HIV IN MARYLAND

MARYLAND HIV PLANNING GROUP
APRIL 2, 2015

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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.

U.S. Prevalence

**HIV Surveillance Report | Supplemental Report**

— Volume 19, Number 3 —

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

National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
Division of HIV/AIDS Prevention

CDC

- 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

CDC. HIV Surveillance Supplemental Report. Vol. 19, No. 3. 2014. Table 9a.

Maryland Prevention and
Health Promotion Administration
April 2, 2015
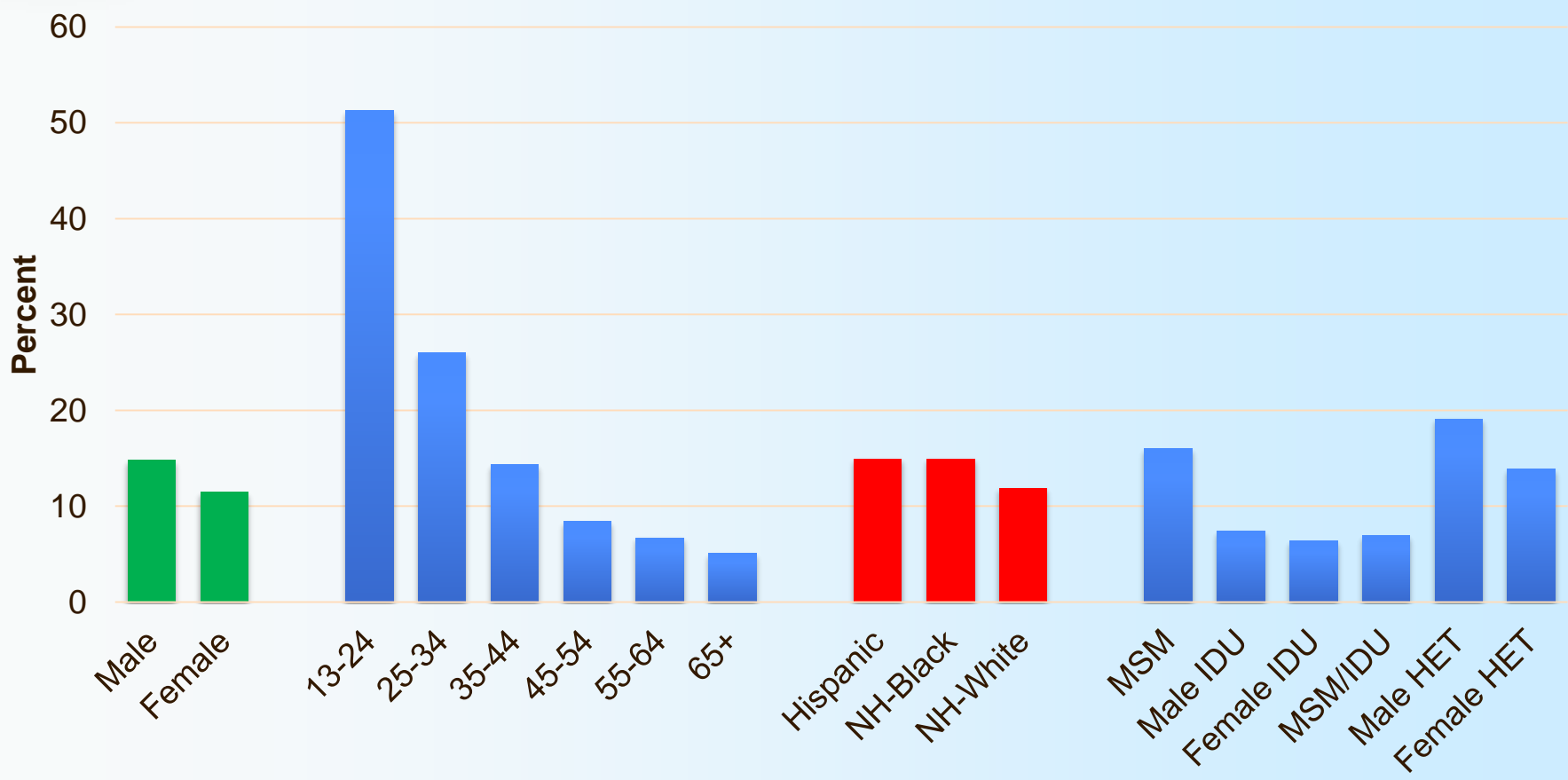
Populations with Changes in HIV Incidence

- Overall national incidence estimate is unchanged from 2008-2010 (~50K)
- 21% decrease among females
- 12% increase among MSM
- 22% increase among 13-24 year old MSM

HIV Surveillance Report | Supplemental Report

Volume 17, Number 4

Estimated HIV Incidence in the United States, 2007–2010

National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
Division of HIV/AIDS Prevention

CDC

HIV Diagnoses during 2013 Ranked by Estimated Rates

STATE/TERRITORY	Reported Cases	Estimated Cases	Estimated Rate per 100,000
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
United States	*42,018*	*48,145*	*15.0*

CDC. HIV Surveillance Report, 2013. Vol. 25. Table 18.

HIV Diagnoses during 2013 Ranked by Estimated Rates

METROPOLITAN AREA	Reported Cases	Estimated Cases	Estimated Rate per 100,000
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*
United States*	*41,994*	*48,114*	*15.0*

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

Maryland Epidemiological Data
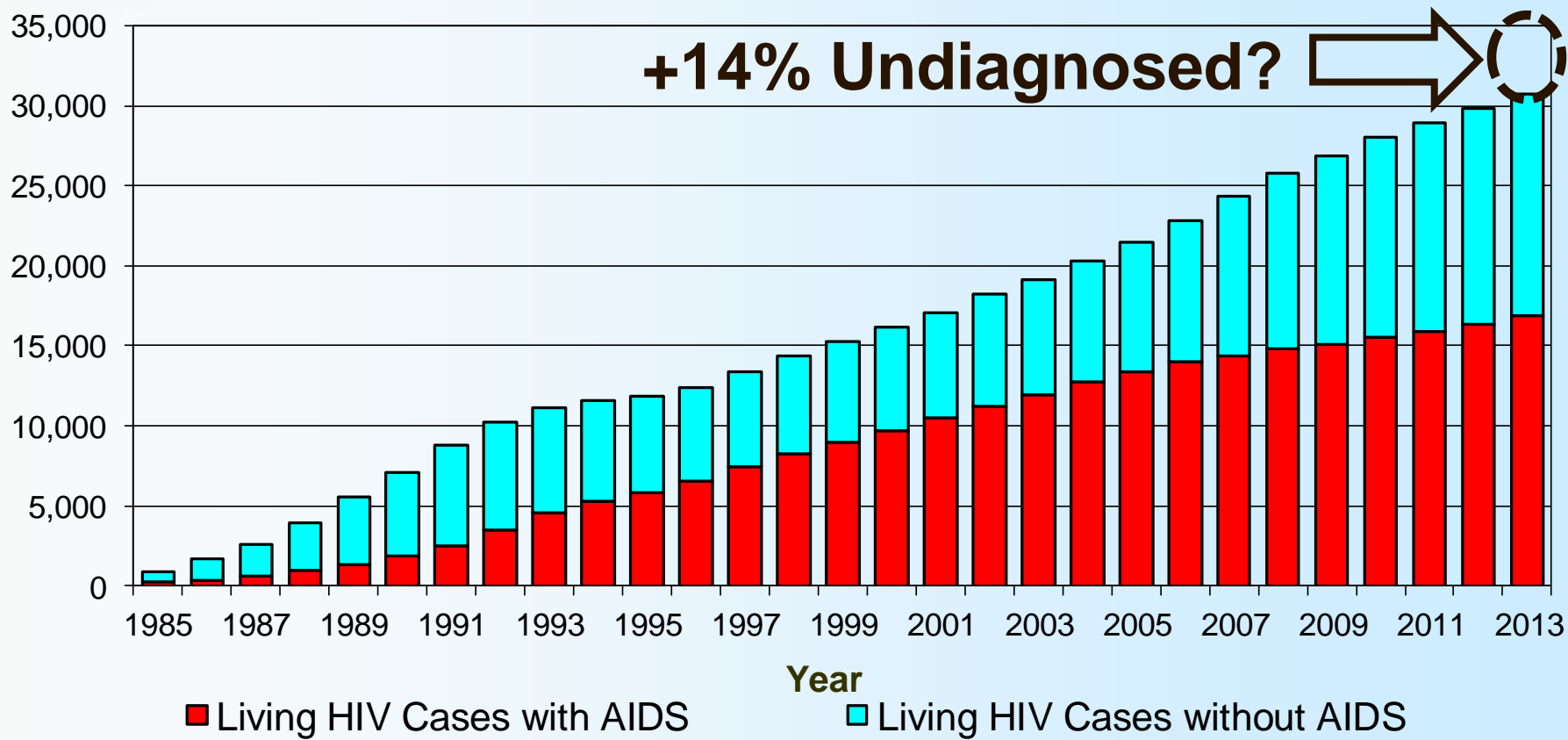
Maryland Adult/Adolescent HIV Trends

2001-2008 HIV high, due to reporting transition
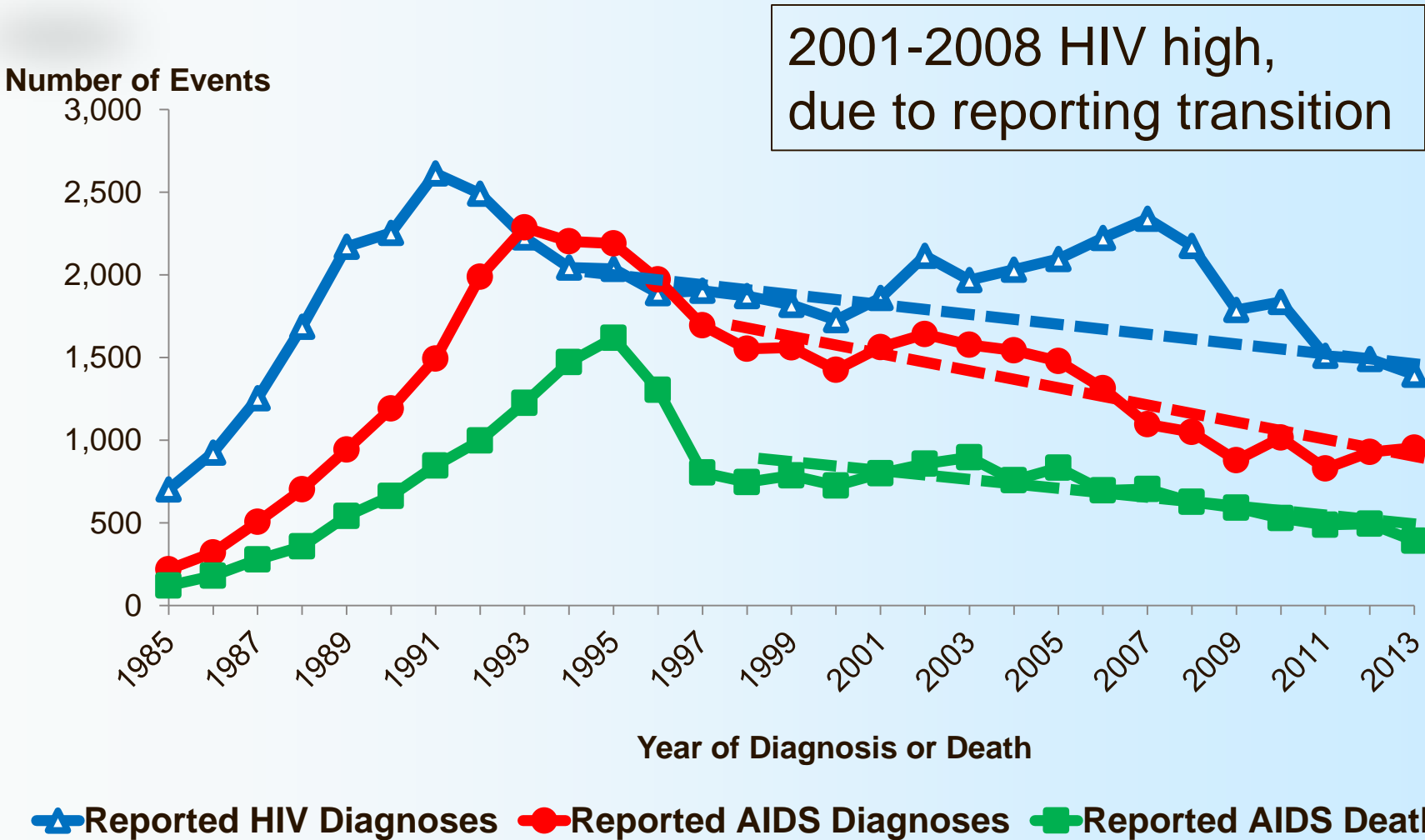
Using data as reported through 12/31/2014

Maryland Adult/Adolescent Living HIV Cases

Number of Cases

+14% Undiagnosed?

Chart: Stacked bar chart showing number of cases by year from 1985 to 2013, with Y-axis from 0 to 35,000.

Legend:
- ■ Living HIV Cases with AIDS (red)
- ■ Living HIV Cases without AIDS (cyan)

Year

Using data as reported through 12/31/2014

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	No.
(during 2013)	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 Adult/Adolescent Living HIV Cases by Region, 12/31/13

