

Disparities Among Minority Men and Women in HIV Positivity Data and PrEP Uptake Data

Using Data to Guide Future Initiatives

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**Mount
Sinai**

*Institute for
Advanced Medicine*

Our Objectives

1. Who We Are
2. Review of HIV Incidence Data: Health Disparities
3. Pre-Exposure Prophylaxis Data
4. Discussion: New HIV Positive Data vs. PrEP Data
5. Overview of Current NYC PrEP Initiatives for Women
6. Discussion: What's Missing?

The Institute for Advanced Medicine

The Institute for Advanced Medicine provides compassionate, comprehensive care to individuals and families living with or affected by HIV. We offer our patients an extensive network of caring clinicians and supportive programs to meet their unique needs. In partnership with our patients, we help them achieve optimal health and well-being.

The Institute for Advanced Medicine (IAM)

- Six-site network of hospital and community-based clinics caring for more than 13,000 patients with and at-risk for HIV/AIDS
- Co-located, comprehensive services to reduce barriers and increase a patient centered approach to care
- Clinical services supported by approximately \$12M in grant funded programming



Health Disparities in Persons Living with HIV in New York City

Health Disparities in Persons Living with HIV/AIDS in New York City, 2014

DEMOGRAPHIC AND CLINICAL CHARACTERISTICS

TABLE 3.1: HIV/AIDS diagnoses and deaths occurring January 1, 2014 through December 31, 2014; and people diagnosed with HIV/AIDS, reported in New York City, and presumed to be living as of December 31, 2014

