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Evaluating racial and ethnic disparities in access to primary care among gay and bisexual men in the US, a population at high-risk of HIV infection

Jessica S. Kiernan Virginia Commonwealth University

April D. Kimmel Virginia Commonwealth University

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Jessica Kiernan MS, April Kimmel, PhD VCU School of Medicine and Department of Health Behavior and Policy

Introduction

- > Over 26,000 gay and bisexual men were newly infected with 69% of all diagnoses.¹ Significant racial and ethnic disparities increasing within this population with reductions in new diagr exclusively driven by non-Hispanic White (NHW) gay and bisexu
- \succ Primary care providers play an increasing role in the delivery of HIV preventive through integration of these services into routine primary care.^{3,4} However, this may negatively impact access to these resources for individuals with less access to primary care.
- Concern for racial and ethnic groups who historically utilize primary care at lower levels than NHW individuals.⁵ Impact may be far greater on racial and ethnic minorities who identify as gay and bisexual, given additional disparities in primary care access and utilization experienced by this population compared to heterosexual men.⁶
- To date, no body of work has quantitatively evaluated differences by race or ethnicity in access to primary care, specifically for self-identifying gay and bisexual men at a national level. Differences should raise concern about equitable distribution and uptake of HIV prevention resources

Objective

- \succ Assess the relationship between racial and ethnic minority status, specifically for Non-Hispanic Black (NHB) and Hispanic individuals, and measures of access to primary care among self-identifying gay and bisexual men.
- > H1: NHB and Hispanic gay and bisexual men will report less access to primary care than NHW gay and bisexual men.

Methods

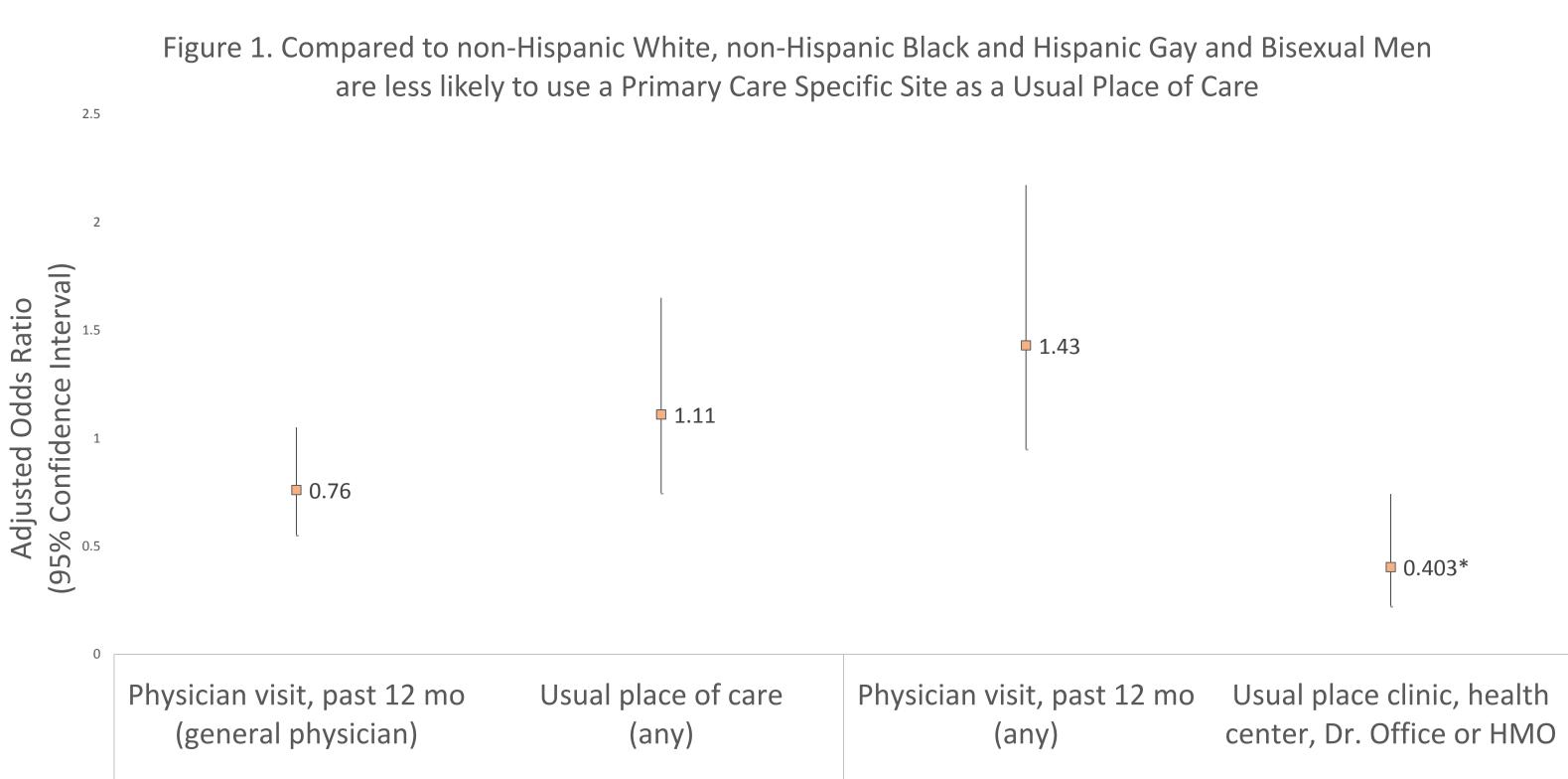
- \succ We used nationally representative person-level sociodemographic, health status, and health utilization data, data on organizational- and socially determinant barriers to care, from the National Health Interview Survey, 2013-2018.
- We used multivariable logistic regression to assess differences in primary care access for NHW versus NHB and Hispanic selfidentifying gay and bisexual men.
- Outcomes were: 1) general physician visit in past 12 months, and 2) any usual place of care.
- In sensitivity analysis, we used an alternative definition for physician visits (any provider type) and usual place of care (primary care specific).

