HIV Epidemiological Data for Prevention Planning in Maryland

Colin Flynn, Chief

Center for HIV Surveillance & Epidemiology

Infectious Disease & Environmental Health Admin.

Maryland Department of Health & Mental Hygiene

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IDEHA Mission

- To improve the health of Marylanders by reducing the transmission of infectious diseases, helping impacted persons live longer, healthier lives, and protecting individuals and communities from environmental health hazards

- We work in partnership with local health departments, providers, community based organizations, and public and private sector agencies to provide public health leadership in the prevention, control, monitoring, and treatment of infectious diseases and environmental health hazards.

National Data

U.S. HIV/AIDS Prevalence

- At the end of 2006, an estimated 1.1 million Americans were infected with HIV
- It is also estimated that 21% of the infected were undiagnosed
  - CDC. Morbidity and Mortality Weekly Report; October 3, 2008; 57:1073-6. Atlanta.

2009 Estimated AIDS Diagnoses, Ranked by Rates

STATE/TERRITORY	Cases	Rate per 100,000
1. District of Columbia	718	119.8
2. New York	4,799	24.6
3. Florida	4,392	23.7
4. Maryland	***1,134***	***19.9***
5. Louisiana	869	19.4
6. Puerto Rico	735	18.5
7. Delaware	159	18.0
8. New Jersey	1,475	16.9
9. South Carolina	713	15.6
10. Georgia	1,391	14.1
United States	*34,993*	*11.2*

CDC. HIV Surveillance Report, 2009. Vol. 21. Table 20.

2009 Estimated AIDS Diagnoses, Ranked by Rates

METROPOLITAN AREA	Cases	Rate per 100,000
1 Miami, FL	2,061	37.2
2. Baton Rouge, LA	241	30.6
3. Jacksonville, FL	387	29.1
4. New York, NY-NJ-PA	5,153	27.0
5. Washington, DC-VA-MD-WV	***1,455***	***26.6***
6. Columbia, SC	175	23.5
7. Memphis, TN-MS-AR	305	23.3
8. Orlando, FL	485	23.3
9. New Orleans-Metairie-Kenner, LA	274	23.0
10. Baltimore-Towson, MD	***614***	***22.8***
United States	*34,981*	*11.2*

CDC. HIV Surveillance Report, 2009. Vol. 21. Table 24.

2008 Estimated Adults Living with AIDS, Ranked by Rates

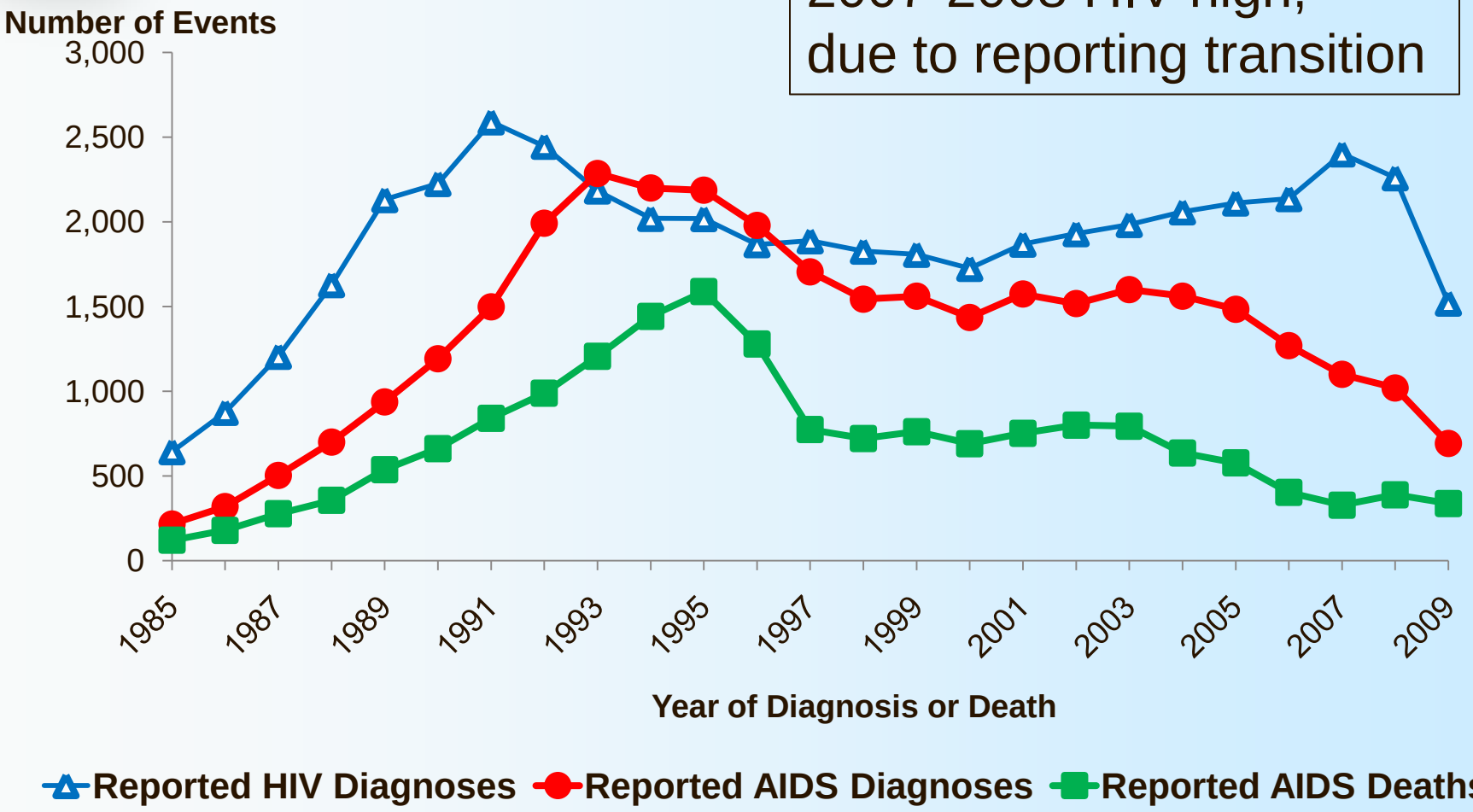
STATE/TERRITORY	Cases	Rate per 100,000
1. District of Columbia	9,475	1,865.1
2. New York	82,703	506.4
3. Maryland	***17,063***	***363.3***
4. Virgin Islands	321	356.4
5. Florida	50,833	327.8
6. Puerto Rico	10,453	319.4
7. New Jersey	19,076	264.8
8. Georgia	19,975	255.2
9. Delaware	1,841	252.8
10. Connecticut	6,999	238.6
United States	*489,977*	*192.5*