	HIV diagnoses ¹							AIDS diagnoses ³		PLWHA as of 12/31/2014		Deaths ⁴	
	Total		Without AIDS		Concurrent with AIDS diagnosis ²			N	%	N	%	N	%
	N	%	N	%	N	%	Row %						
Total	2,718	100.0	2,230	100.0	488	100.0	18.0	1,432	100.0	119,550	100.0	1,473	100.0
Sex at birth													
Male	2,194	80.7	1,822	81.7	372	76.2	17.0	1,040	72.6	86,651	72.5	1,019	69.2
Female	524	19.3	408	18.3	116	23.8	22.1	392	27.4	32,899	27.5	454	30.8
Race/Ethnicity⁵													
Black	1,193	43.9	961	43.1	232	47.5	19.4	745	52.0	52,792	44.2	755	51.3
Latino/Hispanic	875	32.2	721	32.3	154	31.6	17.6	434	30.3	38,795	32.5	515	35.0
White	500	18.4	421	18.9	79	16.2	15.8	198	13.8	24,775	20.7	188	12.8
Asian/Pacific Islander	117	4.3	99	4.4	18	3.7	15.4	41	2.9	2,343	2.0	12	0.8
Native American	7	0.3	7	0.3	0	0.0	0.0	3	0.2	261	0.2	2	0.1
Multiracial	26	1.0	21	0.9	5	1.0	19.2	11	0.8	212	0.2	1	0.1
Unknown	0	0.0	0	0.0	0	0.0	0.0	0	0.0	372	0.3	0	0.0
Age group (years)⁶													
0-12	5	0.2	5	0.2	0	0.0	0.0	2	0.1	142	0.1	0	0.0
13-19	104	3.8	101	4.5	3	0.6	2.9	16	1.1	802	0.7	0	0.0
20-29	915	33.7	833	37.4	82	16.8	9.0	228	15.9	9,488	7.9	34	2.3
30-39	719	26.5	594	26.6	125	25.6	17.4	342	23.9	17,177	14.4	91	6.2
40-49	515	18.9	382	17.1	133	27.3	25.8	394	27.5	31,084	26.0	258	17.5
50-59	316	11.6	221	9.9	95	19.5	30.1	320	22.3	38,727	32.4	562	38.2
60+	144	5.3	94	4.2	50	10.2	34.7	130	9.1	22,130	18.5	528	35.8
Borough of residence⁷													
Bronx	520	19.1	428	19.2	92	18.9	17.7	334	23.3	28,416	23.8	481	32.7
Brooklyn	747	27.5	593	26.6	154	31.6	20.6	386	27.0	29,111	24.4	411	27.9
Manhattan	668	24.6	554	24.8	114	23.4	17.1	294	20.5	31,776	26.6	303	20.6
Queens	464	17.1	386	17.3	78	16.0	16.8	194	13.5	17,613	14.7	157	10.7
Staten Island	45	1.7	33	1.5	12	2.5	26.7	25	1.7	2,301	1.9	57	3.9
Outside NYC	262	9.6	224	10.0	38	7.8	14.5	178	12.4	10,152	8.5	52	3.5
Unknown	12	0.4	12	0.5	0	0.0	0.0	21	1.5	181	0.2	12	0.8
Area-based poverty level⁸													
Low poverty (<10% below FPL)	258	9.5	204	9.1	54	11.1	20.9	124	8.7	12,509	10.5	97	6.6
Medium poverty (10 to <20% below FPL)	646	23.8	543	24.3	103	21.1	15.9	278	19.4	27,792	23.2	261	17.7
High poverty (20 to <30% below FPL)	846	31.1	685	30.7	161	33.0	19.0	415	29.0	35,099	29.4	449	30.5
Very high poverty (≥30% below FPL)	678	24.9	548	24.6	130	26.6	19.2	411	28.7	32,349	27.1	578	39.2
Area-based poverty level not available	290	10.7	250	11.2	40	8.2	13.8	204	14.2	11,801	9.9	88	6.0
Transmission risk													
Men who have sex with men (MSM)	1,620	59.6	1,387	62.2	233	47.7	14.4	580	40.5	46,153	38.6	271	18.4
Injection drug use history (IDU)	54	2.0	38	1.7	16	3.3	29.6	102	7.1	16,191	13.5	450	30.5
MSM-IDU	38	1.4	36	1.6	2	0.4	5.3	19	1.3	2,635	2.2	54	3.7
Heterosexual ⁹	501	18.4	385	17.3	116	23.8	23.2	346	24.2	23,665	19.8	296	20.1
Perinatal	5	0.2	5	0.2	0	0.0	0.0	19	1.3	2,507	2.1	15	1.0
Other	0	0.0	0	0.0	0	0.0	0.0	0	0.0	209	0.2	3	0.2
Unknown	500	18.4	379	17.0	121	24.8	24.2	366	25.6	28,190	23.6	384	26.1
Clinical history													
HIV-only	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	51,170	42.8	270	18.3
Ever AIDS diagnosis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	68,380	57.2	1,203	81.7

Health Disparities in Persons Living with HIV/AIDS in New York City, 2014

DEMOGRAPHIC AND CLINICAL CHARACTERISTICS

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Native American	7	0.3	7	0.3	0	0.0	0.0	3	0.2	261	0.2	2	0.1
Multiracial	26	1.0	21	0.9	5	1.0	19.2	11	0.8	212	0.2	1	0.1
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Area-based poverty level not available	290	10.7	250	11.2	40	8.2	13.8	204	14.2	11,801	9.9	88	6.0
Transmission risk													
Men who have sex with men (MSM)	1,620	59.6	1,387	62.2	233	47.7	14.4	580	40.5	46,153	38.6	271	18.4
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MSM-IDU	38	1.4	36	1.6	2	0.4	5.3	19	1.3	2,635	2.2	54	3.7
Heterosexual ⁹	501	18.4	385	17.3	116	23.8	23.2	346	24.2	23,665	19.8	296	20.1
Perinatal	5	0.2	5	0.2	0	0.0	0.0	19	1.3	2,507	2.1	15	1.0
Other	0	0.0	0	0.0	0	0.0	0.0	0	0.0	209	0.2	3	0.2
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Clinical history													
HIV-only	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	51,170	42.8	270	18.3
Ever AIDS diagnosis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	68,380	57.2	1,203	81.7