N = 30,255

- Suburban Baltimore 15%
- Corrections 5%
- Western 2%
- Eastern 2%
- Southern 2%
- Baltimore City 41%
- Suburban Washington 33%
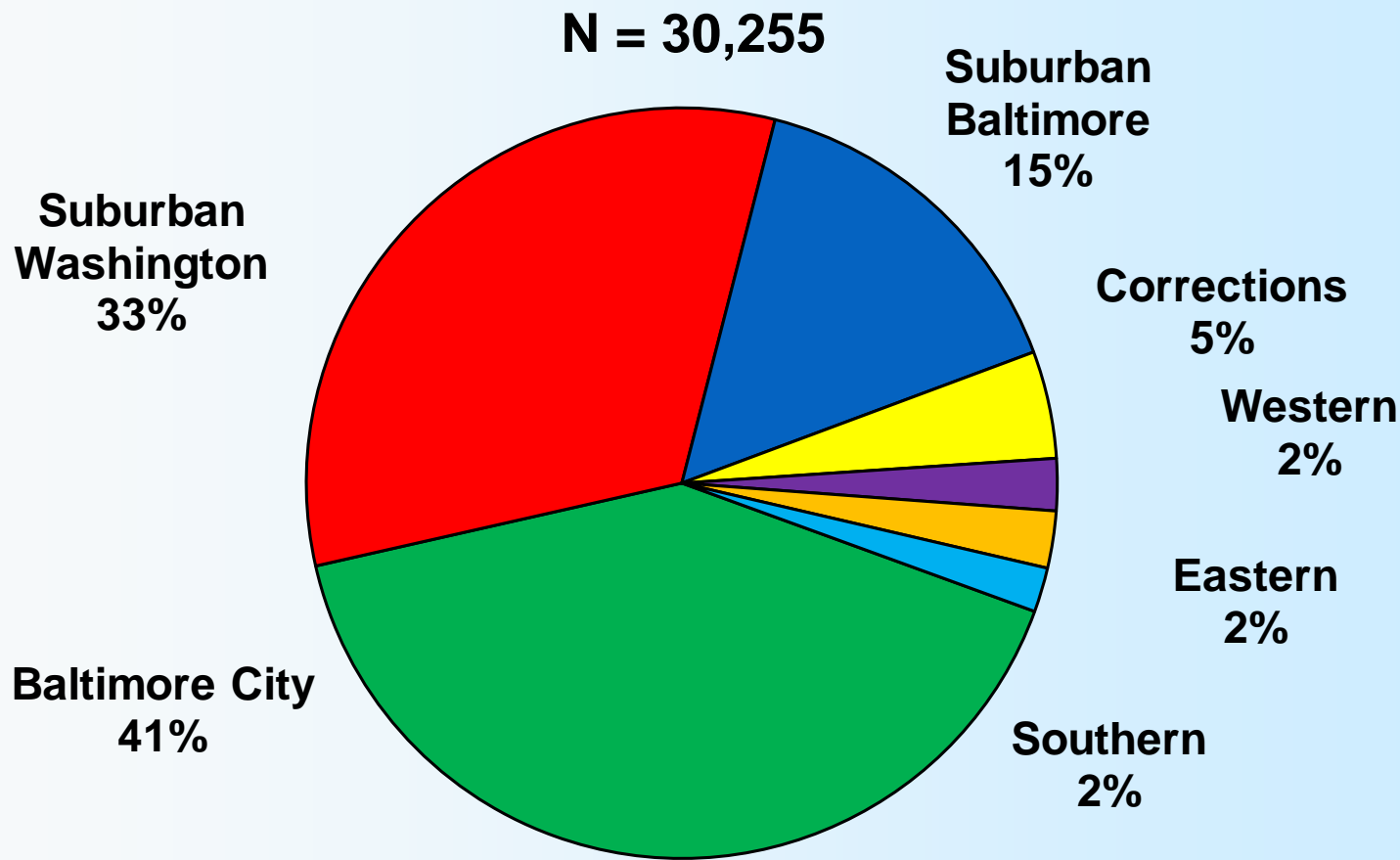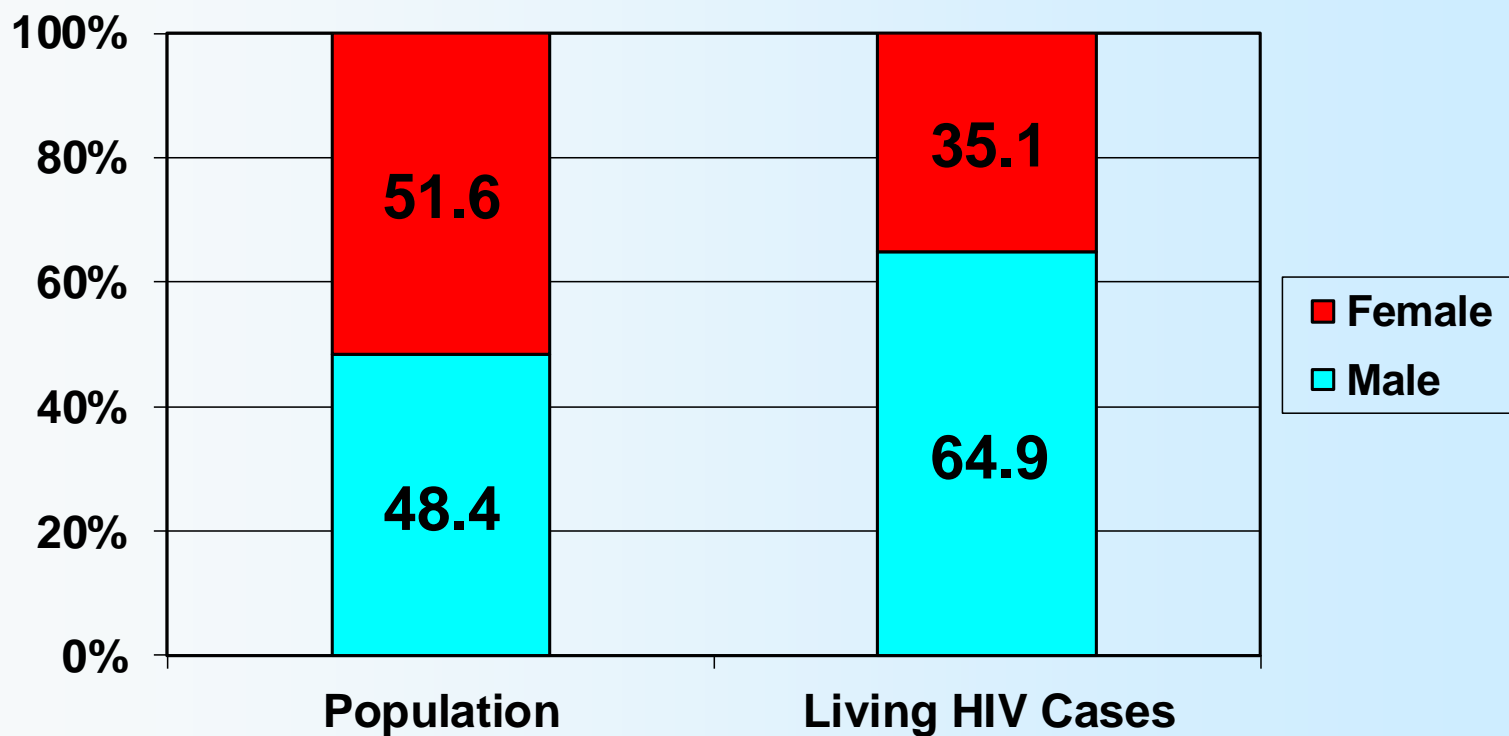
Using data as reported through 12/31/2014

Maryland Population and Living HIV Cases by Age
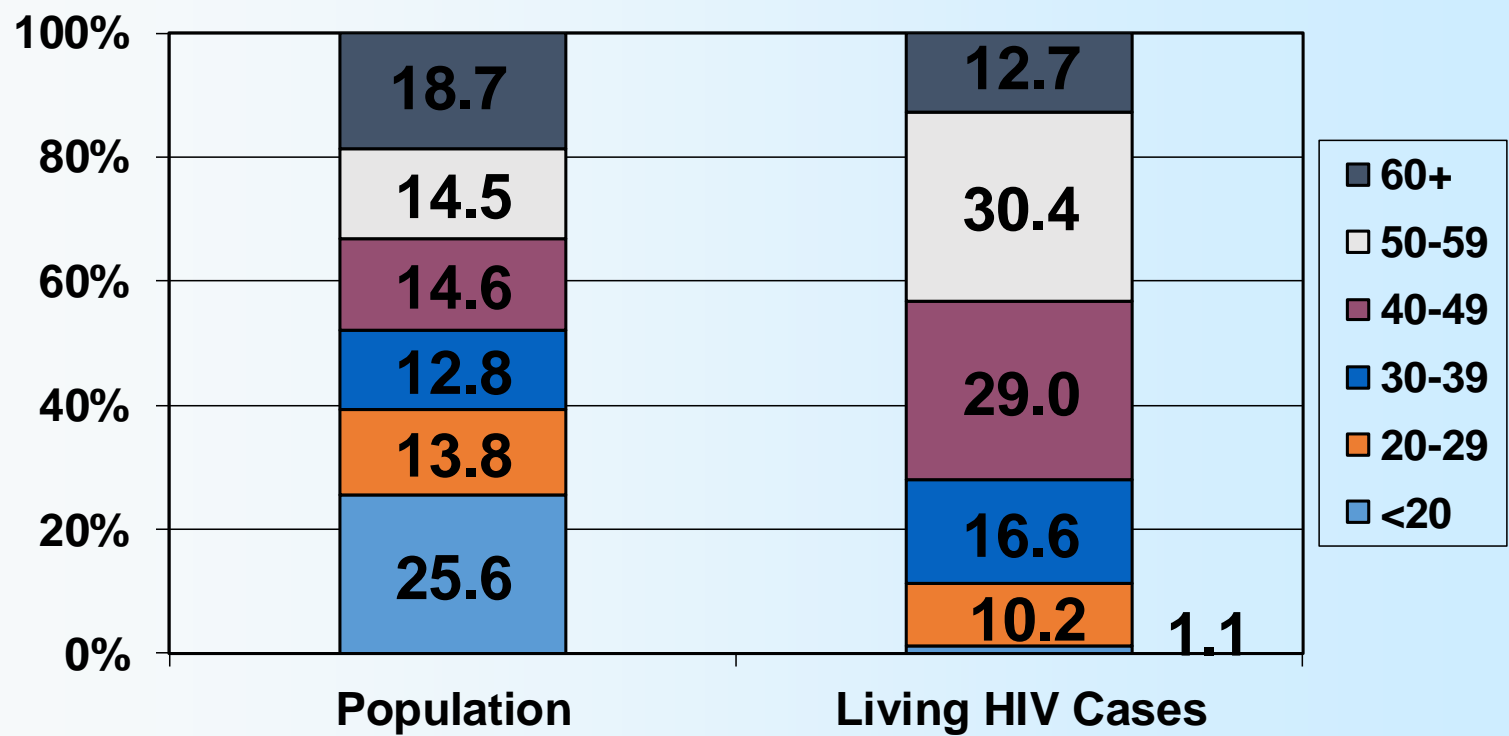
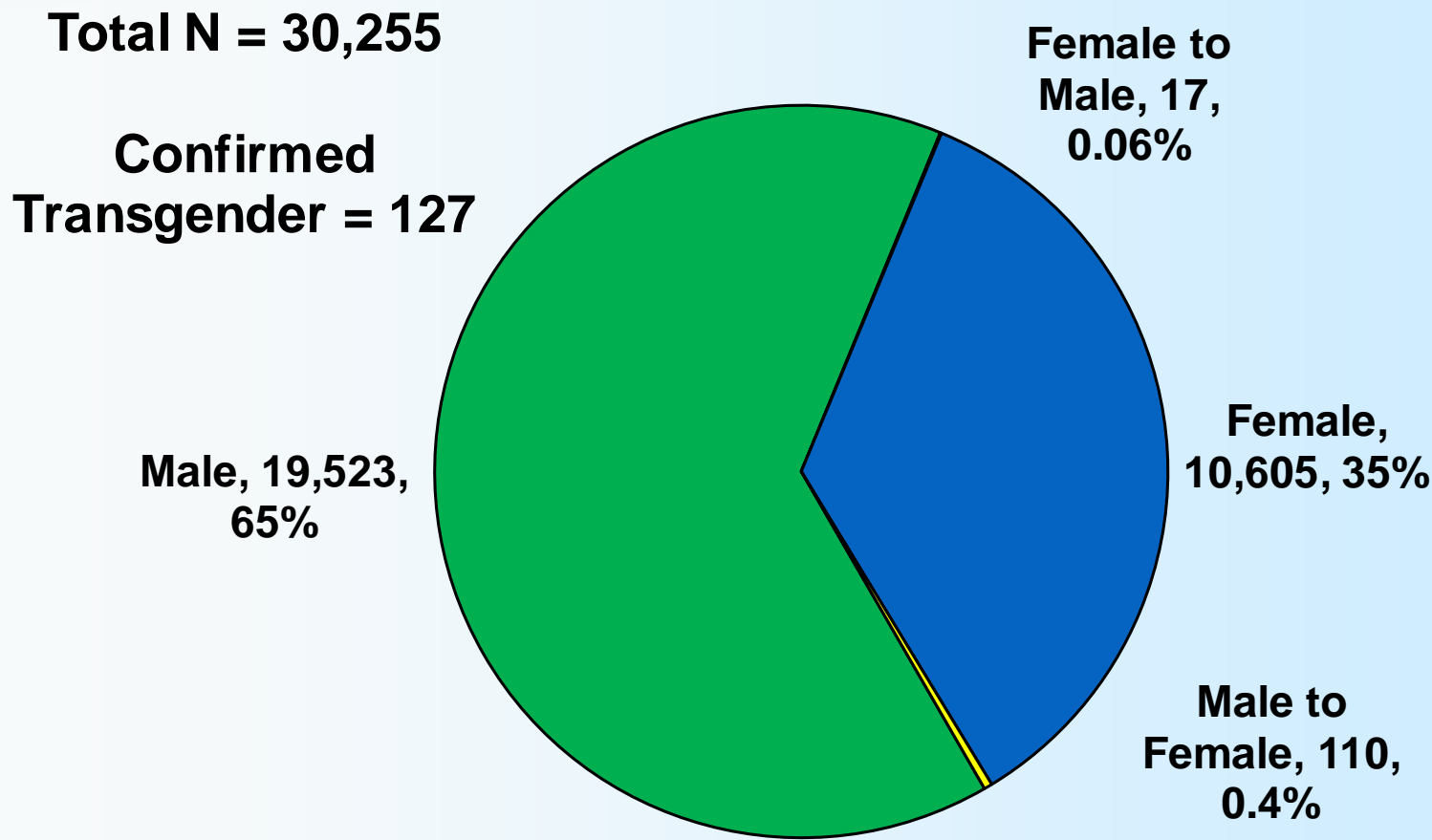Population on 7/1/12, Cases on 12/31/13 as reported through 12/31/14

13

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

Population on 7/1/12, Cases on 12/31/13 as reported through 12/31/14
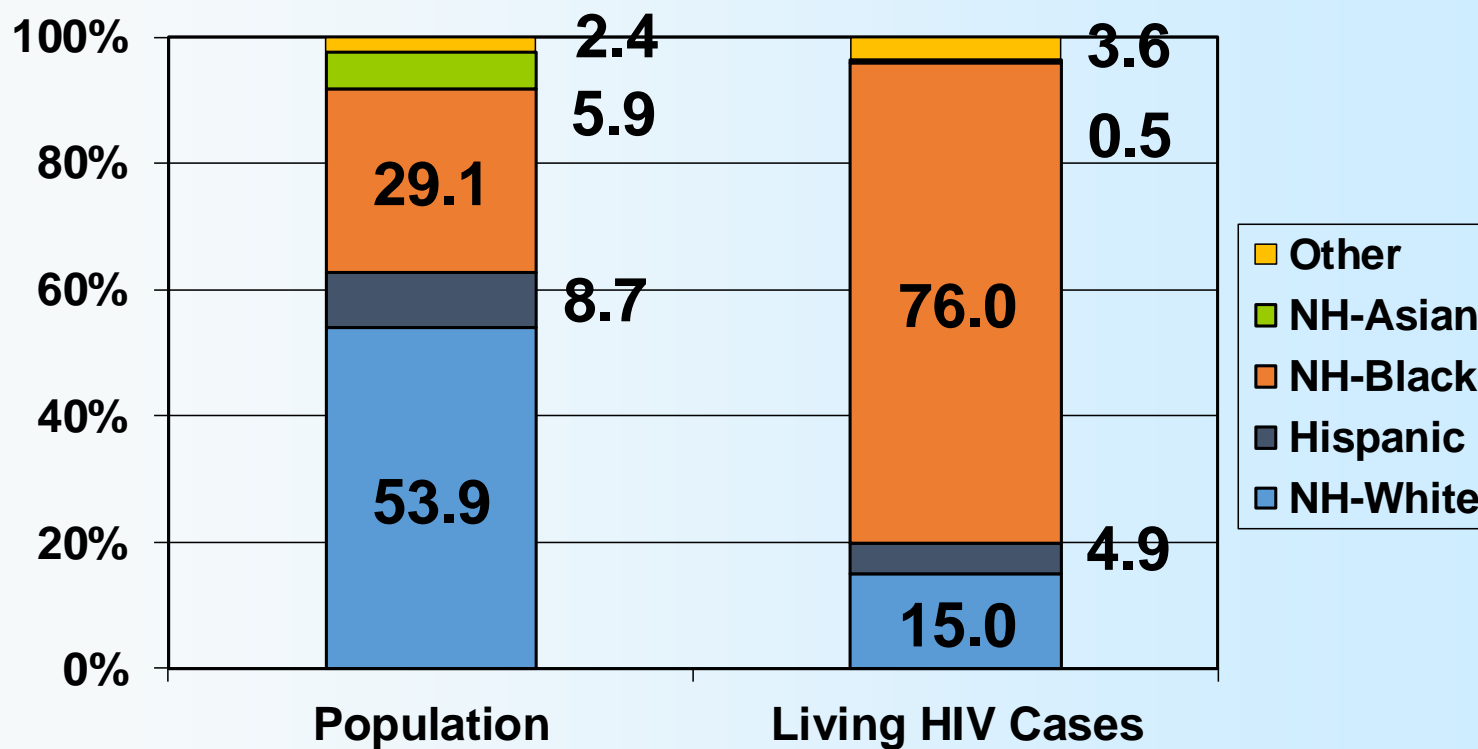
Maryland Adult/Adolescent Living HIV Cases by Gender, 12/31/13

Total N = 30,255

Confirmed Transgender = 127

Female to Male, 17, 0.06%

Male, 19,523, 65%

Female, 10,605, 35%

Male to Female, 110, 0.4%

Using data as reported through 12/31/2014

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

Population:
- NH-White: 53.9
- Hispanic: 8.7
- NH-Black: 29.1
- NH-Asian: 5.9
- Other: 2.4

Living HIV Cases:
- NH-White: 15.0
- Hispanic: 4.9
- NH-Black: 76.0
- NH-Asian: 0.5
- Other: 3.6

