



HIV IN MARYLAND

**MARYLAND HIV PLANNING GROUP
JUNE 6, 2013**

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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.



Adults and children estimated to be living with HIV | 2011



Total: 34.0 million [31.4 million – 35.9 million]

UNAIDS Plan 2011-2015



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**ZERO NEW HIV INFECTIONS.
ZERO DISCRIMINATION.
ZERO AIDS-RELATED DEATHS.**

How to get
to zero:

Faster.

Smarter.

Better.

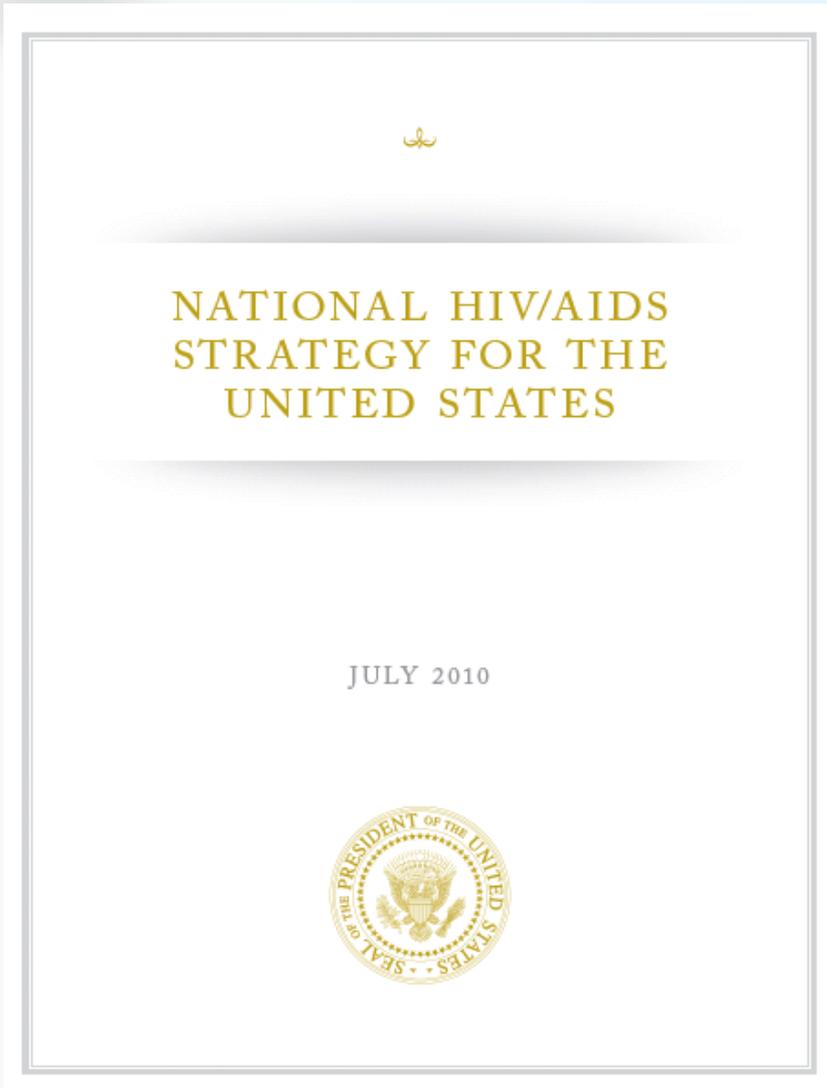
World AIDS Day December 1, 2012



NHAS 2010



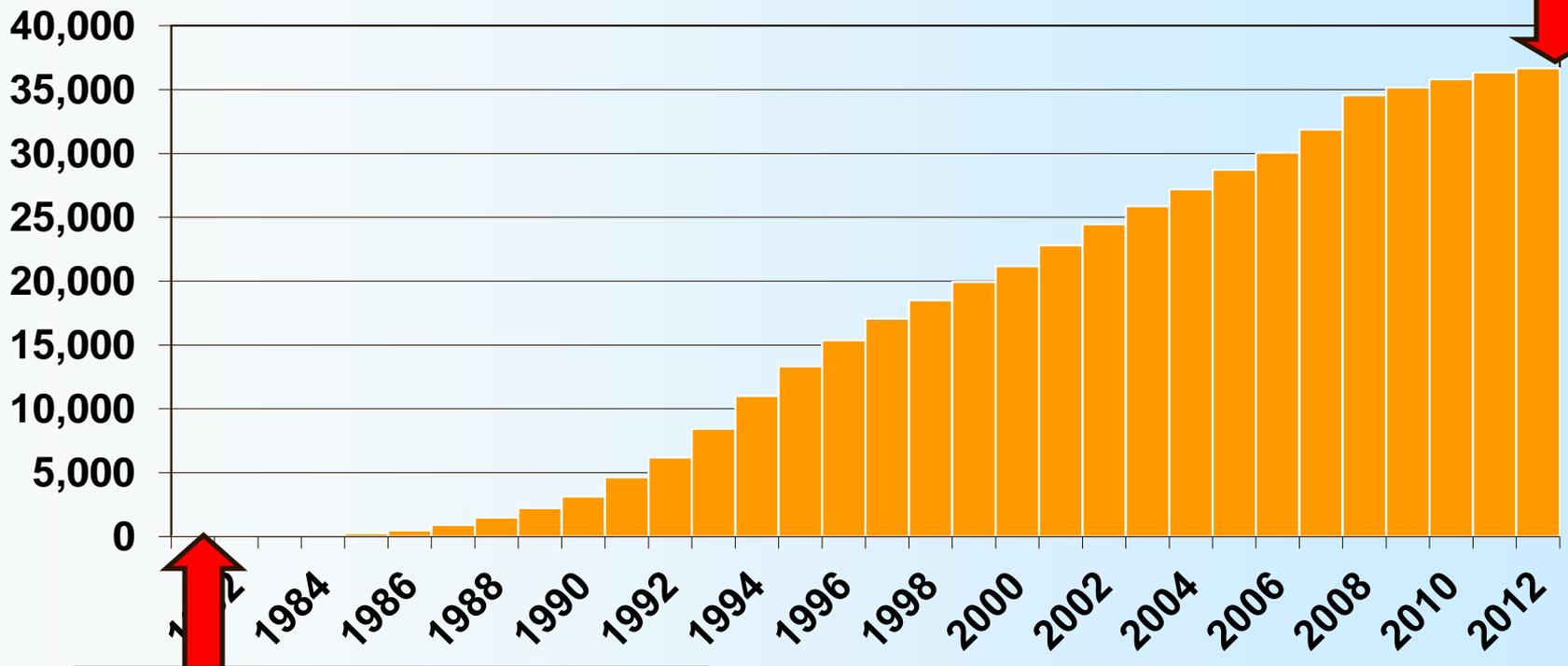
- Reducing new HIV infections
- Increasing access to care and improving health outcomes for people living with HIV
- Reducing HIV-related disparities and health inequities



Maryland AIDS Case Reports



36,665 Cases by December 31, 2012



First Case October 1981

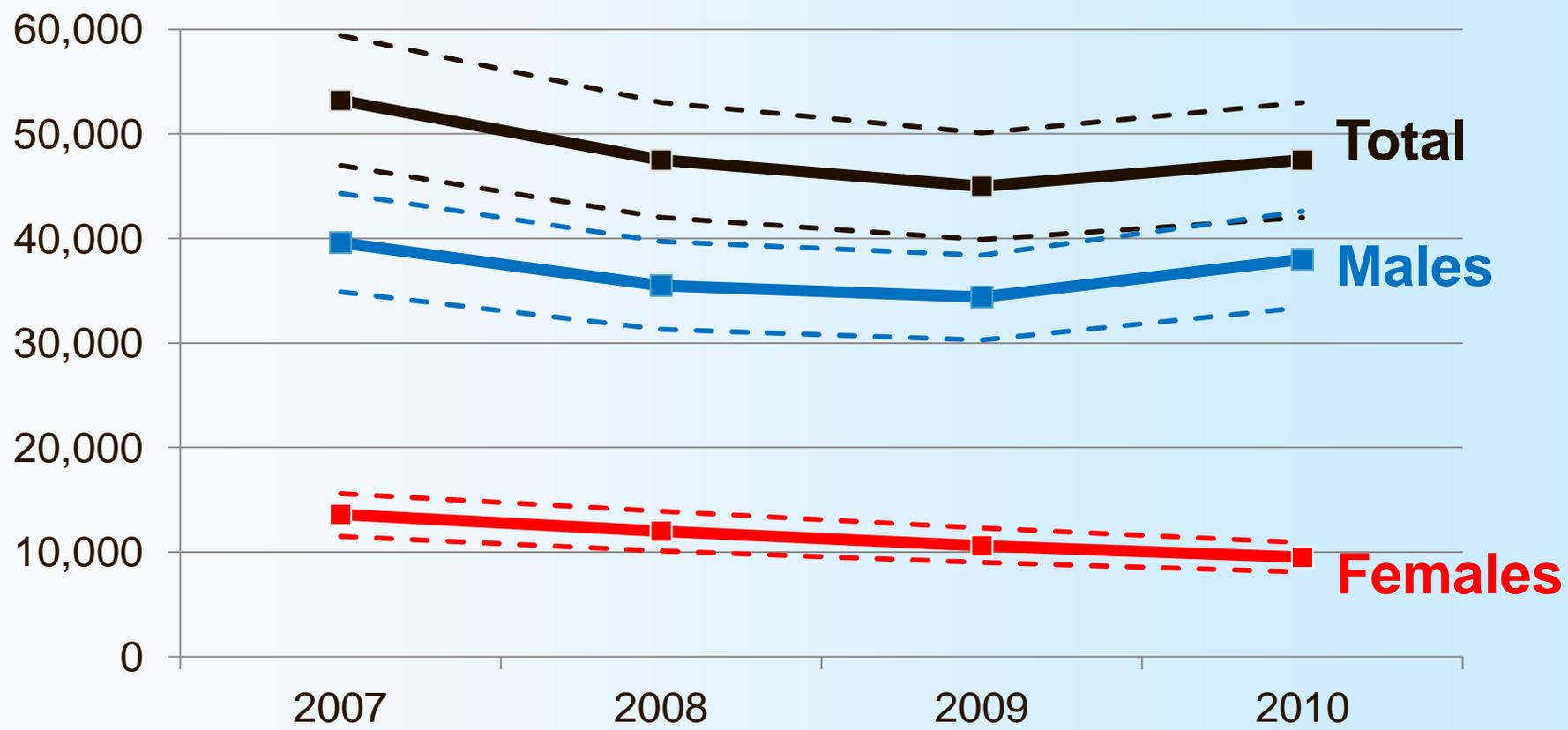


National Data



U.S. HIV Incidence

Estimated New HIV Infections



Populations with Changes in HIV Incidence



- Overall national incidence estimate is unchanged from 2008-2010
- 21% decrease among females
- 12% increase among MSM
- 22% increase among 13-24 year old MSM

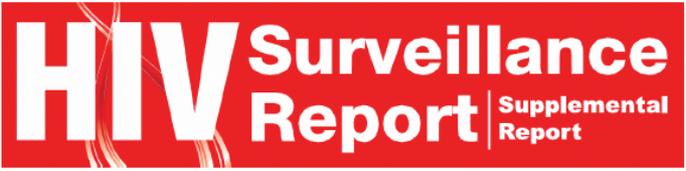


Volume 17, Number 4

Estimated HIV Incidence in the
United States, 2007–2010



U.S. Prevalence



Volume 17, Number 3

**Monitoring Selected National
HIV Prevention and Care Objectives
by Using HIV Surveillance Data—
United States and
6 U.S. Dependent Areas—2010**

Part A

- CDC estimated 1,148,200 people were living with HIV at the end of 2009
- 18.1% were undiagnosed



Estimated HIV Diagnoses during 2011, Ranked by Rates

<u>STATE/TERRITORY</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. District of Columbia	962	155.6
2. Virgin Islands	35	33.0
3. Maryland	1,783	30.6
4. Louisiana	1,381	30.2
5. Florida	5,408	28.4
6. Georgia	2,522	25.7
7. New York	4,960	25.5
8. Puerto Rico	888	24.0
9. Mississippi	617	20.7
10. Texas	5,065	19.7
<hr/>		
<i>United States</i>	<i>50,199</i>	<i>15.9</i>

Estimated HIV Diagnoses during 2011, Ranked by Rates



<u>METROPOLITAN AREA</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. Miami, FL	2,606	46.0
2. New Orleans-Metairie-Kenner, LA	513	43.0
3. Baton Rouge, LA	336	41.6
4. Jackson, MS	200	36.7
5. Washington, DC-VA-MD-WV	1,969	34.5
6. Baltimore-Towson, MD	922	33.8
7. Memphis, TN-MS-AR	433	32.6
8. Atlanta-Sandy Springs-Marietta, GA	1,626	30.3
9. New York, NY-NJ-PA	5,344	28.1
10. Jacksonville, FL	382	28.1
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<i>United States</i>	<i>50,161</i>	<i>15.9</i>