Health Disparities in Females with HIV/AIDS in New York City, 2014

HIV AMONG FEMALES

TABLE 6.1: HIV/AIDS diagnoses and deaths among females¹⁰, January 1, 2014 through December 31, 2014; and females diagnosed with HIV/AIDS, reported in New York City, and presumed to be living as of December 31, 2014

	HIV diagnoses ¹							AIDS diagnoses ³		PLWHA as of 12/31/2014		Deaths ⁴	
	Total		Without AIDS		Concurrent with AIDS diagnosis ²			N	%	N	%	N	%
	N	%	N	%	N	%	Row %						
Total	524	100.0	408	100.0	116	100.0	22.1	392	100.0	32,899	100.0	454	100.0
Race/Ethnicity⁵													
Black	346	66.0	266	65.2	80	69.0	23.1	264	67.3	19,243	58.5	268	59.0
Latino/Hispanic	132	25.2	107	26.2	25	21.6	18.9	99	25.3	10,628	32.3	157	34.6
White	33	6.3	24	5.9	9	7.8	27.3	23	5.9	2,450	7.4	26	5.7
Asian/Pacific Islander	8	1.5	7	1.7	1	0.9	12.5	4	1.0	381	1.2	2	0.4
Native American	1	0.2	1	0.2	0	0.0	0.0	1	0.3	71	0.2	1	0.2
Multiracial	4	0.8	3	0.7	1	0.9	25.0	1	0.3	41	0.1	0	0.0
Unknown	0	0.0	0	0.0	0	0.0	0.0	0	0.0	85	0.3	0	0.0
Age group (years)⁶													
0-12	1	0.2	1	0.2	0	0.0	0.0	0	0.0	75	0.2	0	0.0
13-19	23	4.4	22	5.4	1	0.9	4.3	3	0.8	387	1.2	0	0.0
20-29	100	19.1	93	22.8	7	6.0	7.0	36	9.2	2,049	6.2	9	2.0
30-39	133	25.4	104	25.5	29	25.0	21.8	88	22.4	4,249	12.9	34	7.5
40-49	128	24.4	99	24.3	29	25.0	22.7	122	31.1	9,086	27.6	80	17.6
50-59	87	16.6	53	13.0	34	29.3	39.1	95	24.2	11,237	34.2	186	41.0
60+	52	9.9	36	8.8	16	13.8	30.8	48	12.2	5,816	17.7	145	31.9
Borough of residence⁷													
Bronx	150	28.6	123	30.1	27	23.3	18.0	122	31.1	10,662	32.4	164	36.1
Brooklyn	179	34.2	131	32.1	48	41.4	26.8	114	29.1	9,782	29.7	137	30.2
Manhattan	76	14.5	57	14.0	19	16.4	25.0	57	14.5	5,027	15.3	70	15.4
Queens	69	13.2	56	13.7	13	11.2	18.8	46	11.7	4,679	14.2	45	9.9
Staten Island	13	2.5	7	1.7	6	5.2	46.2	6	1.5	791	2.4	22	4.8
Outside NYC	36	6.9	33	8.1	3	2.6	8.3	41	10.5	1,923	5.8	12	2.6
Unknown	1	0.2	1	0.2	0	0.0	0.0	6	1.5	35	0.1	4	0.9
Area-based poverty level⁸													
Low poverty (<10% below FPL)	31	5.9	19	4.7	12	10.3	38.7	25	6.4	1,951	5.9	25	5.5
Medium poverty (10 to <20% below FPL)	107	20.4	85	20.8	22	19.0	20.6	73	18.6	6,581	20.0	61	13.4
High poverty (20 to <30% below FPL)	166	31.7	124	30.4	42	36.2	25.3	109	27.8	10,284	31.3	153	33.7
Very high poverty (≥30% below FPL)	179	34.2	143	35.0	36	31.0	20.1	137	34.9	11,825	35.9	194	42.7
Area-based poverty level not available	41	7.8	37	9.1	4	3.4	9.8	48	12.2	2,258	6.9	21	4.6
Transmission risk													
Injection drug use history	26	5.0	19	4.7	7	6.0	26.9	39	9.9	5,411	16.4	145	31.9
Heterosexual ⁹	393	75.0	308	75.5	85	73.3	21.6	257	65.6	17,658	53.7	200	44.1
Perinatal	1	0.2	1	0.2	0	0.0	0.0	7	1.8	1,283	3.9	6	1.3
Other	0	0.0	0	0.0	0	0.0	0.0	0	0.0	99	0.3	1	0.2
Unknown	104	19.8	80	19.6	24	20.7	23.1	89	22.7	8,448	25.7	102	22.5
Clinical history													
HIV-only	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	13,521	41.1	89	19.6
Ever AIDS diagnosis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	19,378	58.9	365	80.4