Legend:
- Other
- NH-Asian
- NH-Black
- Hispanic
- NH-White

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

Maryland Adult/Adolescent Living HIV Cases 12/31/13 by Exposure Category

N (with Risk) = 22,771 (75% of Total)
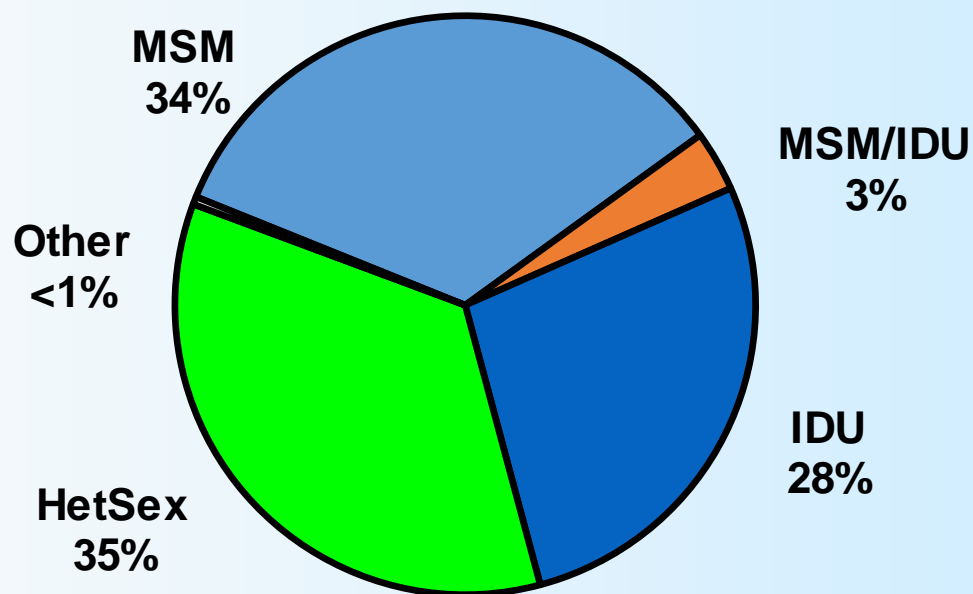
MSM 34%

MSM/IDU 3%

Other <1%

IDU 28%

HetSex 35%

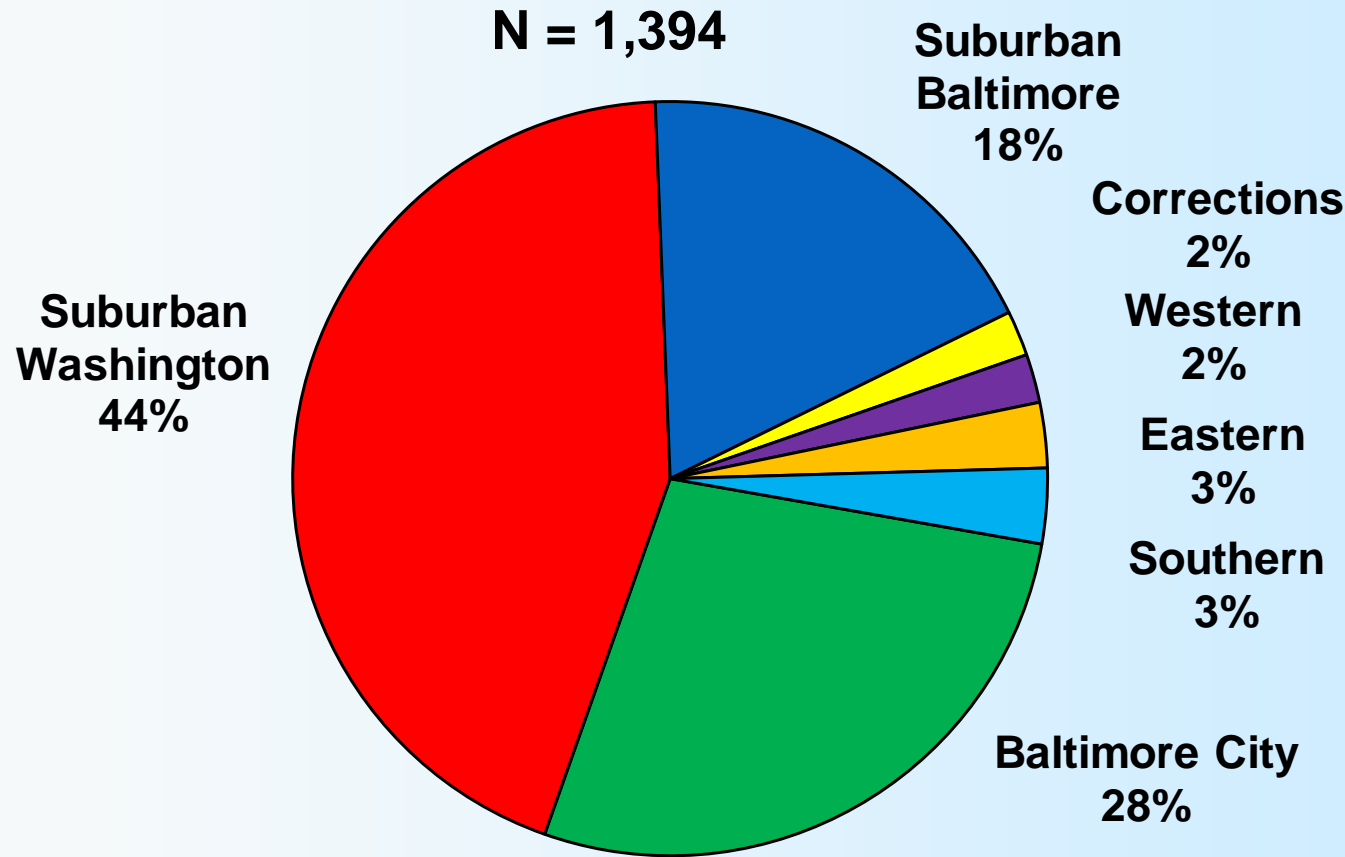Using data as reported through 12/31/2014

Maryland Adult/Adolescent Living HIV Cases 12/31/13 by Exposure Category and Sex at Birth
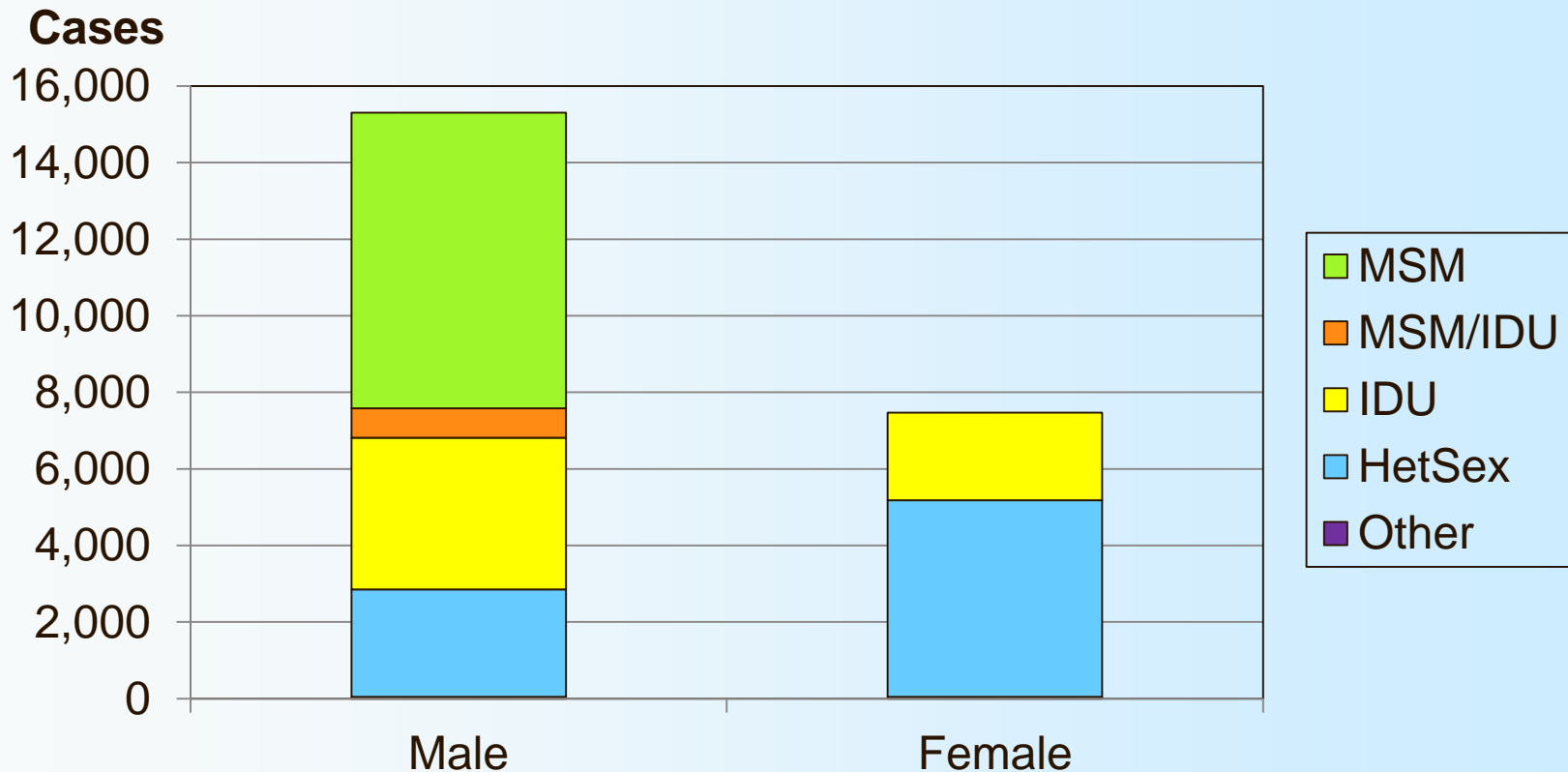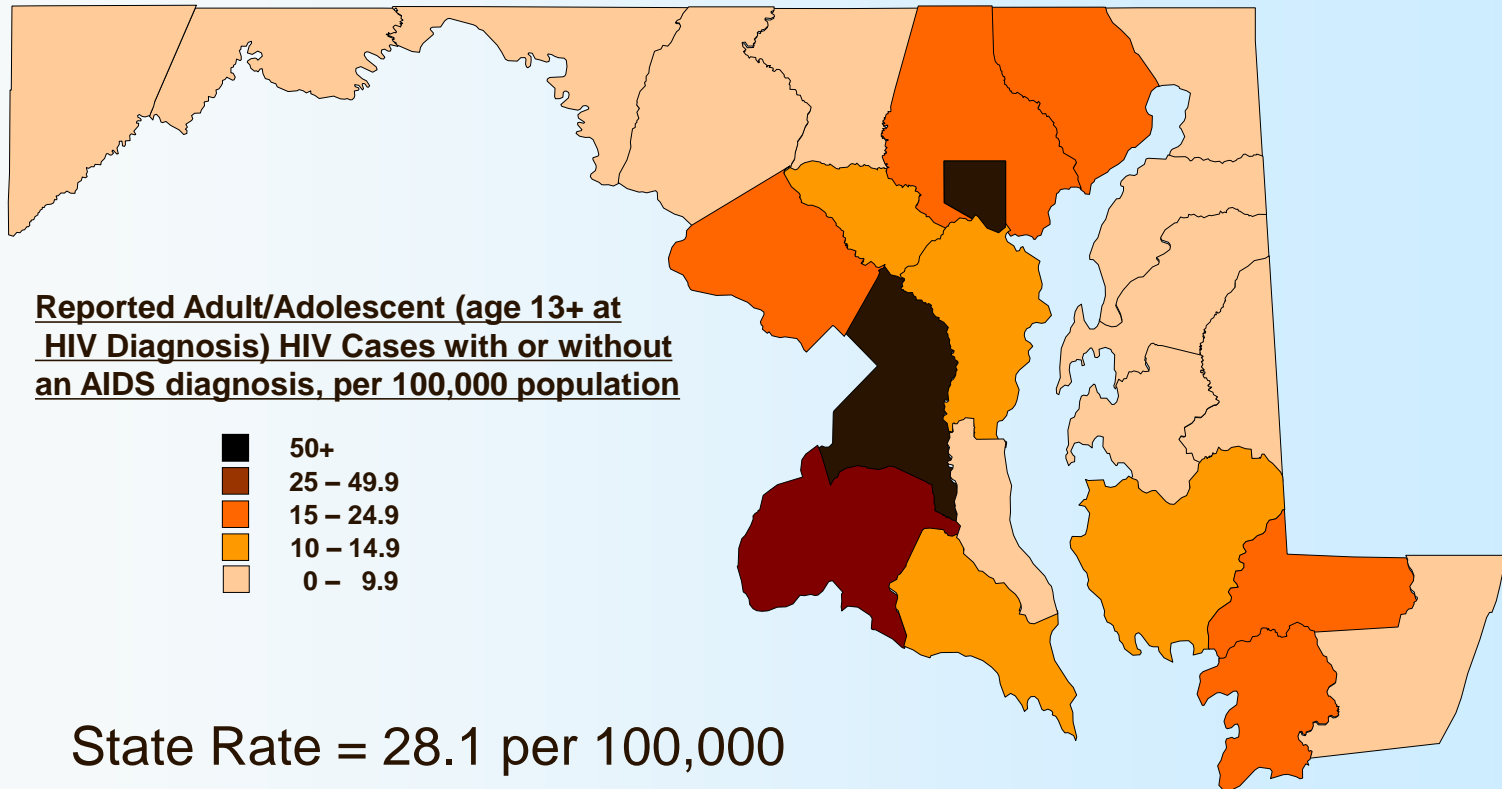
Using data as reported through 12/31/2014

Maryland Adult/Adolescent 2013 HIV Diagnoses by Region

N = 1,394

- Suburban Baltimore 18%
- Corrections 2%
- Western 2%
- Eastern 3%
- Southern 3%
- Baltimore City 28%
- Suburban Washington 44%

Using data as reported through 12/31/2014

Maryland Adult/Adolescent 2013 HIV Diagnosis Rates by Jurisdiction

Reported Adult/Adolescent (age 13+ at HIV Diagnosis) HIV Cases with or without an AIDS diagnosis, per 100,000 population

- 50+
- 25 – 49.9
- 15 – 24.9
- 10 – 14.9
- 0 – 9.9

State Rate = 28.1 per 100,000

Using data as reported through 12/31/2014

Maryland Adult/Adolescent 2013 HIV Diagnoses (N=1,394)

- Linkage to Care: 81% had a CD4 or VL test within 3 months of HIV diagnosis

- CD4 at Diagnosis: 82% had a CD4 test within 12 months of HIV diagnosis, and the median value was 335 cells/microliter

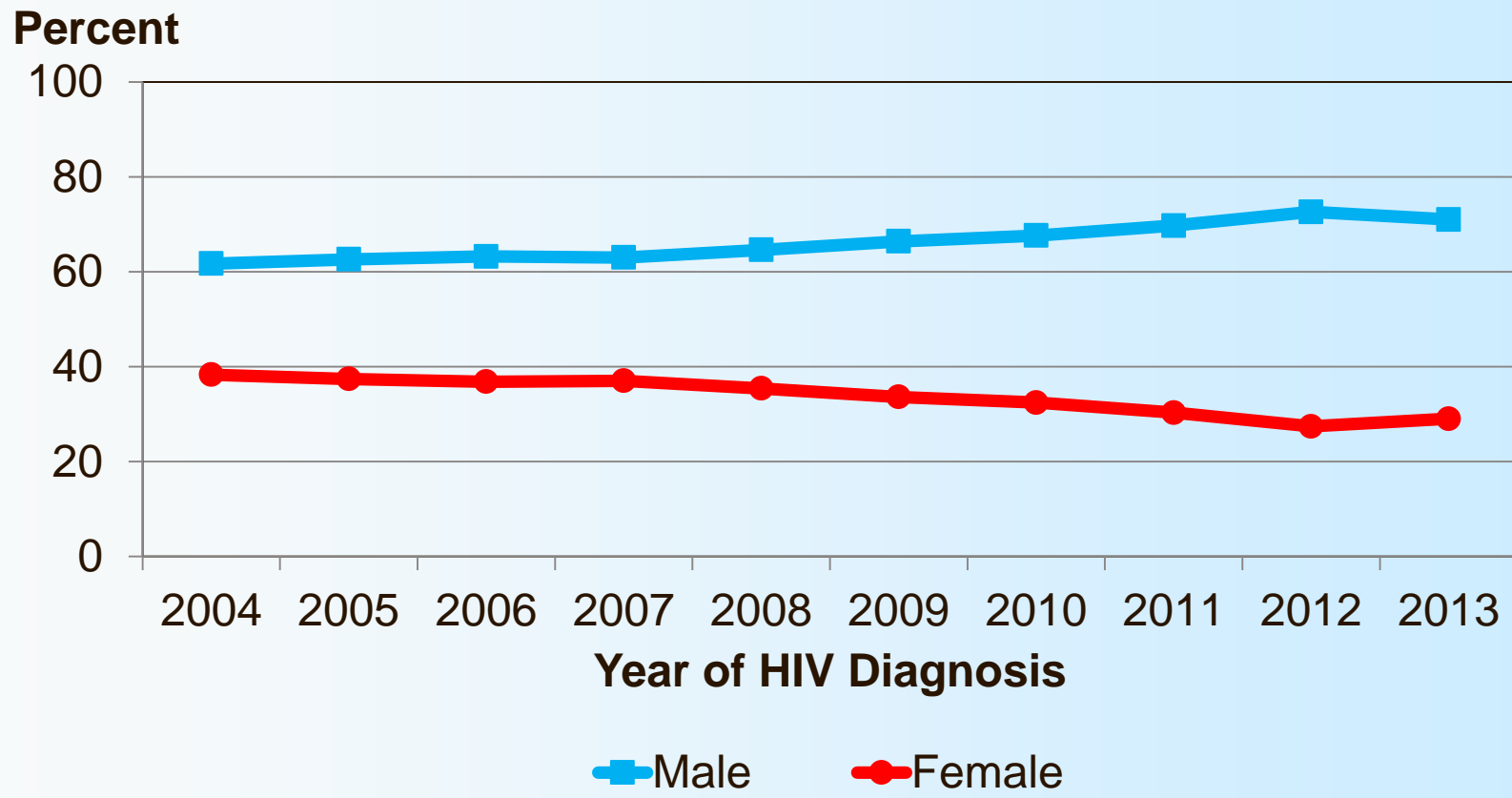- Late HIV Diagnosis: 32% had an AIDS diagnosis within 12 months of their HIV diagnosis

