



HIV IN THE SUBURBAN WASHINGTON REGION: AN EPIDEMIOLOGICAL PROFILE

**SUBURBAN WASHINGTON REGIONAL HPG MEETING
APRIL 29, 2015**

**Colin Flynn, Chief
HIV Surveillance, Epidemiology and Evaluation**

**Maryland Department of Health and Mental Hygiene
Prevention and Health Promotion Administration**

MISSION AND VISION



MISSION

- The mission of the Prevention and Health Promotion Administration is to protect, promote and improve the health and well-being of all Marylanders and their families through provision of public health leadership and through community-based public health efforts in partnership with local health departments, providers, community based organizations, and public and private sector agencies, giving special attention to at-risk and vulnerable populations.

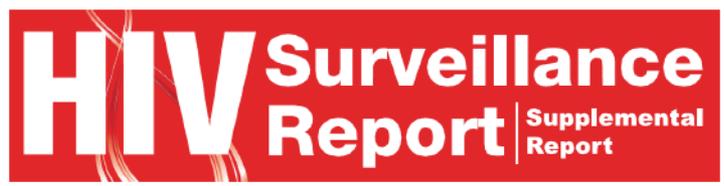
VISION

- The Prevention and Health Promotion Administration envisions a future in which all Marylanders and their families enjoy optimal health and well-being.



National Data

U.S. Prevalence



Volume 19, Number 3

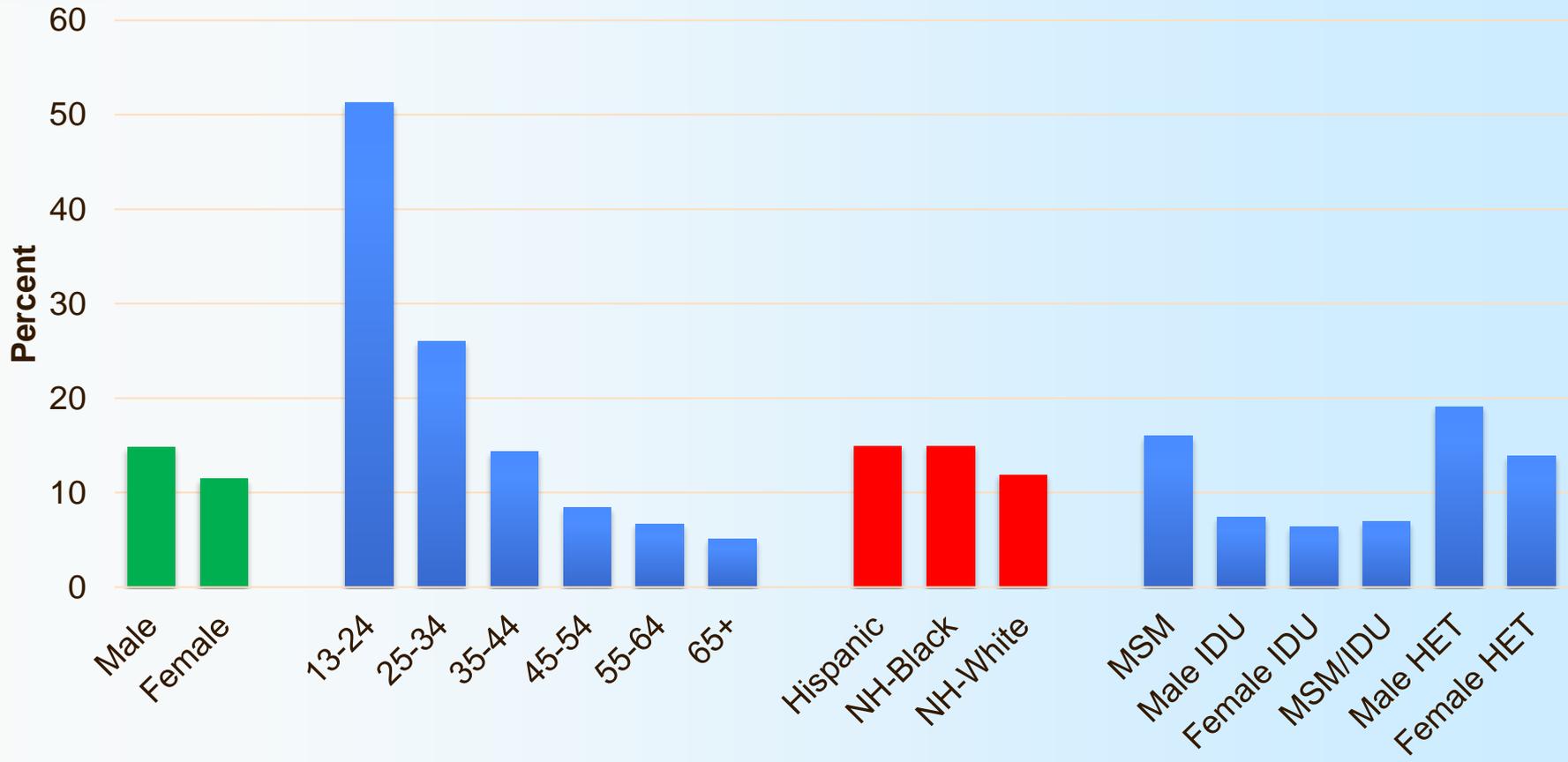
**Monitoring Selected National
HIV Prevention and Care Objectives
by Using HIV Surveillance Data—
United States and
6 Dependent Areas—2012**

- CDC estimated 1,201,100 adults/adolescents were living with HIV at the end of 2011
- 14.0% were undiagnosed

Undiagnosed Infections



Estimated percent undiagnosed HIV infections, U.S., age 13+, 2011



HIV Diagnoses during 2013 Ranked by Estimated Rates



<u>STATE/TERRITORY</u>	<u>Reported Cases</u>	<u>Estimated Cases</u>	<u>Estimated Rate per 100,000</u>
1. District of Columbia	486	612	94.6
2. Maryland	1,401	2,174	36.7
3. Louisiana	1,357	1,399	30.3
4. Georgia	1,877	3,020	30.2
5. Virgin Islands	23	29	28.0
6. Florida	5,200	5,377	27.5
7. New Jersey	1,392	2,177	24.5
8. Puerto Rico	607	761	21.1
9. New York	3,583	3,803	19.4
10. Texas	4,306	4,854	18.4
<i>United States</i>	<i>42,018</i>	<i>48,145</i>	<i>15.0</i>

HIV Diagnoses during 2013 Ranked by Estimated Rates



<u>METROPOLITAN AREA</u>	<u>Reported</u> <u>Cases</u>	<u>Estimated</u> <u>Cases</u>	<u>Rate per</u> <u>100,000</u>
1. Miami-Fort Lauderdale-West Palm Beach, FL	2,502	2,582	44.3
2. New Orleans-Metairie, LA	521	538	43.4
3. Baltimore-Columbia-Towson, MD	650	1,010	36.5
4. Baton Rouge, LA	288	297	36.2
5. Atlanta-Sandy Springs-Roswell, GA	1,214	1,919	34.7
6. Washington-Arlington-Alexandria, DC-VA-MD-WV	1,482	1,995	33.5
7. Memphis, TN-MS-AR	393	413	30.8
8. Jackson, MS	164	170	29.5
9. Jacksonville, FL	361	373	26.8
10. Orlando-Kissimmee-Sanford, FL	584	604	26.6
22. Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	1,098	1,225	20.3
<i>United States*</i>	<i>41,994</i>	<i>48,114</i>	<i>15.0</i>

* 50 states, DC, and Puerto Rico, only.
CDC. HIV Surveillance Report, 2013. Vol. 25. Table 22.

Maryland STI Ranking



	2013		
	MD Ranking	MD Rate	U.S. Rate
Syphilis (primary & secondary)	5th	7.7 (456 cases)	5.5
Gonorrhea	21st	101.8 (5,989 cases)	106.1
Chlamydia	20th	454.1 (26,723 cases)	446.6

Syphilis, gonorrhea, and chlamydia rates are cases per 100,000
 Source: Centers for Disease Control and Prevention



State Data



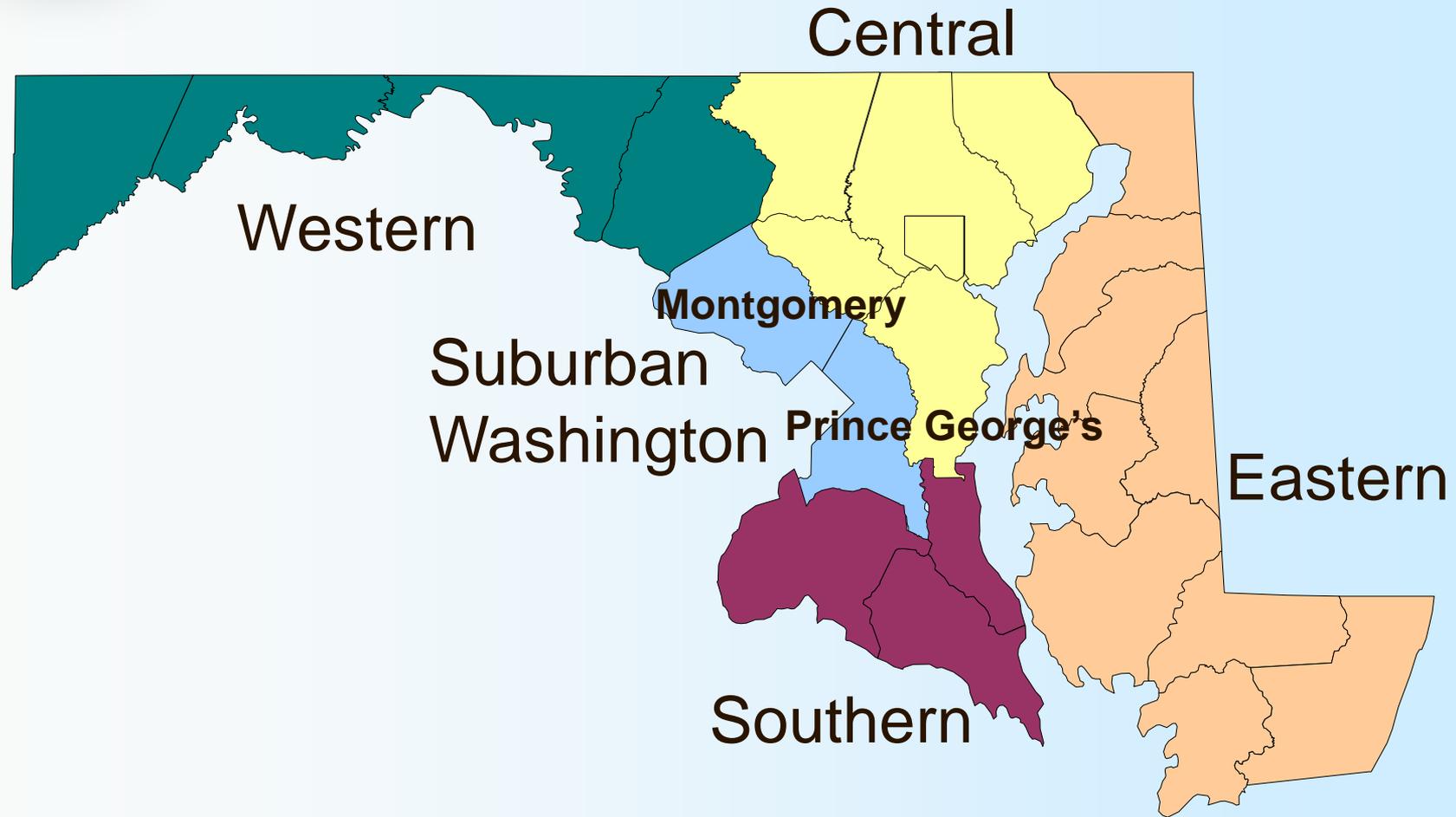
Maryland Adult/Adolescent HIV Statistics