PLWHA=People living with HIV/AIDS; FPL=Federal Poverty Level; n/a=Not applicable. All percents are column percents unless otherwise indicated.

¹⁻⁹Footnotes appear at the bottom of Table 3.1. ¹⁰Female sex assigned at birth.

HIV Testing Information: 2014-2015

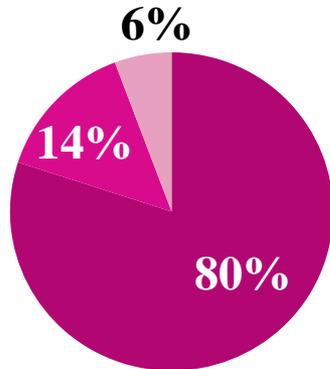
- ▶ A review of all new HIV diagnoses in 2014/2015
- ▶ From Mt. Sinai St. Luke's-Mt. Sinai West Hospital Systems
- ▶ Testing setting includes:
 - Two emergency rooms
 - Three HIV/AIDS specialty clinics
 - Inpatient floors
 - OB/GYN department

Institute for Advanced Medicine Rapid HIV Testing Data, 2014-2015

N= 35

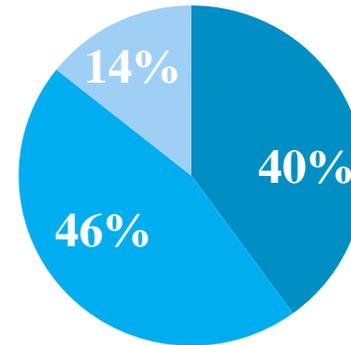
Sex

■ Male ■ Female ■ Transfemale



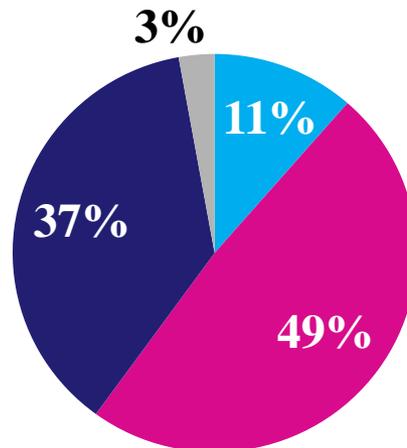
Age Groups

■ 18-29 ■ 30-45 ■ 46+



Race

■ White ■ Black ■ Hispanic ■ Asian