GINIA COMMONWEAL Evaluating racial and ethnic disparities in access to primary care among gay and bisexual men in the US, a population at high-risk of HIV infection

HIV in 2018;						
exist and are						
noses almost						
kual men. ²						

Proportion, F-Test				Proportion, F-Test			
	Non-Hispanic White	Non-Hispanic Black & Hispanic	p-value		Non-Hispanic White	Non-Hispanic Black & Hispanic	p-v
Age		•		Chronic Disease Total			
-	42.85%	49.86%			72.29%	81.75%	
18-35	[0.397-0.461]	[0.449-0.549]	0.001	0-1	[0.690-0.754]	[0.774-0.854]	0.001
	35.57%	38.82%			27.71%	18.25%	
36-54	[0.326-0.387]	[0.342-0.437]		2+	[0.246-0.310]	[0.1457-0.226]	
	21.58%	11.31%		Mental Health Distress	60.0 <i>6</i> 0/	60.000 <i>/</i>	1
55-64	[0.191-0.243]	[0.084-0.150]		No to Mild Distance	60.06%	60.63%	
Education				No to Mild Distress	[0.565-0.6351] 12.77%	[0.549-0.661] 15.16%	
	19.30%	33.30%		Moderate Distress	[0.106-0.153]	[0.115-0.198]	0.451
High school edu or less	[0.168-0.221]	[0.285-0.384]	0.000		27.17%	24.21%	
	80.70%	66.70%		Serious Distress	[0.242-0.304]	[0.194-0.297]	
Some college plus	[0.780-0.832]	[0.616-0.715]	L	Health Insurance (any)	[3.2.12.0.30.1]	[0:10:0:201]	
Employment					89.47%	77.42%	
	75.66%	69.88%		Insured	[0.873-0.913]	[0.723-0.818]	
employed	[0.727-0.784]	[0.648-0.746]	0.041		10.53%	22.58%	0.
	24.34%	30.12%		Uninsured	[0.087-0.127]	[0.182-0.277]	
unemployed	[0.217-0.273]	[0.255-0.352]	<u> </u>		14.86%	15.98%	
Income	42.000			Experienced >1 Org. Barrier	[0.125-0.177]	[0.117-0.214]	0.0
	12.06%	15.85%			23.07%	42.56%	0
<15 k	[0.101-0.143]	[0.124-0.201]		Experienced >1 Soc. Det. Barrier	[0.204-0.260]	[0.368-0.485]	
	17 //0/	JJ 200 /	1	Experienced >1 50c. Det. Damei	[0.204-0.200]	[0.308-0.485]	
15 24000	17.44% [0.150-0.202]	22.32%			[0.204-0.200]	[0.306-0.465]	
15-34999	[0.150-0.202]	[0.177-0.277]			[0.204-0.200]	[0.308-0.483]	<u> </u>
	[0.150-0.202] 14.44%	[0.177-0.277] 16.37%		<u> </u>			icna
15-34999 35-54999	[0.150-0.202] 14.44% [0.122-0.171]	[0.177-0.277] 16.37% [0.125-0.212]	0.049	Table 2. Unadju			ispa
35-54999	[0.150-0.202] 14.44% [0.122-0.171] 14.96%	[0.177-0.277] 16.37% [0.125-0.212] 13.15%	0.049	Table 2. Unadju	isted Outco	omes, Non-H	-
	[0.150-0.202] 14.44% [0.122-0.171]	[0.177-0.277] 16.37% [0.125-0.212]	0.049	<u> </u>	isted Outco	omes, Non-H	•
35-54999	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178]	0.049	Table 2. Unadju White vs. Non-	isted Outco	omes, Non-H	-
35-54999 55-74999	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95%	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51%	0.049	Table 2. Unadju	isted Outco	omes, Non-H	-
35-54999 55-74999	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146]	0.049	Table 2. Unadju White vs. Non-	isted Outco	omes, Non-H	-
35-54999 55-74999 75-99999	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14%	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80%	0.049	Table 2. Unadju White vs. Non-	isted Outco	omes, Non-H	-
35-54999 55-74999 75-99999 10000+ Region	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87%	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75%	0.049	Table 2. Unadju White vs. Non-	isted Outco	omes, Non-H	-
35-54999 55-74999 75-99999 10000+	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223]	0.049	Table 2. Unadju White vs. Non- Bisexual Men	isted Outco Hispanic Bl	omes, Non-H ack & Hispar	nic G
35-54999 55-74999 75-99999 10000+ Region Northeast	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14%	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90%	0.049	Table 2. Unadju White vs. Non- Bisexual Men	isted Outco	omes, Non-H ack & Hispar	nic G