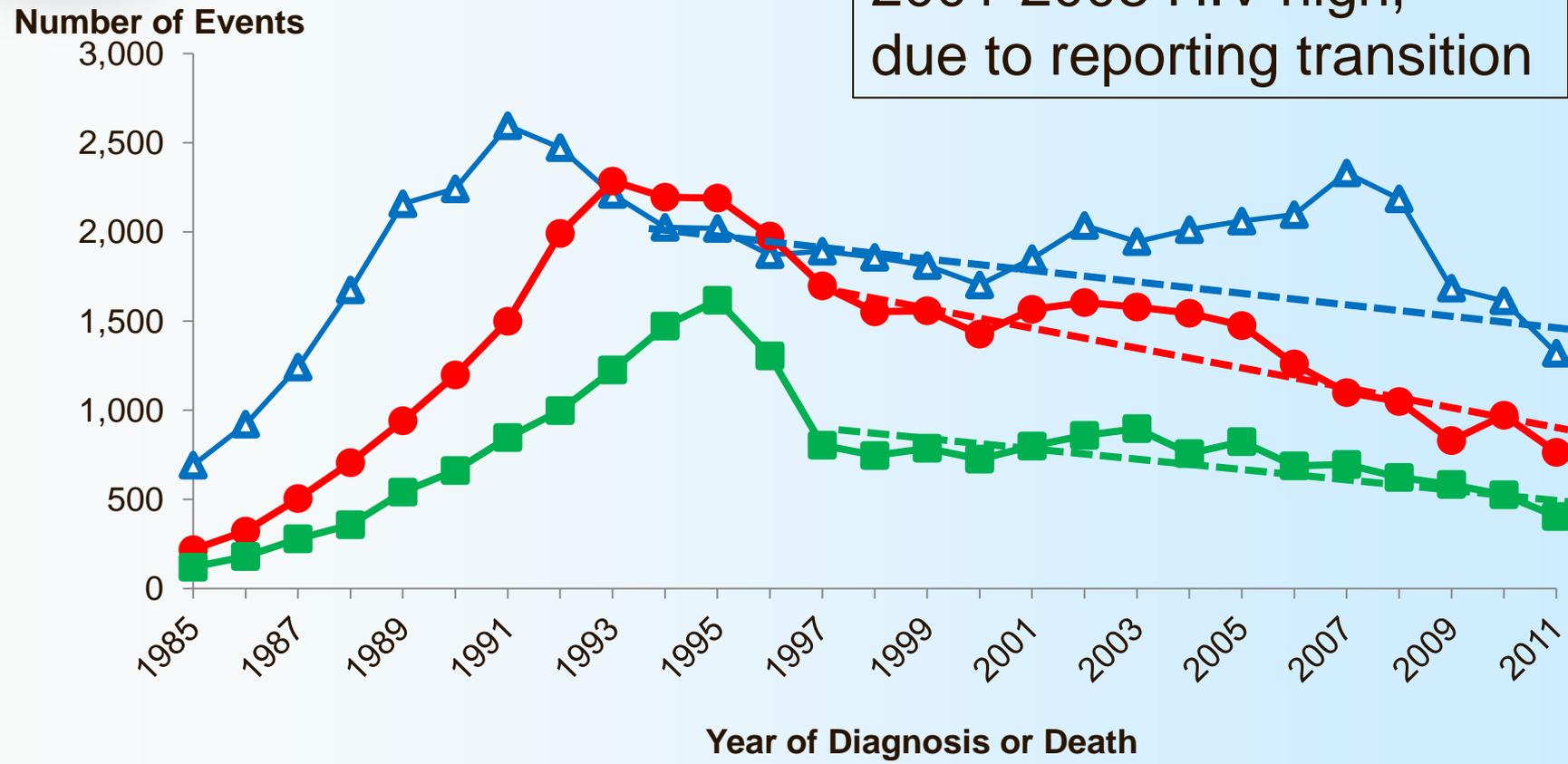


Epidemiological Description

Maryland HIV/AIDS Trends



2001-2008 HIV high, due to reporting transition



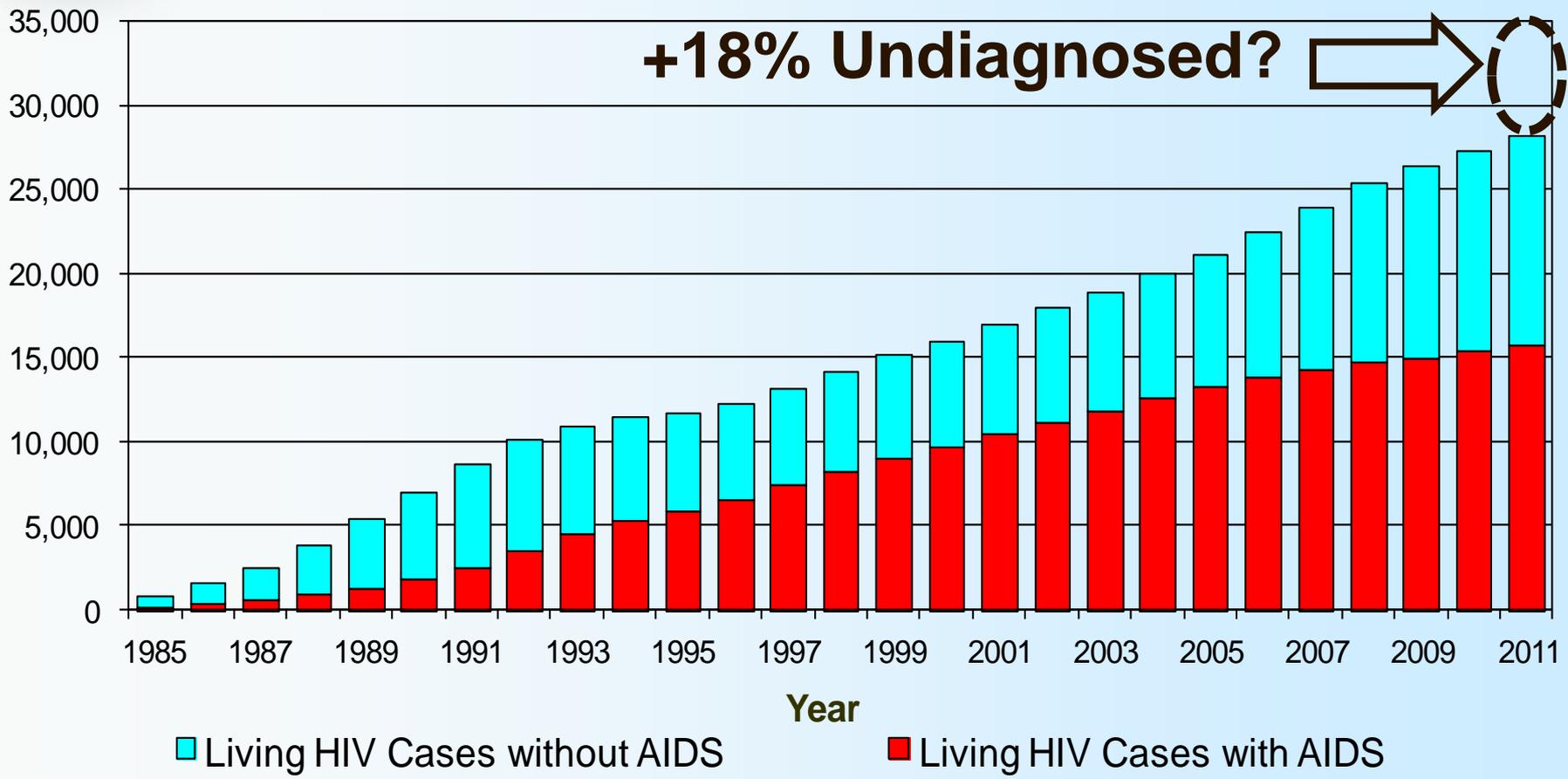
▲ Reported HIV Diagnoses ● Reported AIDS Diagnoses ■ Reported AIDS Deaths

Using data as reported through 12/31/2012

Maryland Living HIV Cases



Number of Cases



Using data as reported through 12/31/2012

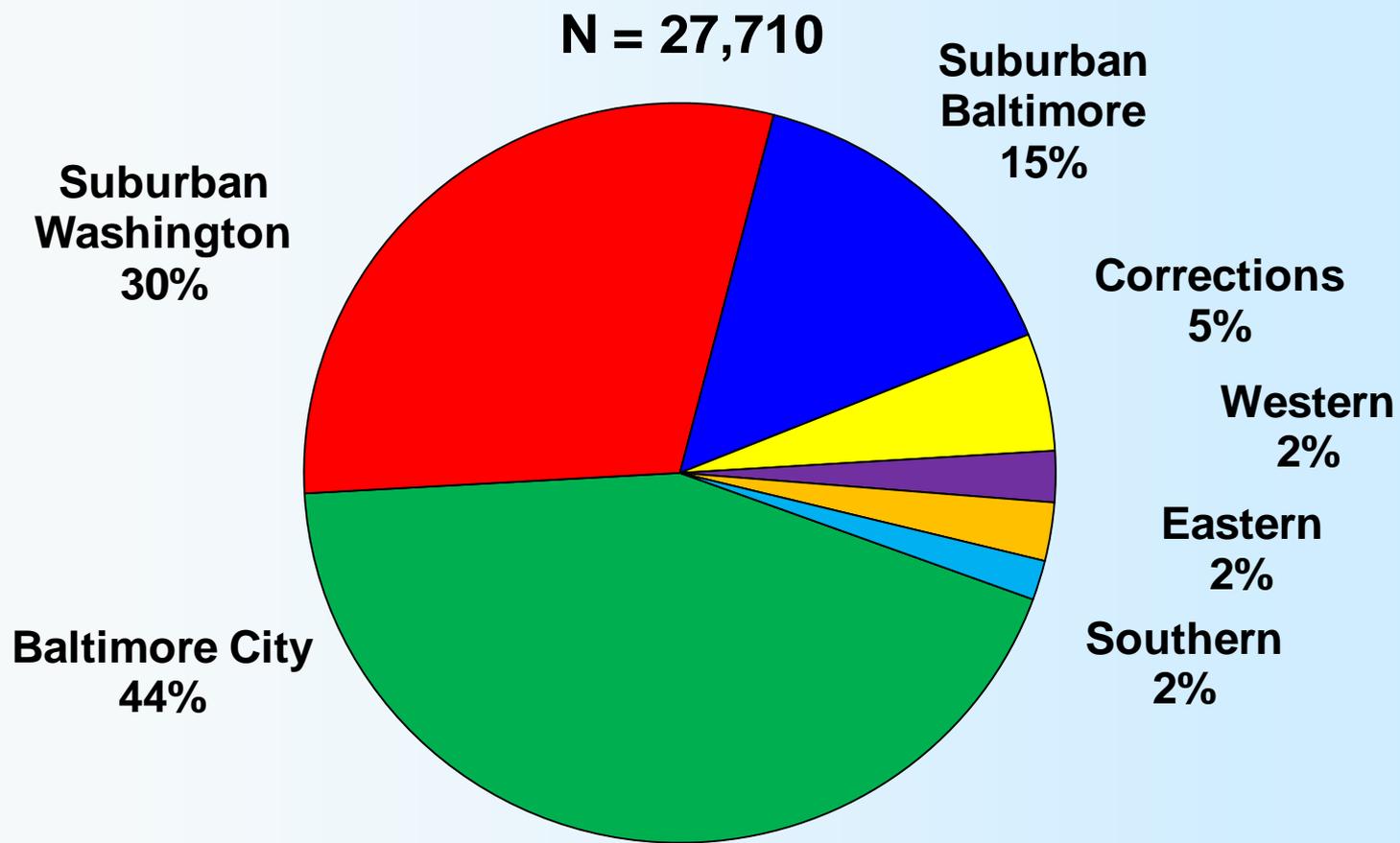
Maryland Adult/Adolescent HIV/AIDS Statistics



Reported Diagnoses (during 2011)	No.	per 100,000	
HIV	1,311	26.9	
AIDS	759	15.6	
Living Cases (on 12/31/11)	No.	per 100,000	1 in X
HIV without AIDS	12,162	249.8	
HIV with AIDS	15,548	319.3	
Total HIV	27,710	569.1	175

Using data as reported through 12/31/2012

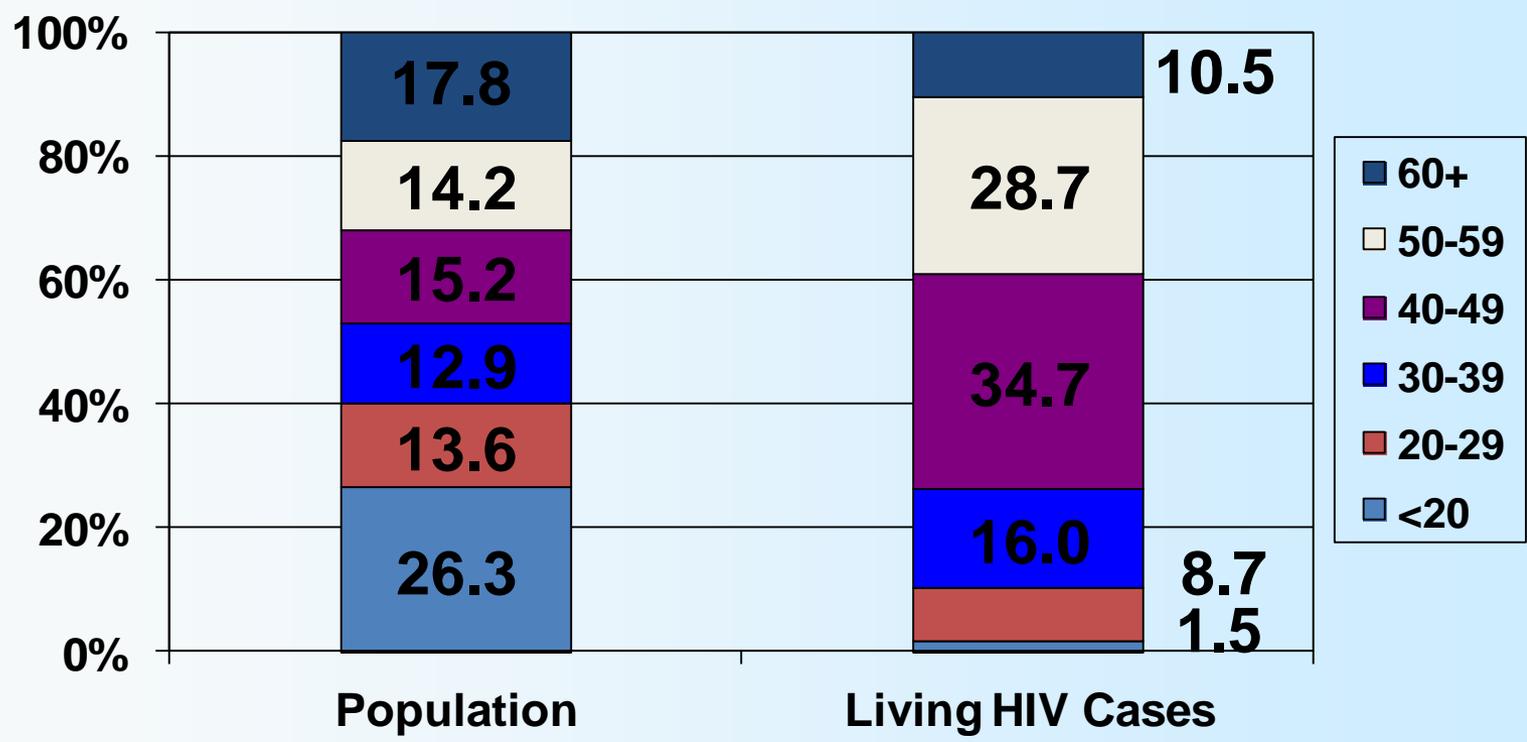
Maryland Living Adult/ Adolescent HIV Cases by Region, 12/31/11