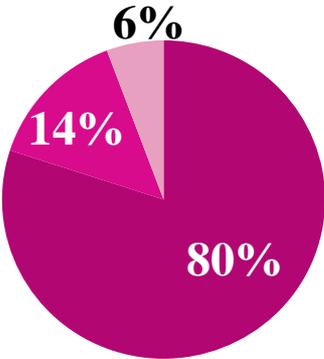


Institute for Advanced Medicine Rapid HIV Testing Data, 2014-2015

N= 35

Sex

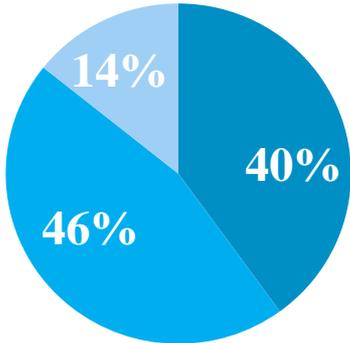
■ Male ■ Female ■ Transfemale



MALE

Age Groups

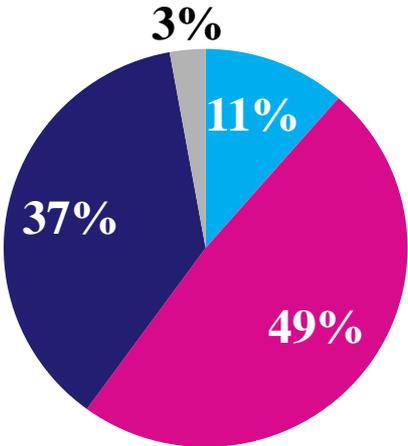
■ 18-29 ■ 30-45 ■ 46+



YOUNG

Race

■ White ■ Black ■ Hispanic ■ Asian



BLACK/HISPANIC

Pre-Exposure Prophylaxis (PrEP)

What Is Pre-Exposure Prophylaxis?

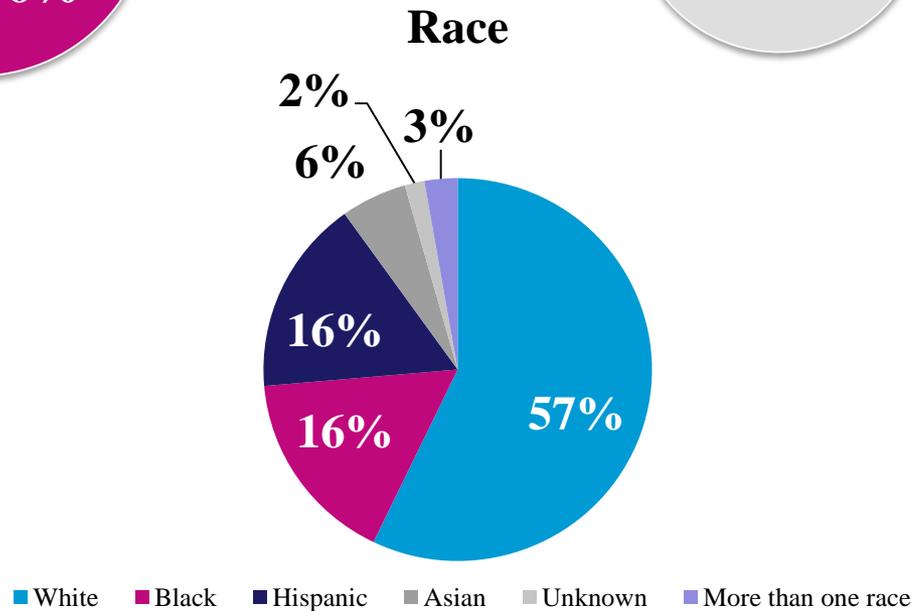
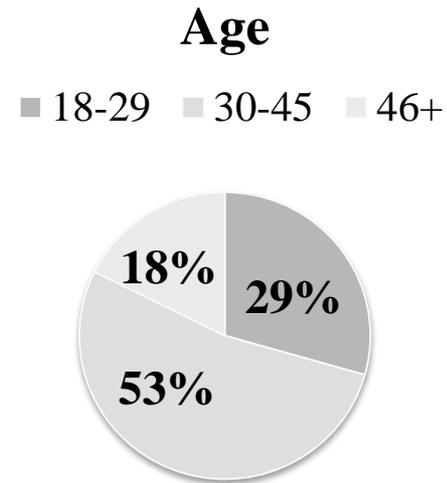
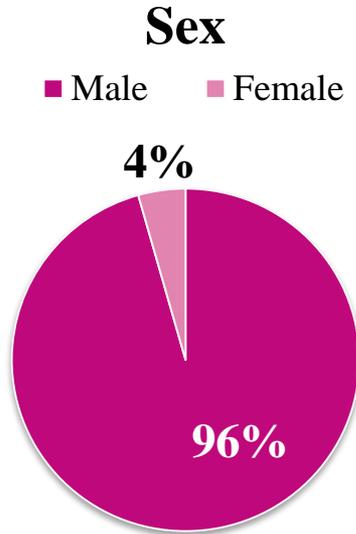
- The use of ART (specifically Truvada) for long-term use to continually provide an individual with protection from HIV infection.
- From the CDC: “When taken consistently, PrEP has been shown to reduce the risk of HIV infection in people who are at high risk by up to 92%.”