Using data as reported through 12/31/2014

Epidemiological Trends

Maryland Adult/Adolescent HIV Diagnosis Trends by Region

Percent

Year of HIV Diagnosis

- Baltimore City
- Suburban Baltimore
- Suburban Washington
- Corrections
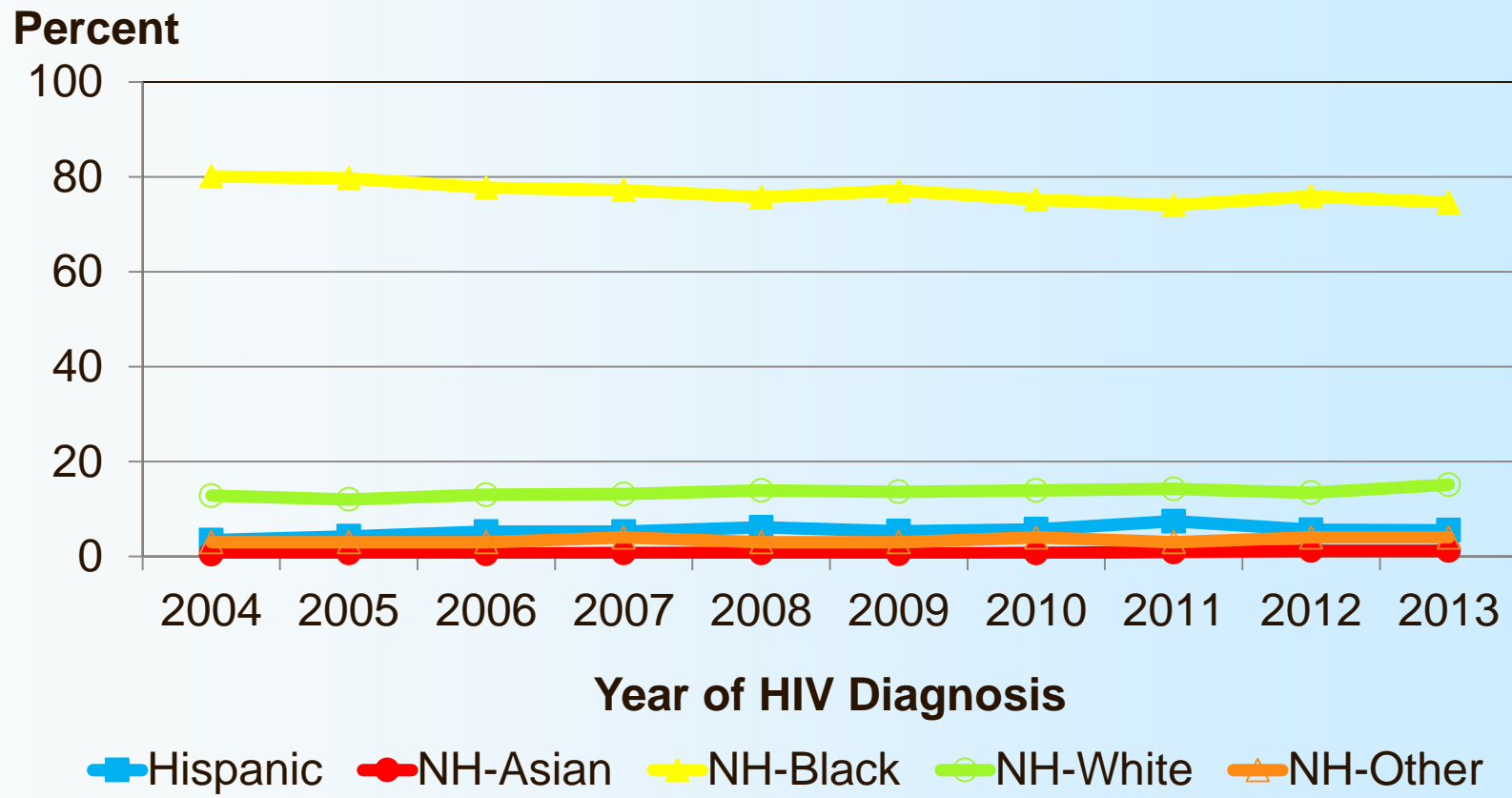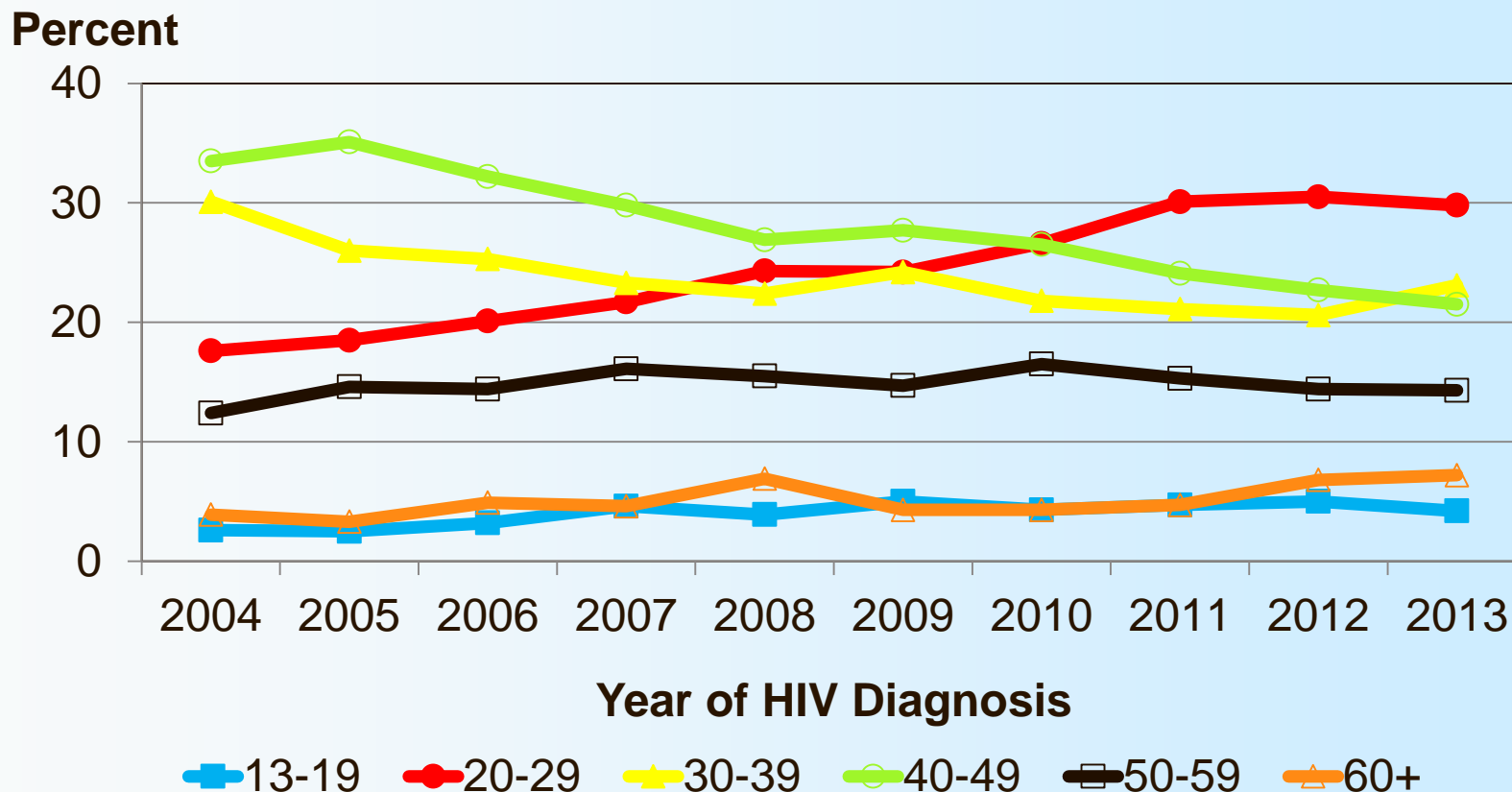- Eastern
- Southern
- Western

Using data as reported through 12/31/2014

Maryland Adult/Adolescent HIV Diagnosis Trends by Sex at Birth

Percent

Using data as reported through 12/31/2014

Maryland Adult/Adolescent HIV Diagnosis Trends by Race/Ethnicity

Percent

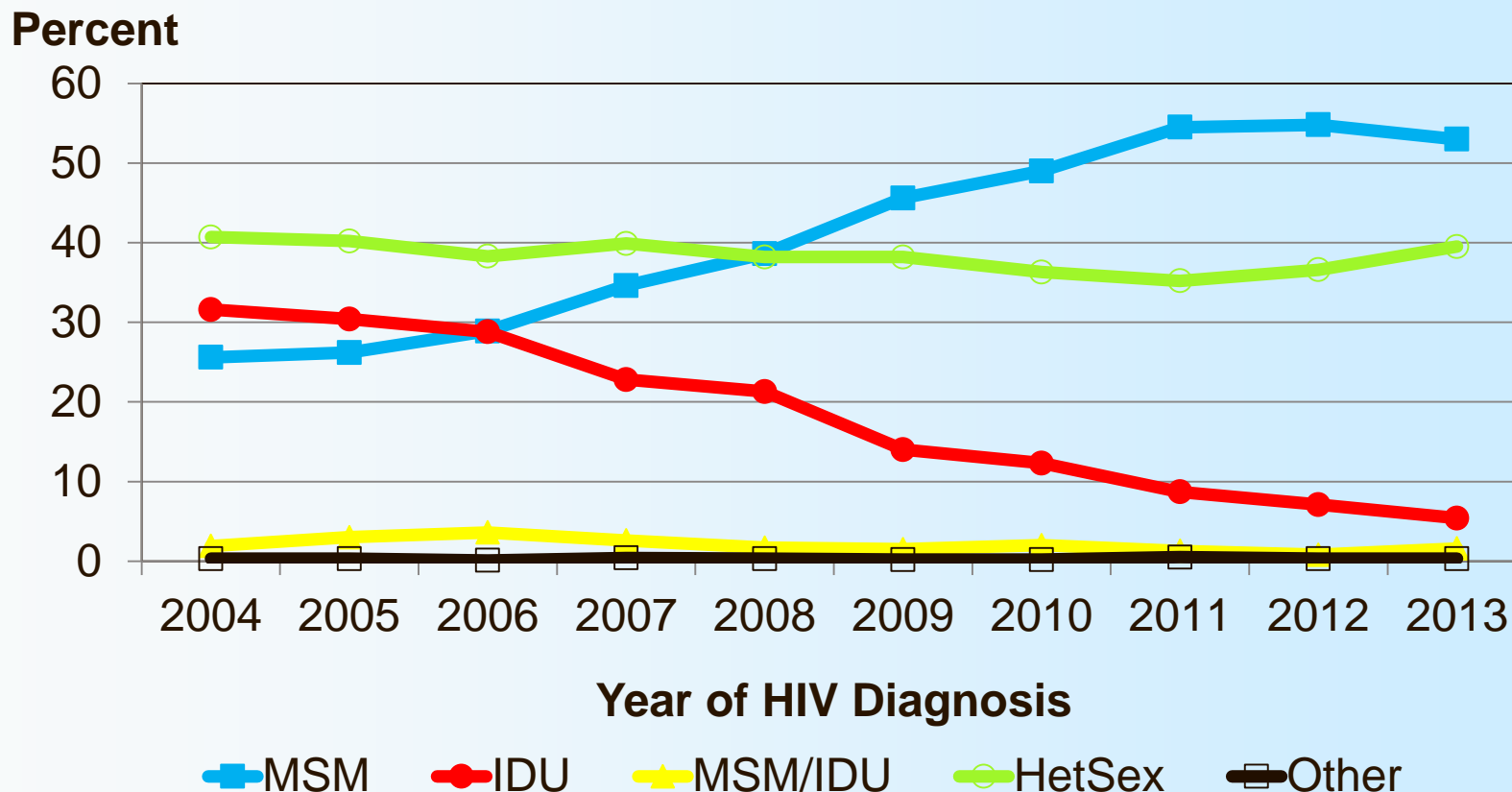Legend: Hispanic, NH-Asian, NH-Black, NH-White, NH-Other

Year of HIV Diagnosis

Using data as reported through 12/31/2014

Maryland Adult/Adolescent HIV Diagnosis Trends by Age at Diagnosis

Using data as reported through 12/31/2014

Maryland Adult/Adolescent HIV Diagnosis Trends by Exposure Category

Using data as reported through 12/31/2014
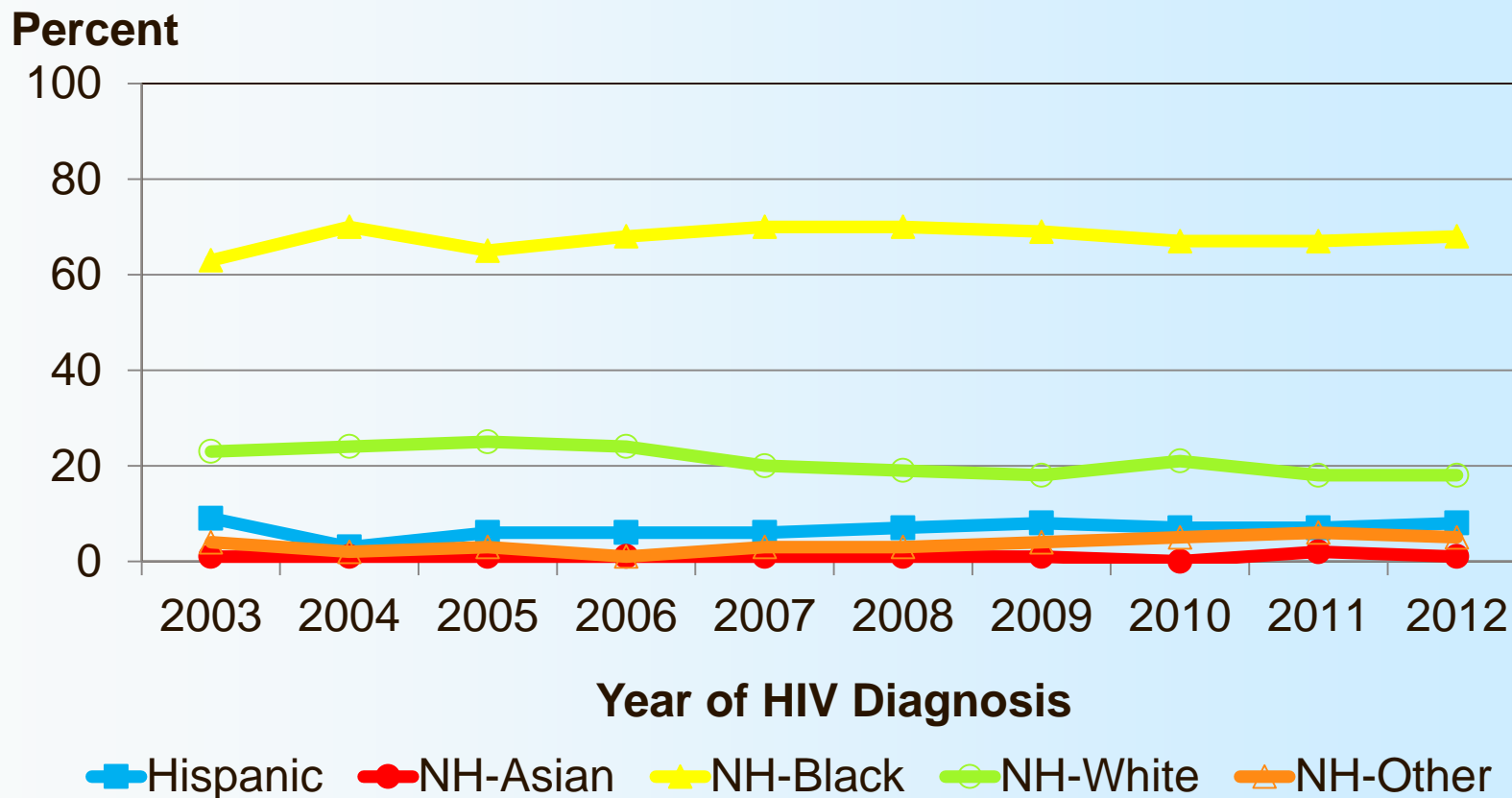
Leading HIV Exposure Category in Maryland