Using data as reported through 12/31/2012

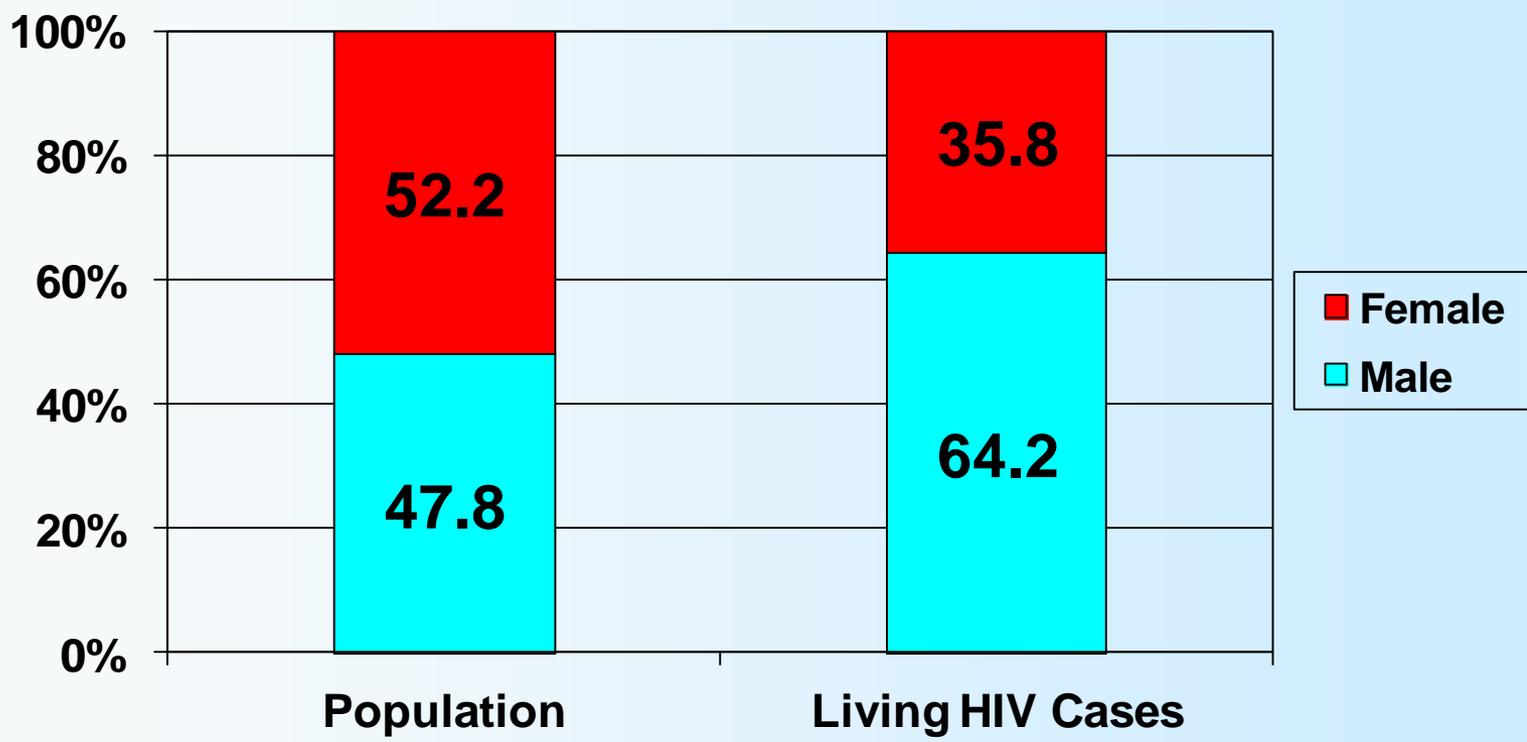


Population and Living HIV Cases by Age



Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11

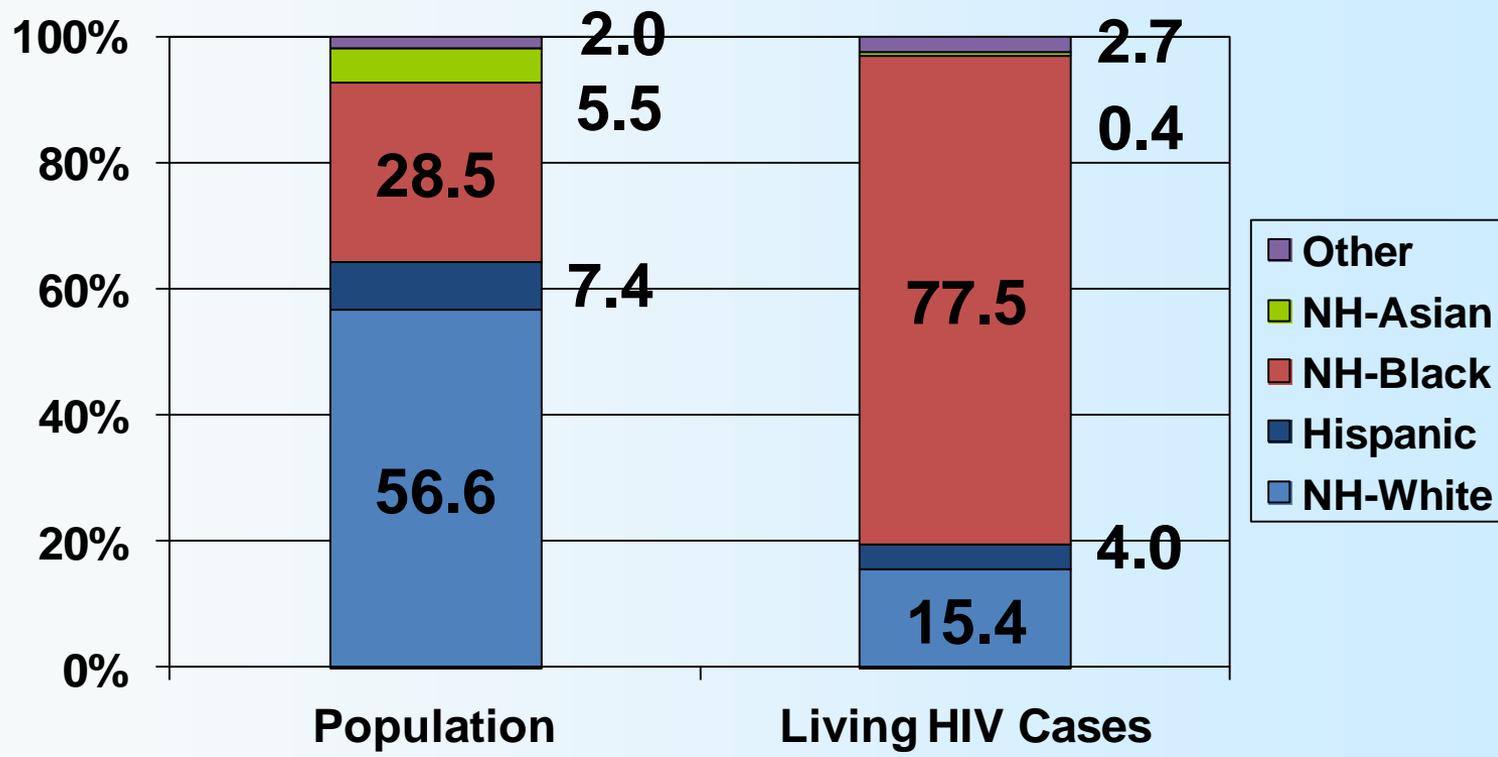
Adult/Adolescent Population and Living HIV Cases by Sex at Birth



Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11



Adult/Adolescent Population and Living HIV Cases by Race/Ethnicity

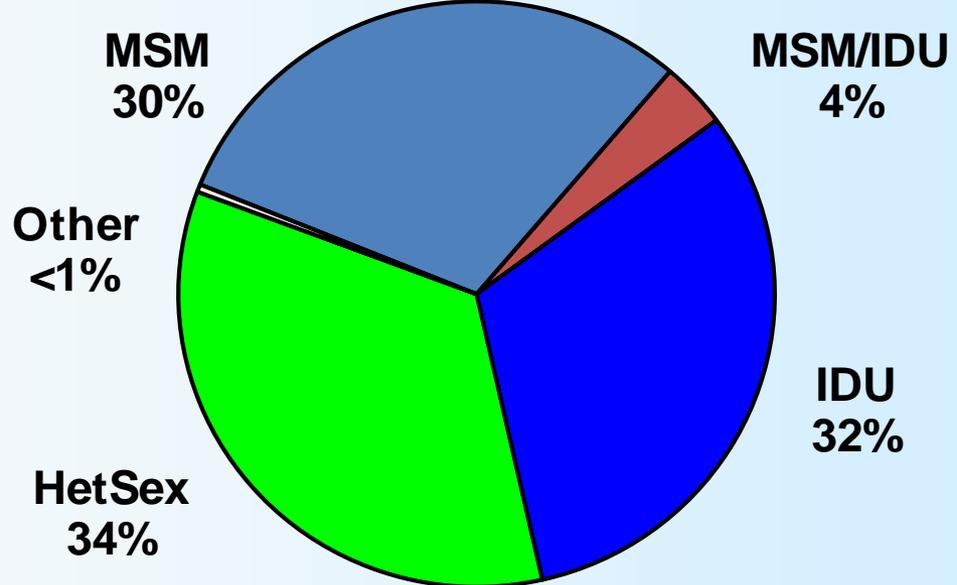


Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11

Living Adult/Adolescent HIV Cases 12/31/11 by Exposure Category



N (with Risk) = 20,683 (75% of Total)



Using data as reported through 12/31/2012

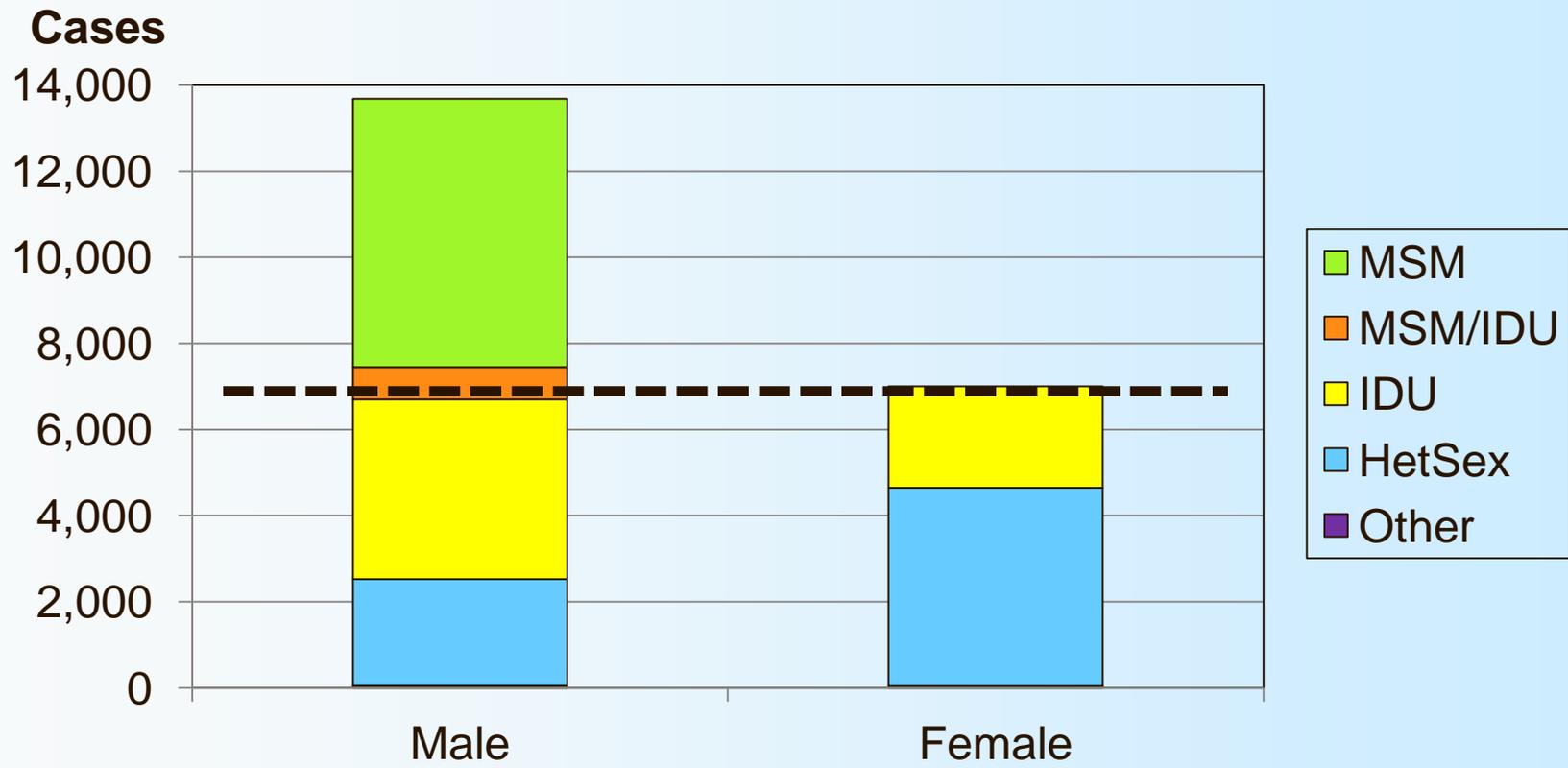
Leading HIV Exposure Category in Maryland



Year of HIV Diagnosis	Number of Years	Most Common HIV Exposure Category
1981-1988	8	MSM
1988-2003	16	IDU
2004-2008	5	HET
2009-2012	4	MSM



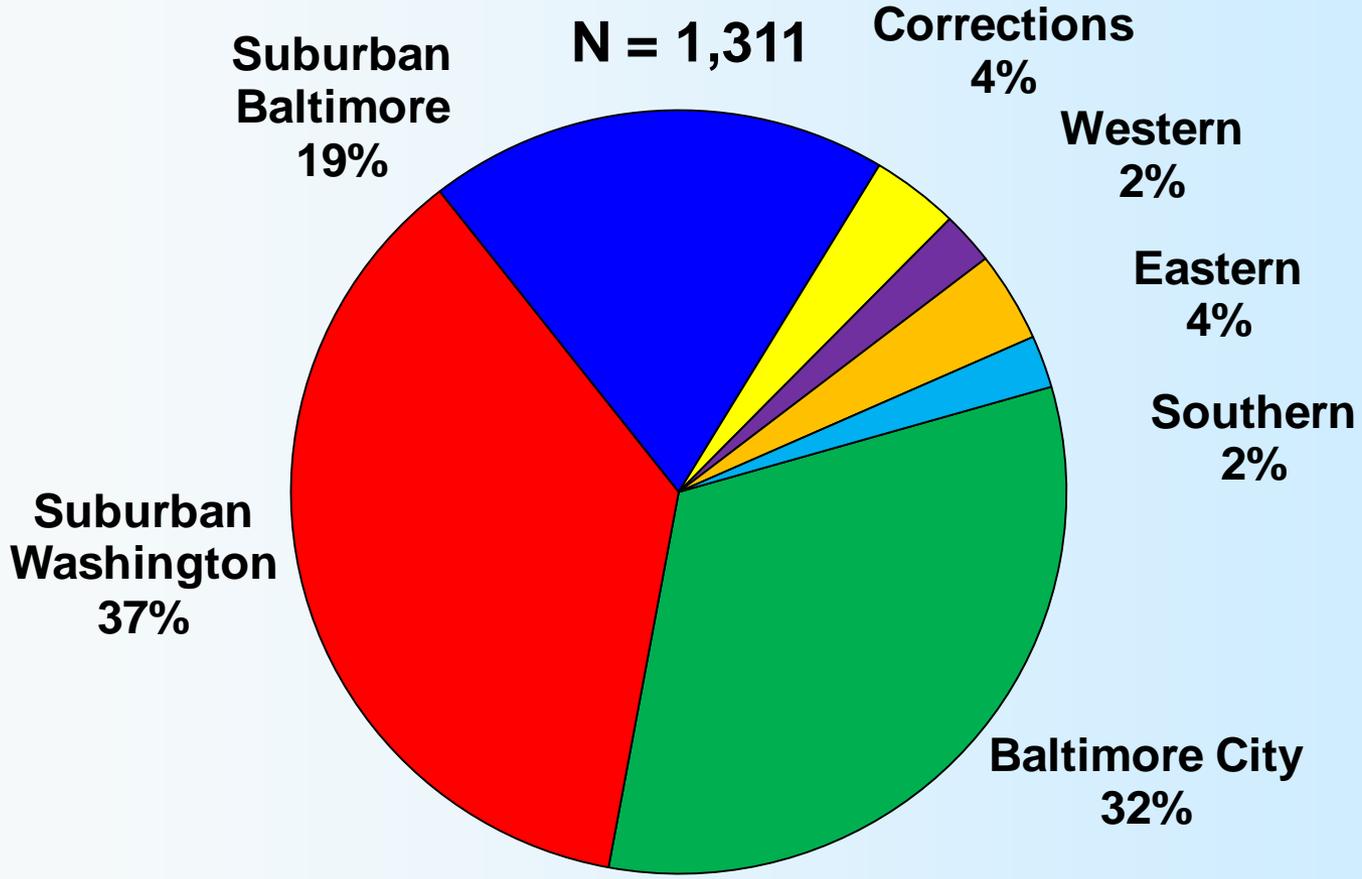
Living Adult/Adolescent HIV Cases 12/31/11 by Exposure Category and Sex at Birth