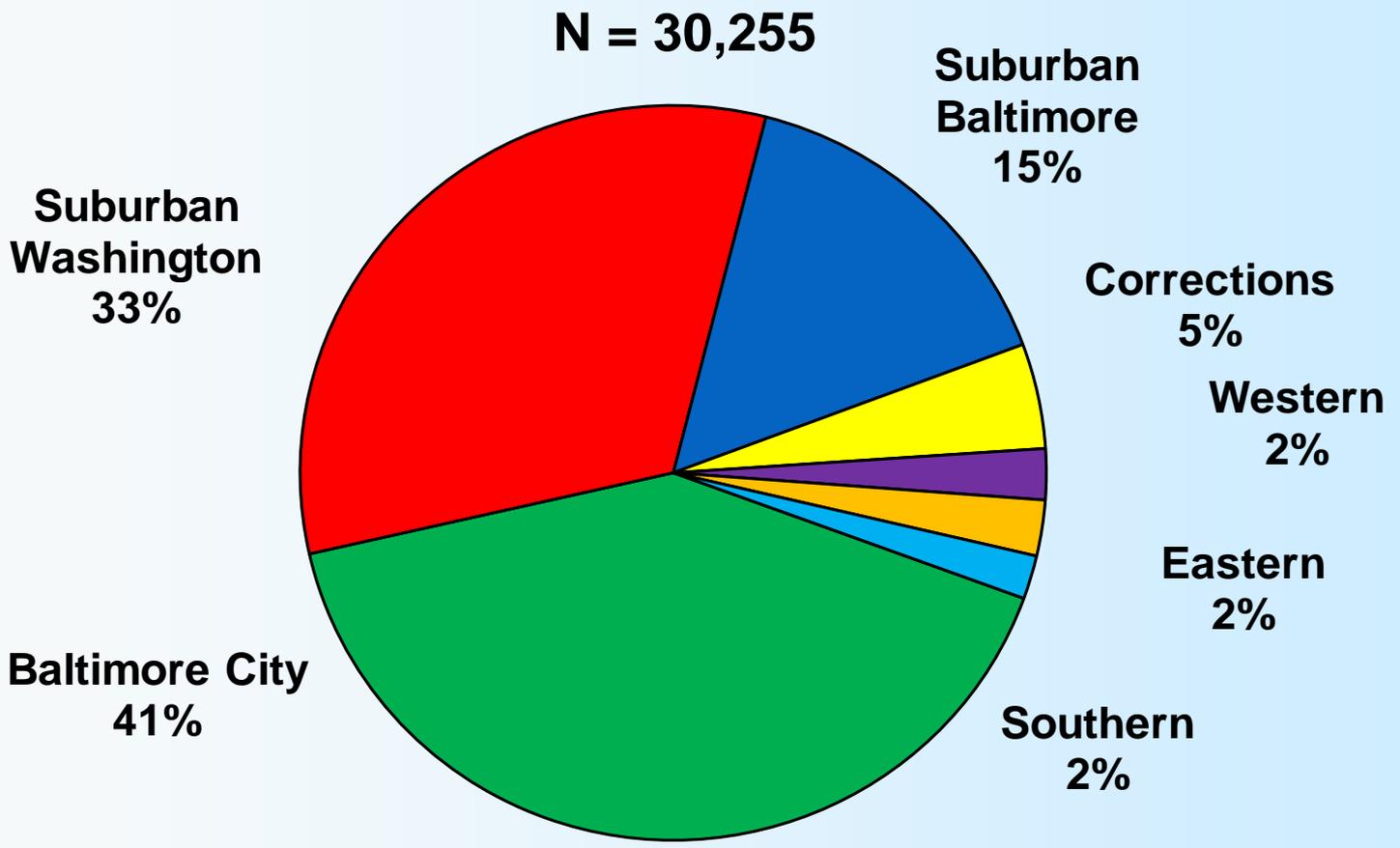
Reported Diagnoses (during 2013)	No.	per 100,000	
HIV	1,394	28.1	
AIDS	945	19.0	
Deaths Among AIDS Cases (during 2013)	No.		
	388		
Living Cases (on 12/31/2013)	No.	per 100,000	1 in X
HIV without AIDS	13,595	273.9	
HIV with AIDS	16,660	335.6	
Total HIV	30,255	609.5	164

Using data as reported through 12/31/2014

Maryland HIV Planning Group Regions



Maryland Adult/Adolescent Living HIV Cases by Region, 12/31/13



Using data as reported through 12/31/2014



Regional Data

HIV/AIDS Trends

Suburban Washington Region



Number of Events

1,000
900
800
700
600
500
400
300
200
100
0

2006-2008 HIV high,
due to reporting transition

1985 1987 1989 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013

Year of Diagnosis or Death

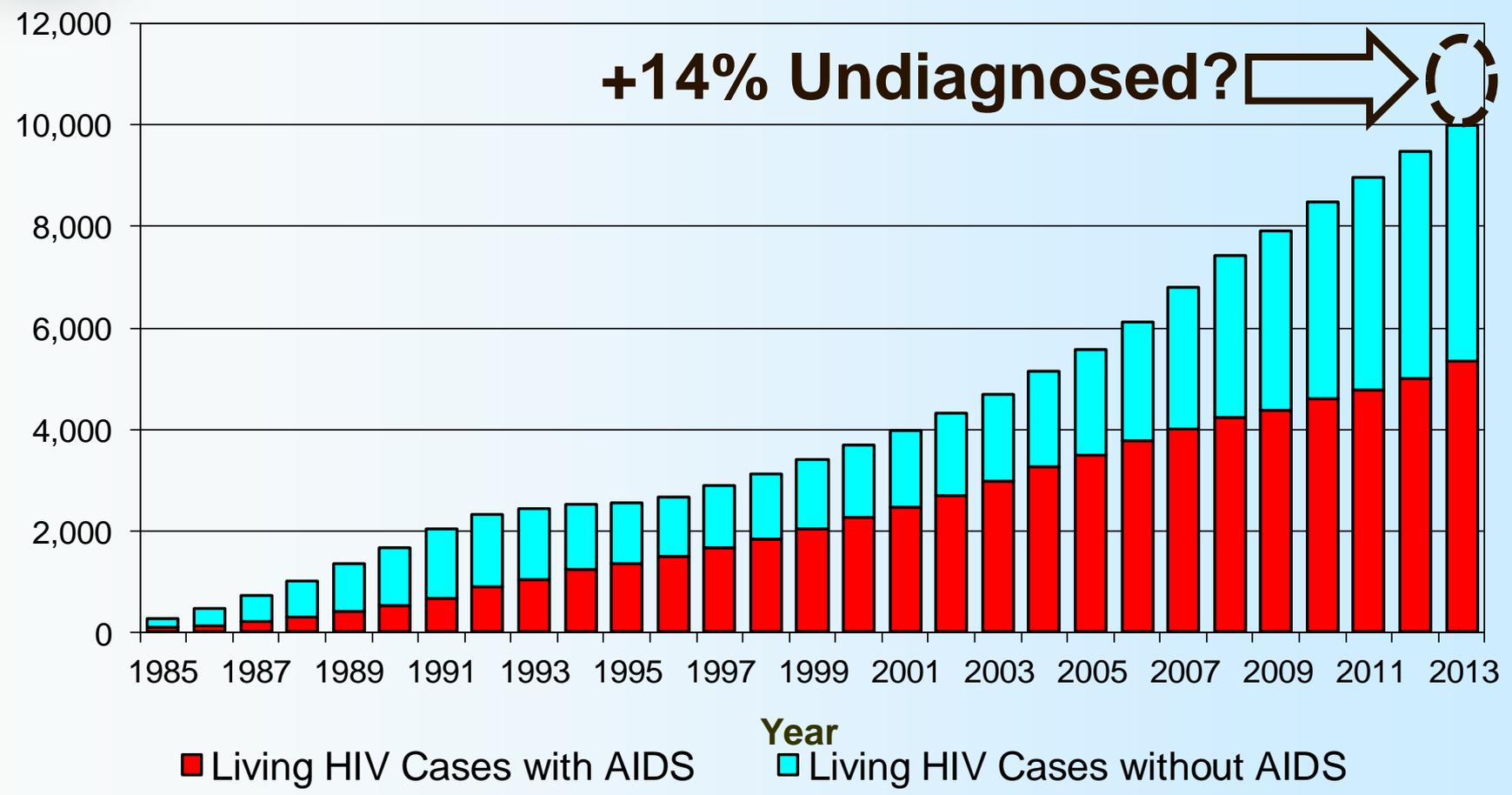
▲ Reported HIV Diagnoses ● Reported AIDS Diagnoses ■ Reported AIDS Deaths