Year of HIV Diagnosis	Number of Years	Most Common HIV Exposure Category
1981-1987	7	MSM
1988-2003	16	IDU
2004-2007	4	HET
2008-2014	7	MSM

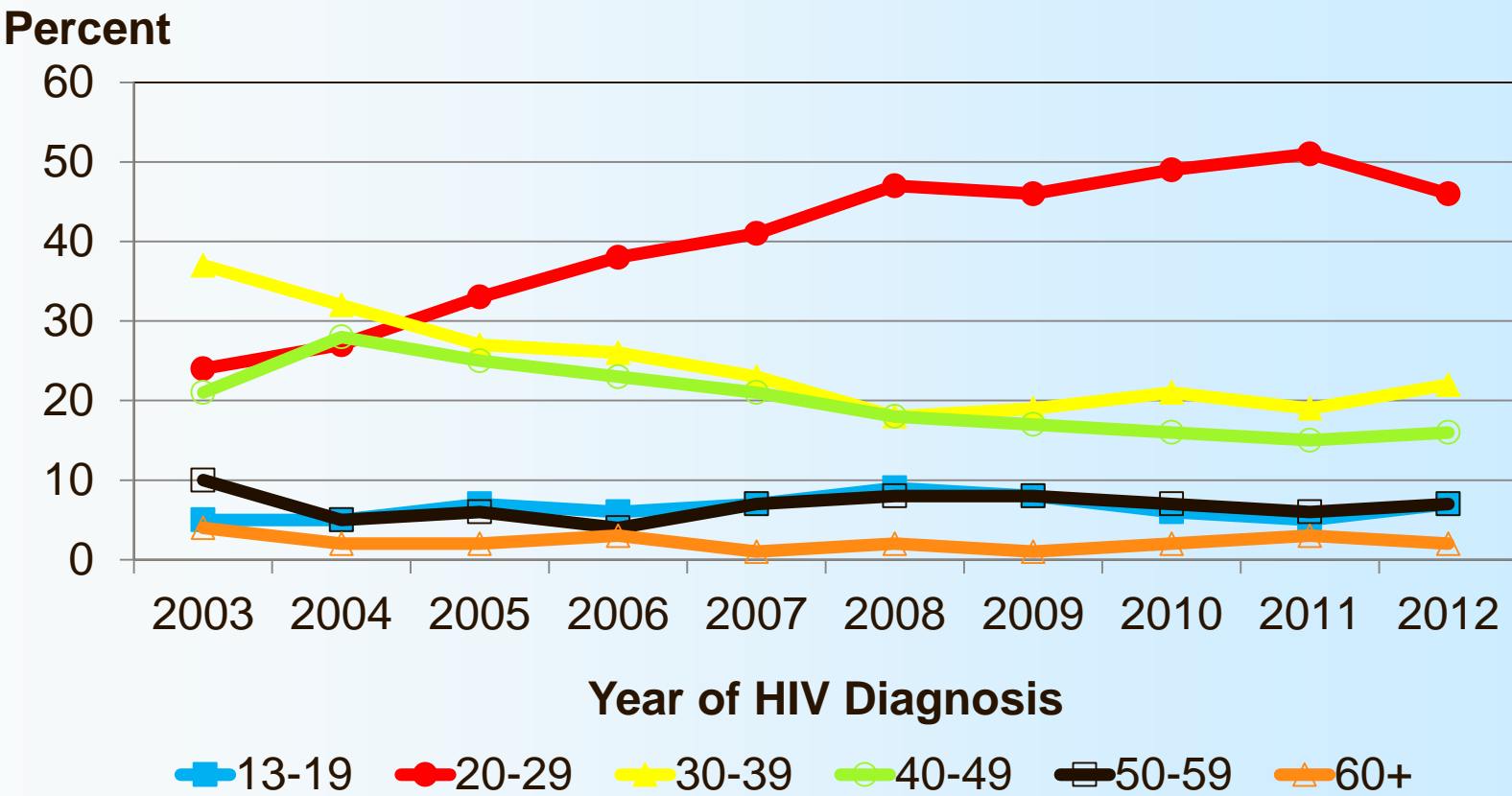# Maryland Reported HIV Diagnosis Trends

MSM Exposure

Maryland Adult/Adolescent MSM HIV Diagnosis Trends by Race/Ethnicity

Using data as reported through 12/31/2014

30

Maryland Adult/Adolescent MSM HIV Diagnosis Trends by Age at Diagnosis

Percent

Year of HIV Diagnosis

Legend: 13-19 · 20-29 · 30-39 · 40-49 · 50-59 · 60+

Using data as reported through 12/31/2014

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%

Wave 4 recruitment completed in December

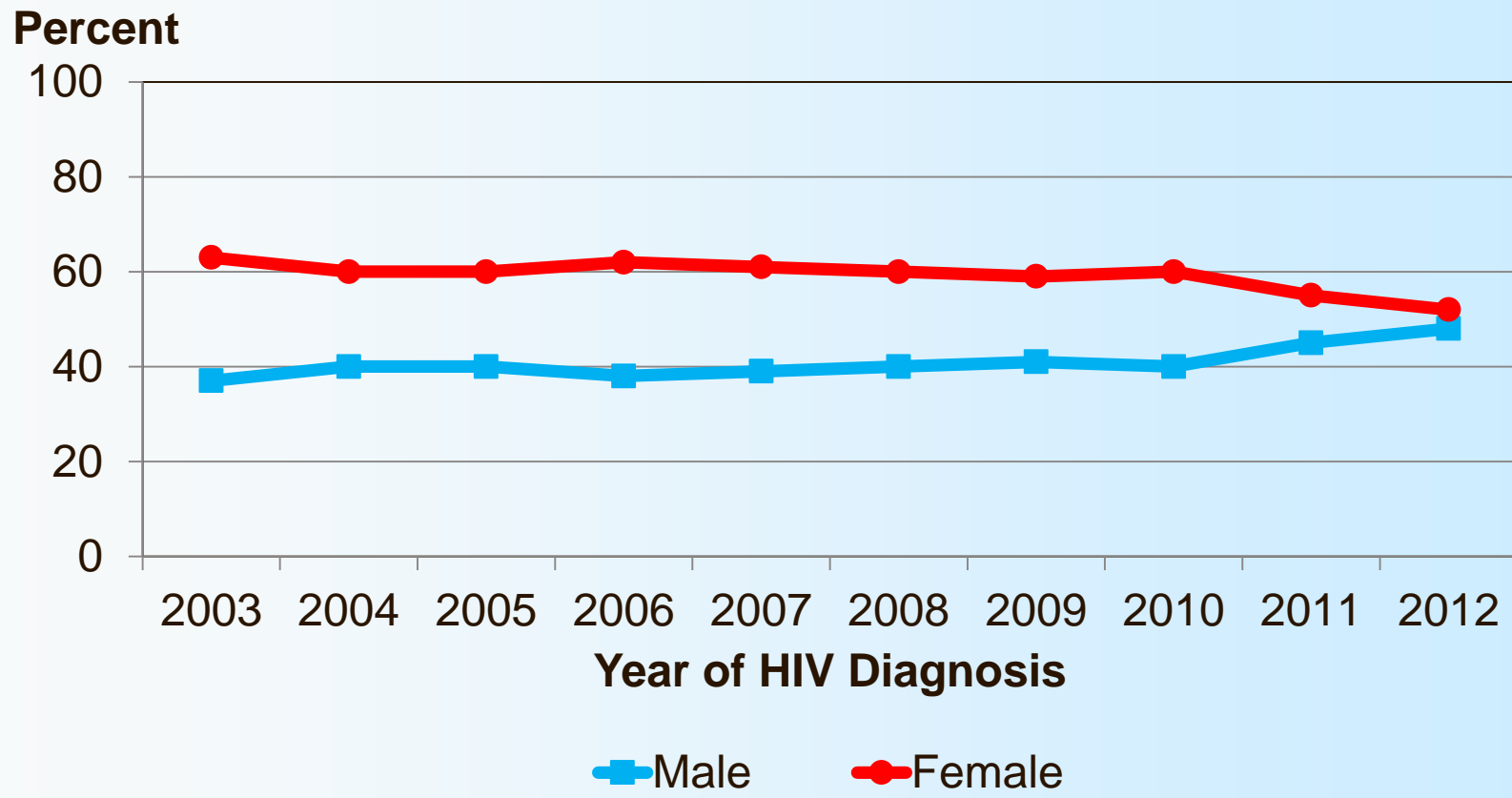*MSM during past year with completed survey and HIV test

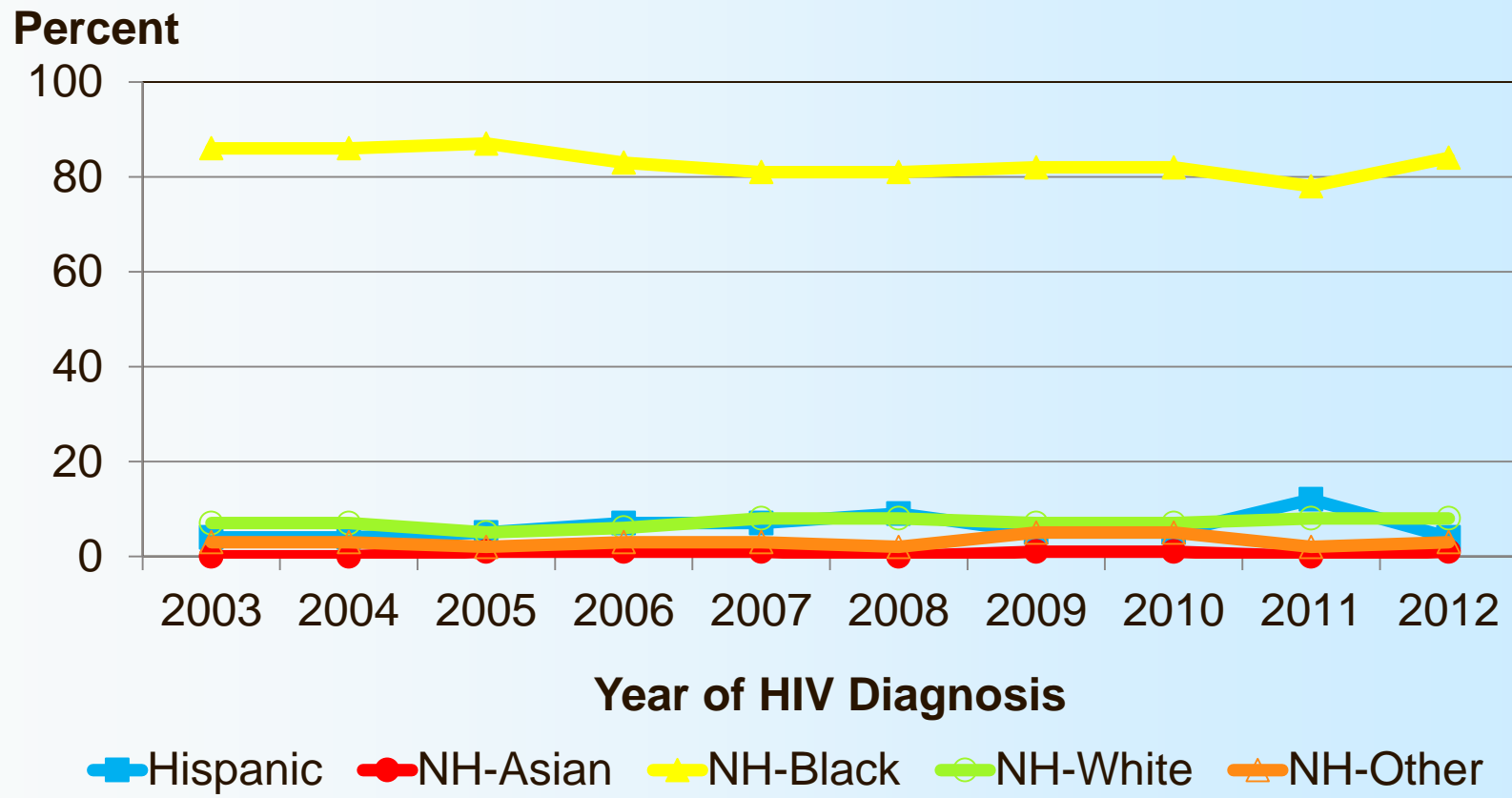# Maryland Reported HIV Diagnosis Trends

Heterosexual Exposure

Maryland Adult/Adolescent Heterosexual HIV Diagnosis Trends by Sex at Birth

Using data as reported through 12/31/2014

34

Maryland Adult/Adolescent Heterosexual HIV Diagnosis Trends by Race/ Ethnicity

Percent

Year of HIV Diagnosis

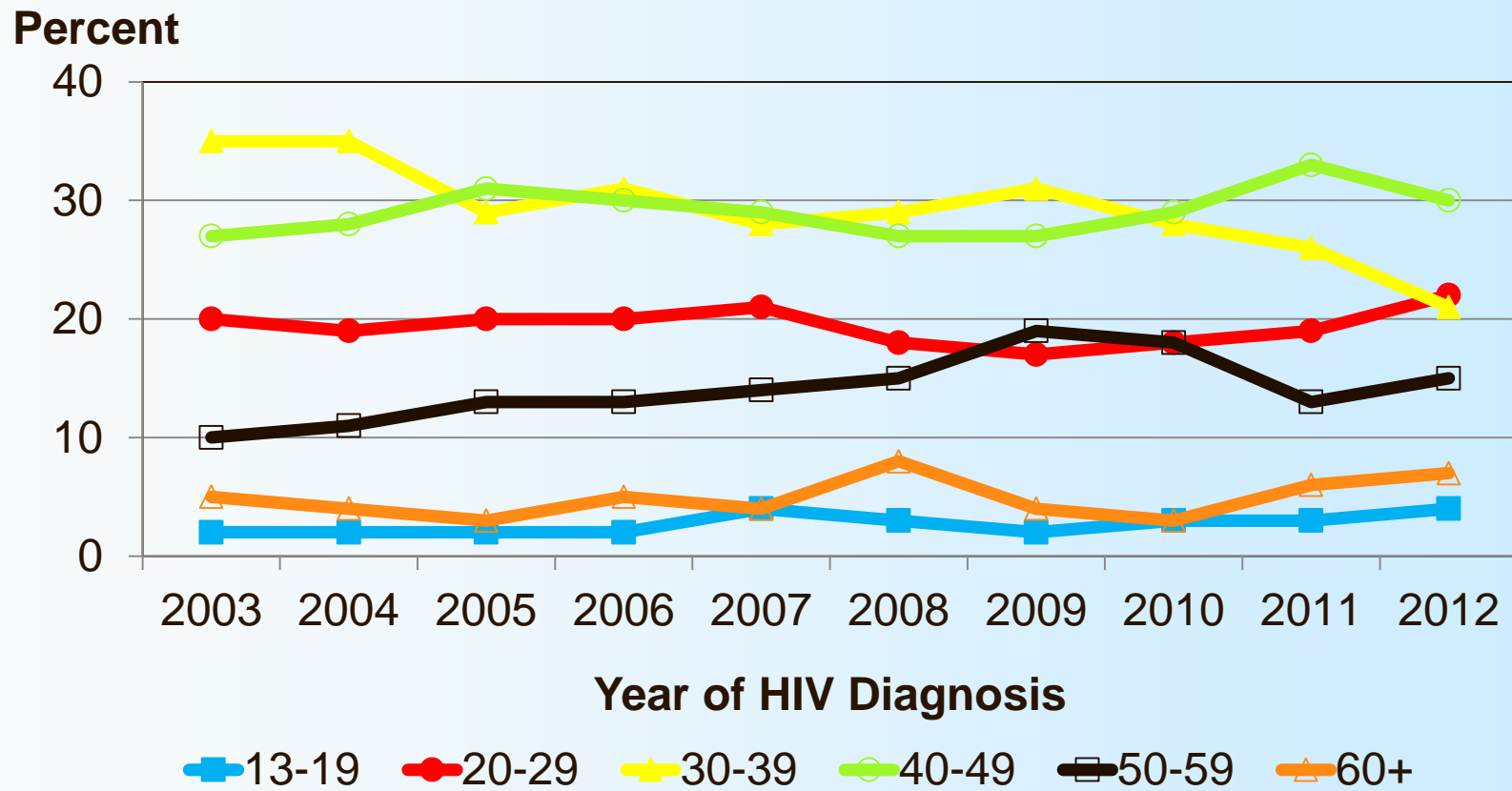Legend: Hispanic — NH-Asian — NH-Black — NH-White — NH-Other

