information. Rarely, even when I h insurance, was it done through my medical provider. Like, all the HIV information I've ever learned was 99% [at an organization supporting sexual minority youth] and HIV counselors when they were doing testing. — Age 25, HIV-negative

is important to me. [Interviewer: And, have you ever brought that up in a doctor's visit?] . . . No. But maybe because you never get to the question and I never really brought that up. I probably brought that up at STD clinics, but not at my doctor visit, no . . Because probably they say that I wanted to do some blood work. And that's it. Go see your lab or wasn't a concern for them to ask that question first - Age 28, HIV-negative

When you are Black and you are gay, now that I actually think about it, it is kind of weird when you have to answer the questions that the doctors ask you, like sex with another man, things like that. When they ask you your HIV status and stuff like that: I don't know. It's kind of, it's nothing sad, but it's kind of like a fear that they are judging you because you are Black and gay. That there is higher chance that you have HIV - Age 23, HIV-negative

RESULTS (continued)

OB (0E% CI) 2OB (0E% CI)b

Table 3. Correlates of PrEP uptake among Black MSM (n=69).^a

Variable	OR (95% CI)	aOR (95% CI)"
<30 years old	4.46 (1.59, 12.54)**	5.51 (1.25, 24.32) [*]
Had 5 or more sexual partners in the last year	2.98 (0.91, 9.74)	4.01 (0.83, 19.32)
Used a condom the last time he had sex with a man	0.69 (0.26, 1.84)	
Has private insurance	0.25 (0.08, 0.76)*	0.12 (0.02, 0.69)*
Trusts advice about health issues from his social network ^c	2.16 (0.78, 6.01)	5.65 (1.14, 27.98) [*]
Believes the health care provider he usually sees is competent ^c	1.33 (0.30, 5.85)	
Trusts his health care provider ^c	1.57 (0.43, 5.71)	
Believes it is easy to get his needs met during health care visits ^c	1.20 (0.36, 4.06)	
Believes his health care provider thinks less of him for being Black ^c	2.71 (0.69, 10.71)	
Believes his health care provider thinks less of him for having sex with men ^c	1.68 (0.44, 6.47)	
Was offered an HIV test the last time he saw his health care provider	1.82 (0.67, 4.96)	6.92 (1.25, 38.16) [*]
Was unable to get health care he needed in the last year	1.60 (0.21, 12.09)	
Went to a community-based clinic in the last year	4.67 (1.56, 13.93)**	
Went to a primary care doctor in the last year	0.93 (0.35, 2.44)	
Went to an acute care setting in the last year	2.15 (0.80, 5.80)	
1		

[&]quot; p<0.05; " p<0.01; "" p<0.001.

Figure 1. Participant quotes representative of barriers to uptake of HIV prevention interventions in primary care settings.

Anytime if I had an HIV test, I always had to let them [primary care provider] know . . . It wasn't part of young females and it just there, it was a lot of people that judge you for who you uncomfortable, so certain questions that you want to be a little bit intimidated by Age 27, HIV-negative

health], but I have no problems bringing it up myself . . . I felt the doctor was unco I felt I made him uncomfortable with the someone just being open with it [and] telling him, but he seemed a little taken back when presented it to him . . . It could have affected omeone [a patient]. It could have made then feel like 'well damn, when I do try to tell someone, this is the reaction I aet. – Age 38. HIV-negative

he said, 'Oh okay,' and he just circled something on a piece of paper. And I guess they just did the test. But he never discussed just acknowledged my request . . . In that moment, I wasn't necessarily comfortable

RESULTS (continued)

Among Black MSM in the face-to-face sample:

 A higher proportion of HIV-negative men who sought care at community-based clinics received HIV prevention interventions at these visits (90%) compared to those who accessed primary (53%) or acute care (44%) settings (p=0.005).

Among Black MSM in the Internet-based sample:

- Independent correlates of lifetime PrEP uptake among HIV-negative
 - Being less than 30 years of age (aOR=5.51; 95% CI: 1.25, 24 32)
 - . Not having private insurance (aOR=0.12; 95% CI: 0.02,
 - · Trusting advice about health issues from his social network (aOR=5.65; 95% CI: 1.14, 27.98)
 - · Having been offered an HIV test the last time he saw his health care provider for any reason (aOR=6.92; 95% CI: 1.25, 38,16).
- Having accessed a community-based clinic in the last year was associated with lifetime PrEP uptake in bivariable analysis (OR=4.67; 95% CI: 1.56, 13.93), but not in multivariable analysis.

In qualitative interviews:

- Black MSM reported experiencing structural barriers to accessing HIV prevention interventions in primary care settings:
 - · Experiences of stigma due to one's sexual identity and/or nerceived HIV risk
 - · Difficulty disclosing one's risk behavior and discussing sexual health without fear of judgment
 - Low cultural competency of providers for facilitating routine access to biomedical and behavioral HIV prevention interventions.
- · Men expressed preferences for receiving HIV prevention interventions at community-based clinics that are known to have culturally competent providers.

CONCLUSIONS

- In a non-clinic-based sample of Black MSM, reported uptake of HIV prevention interventions was highest in community-based clinics that were culturally sensitive to the unique health needs
- Having access to health insurance and to health care does not necessarily facilitate uptake of HIV prevention interventions for Black MSM.
- It is critical that all health care encounters regardless of the setting support the use of HIV prevention interventions by removing structural barriers for those at highest risk of HIV.

ACKNOWLEDGEMENTS

We thank colleagues Vittoria Criss, Kyle Gordon, Alexander King, and Dr. Sara Glick for their work on this project. Research reported in this poster was supported by the National Institute of Mental Health of the National Institutes of Health (NIH) under Award Number R21 MH097586. This work was made possible with resources provided by the District of Columbia Center for AIDS Research (DC CFAR), an NIH-funded program (AI117970; Al087714). We also thank all study participants for their participation in this study

THE GEORGE WASHINGTON UNIVERSITY

by one type of health care setting in the last six months, so that comparison group were incomplement and mutually exclusive.

We regardly experience the face of the face to the subsample of men who experienced barriers to health care.

Well prevention intermedient uses defined as 10 Westing, MV counsilies, PFI) or PFI. and the participant who reported taking PFI were not included in this analysis because they reported obtaining PFIP were not included in this analysis because they reported obtaining PFIP from a research and student health career, which were only included in the categories created to represent type of health care setting.

[•] Includes HIV-negative participants in the internet-based sample of men, 27 of whom reported ever having taken f * Variables with 0-0.25 were considered for inclusion in the multivariable model and were removed in manufact prodeling until all variables had p-0.10.
* Endosrement of these health; case beliefs was defined as a response 251 on a visual analogue scale from 0 to 100.