Using data as reported through 12/31/2014

Living HIV Cases Suburban Washington Region



Number of Cases



Using data as reported through 12/31/2014

HIV Statistics

Adult/Adolescent Cases

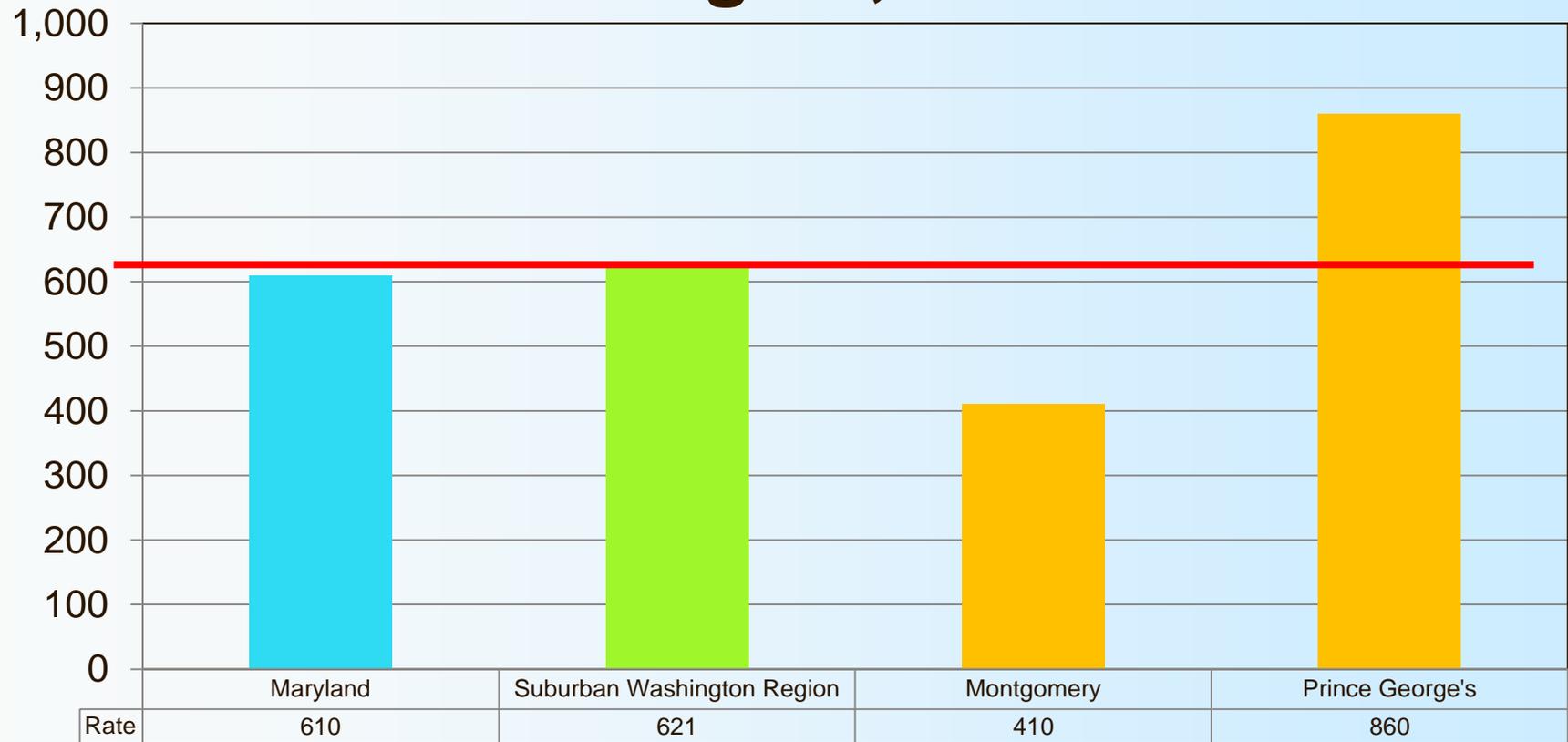
Suburban Washington Region



	HIV Diagnoses during 2013	Living HIV Cases on 12/31/2013
Suburban Washington Region	613	9,846
Montgomery	198	3,459
Prince George's	415	6,387

Using data as reported through 12/31/2014

Living Adult/Adolescent HIV Case Rates per 100,000 Population by County, Suburban Washington Region, 12/31/13



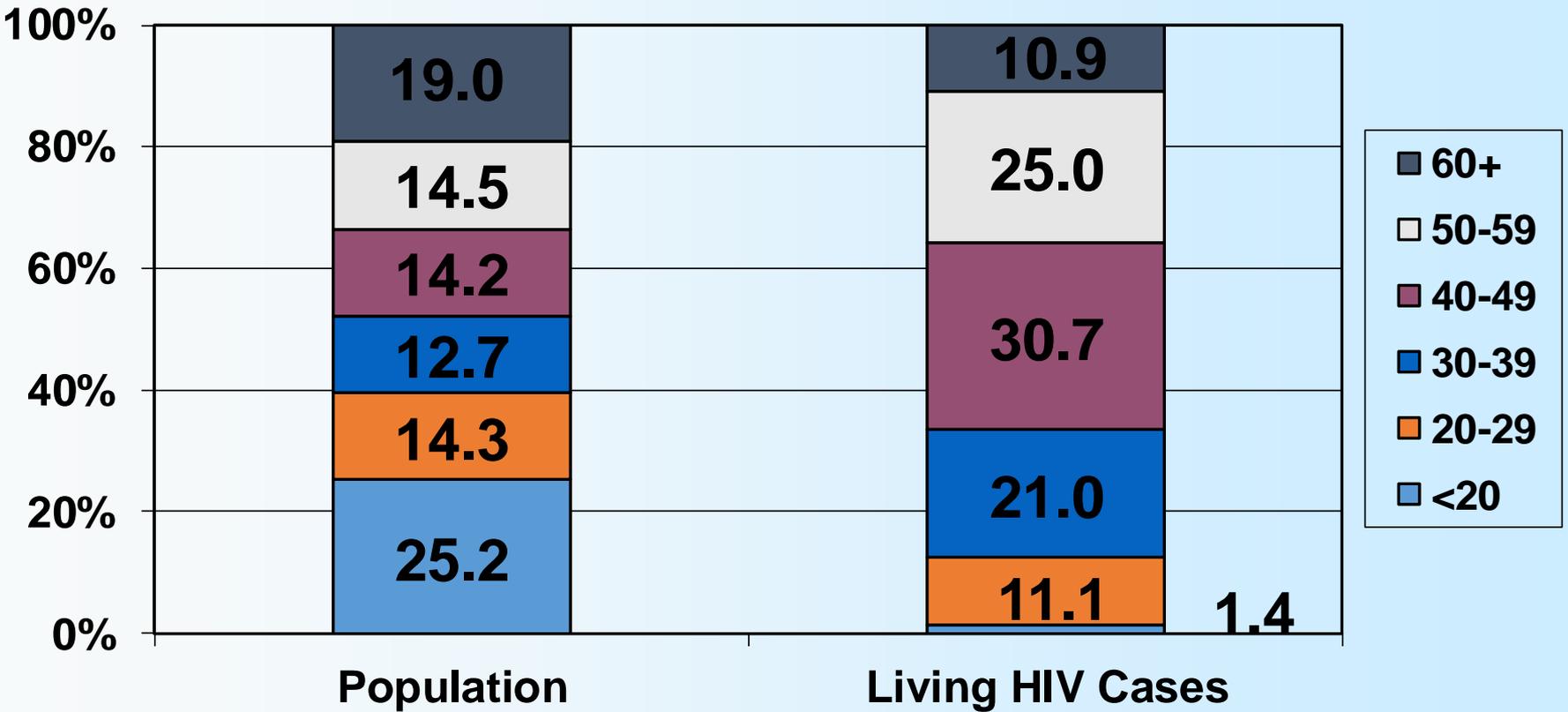
Population on 7/1/13. Cases on 12/31/13 as reported through 12/31/14

2013 STI Cases Suburban Washington Region



	Chlamydia	Gonorrhea	P&S Syphilis
Suburban Washington Region	8,556	1,954	142
Montgomery	2,393	472	20
Prince George's	6,163	1,482	122

Population and Living HIV Cases by Age, Suburban Washington Region

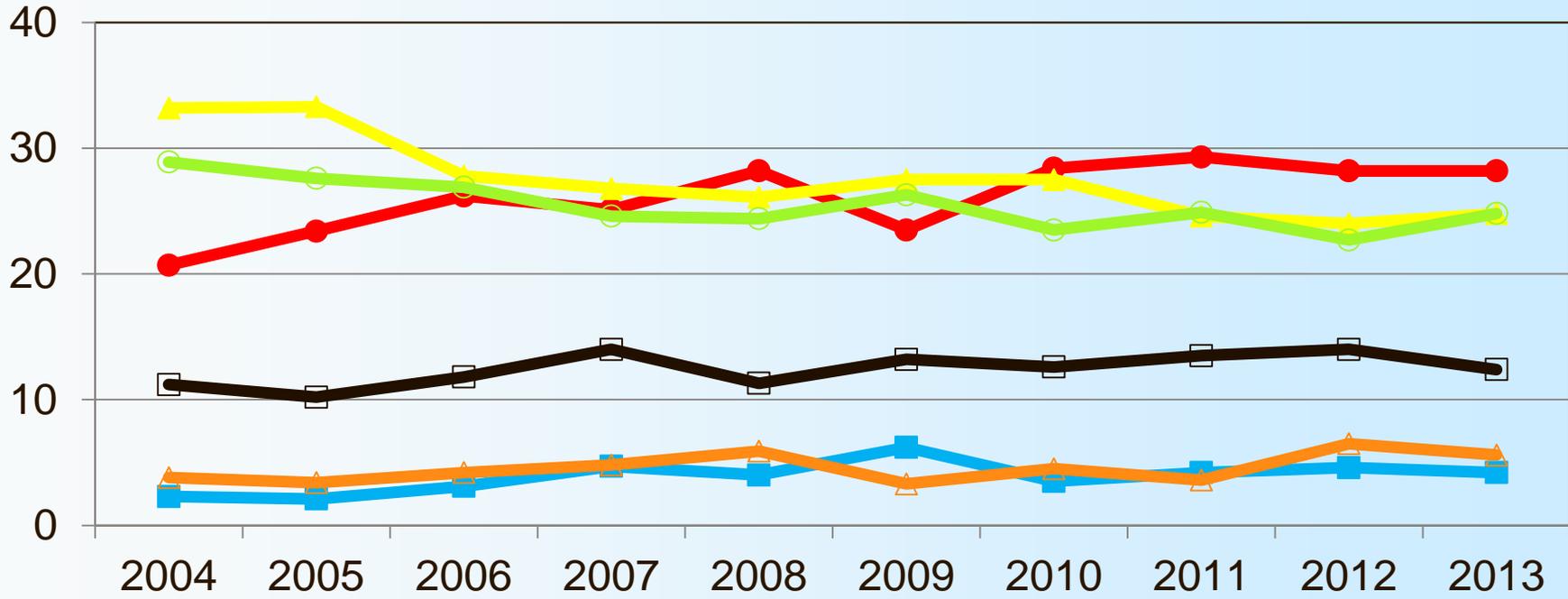


Population on 7/1/12, Cases on 12/31/13
as reported through 12/31/14

Adult/Adolescent HIV Diagnosis Trends by Age at Diagnosis, Suburban Washington Region