Using data as reported through 12/31/2014

Maryland Adult/Adolescent Heterosexual HIV Diagnosis Trends by Age at Diagnosis

Using data as reported through 12/31/2014

Behavioral Surveillance HET Overview

|	Wave 1 July – Oct 2007	Wave 2 Sept – Dec 2010	Wave 3 Sept – Dec 2013
Data collection method	Venue – based	Respondent Driven	Respondent Driven
Total recruited*	332	338	428
HIV prevalence	3.9%	6.3%	6.6%
Unrecognized infection	83.3%	62.5%	35.3%

*Heterosexual during past year with completed survey and HIV test

Maryland Reported HIV Diagnosis Trends

IDU Exposure

Maryland Adult/Adolescent IDU HIV Diagnosis Trends by Sex at Birth
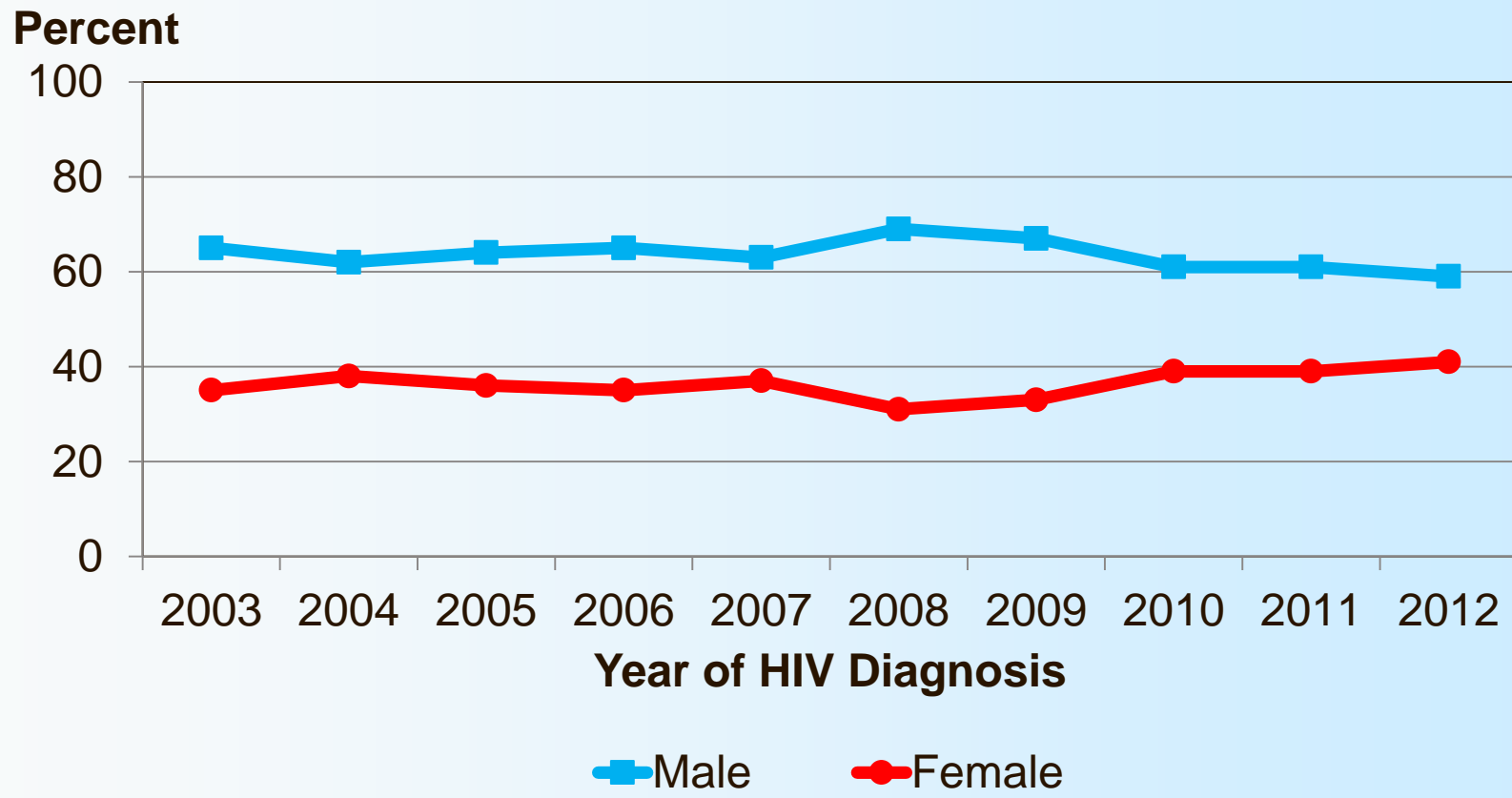
Using data as reported through 12/31/2014

Maryland Adult/Adolescent IDU HIV Diagnosis Trends by Race/ Ethnicity

Percent

Year of HIV Diagnosis

Hispanic   NH-Asian   NH-Black   NH-White   NH-Other
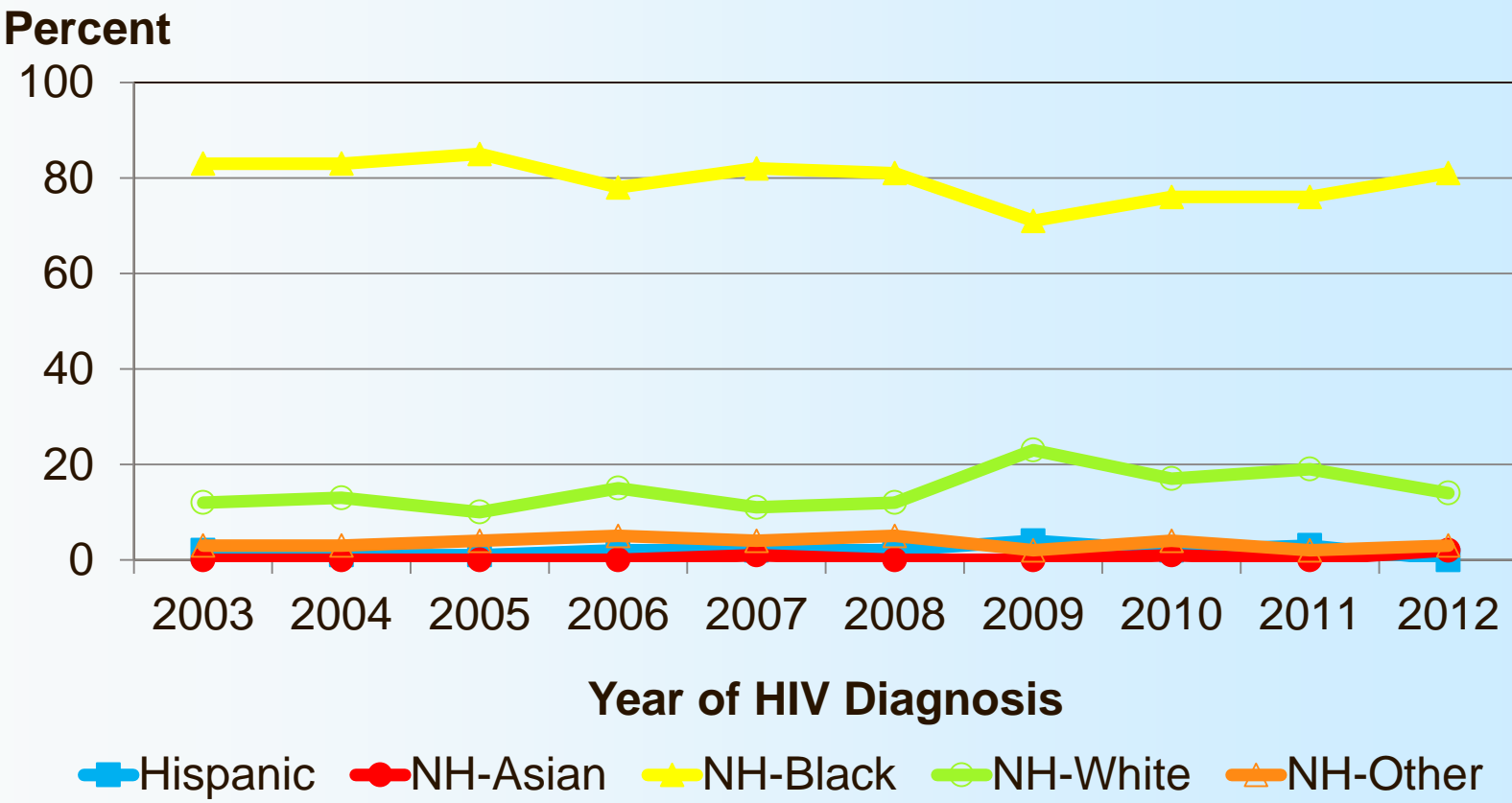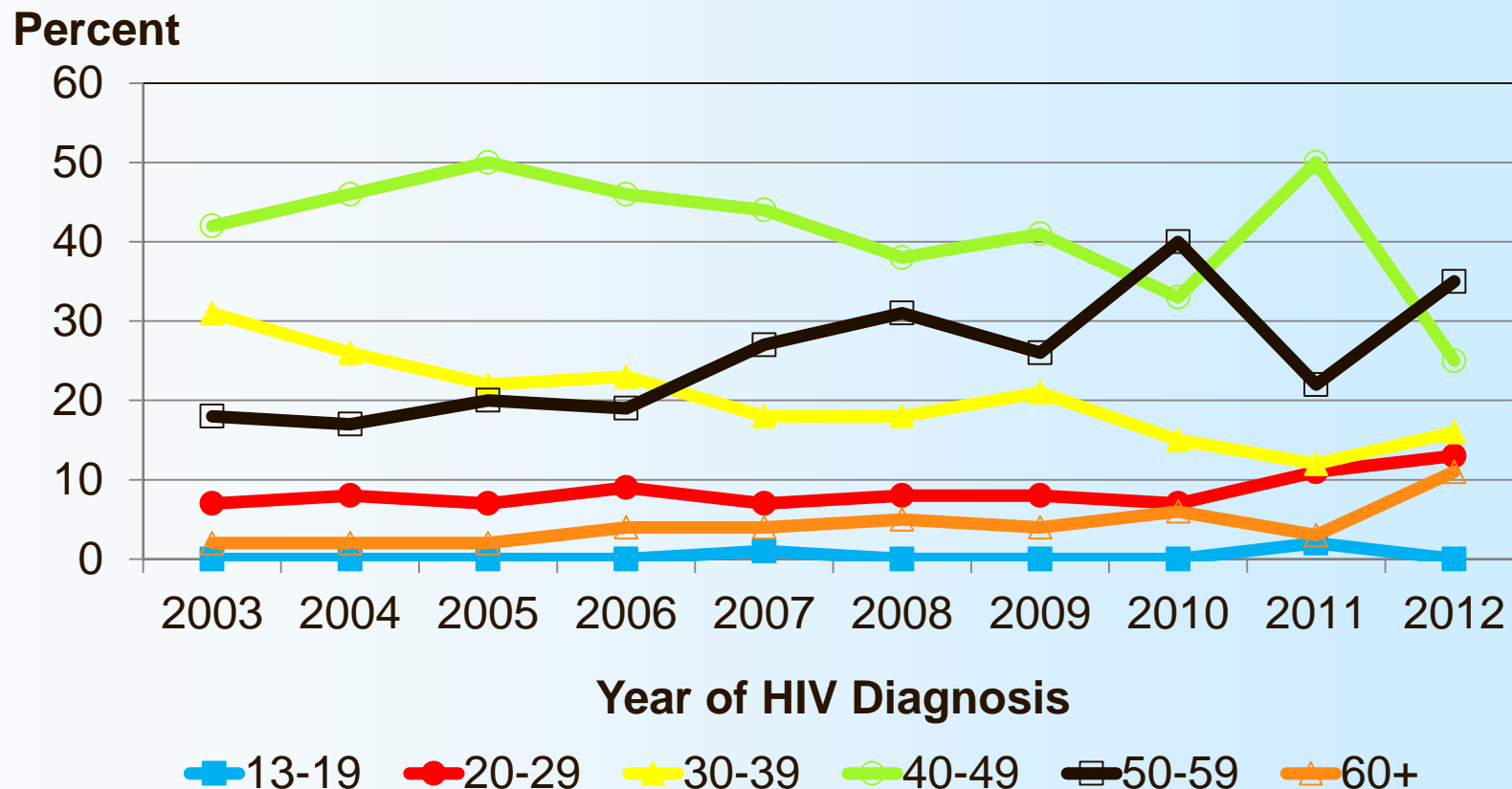
Using data as reported through 12/31/2014

Maryland Adult/Adolescent IDU HIV Diagnosis Trends by Age at Diagnosis

Using data as reported through 12/31/2014

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%

Wave 4 recruitment to begin this summer

*IDU during past year with completed survey and HIV test

Moving Forward

NHAS 2010

NATIONAL HIV/AIDS STRATEGY FOR THE UNITED STATES

JULY 2010

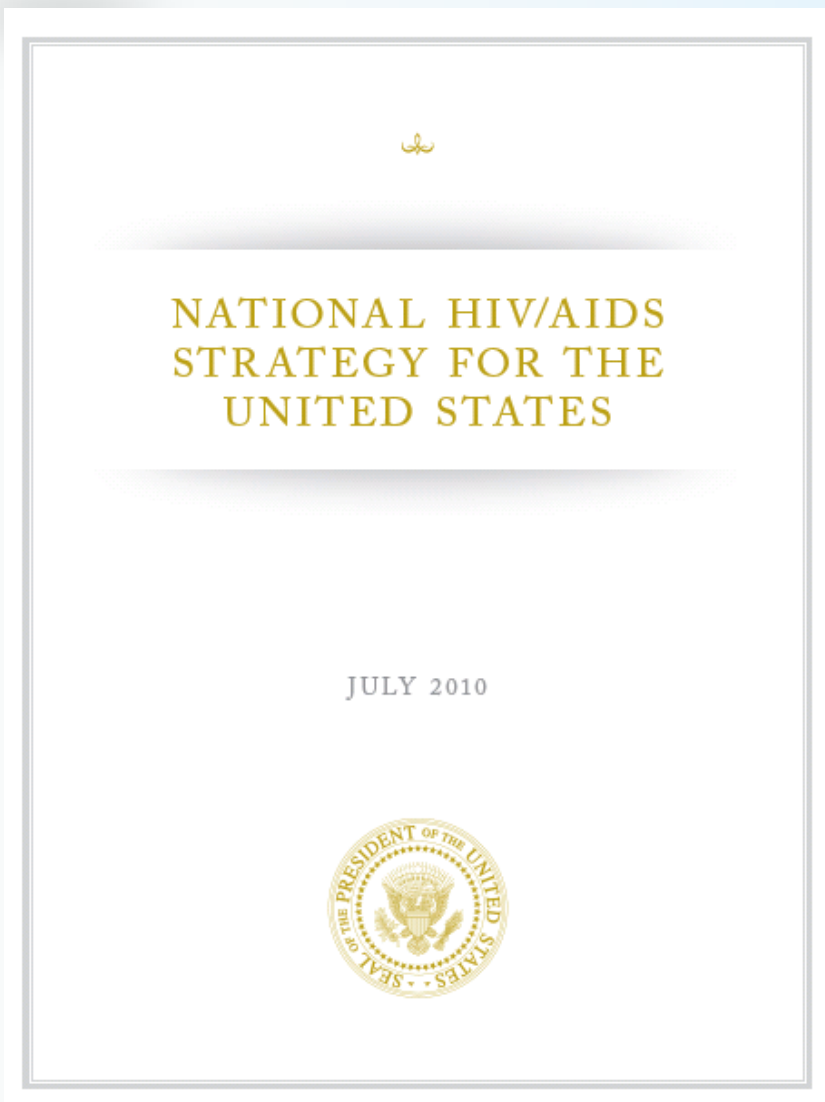- Reducing new HIV infections

- Increasing access to care and improving health outcomes for people living with HIV