PrEP: Applications for Women

- ▶ For those in sero-different couples
- ▶ For those in partnerships with persons of unknown status
- ▶ For those wanting to have a child with a partner with HIV positive status
- ▶ For women who engage in high risk sex

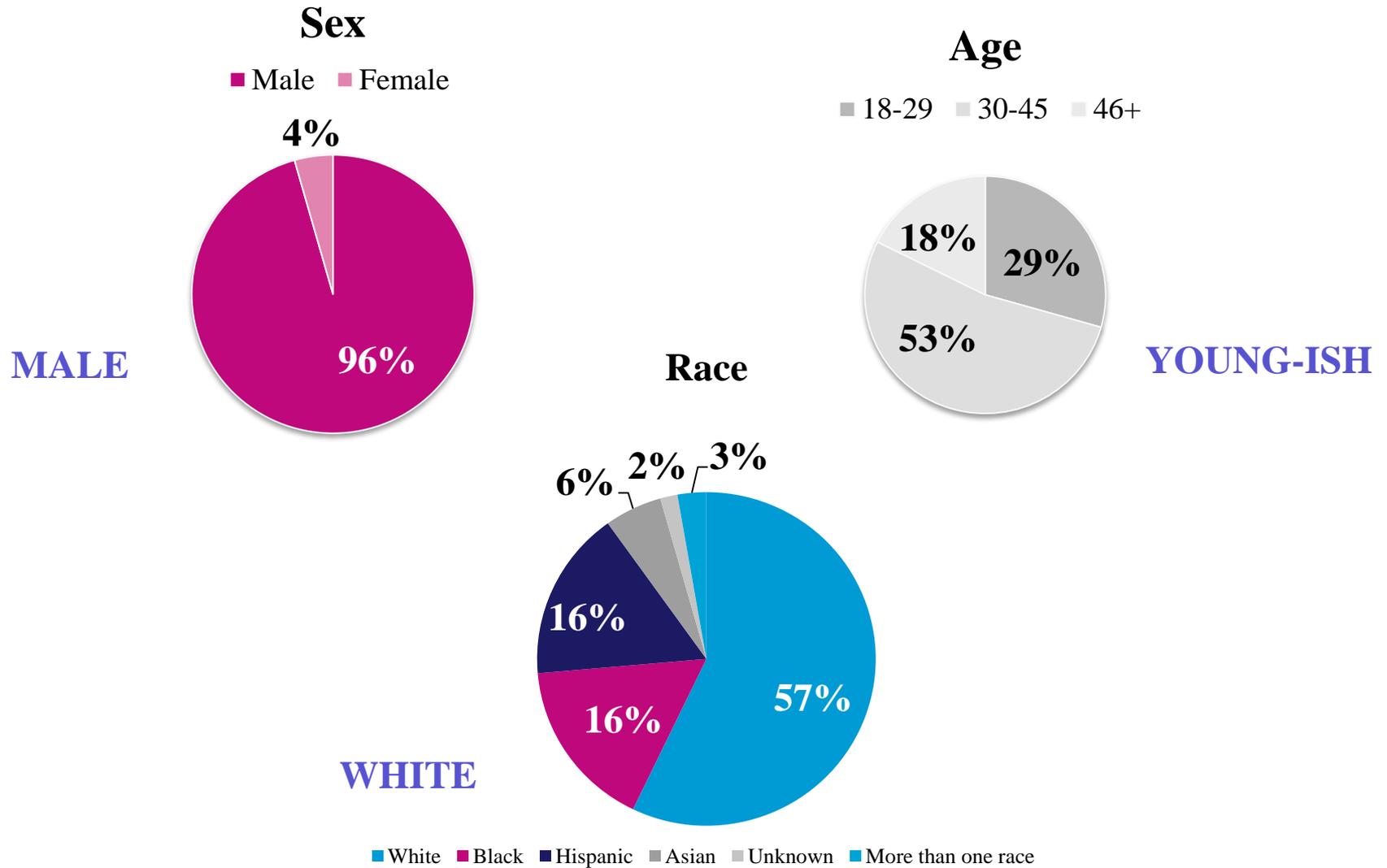
PrEP Uptake Data in Institute for Advanced Medicine Clinics, 2014-2015