Percent

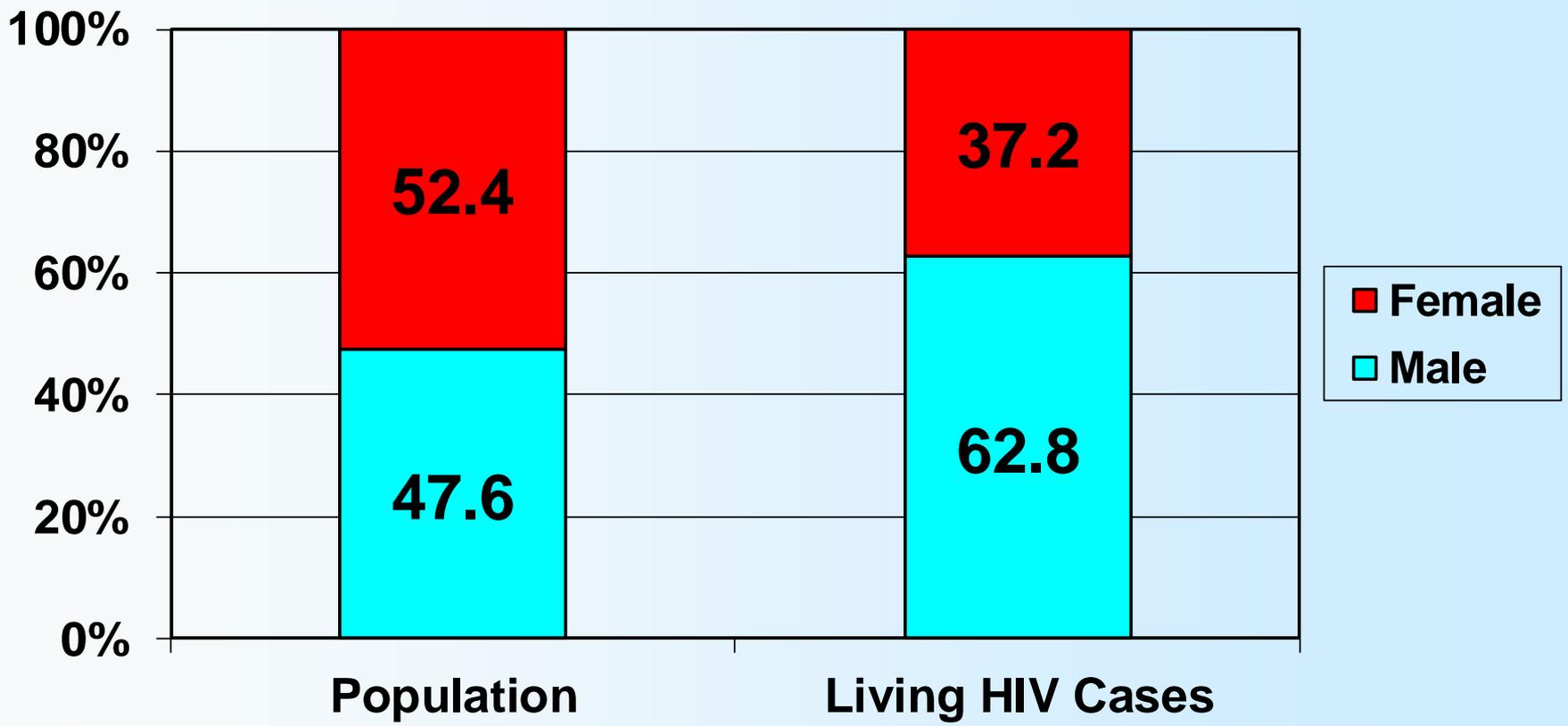


Year of HIV Diagnosis

■ 13-19
 ● 20-29
 ▲ 30-39
 ○ 40-49
 ■ 50-59
 ▲ 60+

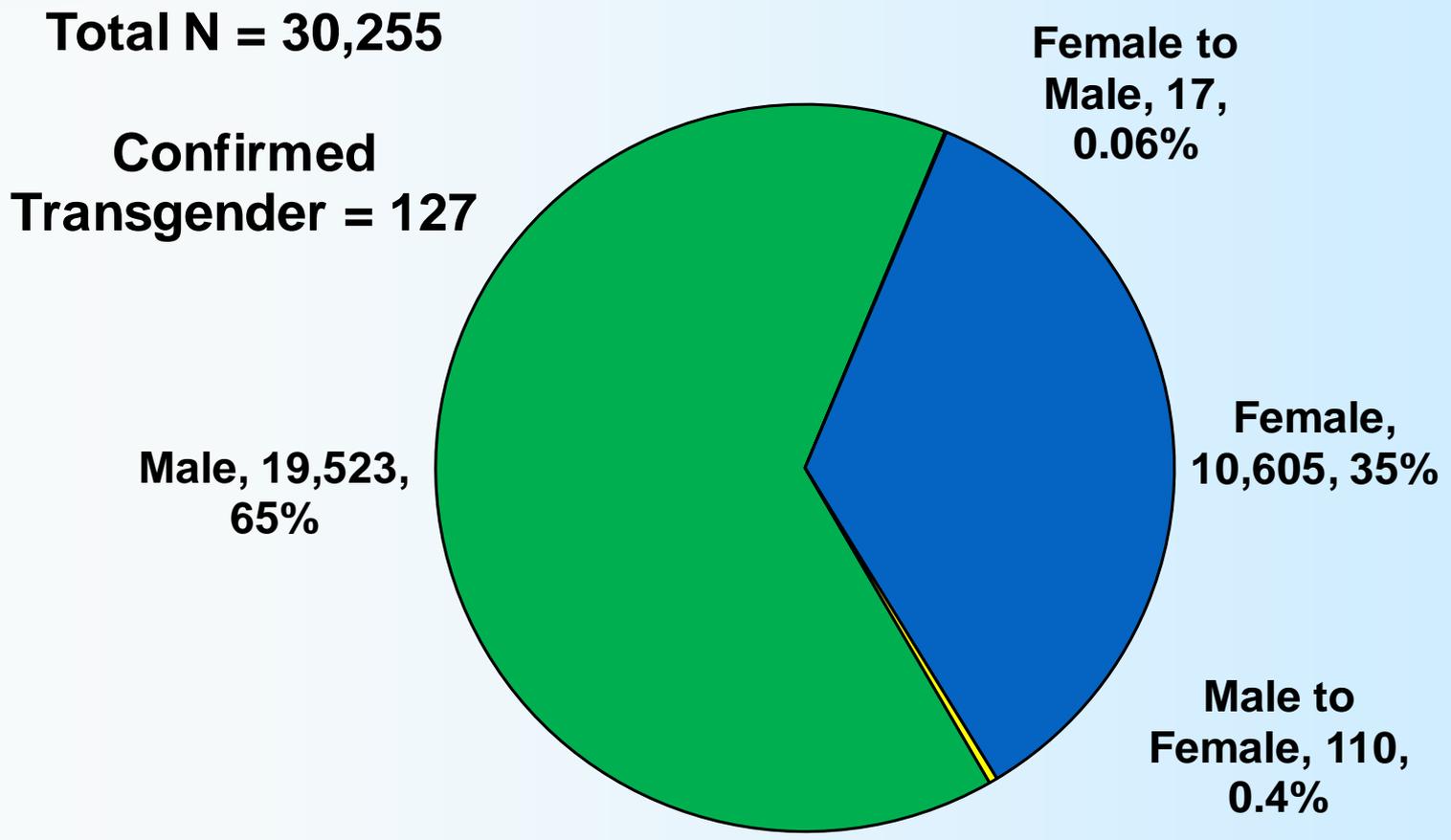
Using data as reported through 12/31/2014

Adult/Adolescent Population and Living HIV Cases by Sex at Birth Suburban Washington Region



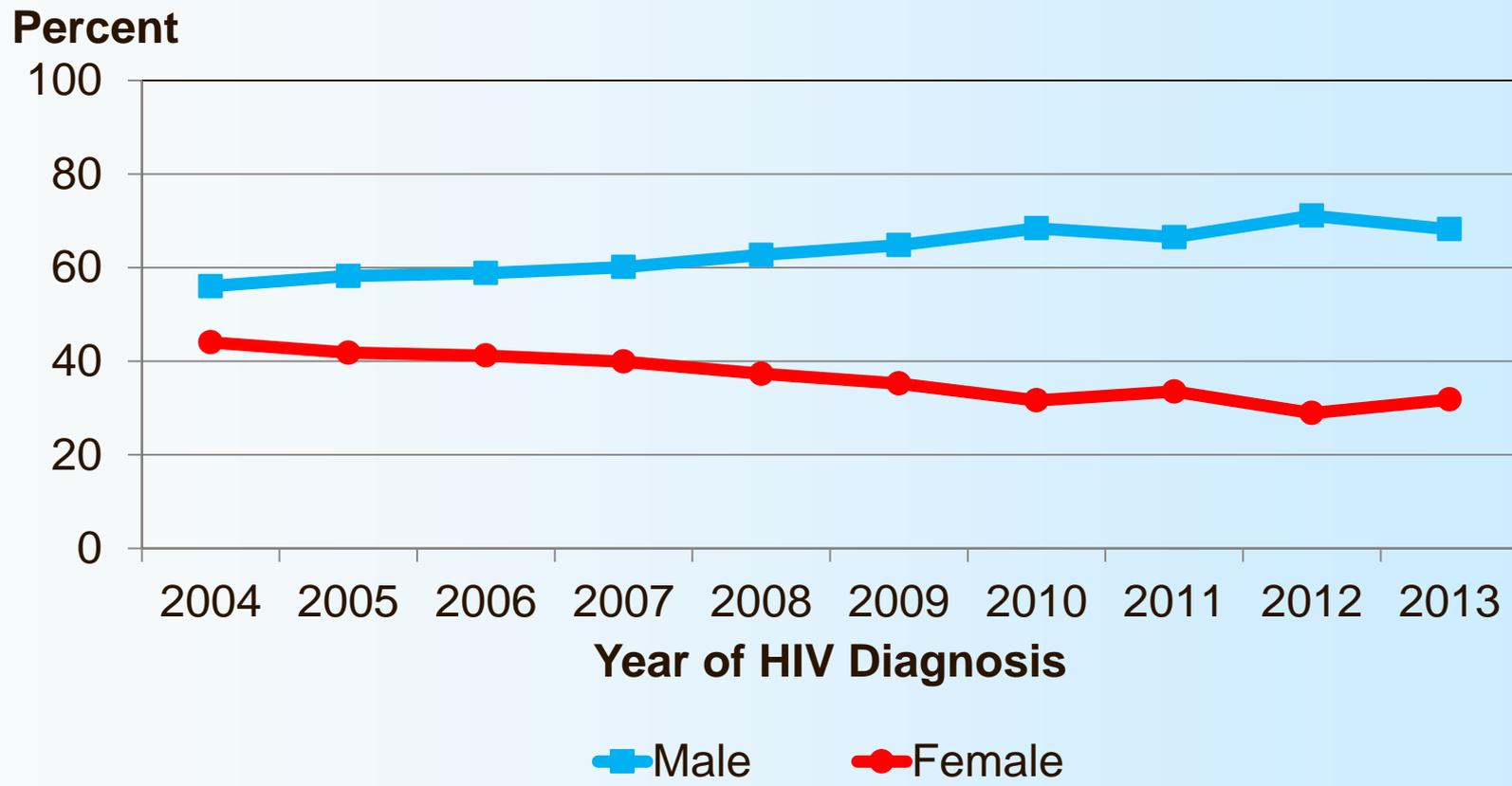
Population on 7/1/12, Cases on 12/31/13
as reported through 12/31/14