Using data as reported through 12/31/2012

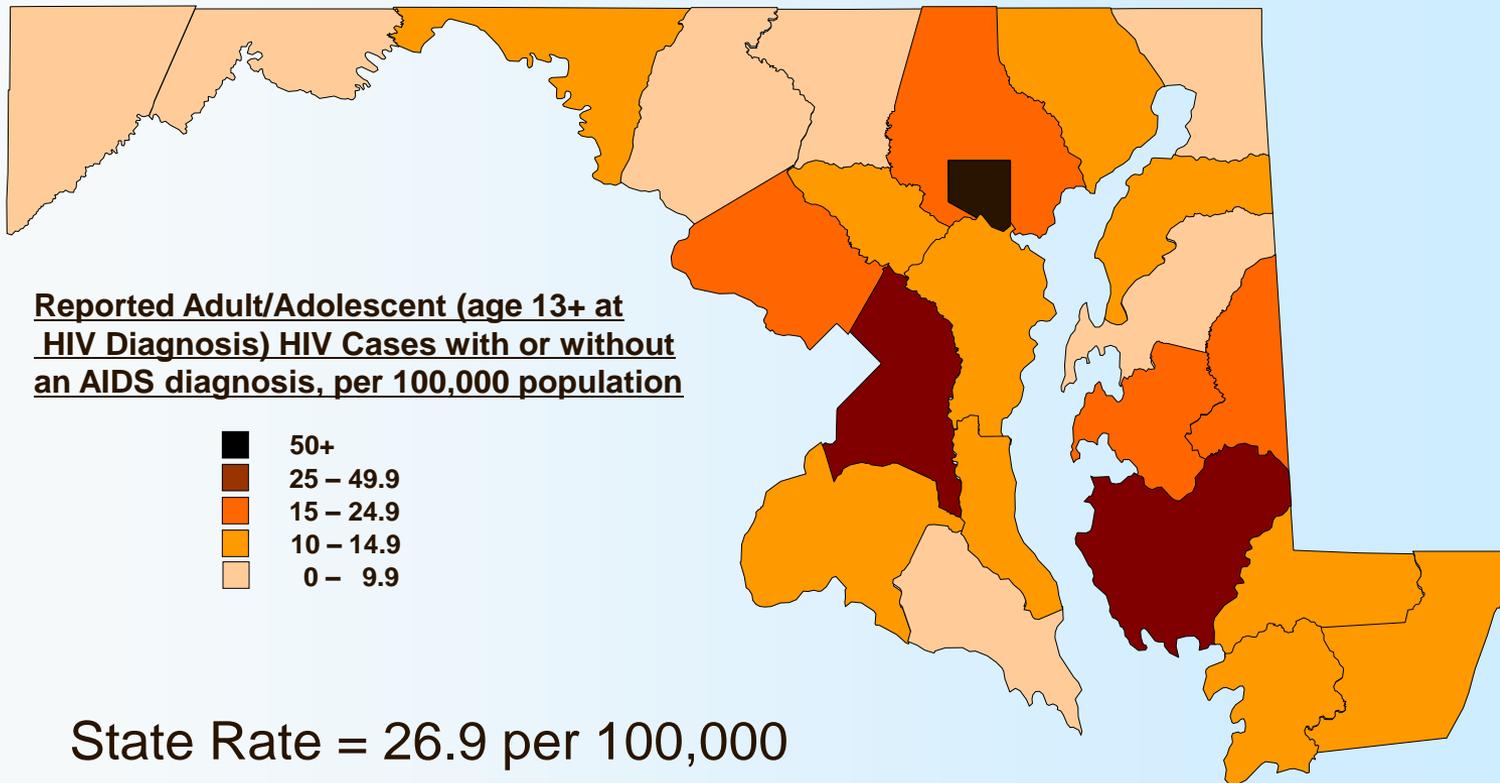


Maryland Reported Adult/Adolescent HIV Diagnoses by Region, 2011



Using data as reported through 12/31/2012

Maryland Reported Adult/ Adolescent HIV Diagnosis Rates by Jurisdiction, 2011



Using data as reported through 12/31/2012

2011 Reported Adult/ Adolescent HIV Diagnoses (N=1,311)

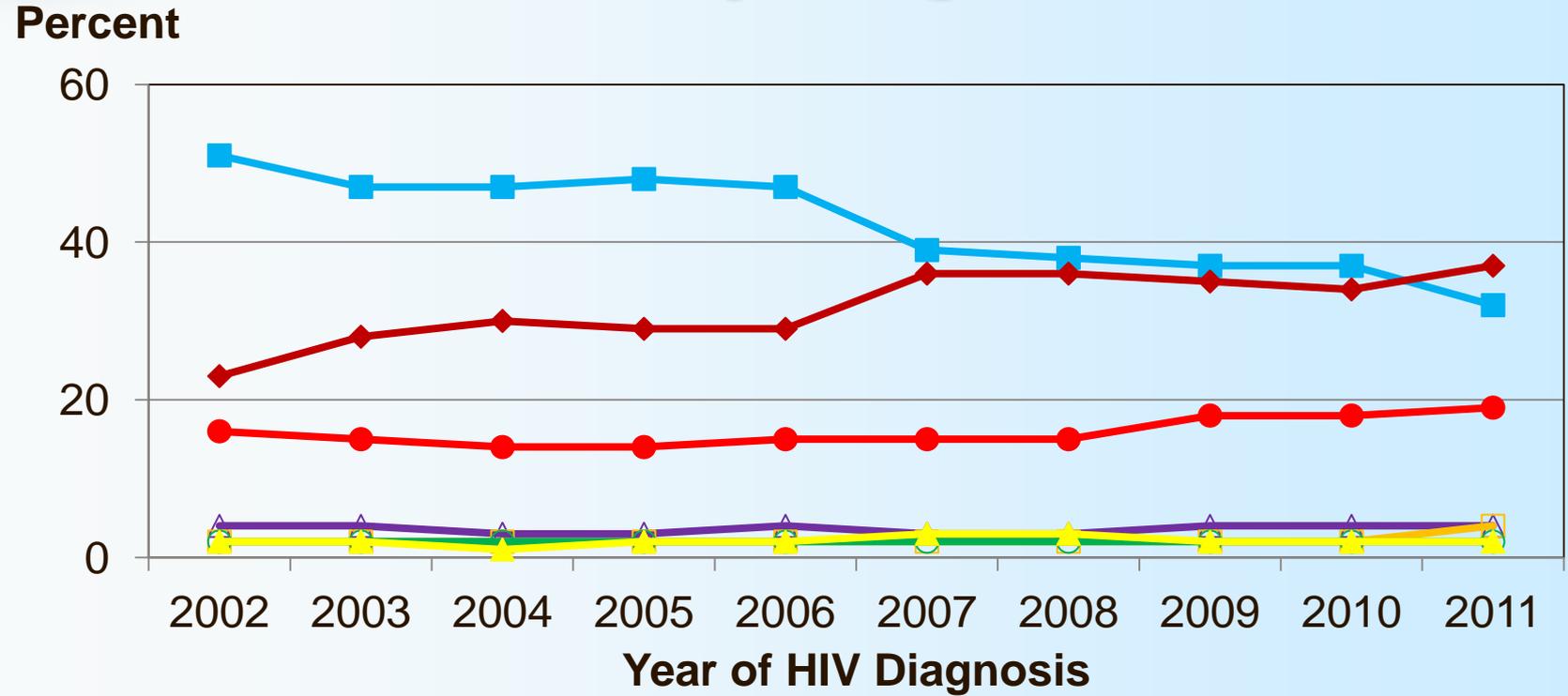


- Linkage to Care: 70% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 77% had a CD4 test within 12 months of HIV diagnosis, and the median value was 335 cells/microliter
- Late HIV Diagnosis: 32% had an AIDS diagnosis within 12 months of their HIV diagnosis



Epidemiological Trends

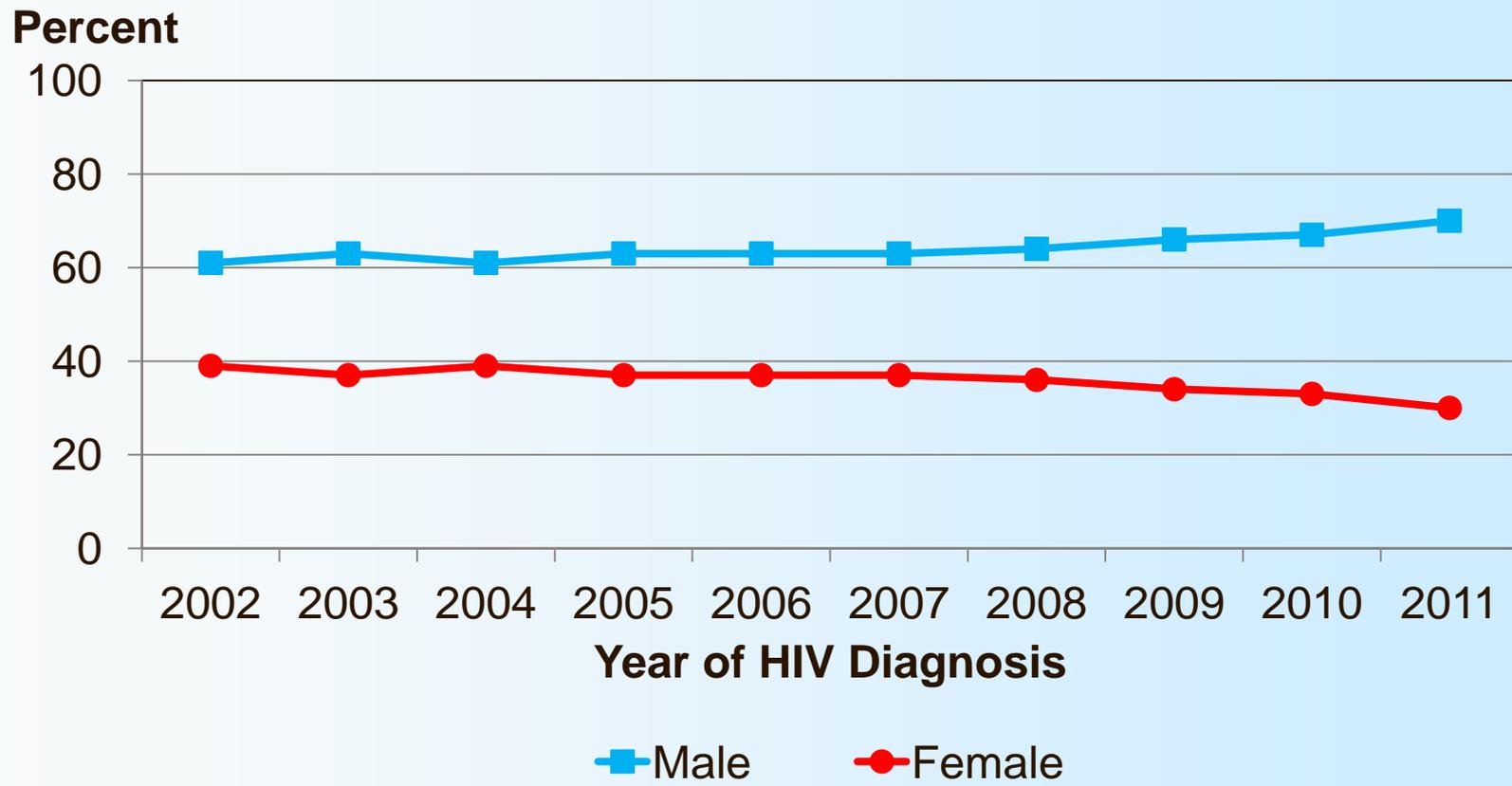
Reported Adult/Adolescent HIV Diagnosis Trends by Region



- Baltimore City
- Suburban Baltimore
- ◆ Suburban Washington
- ▲ Corrections
- Eastern
- Southern
- ★ Western

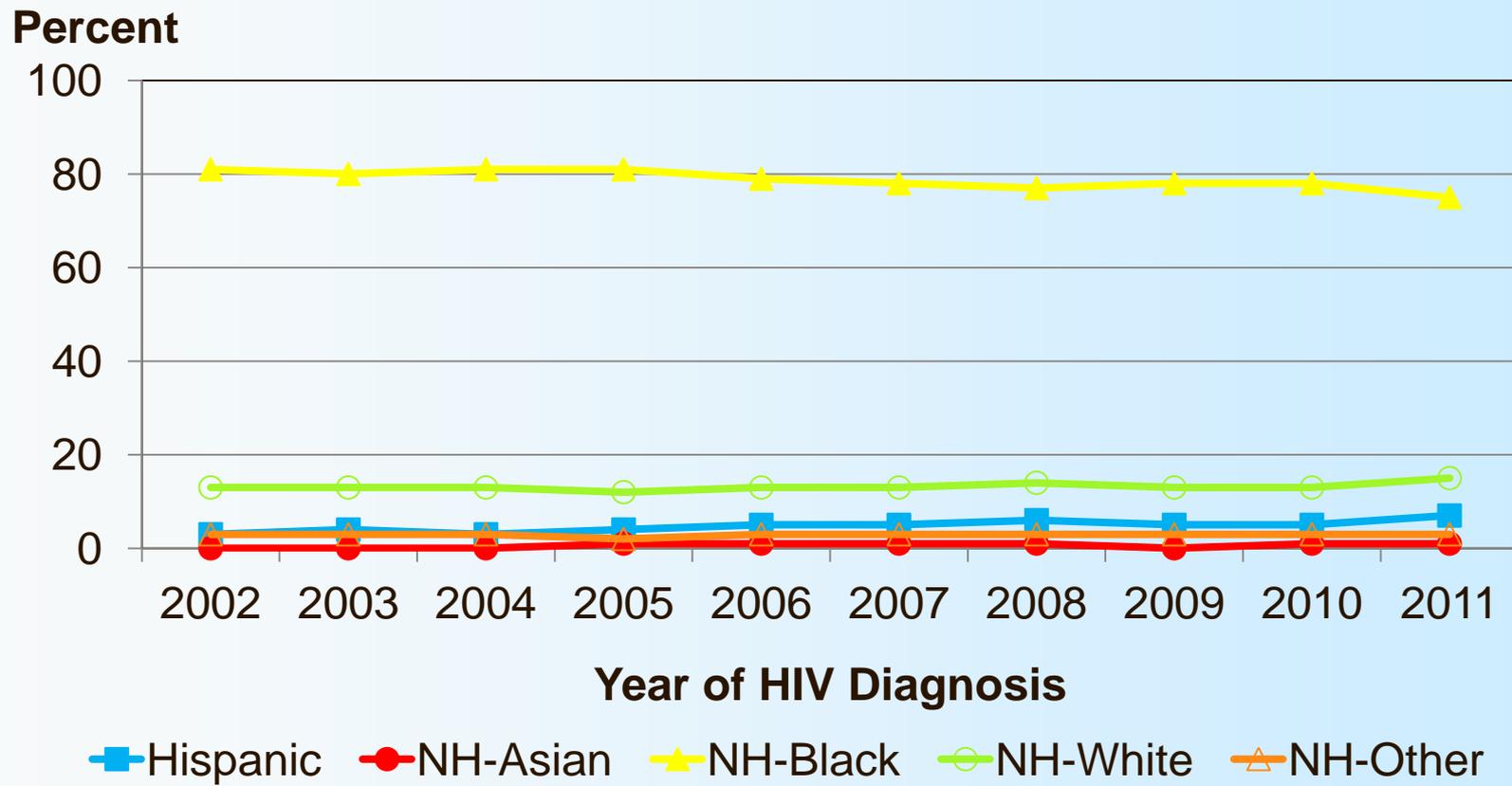
Using data as reported through 12/31/2012

Reported Adult/Adolescent HIV Diagnosis Trends by Sex at Birth



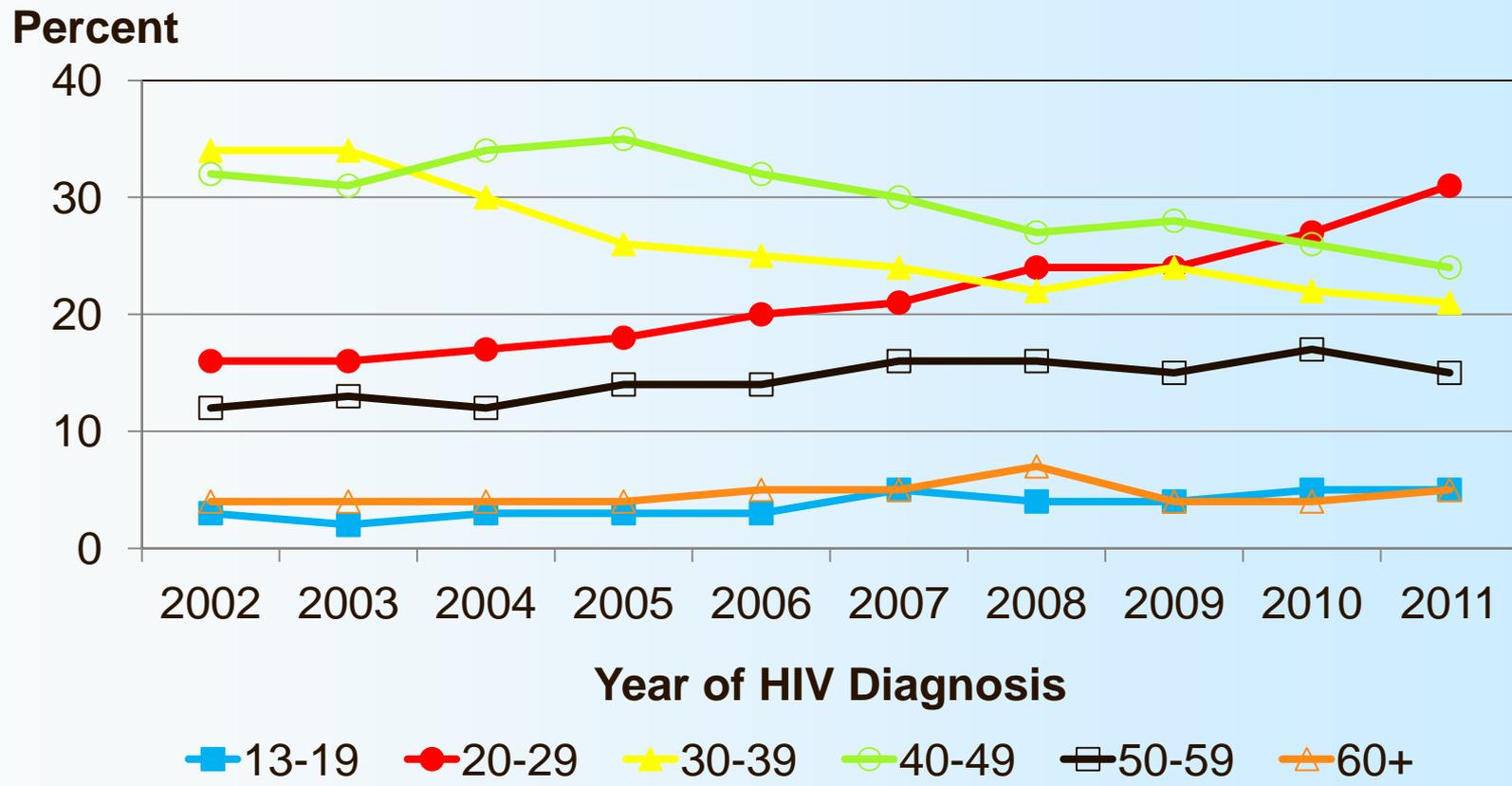
Using data as reported through 12/31/2012