35-54999 55-74999 75-99999 10000+ Region	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202]	0.049	Table 2. Unadju White vs. Non- Bisexual Men	isted Outco Hispanic Bl	omes, Non-H ack & Hispar	nic G
35-54999 55-74999 75-99999 100000+ Region Northeast North and Midwest	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40%	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86%		Table 2. Unadju White vs. Non- Bisexual Men	isted Outco Hispanic Bl	omes, Non-H ack & Hispar	nic G
35-54999 55-74999 75-99999 10000+ Region Northeast	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40% [0.271-0.339]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467]		Table 2. Unadju White vs. Non- Bisexual Men	Isted Outco Hispanic Bl	omes, Non-H ack & Hispar	nic G
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40% [0.271-0.339] 28.59%	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467] 25.49%		Table 2. Unadju White vs. Non- Bisexual Men	Isted Outco Hispanic Bl Non-Hispanic White 84.65%	omes, Non-H ack & Hispar Non-Hispanic Black & Hispanic	p-v
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South West	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40% [0.271-0.339]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467]		Table 2. Unadju White vs. Non- Bisexual Men	Isted Outco Hispanic Bl	omes, Non-H ack & Hispar	-
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40% [0.271-0.339] 28.59% [0.251-0.324]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467] 25.49% [0.209-0.307]		Table 2. Unadju White vs. Non- Bisexual Men Proportion, F-Test Main Analysis	Isted Outco Hispanic Bl Non-Hispanic White 84.65% [0.820-0.870]	Domes, Non-H ack & Hispar Non-Hispanic Black & Hispanic	p-v
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South West Health Status	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40% [0.271-0.339] 28.59% [0.251-0.324] 27.08%	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467] 25.49% [0.209-0.307] 28.27%		Table 2. Unadju White vs. Non- Bisexual Men Proportion, F-Test Main Analysis Has Usual Place of Care	Isted Outco Hispanic Bl Non-Hispanic White 84.65% [0.820-0.870] 72.67%	omes, Non-H ack & Hispar Non-Hispanic Black & Hispanic	р-v
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South West	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.267-0.389] 23.14% [0.202-0.264] 30.40% [0.271-0.339] 28.59% [0.251-0.324] 27.08% [0.243-0.301]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467] 25.49% [0.209-0.307] 28.27% [0.240-0.330]		Table 2. Unadju White vs. Non- Bisexual Men Proportion, F-Test Main Analysis	Isted Outco Hispanic Bl Non-Hispanic White 84.65% [0.820-0.870]	Domes, Non-H ack & Hispar Non-Hispanic Black & Hispanic	р-v
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South West Health Status	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40% [0.271-0.339] 28.59% [0.251-0.324] 27.08% [0.243-0.301] 35.98%	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467] 25.49% [0.209-0.307] 28.27% [0.240-0.330] 31.67%		Table 2. Unadju White vs. Non- Bisexual Men Proportion, F-Test Main Analysis Has Usual Place of Care	Isted Outco Hispanic Bl Non-Hispanic White 84.65% [0.820-0.870] 72.67%	Domes, Non-H ack & Hispar Non-Hispanic Black & Hispanic	р-v