Maryland Adult/Adolescent Living HIV Cases by Gender, 12/31/13



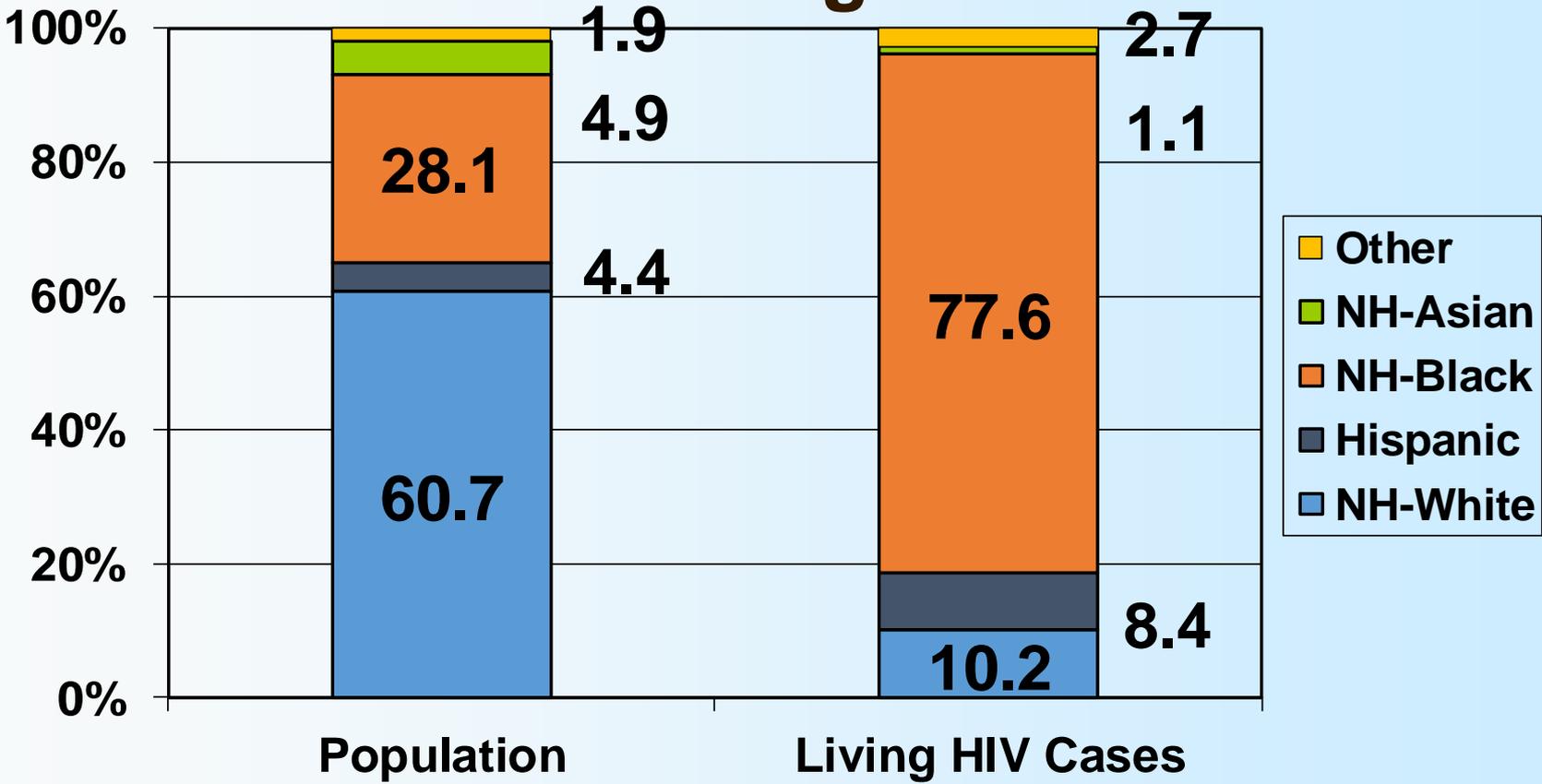
Using data as reported through 12/31/2014

Adult/Adolescent HIV Diagnosis Trends by Sex at Birth, Suburban Washington Region



Using data as reported through 12/31/2014

Adult/Adolescent Population and Living HIV Cases by Race/ Ethnicity, Suburban Washington Region

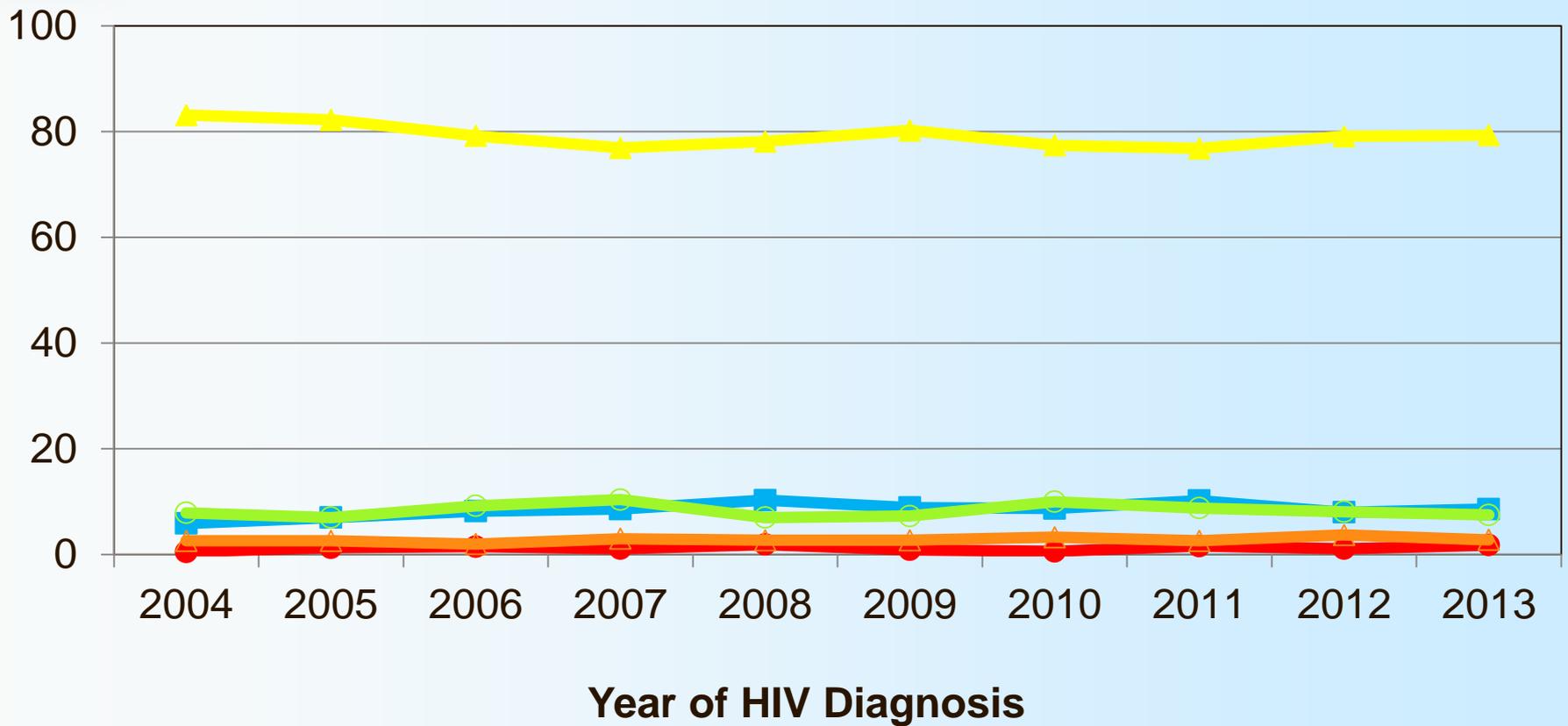


Population on 7/1/12, Cases on 12/31/13
as reported through 12/31/14

Adult/Adolescent HIV Diagnosis Trends by Race/ Ethnicity, Suburban Washington Region



Percent



■ Hispanic
 ● NH-Asian
 ▲ NH-Black
 ○ NH-White
 △ NH-Other

Using data as reported through 12/31/2014

Foreign Born Living Maryland HIV Cases by County of Residence and Country of Birth



County	Cases	Countries	Most Frequent
Montgomery	965	90	Ethiopia (16%), Cameroon (14%)
Prince George's	640	70	Cameroon (20%), Nigeria (12%)
Baltimore County	153	39	Cameroon (16%), Nigeria (11%), Kenya (10%)
Baltimore City	137	50	Honduras (8%), Nigeria (8%), Cameroon (7%), Mexico (5%)
Anne Arundel	74	30	Cameroon (15%), El Salvador (15%)
Howard	59	24	Cameroon (19%), Haiti (17%), Nigeria (10%)
Frederick	42	25	Guatemala (12%), Ghana (10%), Zambia (10%)



Exposure Categories

MSM: Men who have Sex with Men

IDU: Injection Drug Use

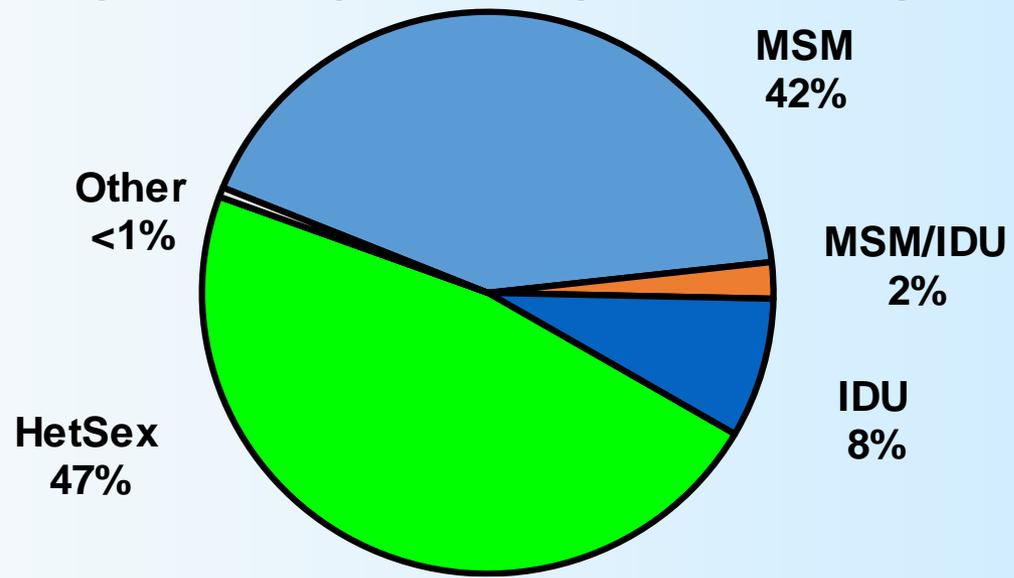
MSM/IDU: Men who have Sex with Men AND Inject Drugs

HetSex: Heterosexual Contact with a Person that has or is at Risk for HIV Infection

Living Adult/Adolescent HIV Cases 12/31/13 by Exposure Category, Suburban Washington Region