- Reducing HIV-related disparities and health inequities

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 Maryland Data

Year of HIV Diagnosis	2009	2010	2011	2012	2013
New Diagnoses	1,788	1,837	1,511	1,491	1,397
Transmission Rate	6.8	6.7	5.3	5.1	4.6

2015 target: 30% reduction to 4.8

2015 target: 25% reduction to 1,341
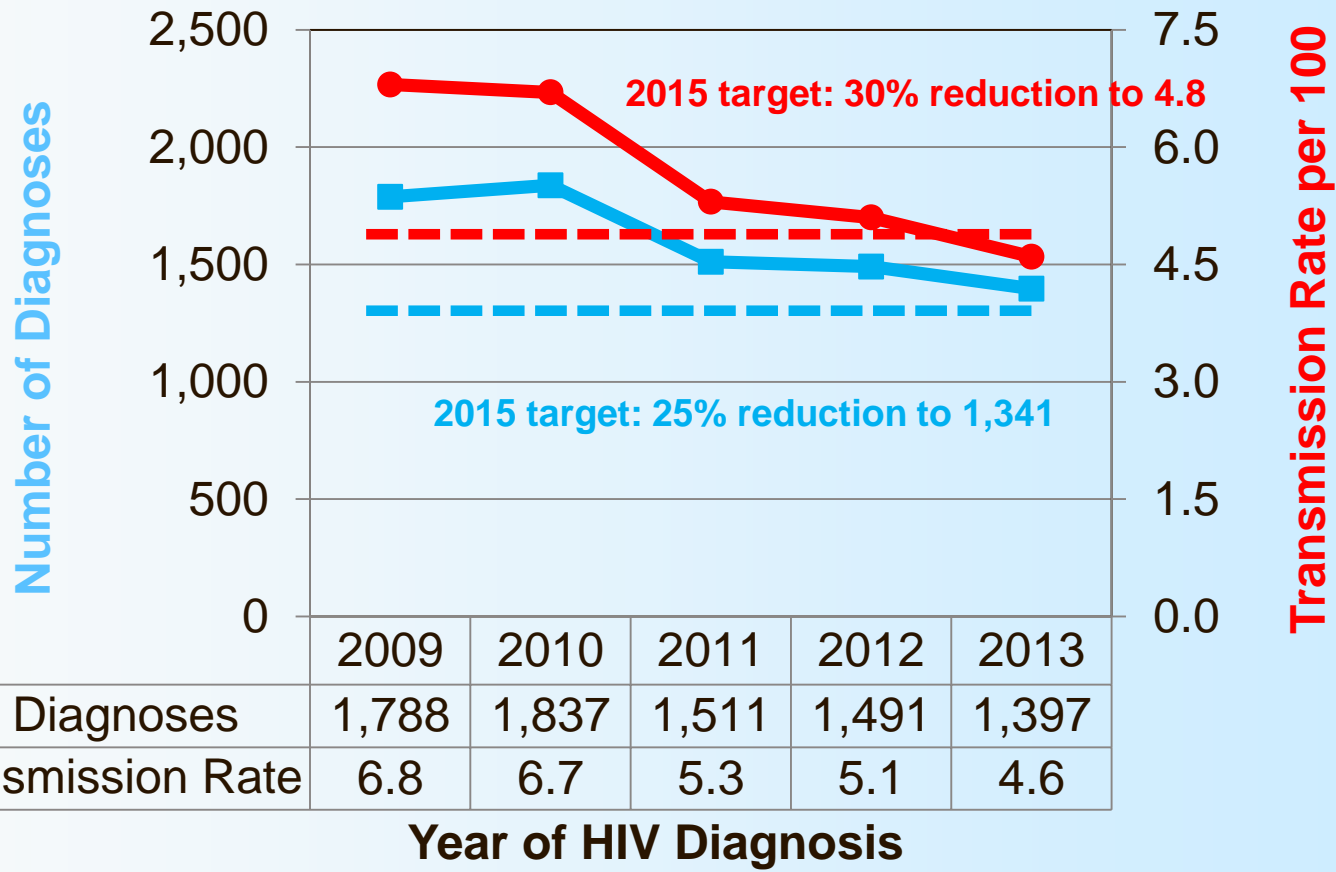
Using data as reported through 12/31/2014

NHAS Goal 1 Progress National Data

Reduce Percent Undiagnosed to 10% by 2015

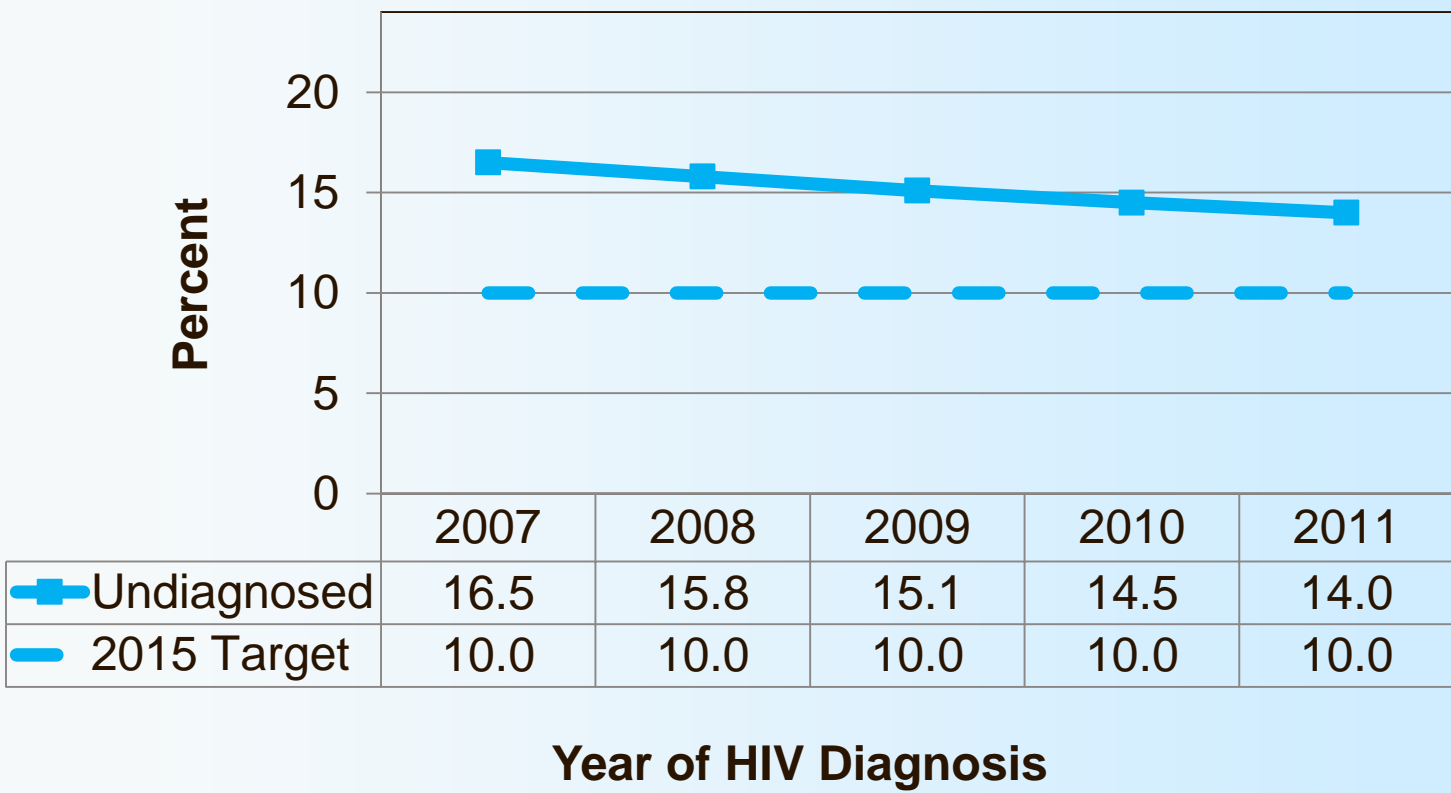|	2007	2008	2009	2010	2011
Undiagnosed	16.5	15.8	15.1	14.5	14.0
2015 Target	10.0	10.0	10.0	10.0	10.0

Year of HIV Diagnosis

CDC. HIV Surveillance Supplemental Report. Vol. 19, No. 3. 2014. Table 9b.

NHAS Goal 1 Progress Maryland Data

Late Diagnosis – Proxy for Undiagnosed

	2009	2010	2011	2012	2013
Late Diagnosis	29.9	29.3	31.9	30.2	31.9

Year of HIV Diagnosis
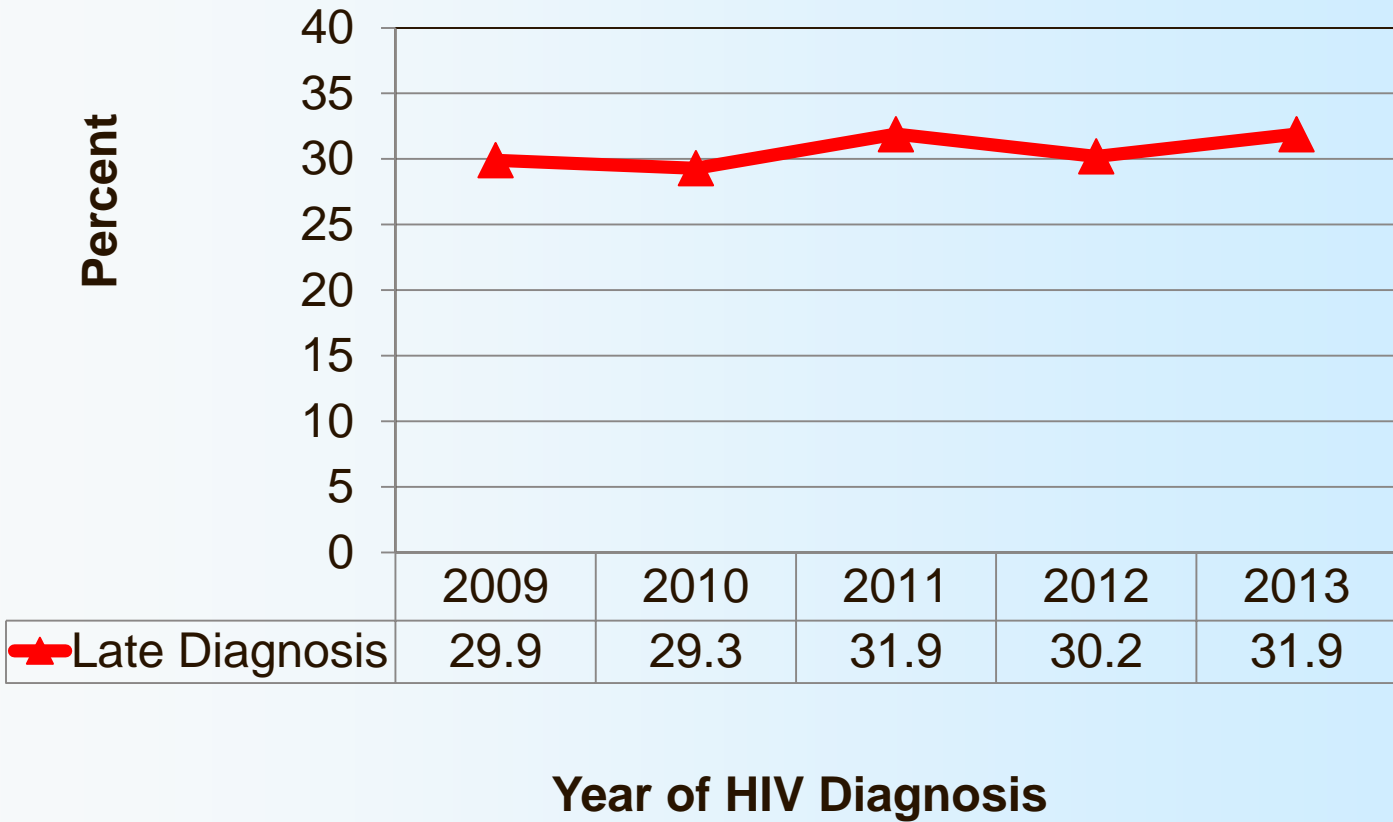
Using data as reported through 12/31/2014

NHAS Goal 2
Increasing Access

- By 2015:
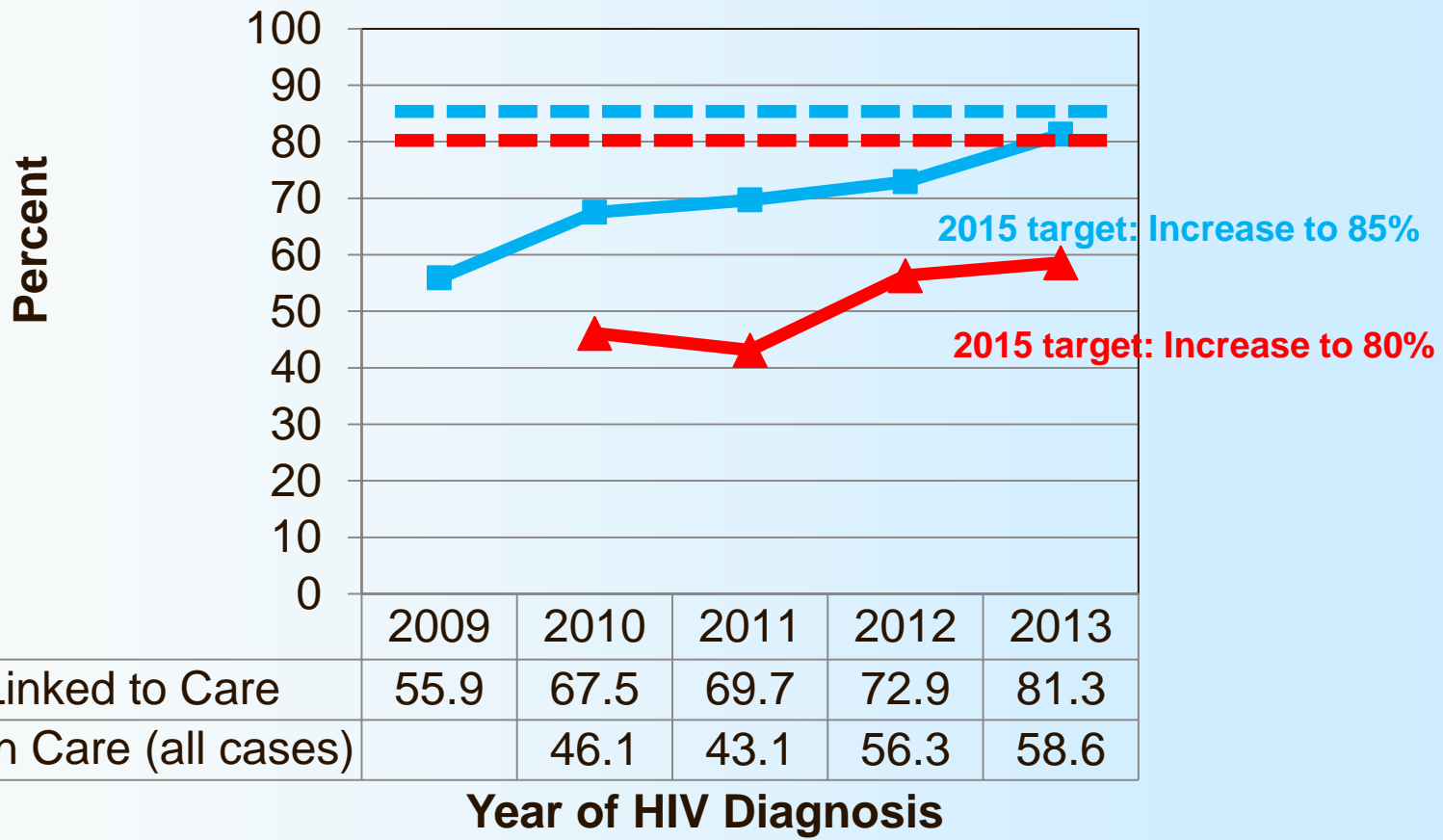 - Increase the proportion of newly diagnosed patients linked to clinical care within three months of their HIV diagnosis from 65 percent to 85 percent

  - 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 Maryland Data

Percent (y-axis, 0–100)