Reported Adult/Adolescent HIV Diagnosis Trends by Race/Ethnicity



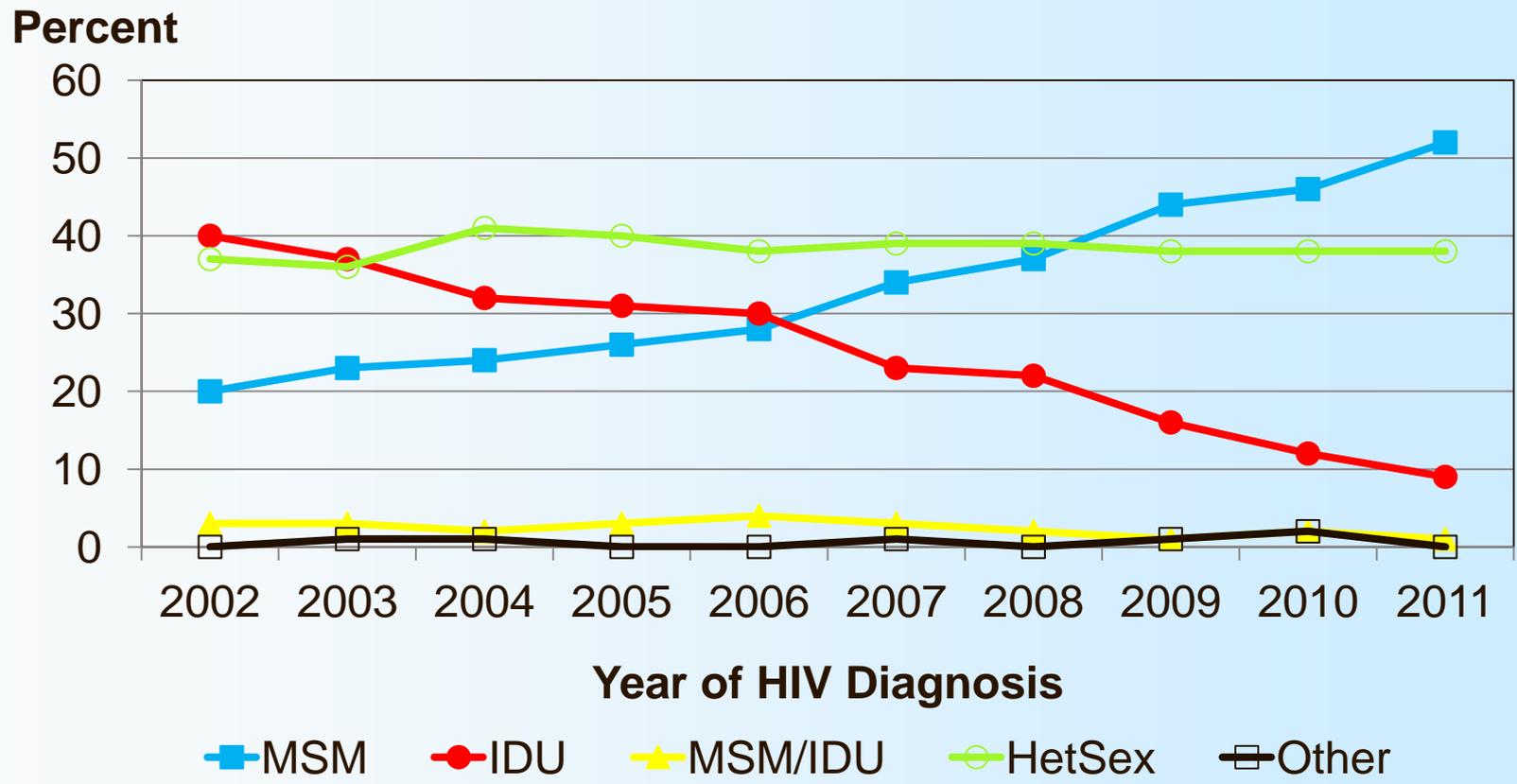
Using data as reported through 12/31/2012

Reported Adult/Adolescent HIV Diagnosis Trends by Age at Diagnosis



Using data as reported through 12/31/2012

Reported Adult/Adolescent HIV Diagnosis Trends by Exposure Category



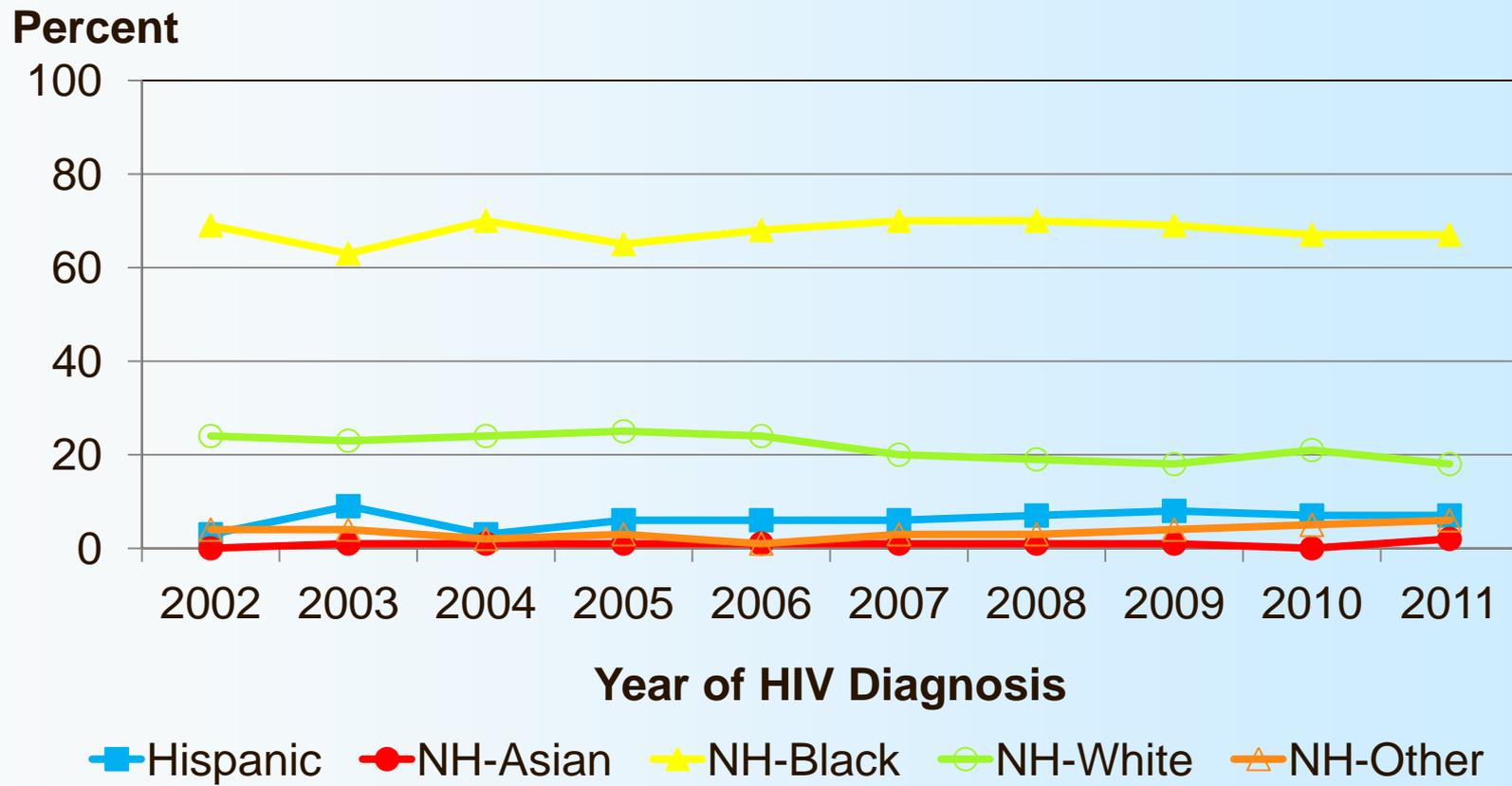
Using data as reported through 12/31/2012



Maryland Reported HIV Diagnosis Trends

MSM Exposure

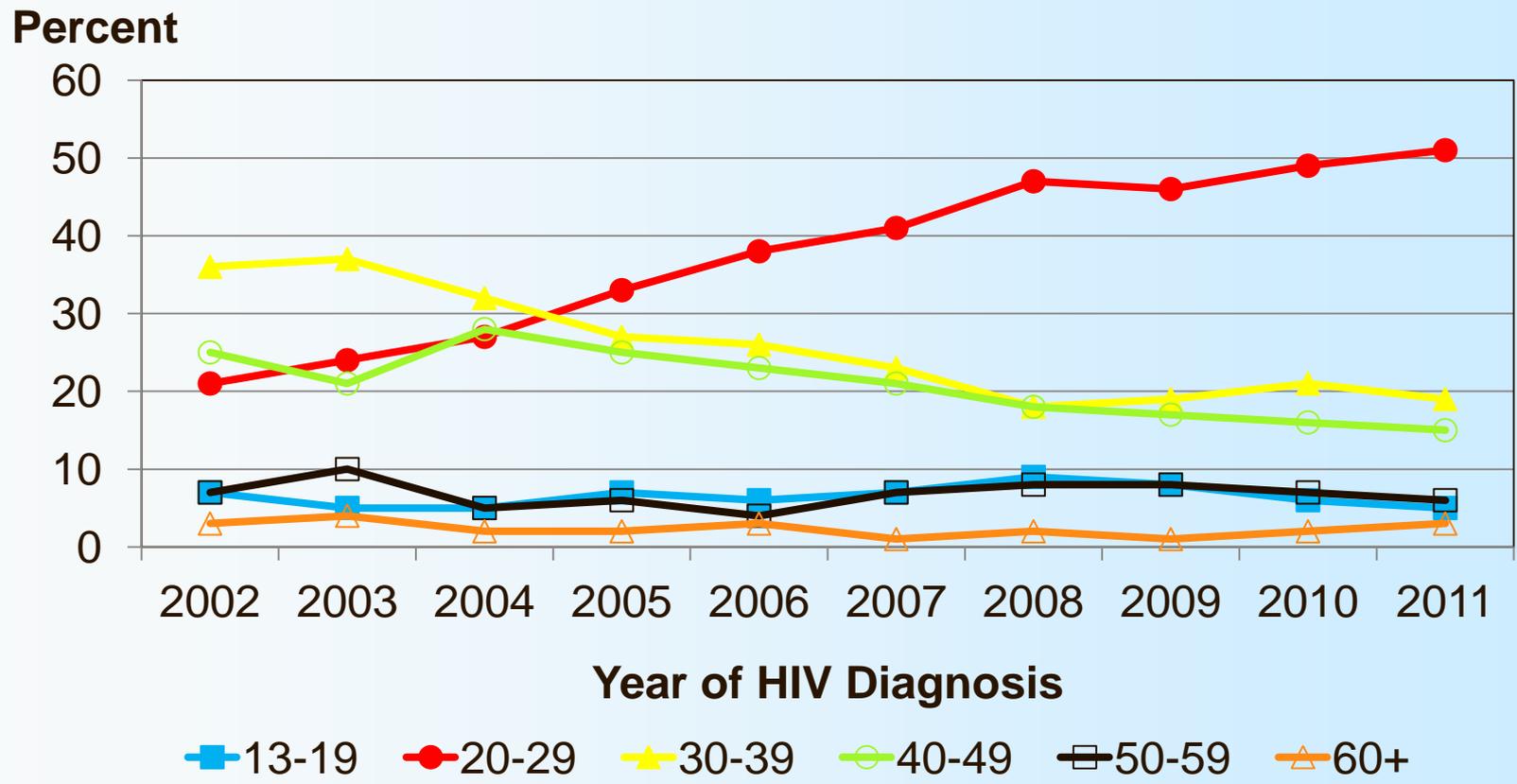
Reported Adult/Adolescent HIV Diagnosis Trends by Race/Ethnicity – MSM Exposure



Using data as reported through 12/31/2012



Reported Adult/Adolescent HIV Diagnosis Trends by Age at Diagnosis – MSM Exposure



Using data as reported through 12/31/2012

2011 Reported Adult/ Adolescent MSM HIV Diagnoses (N=278)



- Linkage to Care: 77% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 86% had a CD4 test within 12 months of HIV diagnosis, and the median value was 352 cells/microliter
- Late HIV Diagnosis: 29% had an AIDS diagnosis within 12 months of their HIV diagnosis

Behavioral Surveillance MSM Overview



	Wave 1 June 2004 – Apr 2005	Wave 2 Aug – Nov 2008	Wave 3 Aug – Dec 2011
Data collection method	Venue – based	Venue – based	Venue – based
Total recruited*	645	448	403
HIV prevalence	37.7%	37.5%	42.4%
Unrecognized infection	58.4%	78.4%	67.3%