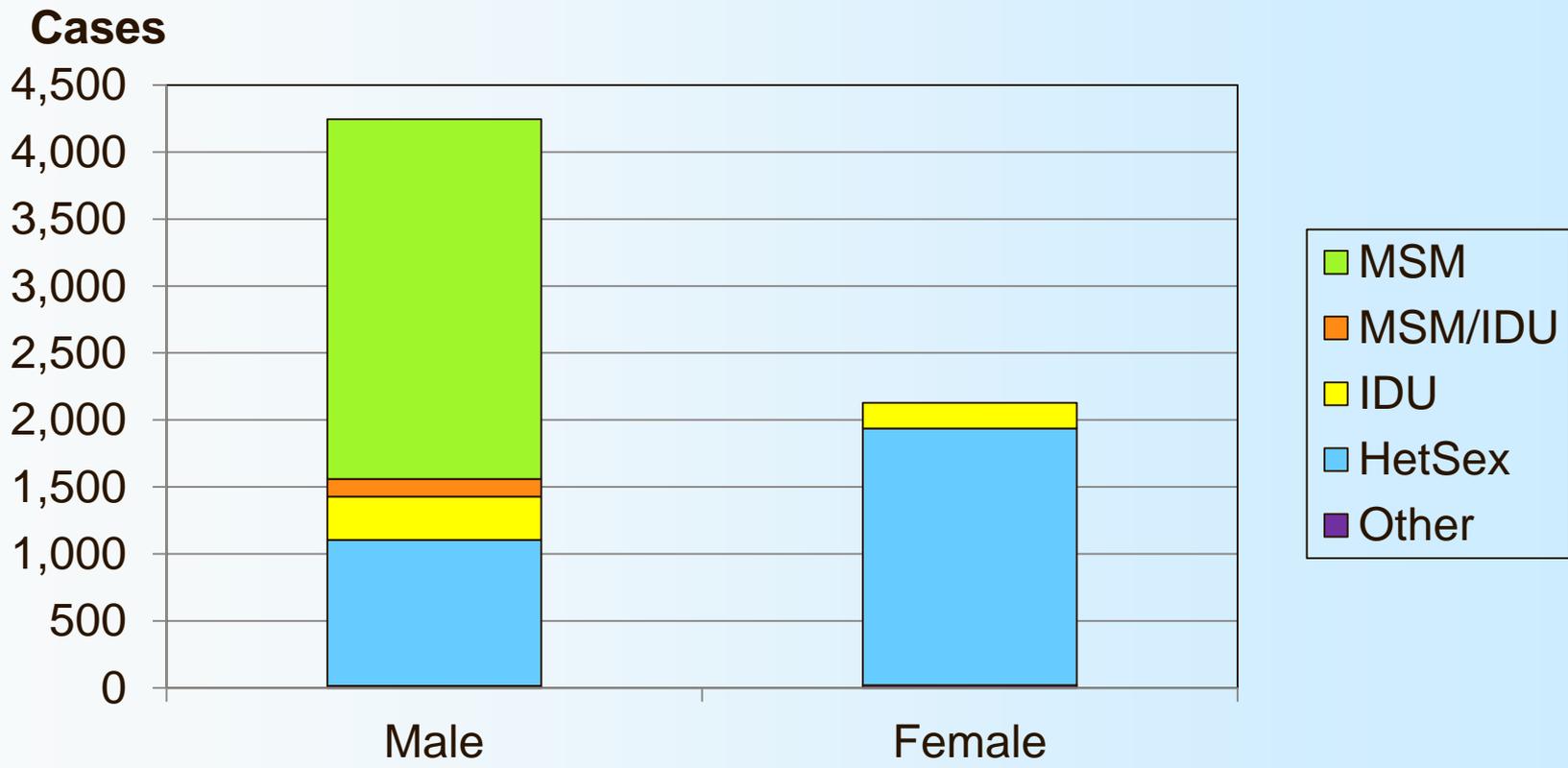


N (with Risk) = 6,374 (65% of Total)



Using data as reported through 12/31/2014

Living Adult/Adolescent HIV Cases 12/31/13 by Exposure Category and Sex at Birth Suburban Washington Region

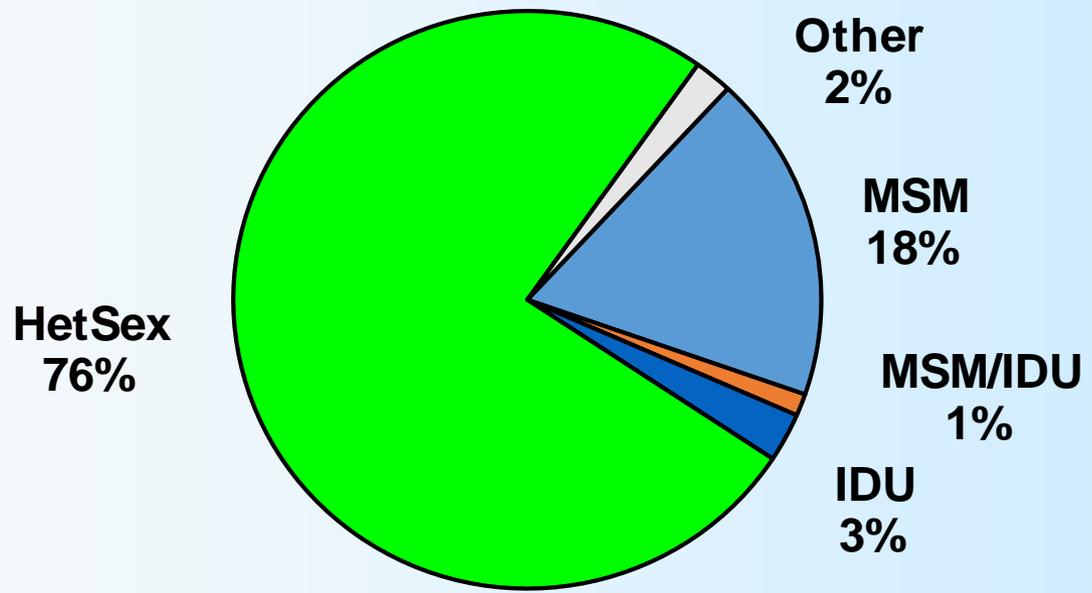


Using data as reported through 12/31/2014

Living Foreign Born Maryland HIV Cases by Exposure Category



N (with Risk) = 1,867 (72% of Total)

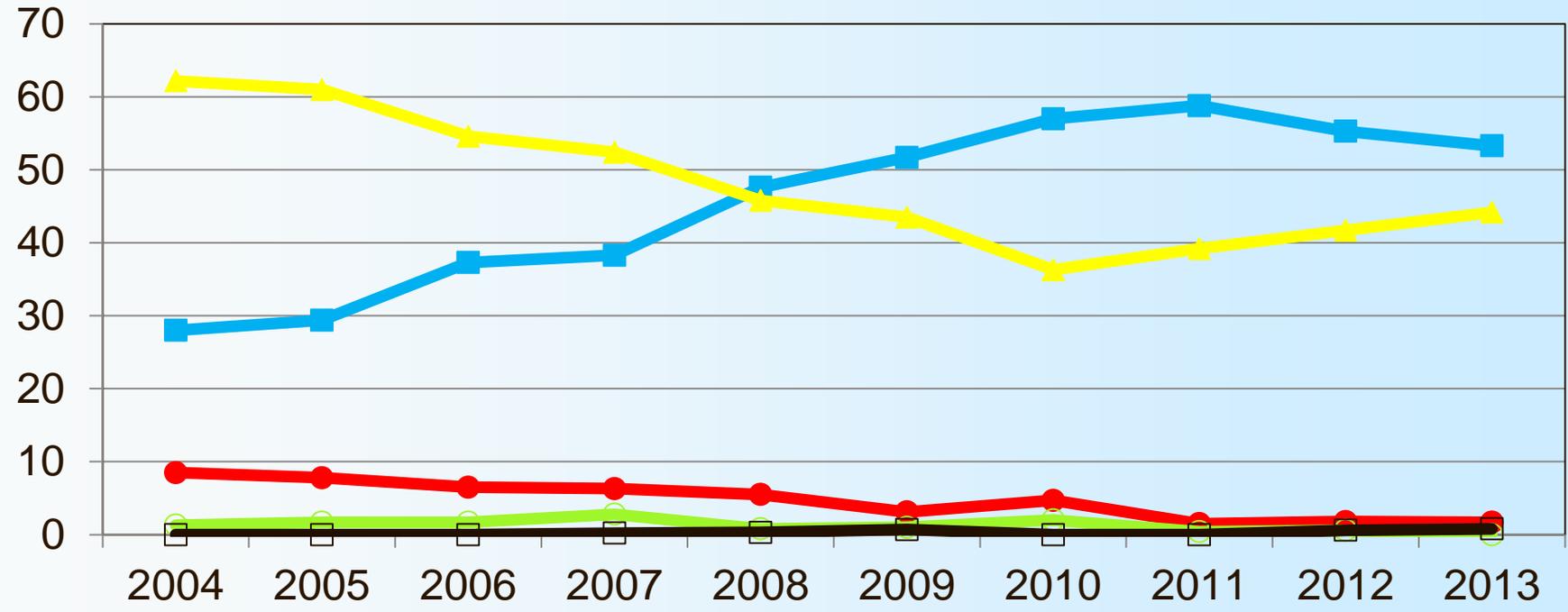


Using data as reported through 4/30/2014

Reported Adult/Adolescent HIV Diagnoses, Exposure Category Trends, Suburban Washington Region