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South West Health Status	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.267-0.389] 23.14% [0.202-0.264] 30.40% [0.271-0.339] 28.59% [0.251-0.324] 27.08% [0.243-0.301]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467] 25.49% [0.209-0.307] 28.27% [0.240-0.330]	0.003	Table 2. Unadju White vs. Non- Bisexual Men Proportion, F-Test Main Analysis Has Usual Place of Care Last Saw General Dr <12 m	Isted Outco Hispanic Bl Non-Hispanic White 84.65% [0.820-0.870] 72.67% [0.693-0.758]	Domes, Non-H ack & Hispar Non-Hispanic Black & Hispanic 77.84% [0.724-0.825] 60.59%	р-v
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South West Health Status	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40% [0.271-0.339] 28.59% [0.251-0.324] 27.08% [0.243-0.301] 35.98% [0.329-0.392]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467] 25.49% [0.209-0.307] 28.27% [0.240-0.330] 31.67% [0.270-0.367]		Table 2. Unadju White vs. Non- Bisexual Men Bisexual Men Proportion, F-Test Main Analysis Has Usual Place of Care Last Saw General Dr <12 m	Isted Outco Hispanic Bl Non-Hispanic White 84.65% [0.820-0.870] 72.67% [0.693-0.758] 96.00%	Dmes, Non-H ack & Hispar Non-Hispanic Black & Hispanic 77.84% [0.724-0.825] 60.59%	p-v
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South South West Health Status Excellent Very Good	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40% [0.271-0.339] 28.59% [0.251-0.324] 27.08% [0.243-0.301] 35.98% [0.329-0.392] 23.89%	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467] 25.49% [0.209-0.307] 28.27% [0.240-0.330] 31.67% [0.270-0.367] 24.06%	0.003	Table 2. Unadju White vs. Non- Bisexual Men Proportion, F-Test Main Analysis Has Usual Place of Care Last Saw General Dr <12 m	Isted Outco Hispanic Bl Non-Hispanic White 84.65% [0.820-0.870] 72.67% [0.693-0.758]	Domes, Non-H ack & Hispar Non-Hispanic Black & Hispanic 77.84% [0.724-0.825] 60.59%	p-v
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South South West Health Status Excellent Very Good	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40% [0.271-0.339] 28.59% [0.251-0.324] 27.08% [0.243-0.301] 35.98% [0.329-0.392] 23.89% [0.212-0.268]	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467] 25.49% [0.209-0.307] 28.27% [0.240-0.330] 31.67% [0.270-0.367] 24.06% [0.202-0.284]	0.003	Table 2. Unadju White vs. Non- Bisexual Men Bisexual Men Proportion, F-Test Main Analysis Has Usual Place of Care Last Saw General Dr <12 m	Isted Outco Hispanic Bl Non-Hispanic White 84.65% [0.820-0.870] 72.67% [0.693-0.758] 96.00% [0.944-0.972]	Non-Hispanic Black & Hispanic Non-Hispanic Black & Hispanic 77.84% [0.724-0.825] 60.59% 88.82% [0.838-0.924]	p-v
35-54999 55-74999 75-99999 10000+ Region Northeast North and Midwest South West West Health Status	[0.150-0.202] 14.44% [0.122-0.171] 14.96% [0.126-0.176] 10.95% [0.090-0.133] 30.14% [0.267-0.389] 17.87% [0.151-0.210] 23.14% [0.202-0.264] 30.40% [0.271-0.339] 28.59% [0.251-0.324] 27.08% [0.251-0.324] 27.08% [0.243-0.301] 35.98% [0.329-0.392] 23.89% [0.212-0.268] 10.23%	[0.177-0.277] 16.37% [0.125-0.212] 13.15% [0.096-0.178] 10.51% [0.075-0.146] 21.80% [0.170-0.276] 17.75% [0.140-0.223] 15.90% [0.124-0.202] 40.86% [0.352-0.467] 25.49% [0.209-0.307] 28.27% [0.240-0.330] 31.67% [0.270-0.367] 24.06% [0.202-0.284] 13.50%	0.003	Table 2. Unadju White vs. Non- Bisexual Men Bisexual Men Proportion, F-Test Main Analysis Has Usual Place of Care Last Saw General Dr <12 m	Isted Outco Hispanic Bl Non-Hispanic White 84.65% [0.820-0.870] 72.67% [0.693-0.758] 96.00%	Dmes, Non-H ack & Hispar Non-Hispanic Black & Hispanic 77.84% [0.724-0.825] 60.59%	p-v