*MSM during past year with completed survey and HIV test

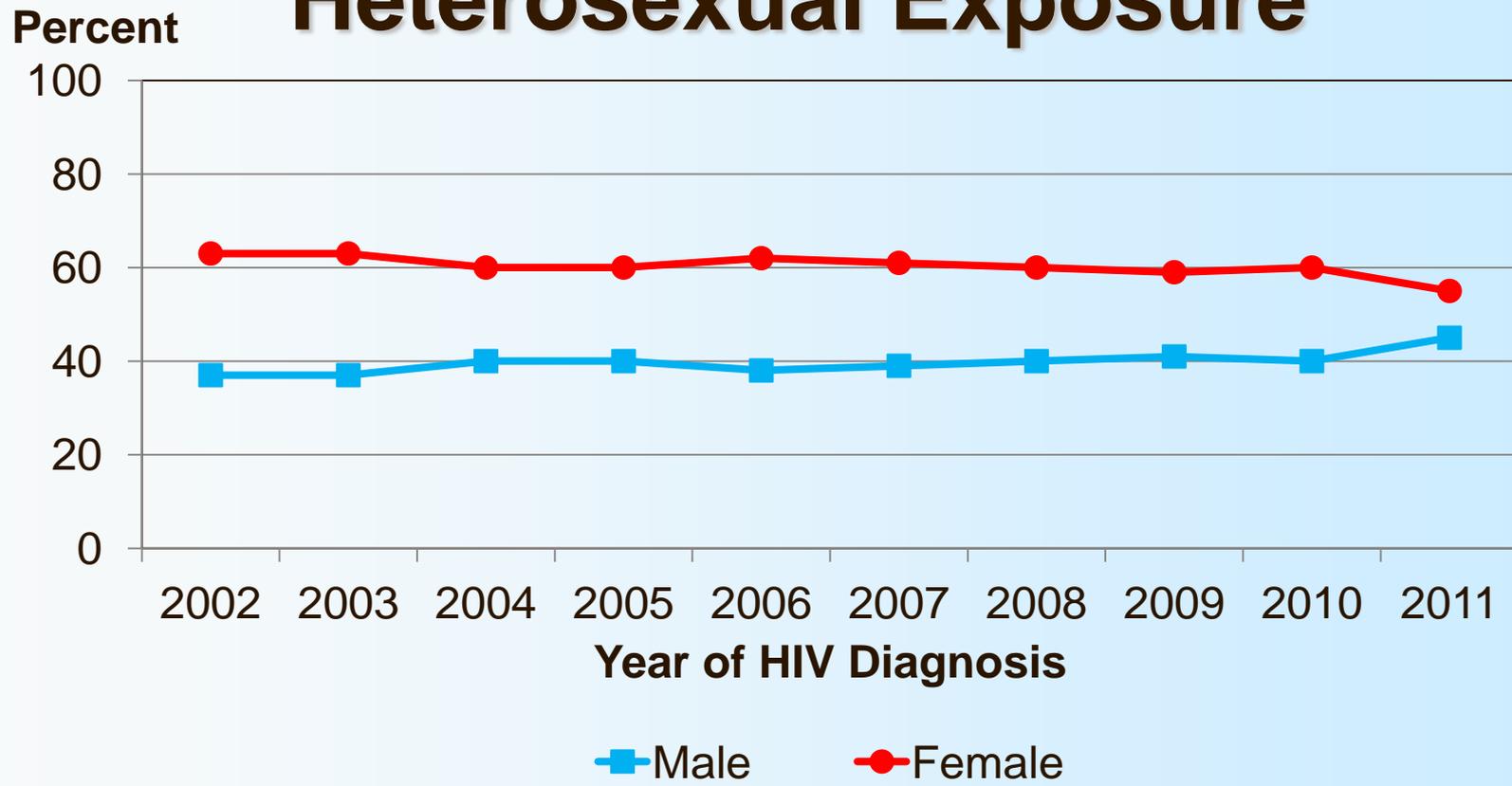


Maryland Reported HIV Diagnosis Trends

Heterosexual Exposure



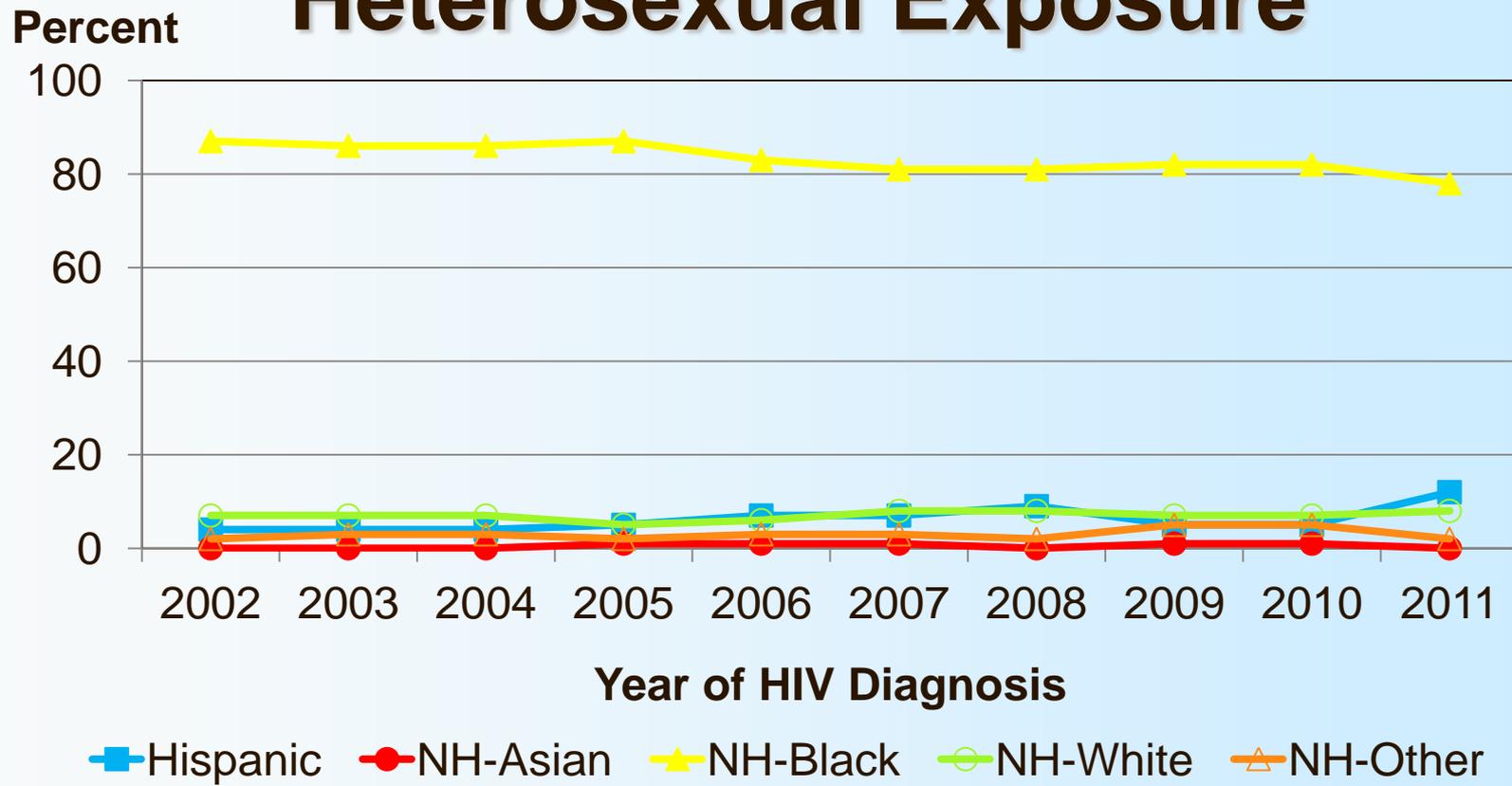
Reported Adult/Adolescent HIV Diagnosis Trends by Sex at Birth Heterosexual Exposure



Using data as reported through 12/31/2012

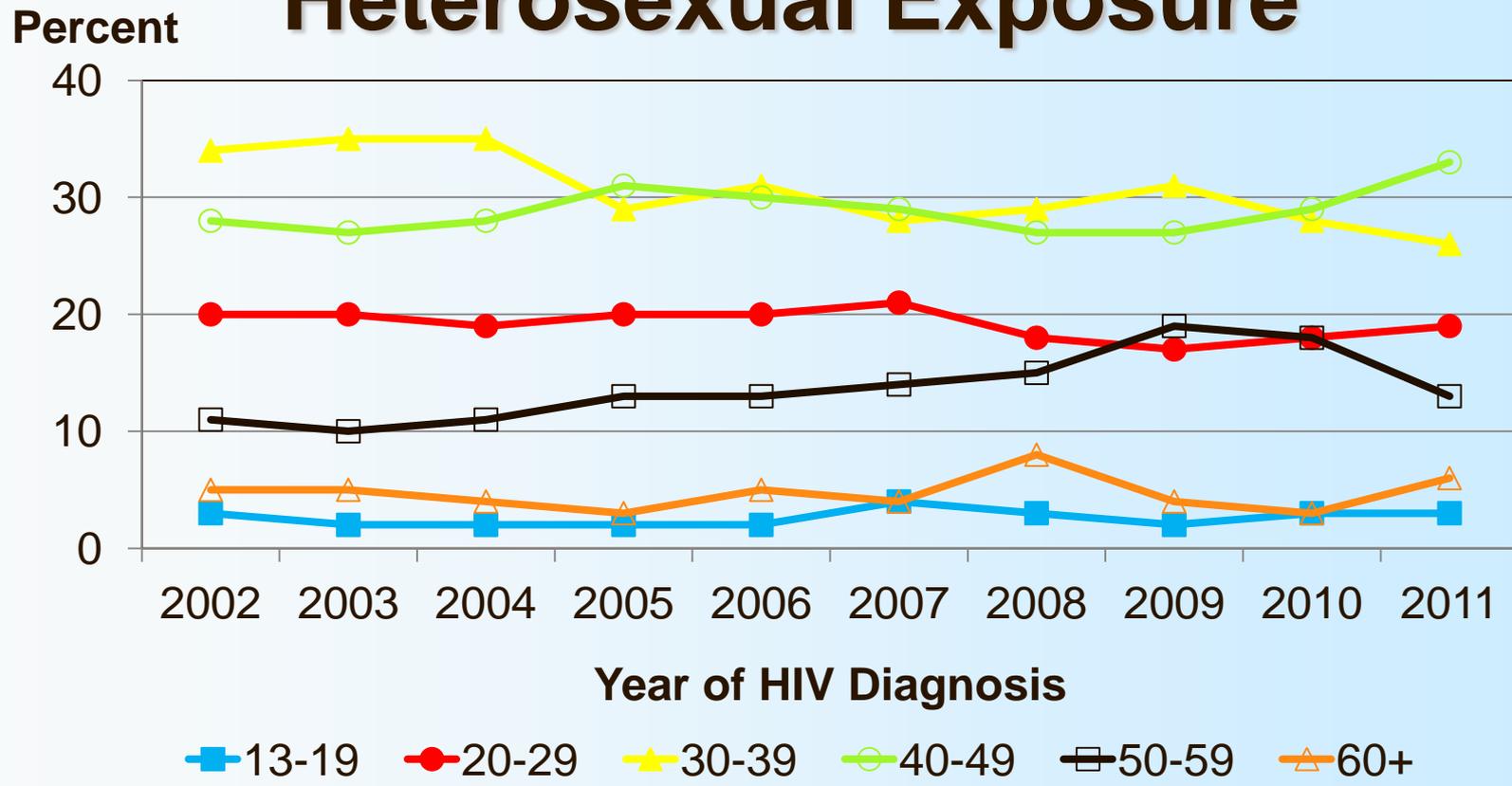


Reported Adult/Adolescent HIV Diagnosis Trends by Race/ Ethnicity Heterosexual Exposure



Using data as reported through 12/31/2012

Reported Adult/Adolescent HIV Diagnosis Trends by Age at Diagnosis Heterosexual Exposure



Using data as reported through 12/31/2012

2011 Reported Adult/ Adolescent Heterosexual HIV Diagnoses (N=205)



- Linkage to Care: 83% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 93% had a CD4 test within 12 months of HIV diagnosis, and the median value was 324 cells/microliter
- Late HIV Diagnosis: 42% had an AIDS diagnosis within 12 months of their HIV diagnosis

Behavioral Surveillance HET Overview



	Wave 1 July – Oct 2007	Wave 2 Sept – Dec 2010
Data collection method	Venue – based	Respondent Driven
Total recruited*	332	338
HIV prevalence	3.9%	6.3%
Unrecognized infection	83.3%	62.5%

Wave 3 recruitment to start in July

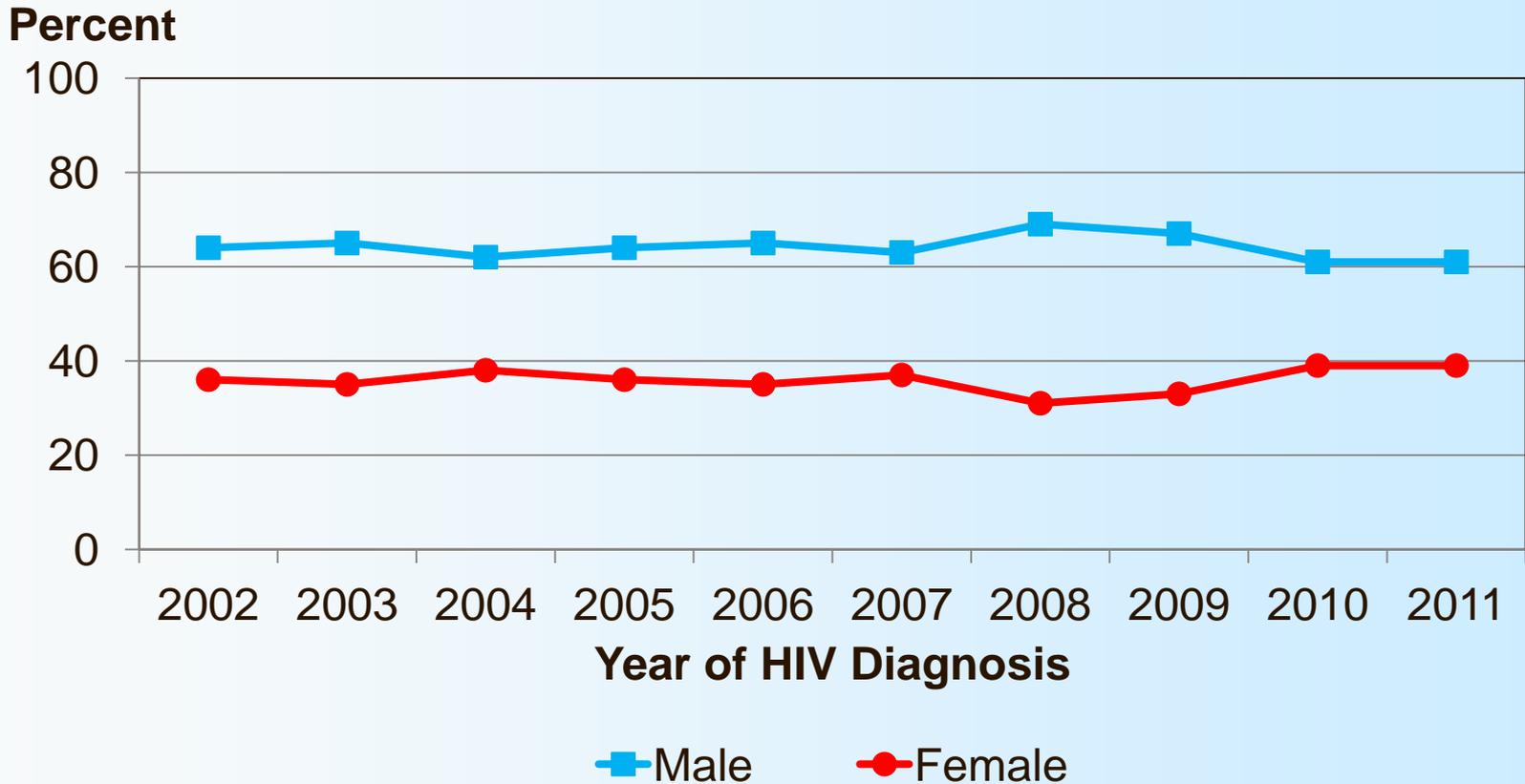
*Heterosexual during past year with completed survey and HIV test