Percent



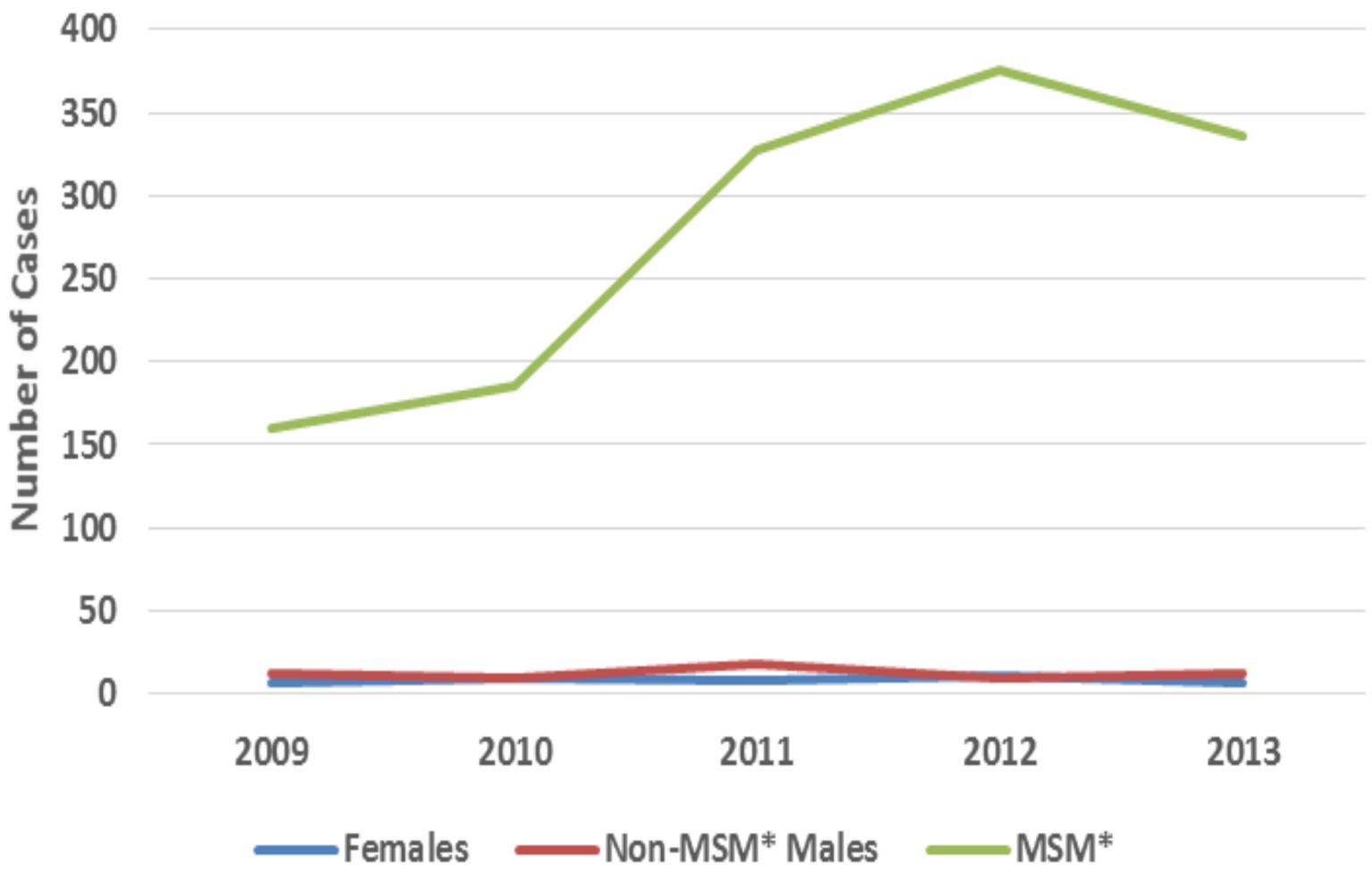
Year of HIV Diagnosis

■ MSM
 ● IDU
 ▲ HetSex
 ● MSM/IDU
 ■ Other

Using data as reported through 12/31/2014

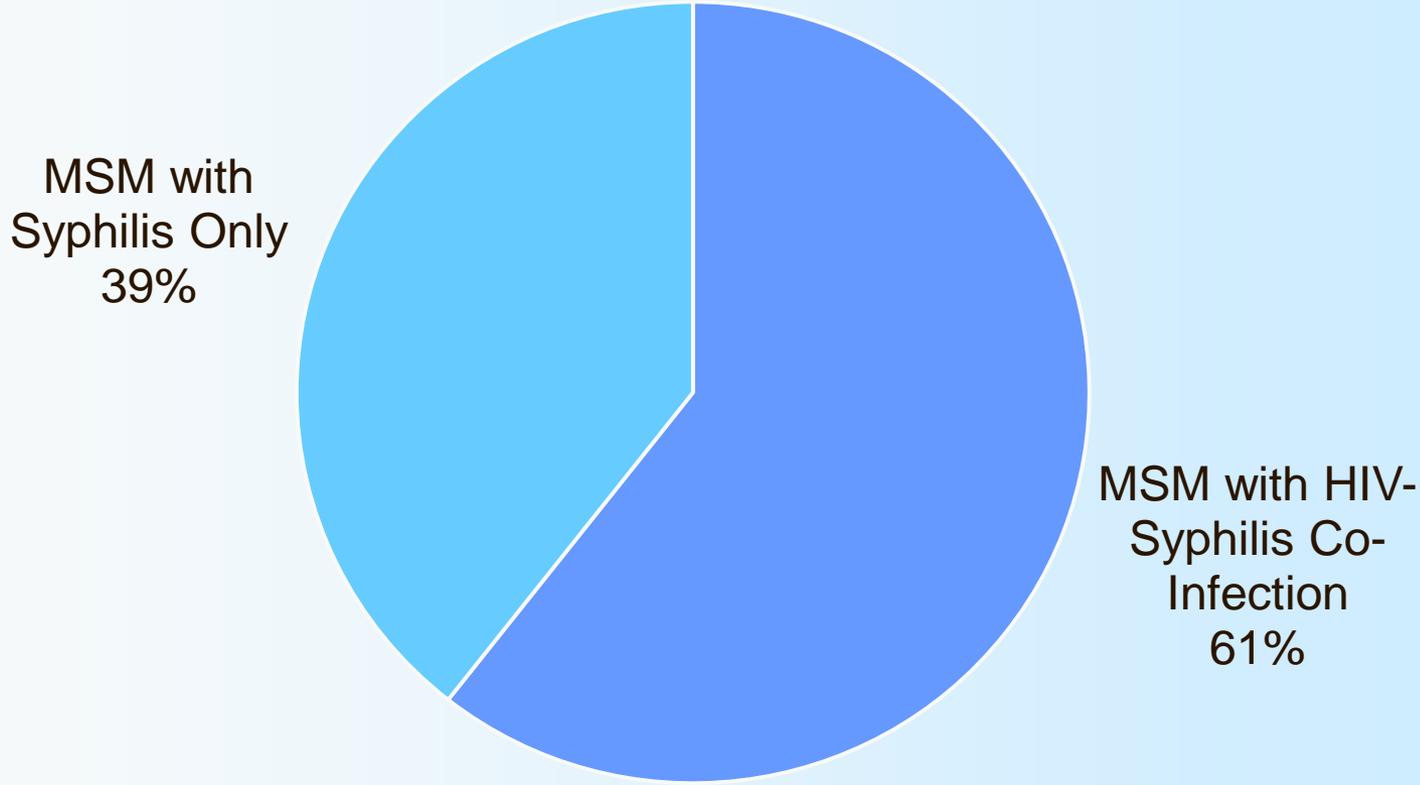


Early Syphilis-HIV Co-Infection, MD State 2009-2013



Source: DHMH Center for STI Prevention

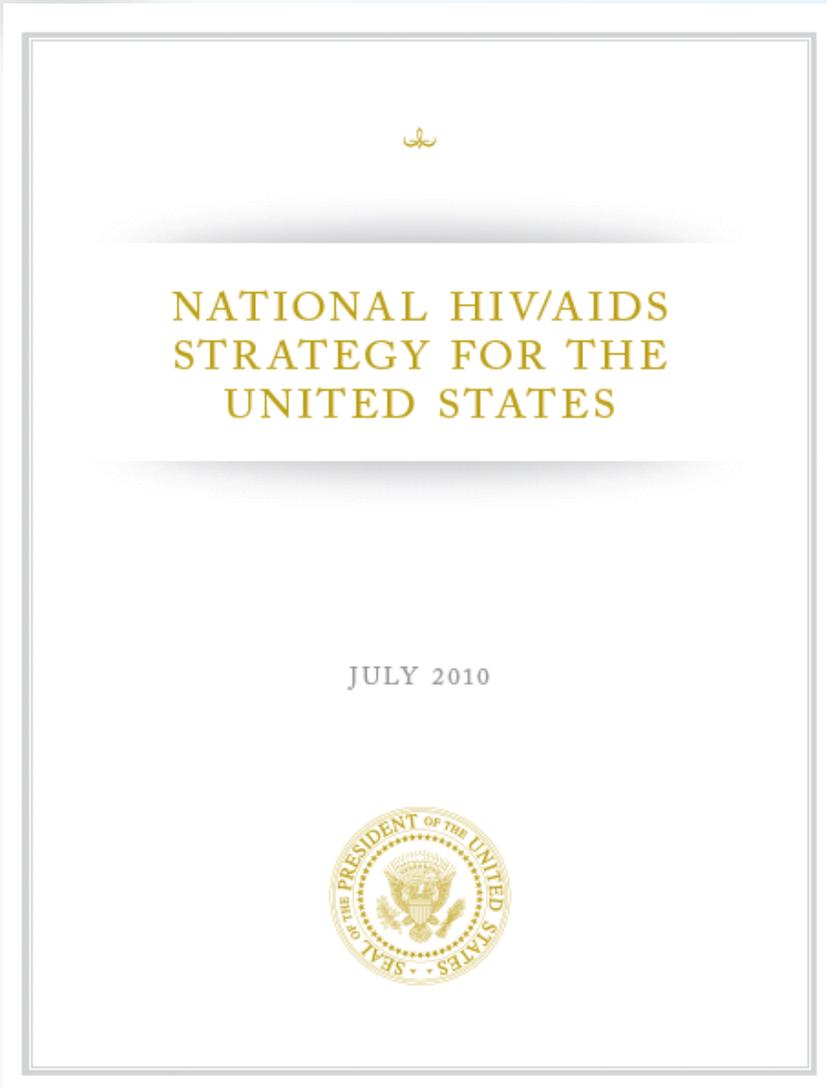
HIV Co-Infection among MSM with Reported Primary and Secondary Syphilis Cases, Maryland, 2013



NHAS 2010



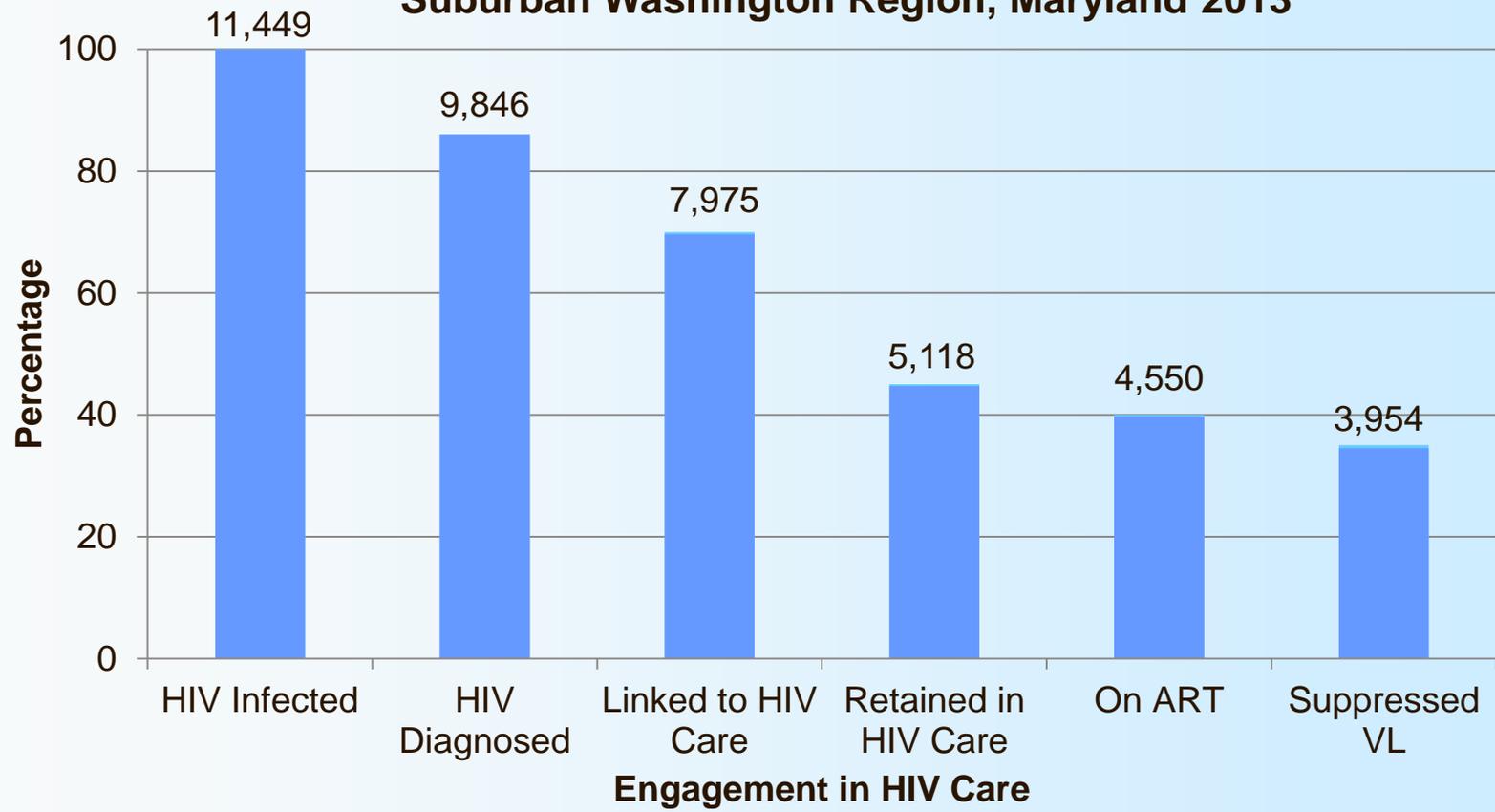
- Reducing new HIV infections
- Increasing access to care and improving health outcomes for people living with HIV
- Reducing HIV-related disparities and health inequities