N=182



PrEP Uptake Data in Institute for Advanced Medicine Clinics, 2014-2015

N=182



PrEP Uptake vs. New Diagnosis Data at the Institute for Advanced Medicine, 2015

- ▶ New Diagnosis: MALE, YOUNG, BLACK/HISPANIC
- ▶ On PrEP: MALE, YOUNG-ISH, WHITE

PrEP Uptake vs. New Diagnosis Data at the Institute for Advanced Medicine, 2015

- ▶ New Diagnosis: MALE YOUNG BLACK/HISPANIC
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Our Question: WHERE ARE THE WOMEN?

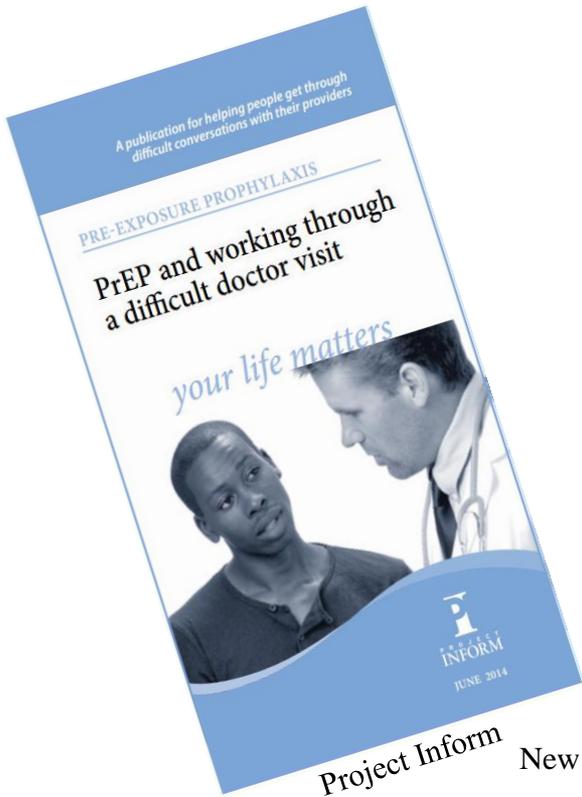
Question:

What are some potential reasons for the differences between Newly Diagnosed New Yorkers and New Yorkers who use PrEP?