Maryland Reported HIV Diagnosis Trends

IDU Exposure

Reported Adult/Adolescent HIV Diagnosis Trends by Sex at Birth – IDU Exposure

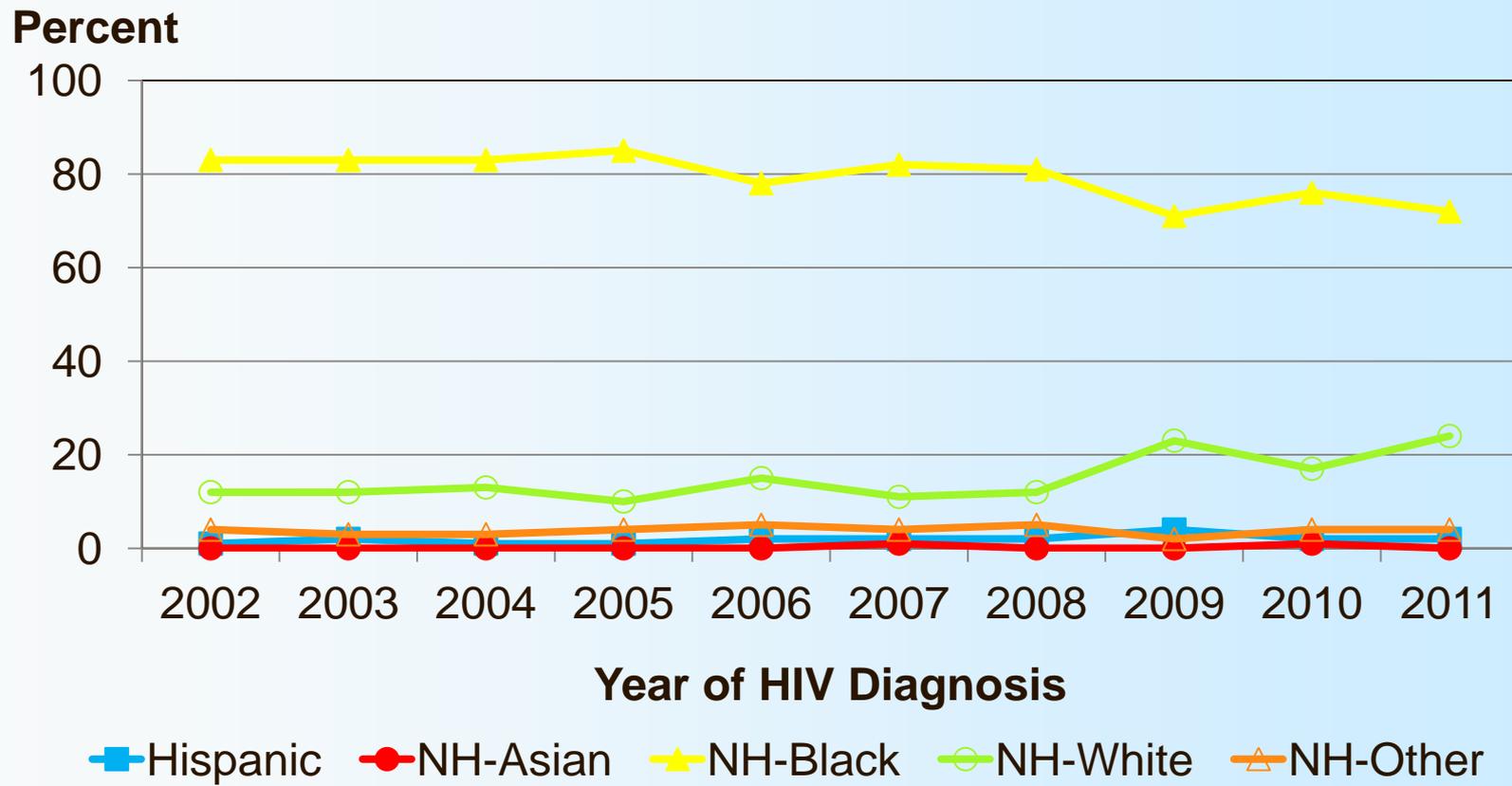


Using data as reported through 12/31/2012

Reported Adult/Adolescent HIV Diagnosis Trends



by Race/ Ethnicity – IDU Exposure

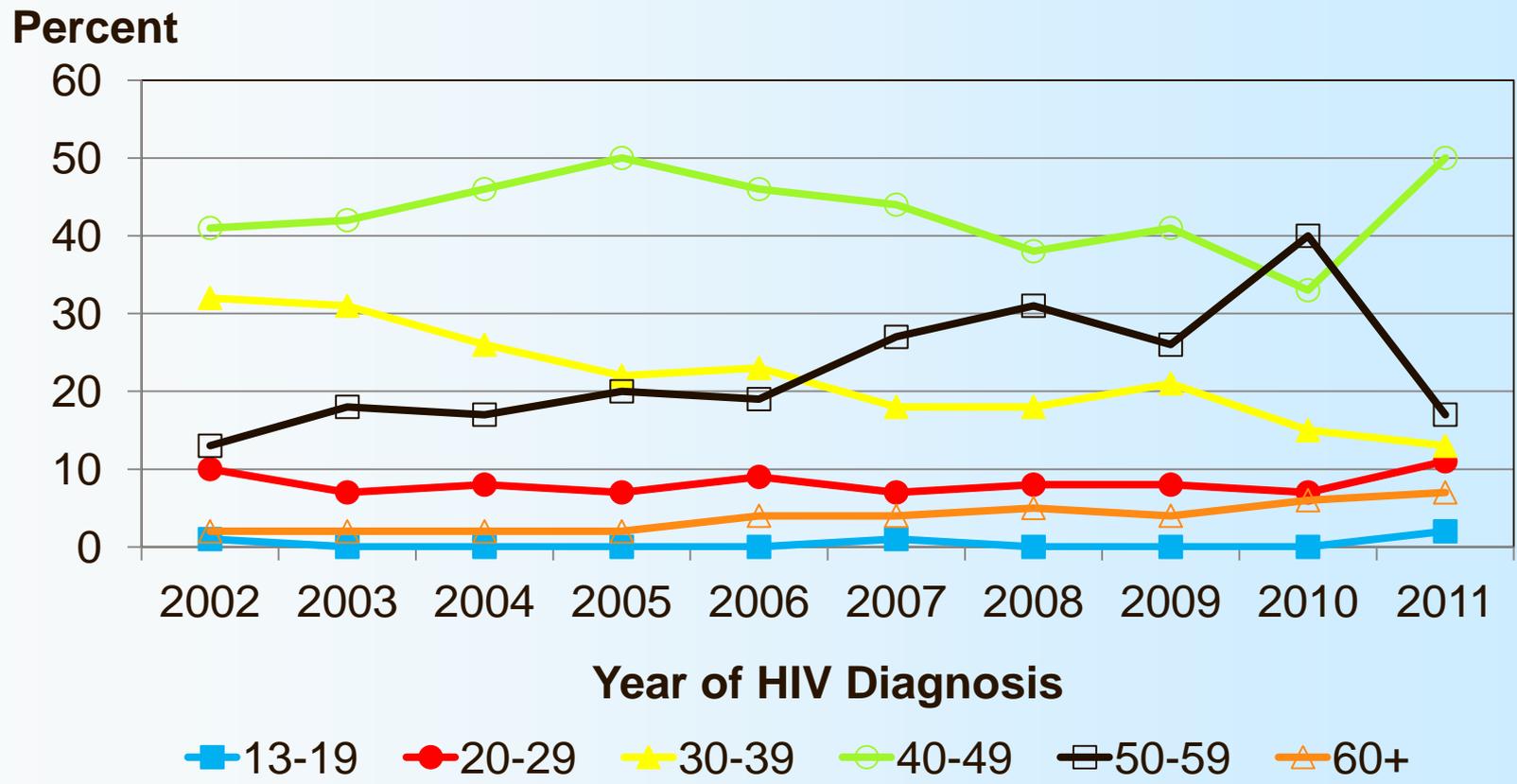


Using data as reported through 12/31/2012

Reported Adult/Adolescent HIV Diagnosis Trends



by Age at Diagnosis – IDU Exposure



Using data as reported through 12/31/2012

2011 Reported Adult/ Adolescent IDU HIV Diagnoses (N=46)



- Linkage to Care: 72% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 76% had a CD4 test within 12 months of HIV diagnosis, and the median value was 359 cells/microliter
- Late HIV Diagnosis: 28% had an AIDS diagnosis within 12 months of their HIV diagnosis

Behavioral Surveillance IDU Overview



	Wave 1 Aug 2006 – Jan 2007	Wave 2 Sept – Dec 2009	Wave 3 Aug – Dec 2012
Data collection method	Respondent Driven	Respondent Driven	Respondent Driven
Total recruited*	539	507	620
HIV prevalence	11.9%	16.2%	23.2%
Unrecognized infection	50%	48%	27.8%

*IDU during past year with completed survey and HIV test



Moving Forward

NHAS Goal 1

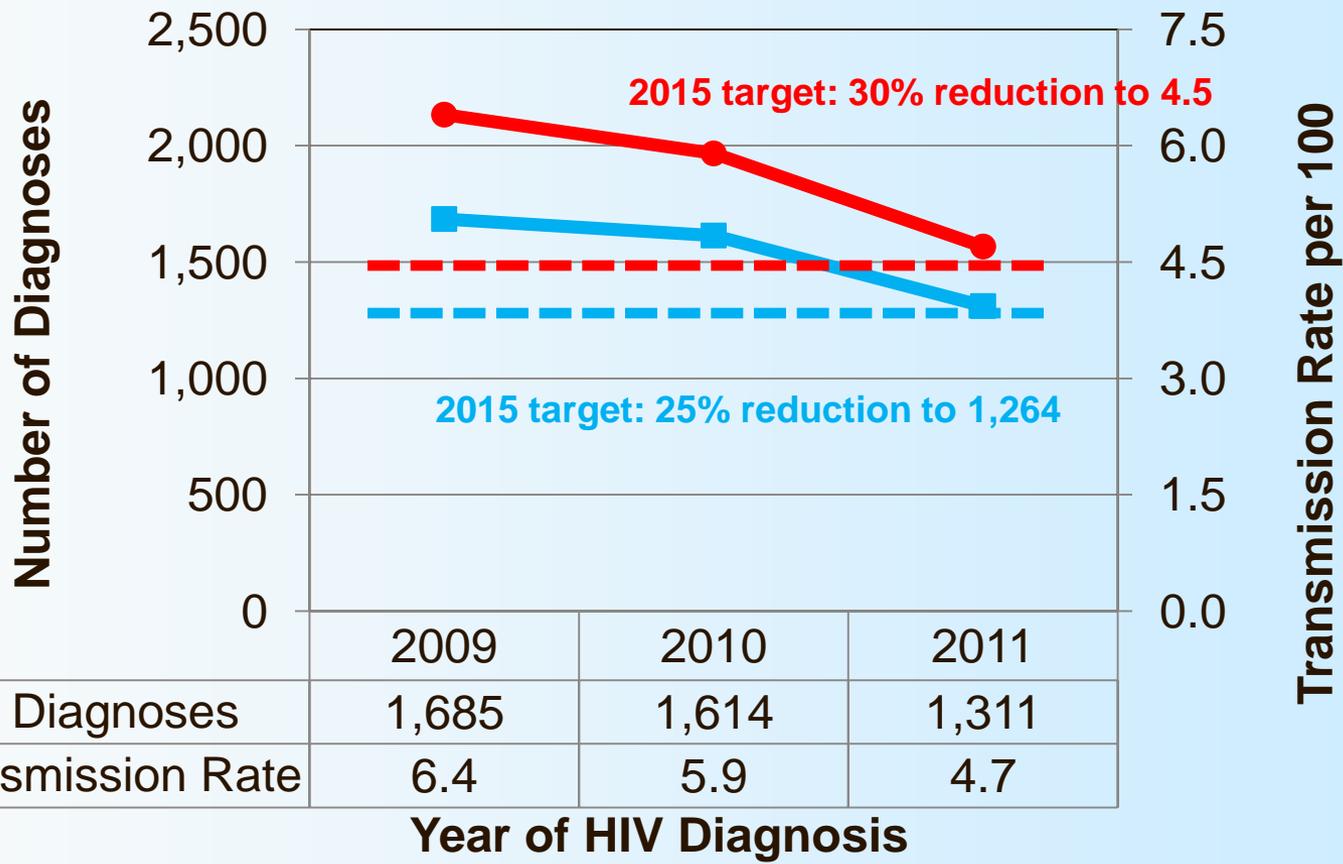
Reducing Incidence



- By 2015, lower the annual number of new HIV infections by 25%
 - Reduce the HIV transmission rate by 30%
 - Increase from 79% to 90% the percentage of people living with HIV who know their status