Continuum of Care

Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Suburban Washington Region, Maryland 2013

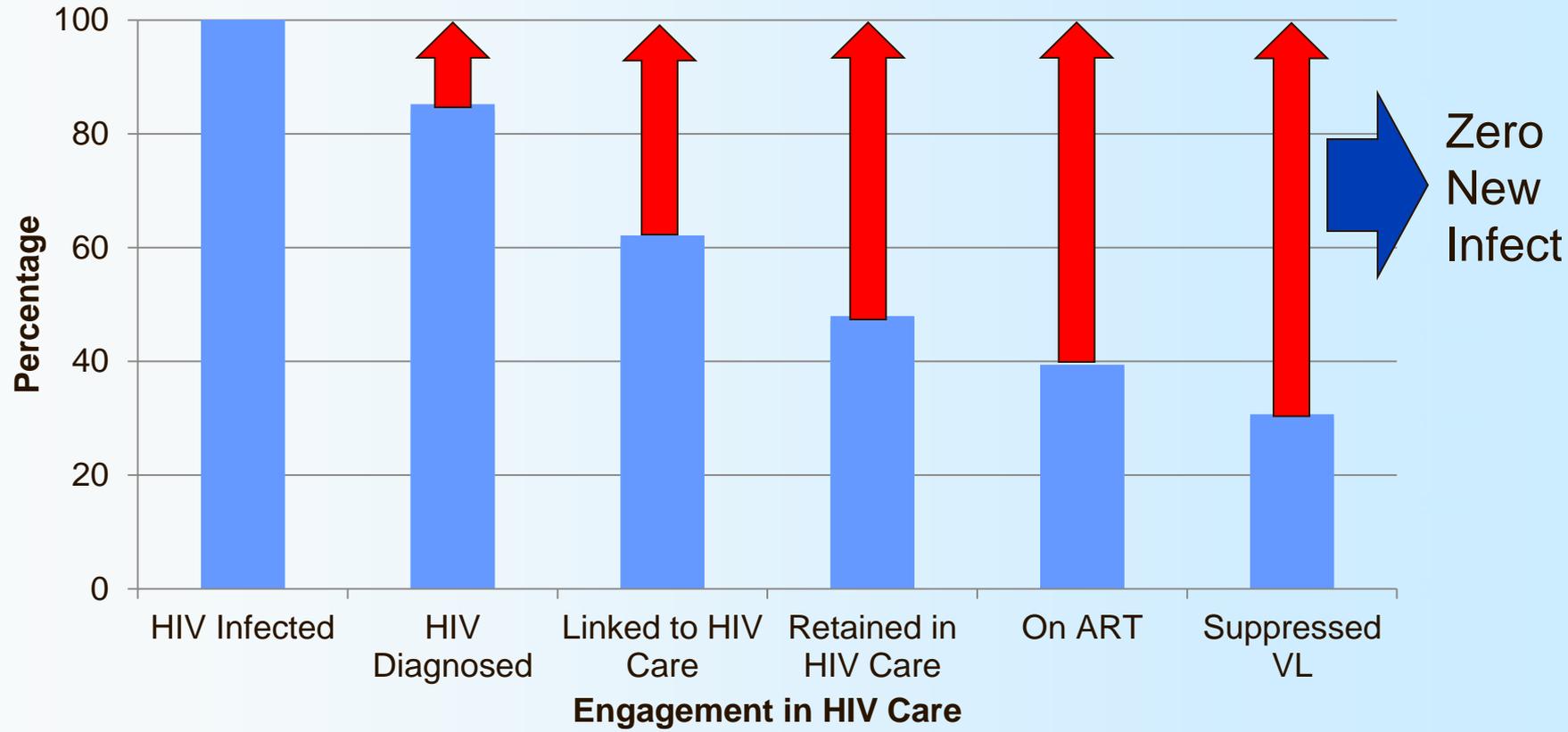


Using data as reported through 12/31/2014



Continuum of Care

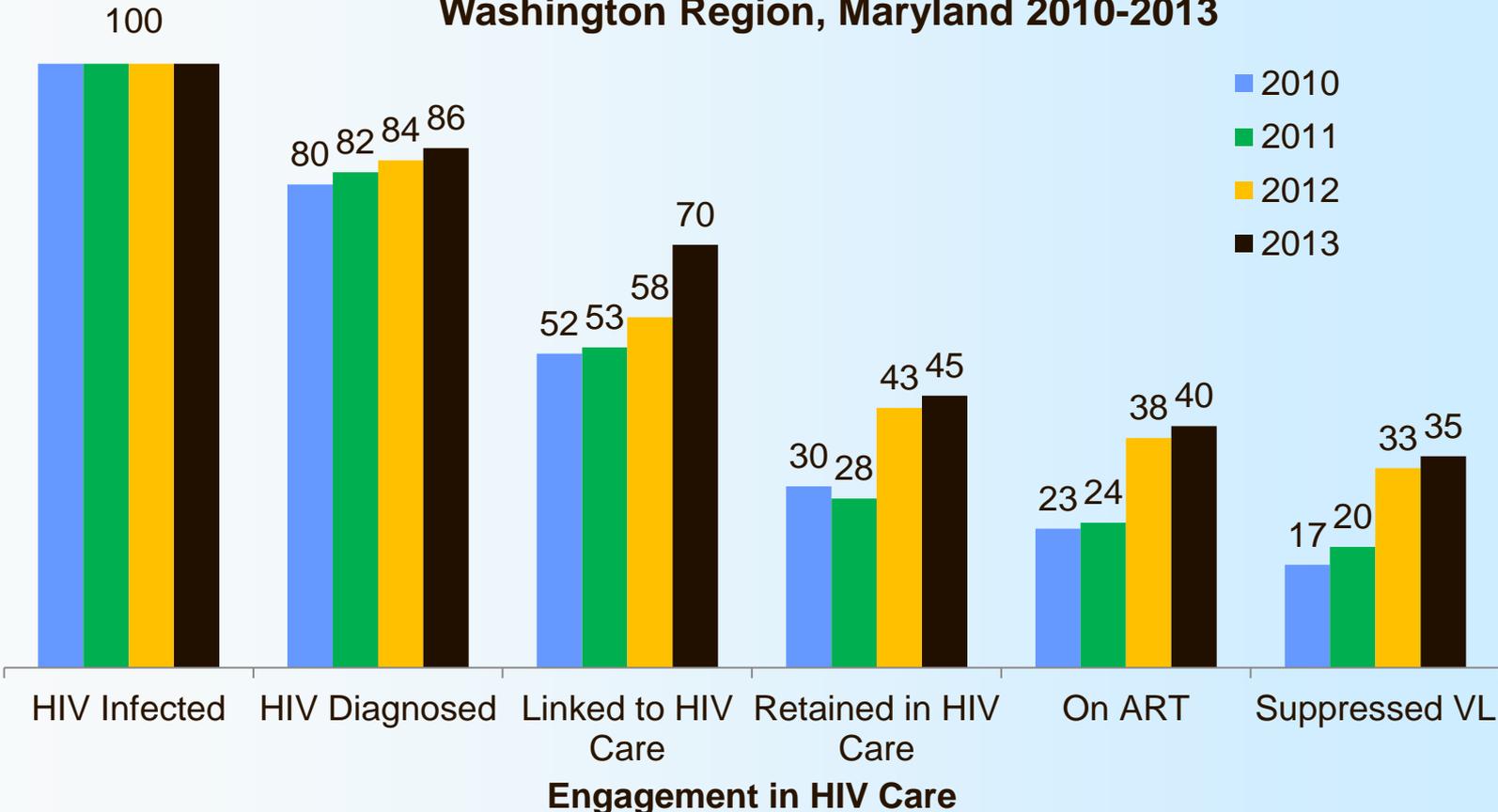
Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Maryland 2013



Improvements in the Continuum of Care



Estimated percentage of HIV infected adults/adolescents engaged in selected stages of the continuum of care, Suburban Washington Region, Maryland 2010-2013





Regional Summary

HIV/AIDS in the Suburban Washington Region



- There were 9,846 living adult/adolescent HIV cases at the end of 2013
- There were 613 reported adult/adolescent HIV diagnoses during 2013
- Prince George's County (65%) had the greatest share of living cases
- Rates of living cases were twice as high in Prince George's County than in Montgomery County

HIV/AIDS in the Suburban Washington Region: Demographics



- Persons 30-59 years old were disproportionately affected (77% vs. 41%), but the proportions were increasing among 20-29 year olds and decreasing among 30-49 year olds
- Males were disproportionately affected (63% of cases vs. 48% of population), and the proportion male was increasing
- Non-Hispanic blacks were disproportionately affected (78% vs. 21%), and there were small increases in the proportion Hispanic

HIV/AIDS in the Suburban Washington Region: Exposure Category



- Sexual transmission predominates (>89%)
 - Homosexual transmission among men
 - Heterosexual transmission among women
 - Heterosexual transmission among men
 - Proportion male homosexual was increasing
 - Proportion heterosexual was decreasing
- Injection drug use is an important route of transmission (>8%), but the proportion IDU was decreasing



Prevention and Health Promotion Administration

<http://phpa.dhmh.maryland.gov/oideor/chse>