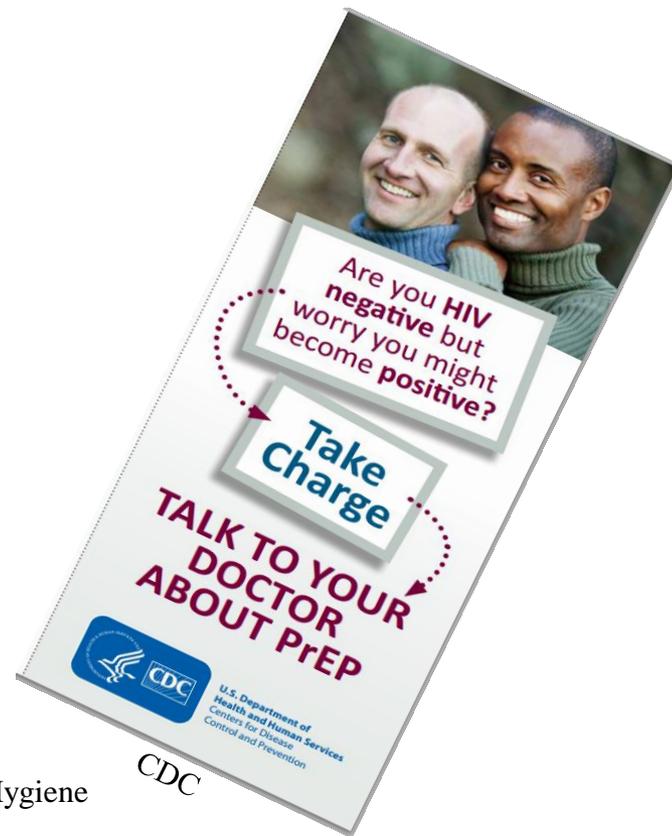
Identified Barriers to PrEP Use in Women of Color

- Lack of knowledge of PrEP
- Stigma
- Difficulty accessing PrEP where it is offered
- Difficulty attending the many required PrEP appointments due to other tasks (e.g., jobs, childcare)
- Medical mistrust

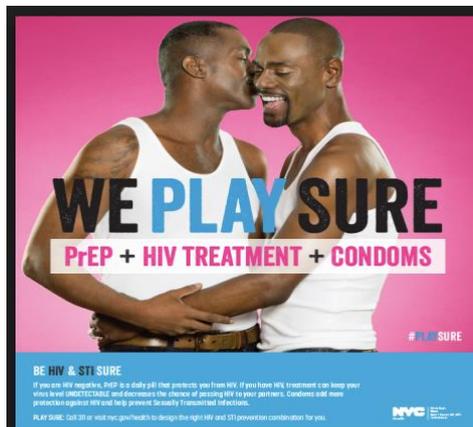
Current NYC PrEP Initiatives for Women



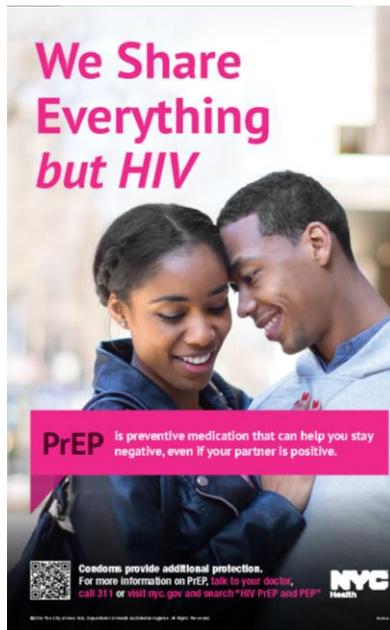
New York City Department of Health and Mental Hygiene



CDC



New York City Department of Health and Mental Hygiene



New York City Department of Health and Mental Hygiene



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*One pill a day to protect
yourself from HIV*



**Pre-Exposure
Prophylaxis (PrEP):
What You Need To
Know**

Question:

**What's missing from the current
NYC offerings for women?**

Identified Areas of Focus for PrEP Programs for Women

- ▶ Multi-layered approach (comprehensive education + advocacy + provider training + funding to support research and PrEP services)
- ▶ Connection in both traditional and non-traditional settings where women actually are
- ▶ Educational content and programs for female sub-populations (e.g., transwomen of color, young women of color, queer women of color)
- ▶ What else do you think?

Leveraging Data to Support Identification Of Gaps

- ▶ Data tells us the story of:
 - Who
 - What
 - Where
 - When
- ▶ Data can support requests for funding or a specific research focus
- ▶ Data shows us where we need to go

Question:

How are you going to leverage the information from this presentation to improve PrEP offerings for the women in your community?

Thank You!

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