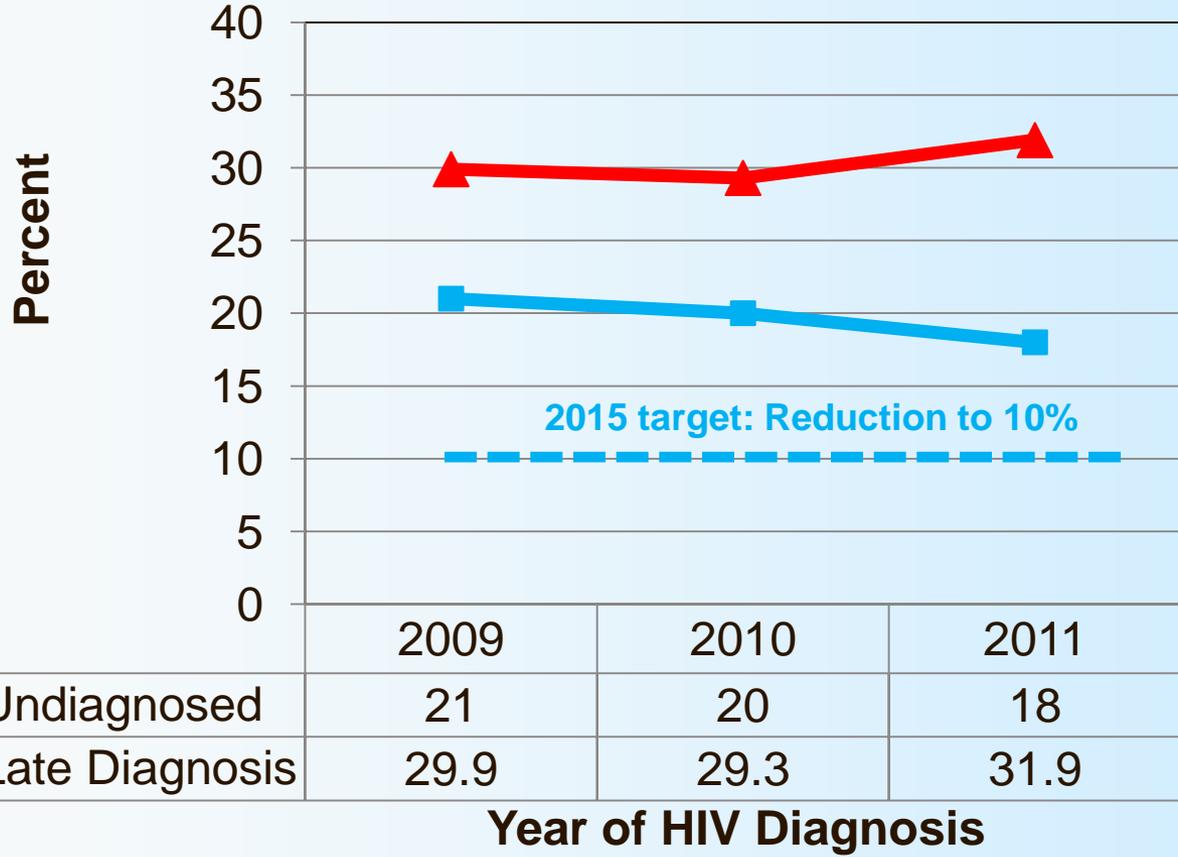
NHAS Goal 1 Progress



Using data as reported through 12/31/2012



NHAS Goal 1 Progress



Using data as reported through 12/31/2012

NHAS Goal 2

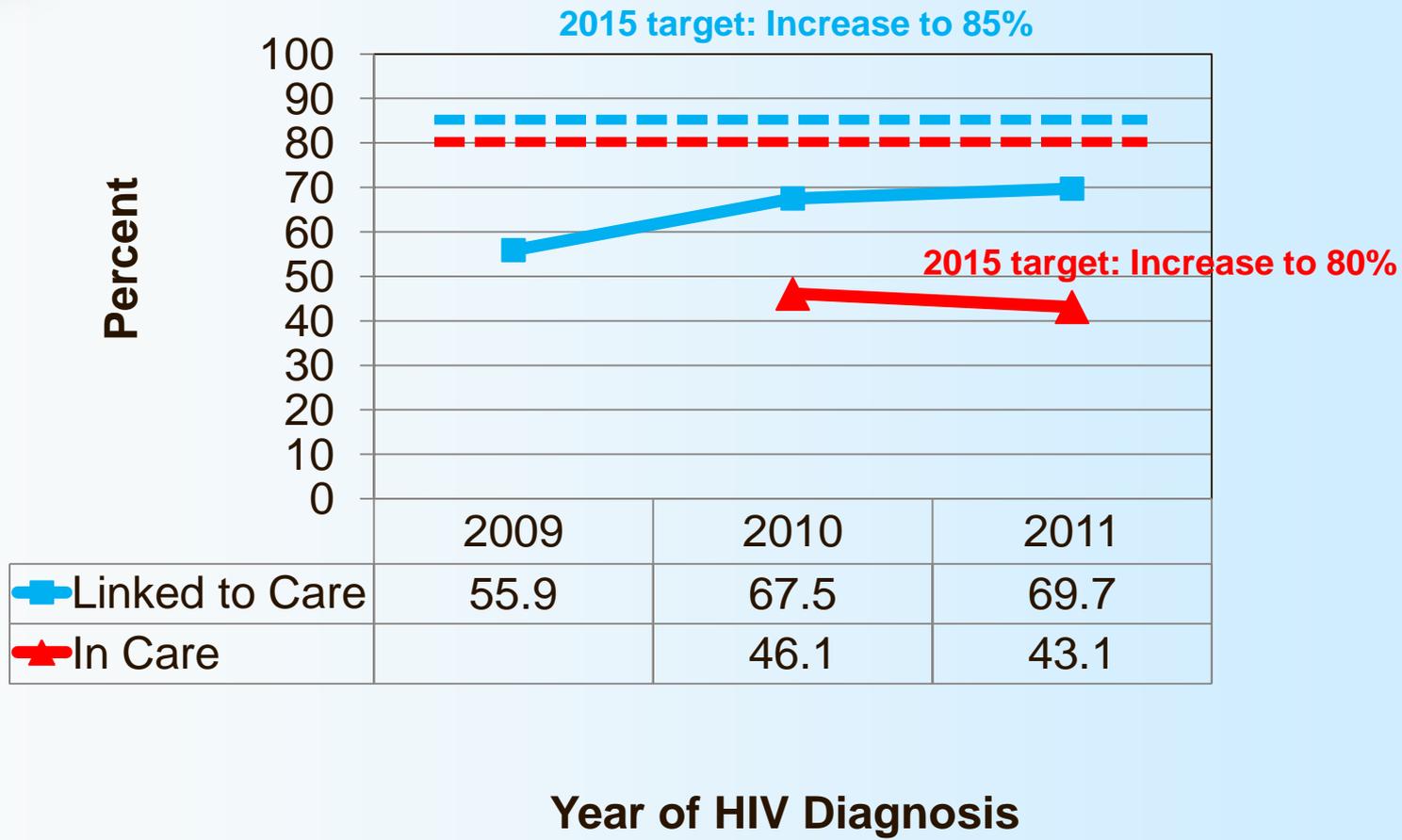
Increasing Access



- By 2015:
 - Increase the proportion of newly diagnosed patients linked to clinical care within three months of their HIV diagnosis from 65 percent to 85 percent
 - Increase the proportion of Ryan White HIV/AIDS Program clients who are in continuous care (at least 2 visits for routine HIV medical care in 12 months at least 3 months apart) from 73 percent to 80 percent



NHAS Goal 2 Progress



Using data as reported through 12/31/2012

NHAS Goal 3

Reducing Disparities



- By 2015:
 - Increase the proportion of HIV diagnosed gay and bisexual men with undetectable viral load by 20 percent.
 - Increase the proportion of HIV diagnosed Blacks with undetectable viral load by 20 percent.
 - Increase the proportion of HIV diagnosed Latinos with undetectable viral load by 20 percent.

NHAS Goal 3 Progress

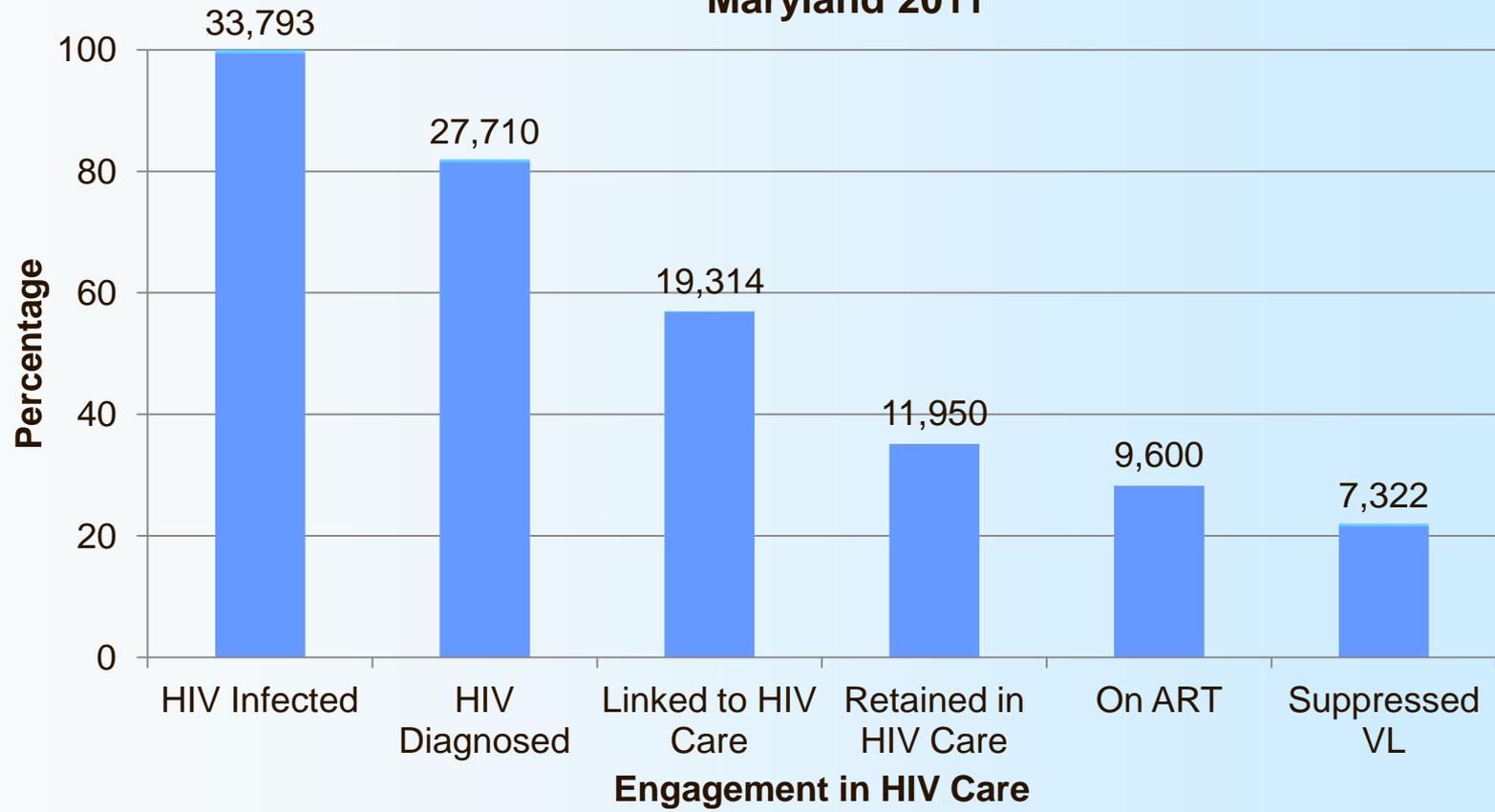


Population	Percent Alive on 12/31/2010 with Undetectable Viral Load in 2010 as Reported through 12/31/2011	Percent Alive on 12/31/2011 with Suppressed Viral Load in 2011 as Reported through 12/31/2012
Adult/adolescent	20.6%	26.4%
Adult/adolescent MSM	21.7%	26.6%
Adult/adolescent non-Hispanic Black	19.9%	25.9%
Adult/adolescent Hispanic	23.4%	29.0%



Continuum of Care

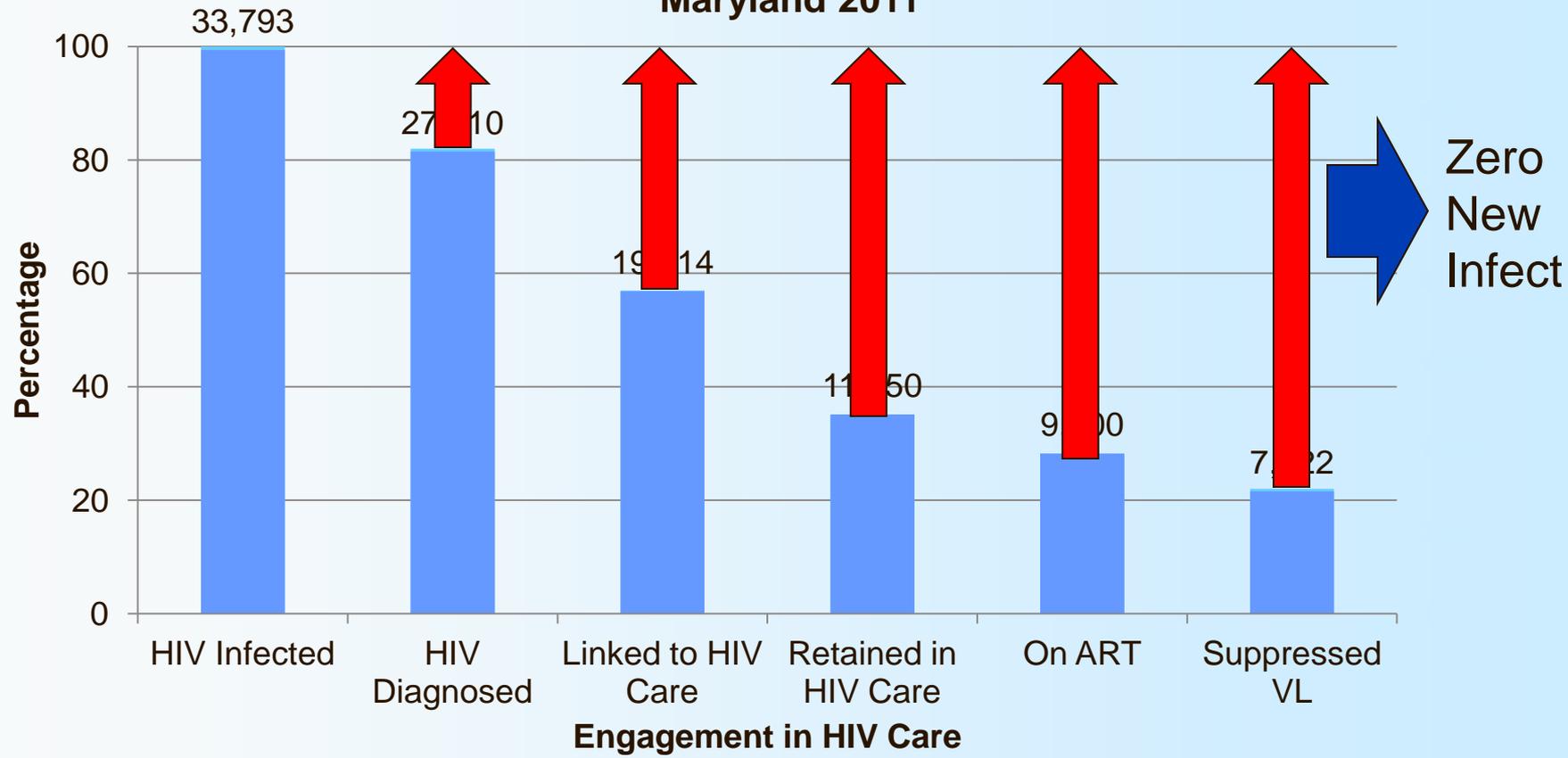
Estimated number and percentage of HIV infected adults/adolescents engaged in selected stages of the continuum of care, Maryland 2011





Continuum of Care

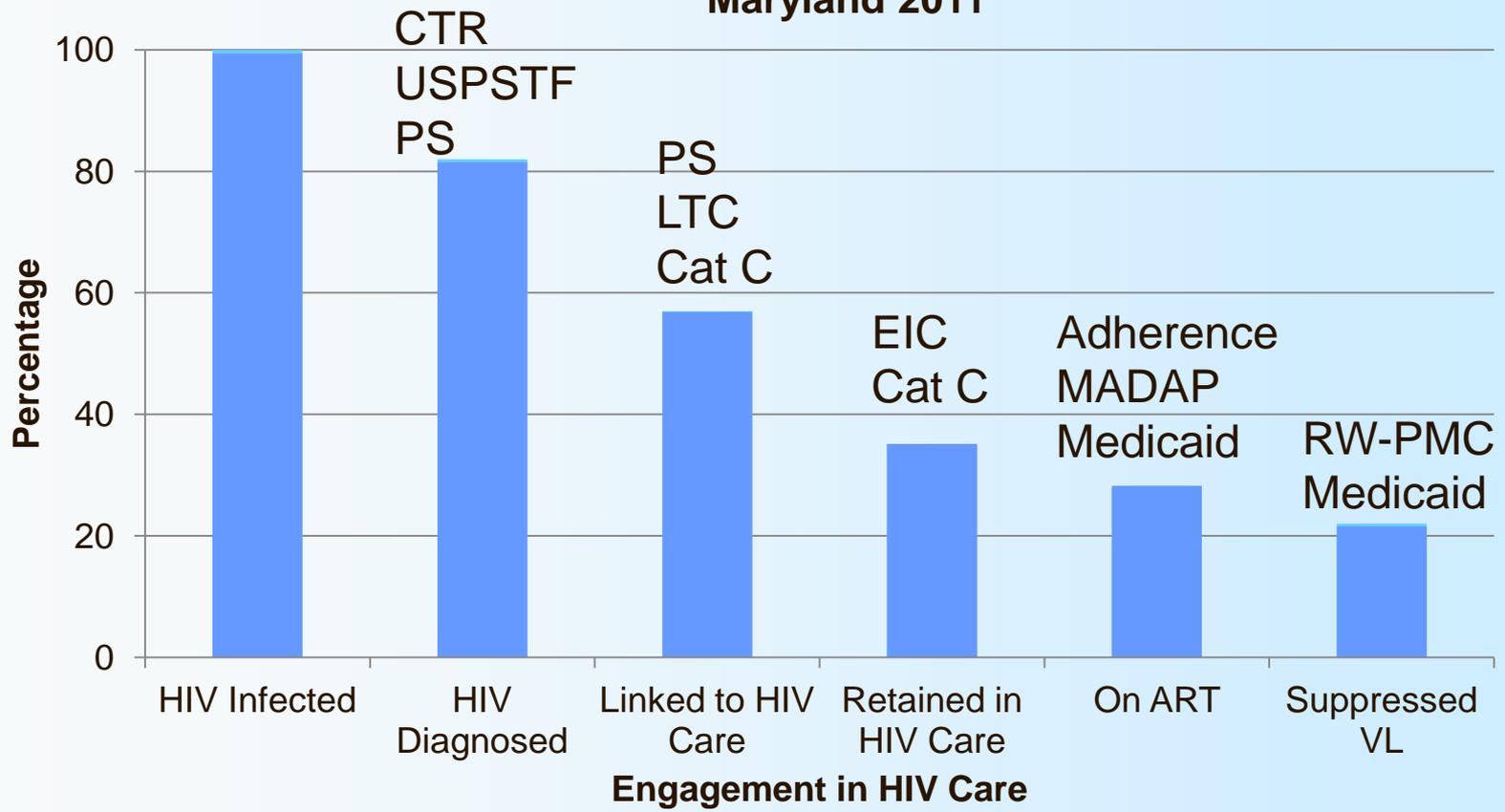
Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Maryland 2011





Continuum of Care

Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Maryland 2011





Prevention and Health Promotion Administration

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