2015 target: Increase to 85%

2015 target: Increase to 80%

	2009	2010	2011	2012	2013
Linked to Care	55.9	67.5	69.7	72.9	81.3
In Care (all cases)		46.1	43.1	56.3	58.6

Year of HIV Diagnosis

Using data as reported through 12/31/2014
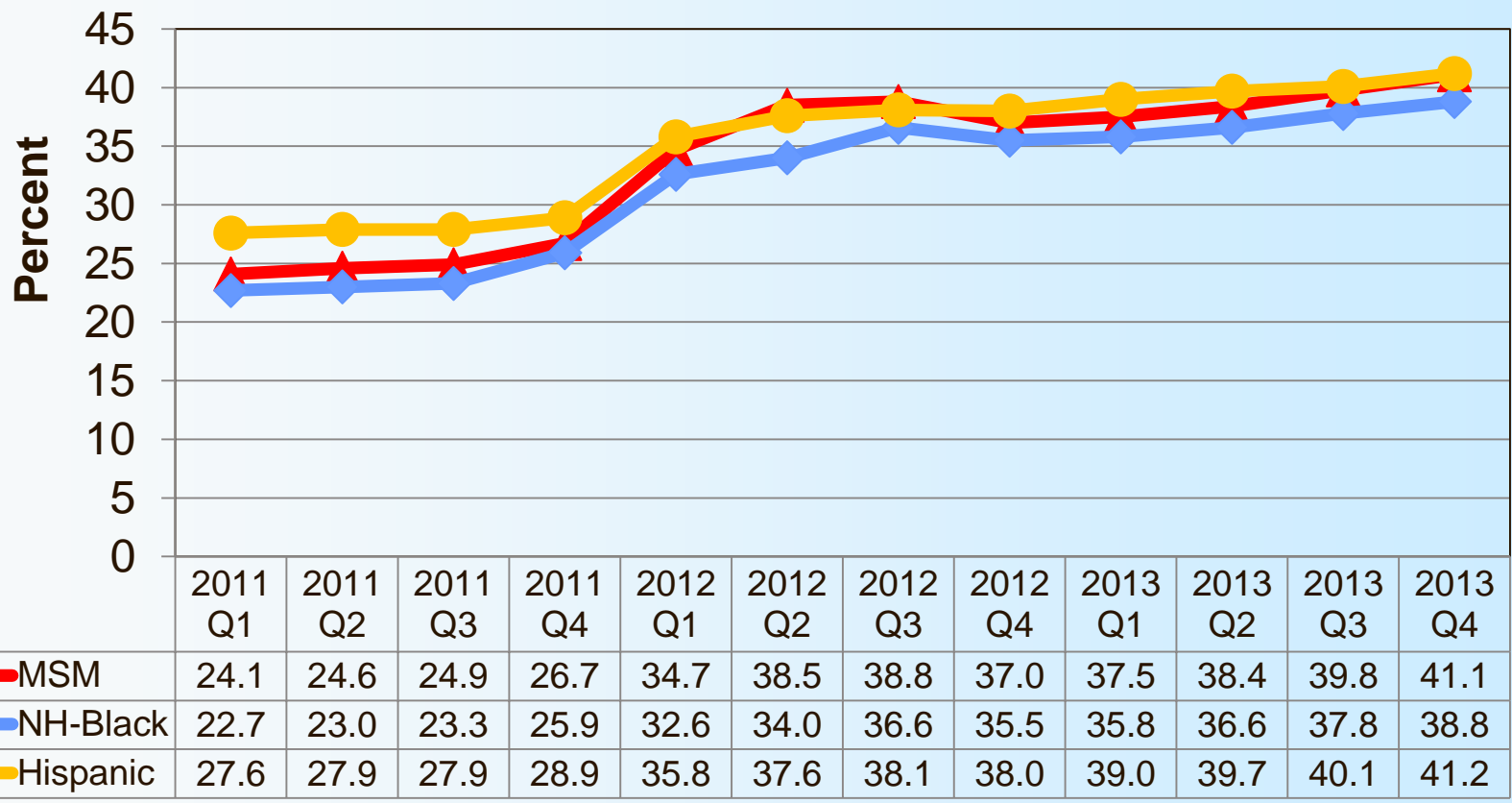
NHAS Goal 3
Reducing Disparities

- 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 Maryland Data

Percent PLWH with Viral Suppression (<400 c/ml)

|	2011 Q1	2011 Q2	2011 Q3	2011 Q4	2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3	2013 Q4
MSM	24.1	24.6	24.9	26.7	34.7	38.5	38.8	37.0	37.5	38.4	39.8	41.1
NH-Black	22.7	23.0	23.3	25.9	32.6	34.0	36.6	35.5	35.8	36.6	37.8	38.8
Hispanic	27.6	27.9	27.9	28.9	35.8	37.6	38.1	38.0	39.0	39.7	40.1	41.2

Year and Quarter

Using data as reported through 12/31/2013

Continuum of Care

Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Maryland 2013
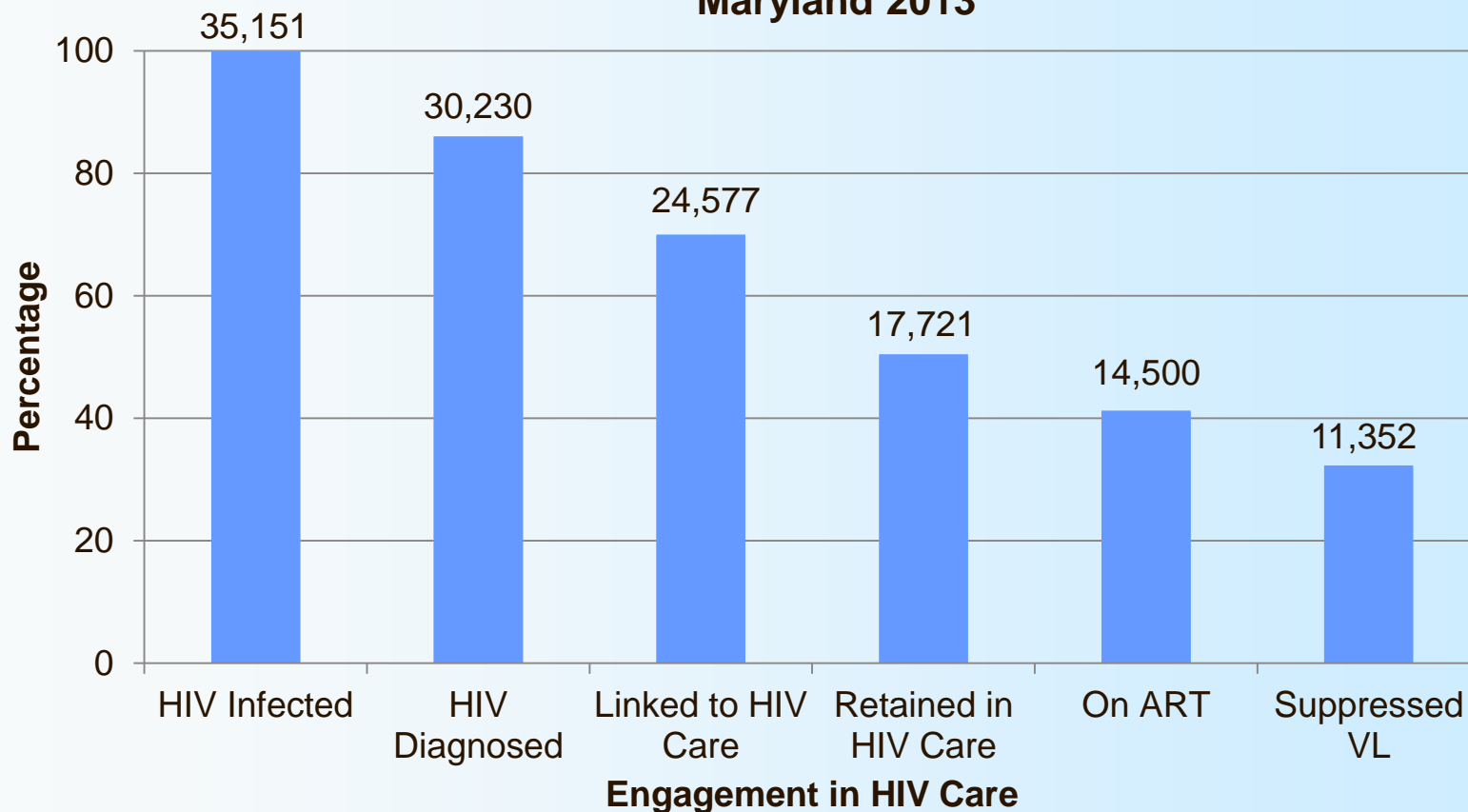
Using data as reported through 12/31/2014

Continuum of Care

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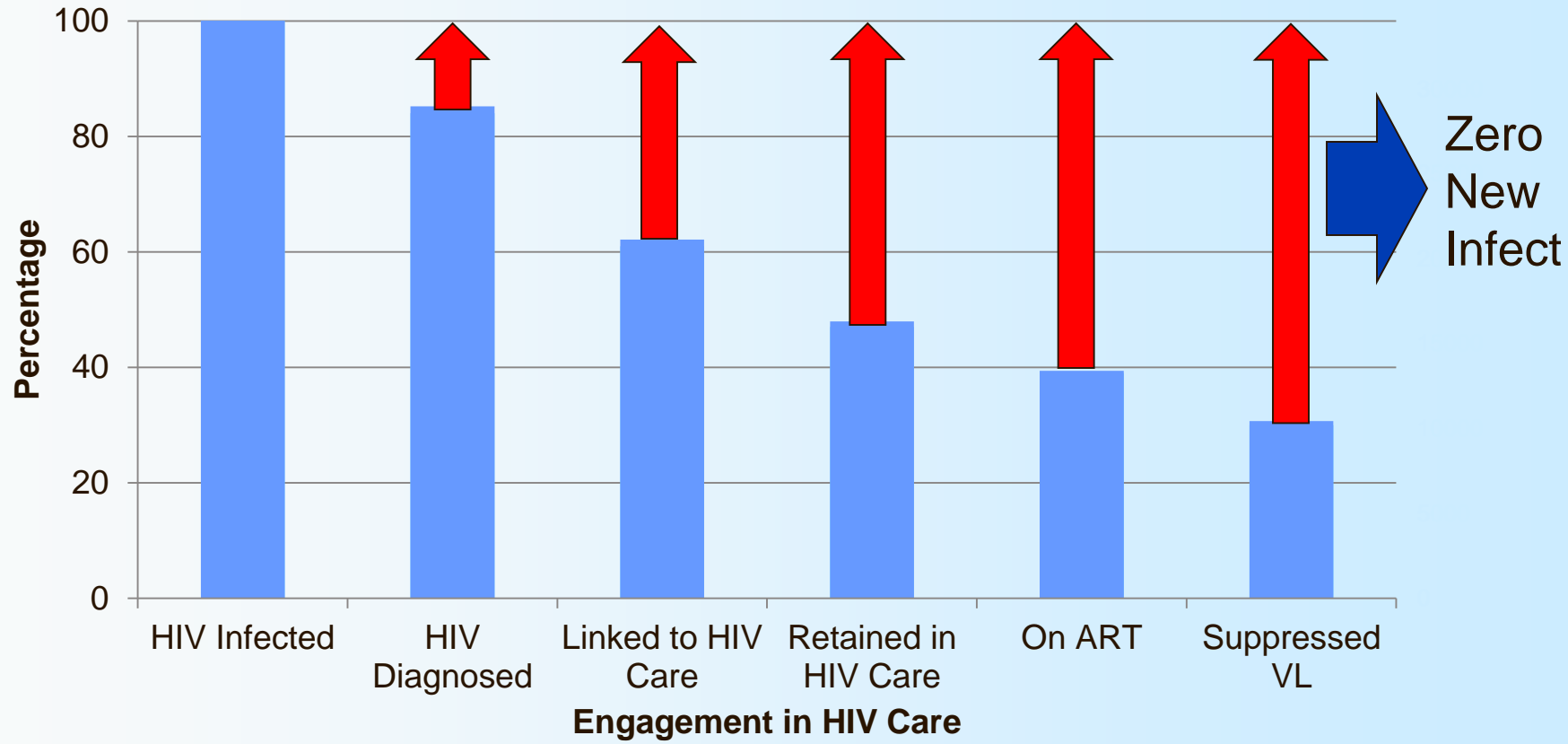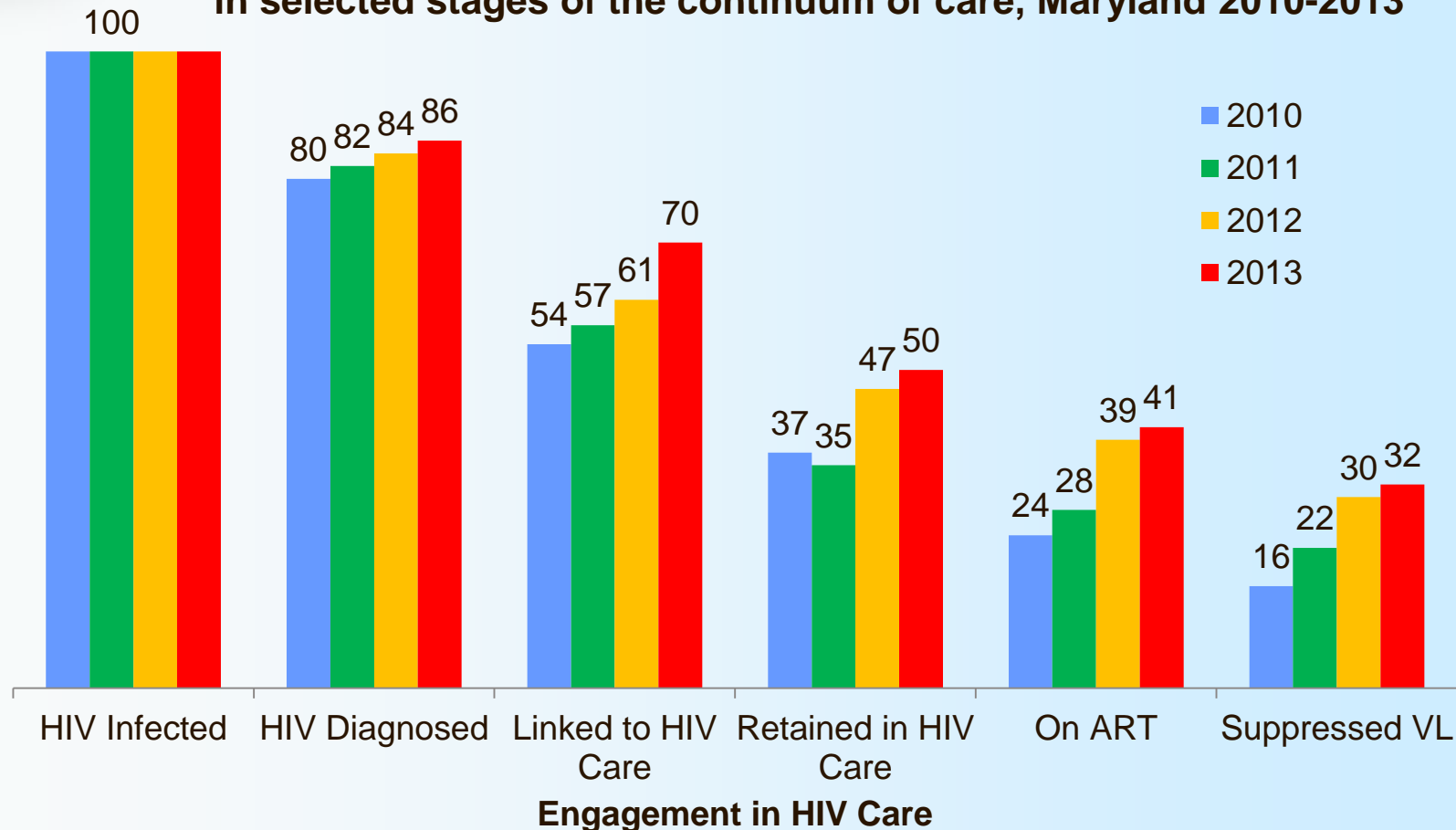

Zero New Infect

Improvements in the Continuum of Care

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

Legend:
- 2010
- 2011
- 2012
- 2013

Engagement in HIV Care	2010	2011	2012	2013
HIV Infected	100	100	100	100
HIV Diagnosed	80	82	84	86
Linked to HIV Care	54	57	61	70
Retained in HIV Care	37	35	47	50
On ART	24	28	39	41
Suppressed VL	16	22	30	32

Prevention and Health Promotion Administration

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