- > The sample included a total of 1,867 gay and bisexual men (unweighted), aged 18-64 years, with 28% NHB or Hispanic. Compared to NHW men, a smaller fraction of NHB and Hispanic men had a general physician visit in the past 12 months and a usual place of care (p < 0.05).
- > After adjusting, NHB and Hispanic men were less likely have seen a general provider but our results were not significant (aOR=0.76, p=0.100) and there was no statistically significant difference in having a usual place of care (aOR=1.11, p=0.616) (Figure 1). Findings were sensitive to the specification of primary care site as usual place of care.



Baseline

Results. Descriptives and Unadjusted Outcomes

Men

Results

Sensitivity Analysis

Table 3. Adjusted Outc Odds Ratio and Conf

Primary Analysis Has a Usual Place of

Saw Gen Dr. <12 mor

Sensitivity Analysis Usual Place of Care Center, Dr. Office or Interval since last do months

- and entry into the primary care system.

https://www.cdc.gov/hiv/group/msm/index.html

- Areas, 2018 (Updated). 2018;31.



Results, Adjusted Outcomes

comes NHW vs. NHB & Hispanic Gay & Bisexual Men Infidence Interval, T-test								
	NHB or Hispanic	P-Value						
f Care	1.11 [0.743-1.65]	0.616						
onths	0.76 [0.548-1.05]	0.100						
Clinic, Health [·] HMO	0.403 [0.219-0.742]	0.004						
octor visit <12	1.43 [0.947-2.172]	0.088						

Discussion

> Outcome measures illustrate a distinct disparity in use of a primary care specific site of care as a usual place for NHB and Hispanic individuals compared to NHW. NHB and Hispanic individuals may also experience disparities in seeing a primary care physician, while there were no disparities in more general measures of access to any care.

Both findings need to be considered to improve access to HIV prevention among this population – two of the highest risk groups for HIV infection.

> HIV prevention should still be discussed and available where those at high-risk are likely to encounter it; emergency departments, urgent care centers and other outpatient settings. Acute care settings could be used to provide referrals and linkages to primary care services as a way to foster engagement

Additional research needed to determine other enabling (or disabling) factors that may be influencing access to primary care in this population, specifically if to become primary location of HIV prevention resources.

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