CDC. HIV Surveillance Report, 2009. Vol. 21. Table 22.

Epidemiological Description

Maryland HIV/AIDS Trends

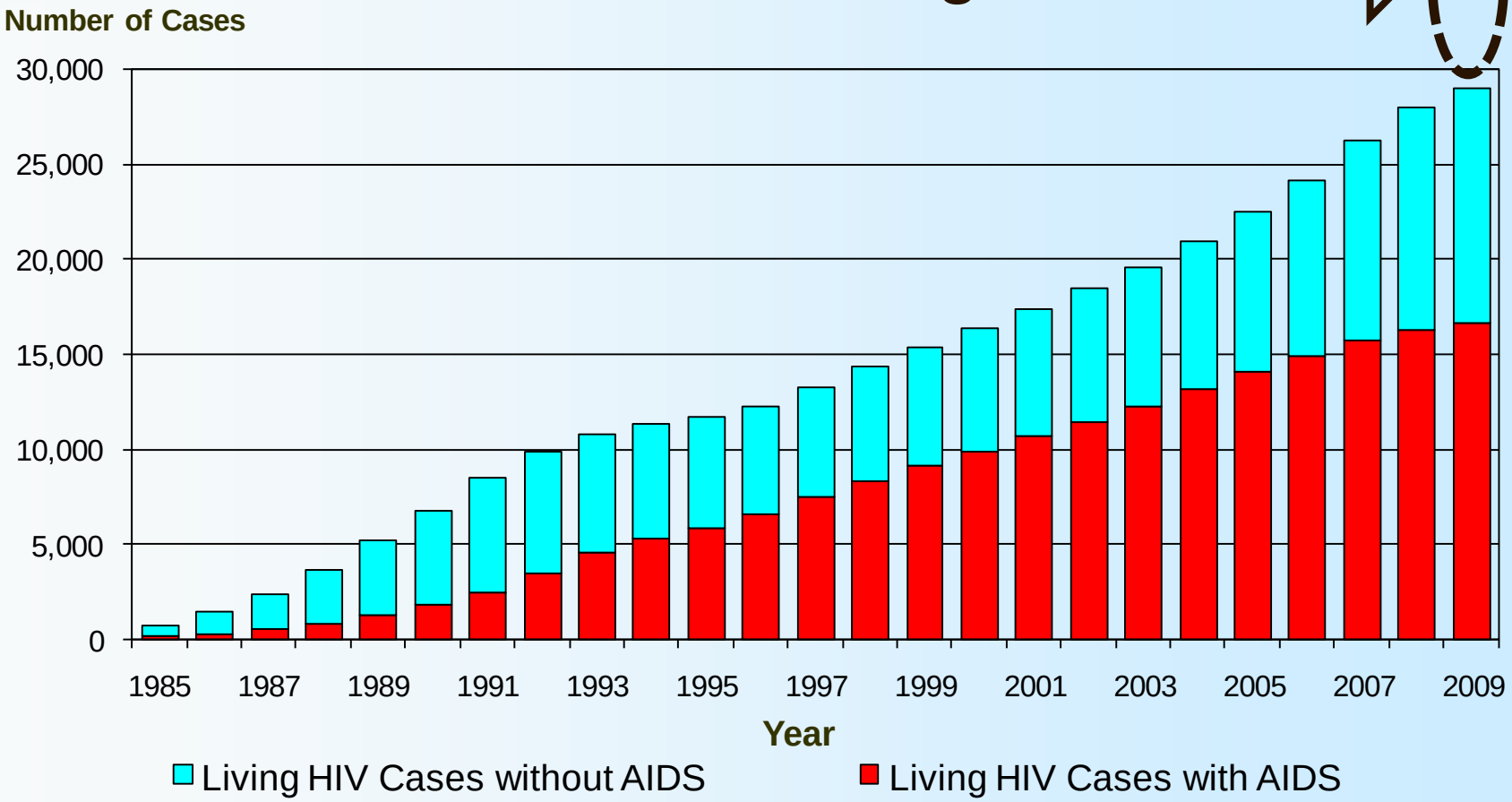
2007-2008 HIV high,
due to reporting transition



Using data as reported through 12/31/2010

Maryland Living HIV Cases

+21% Undiagnosed?



Using data as reported through 12/31/2010

Maryland HIV/AIDS Statistics

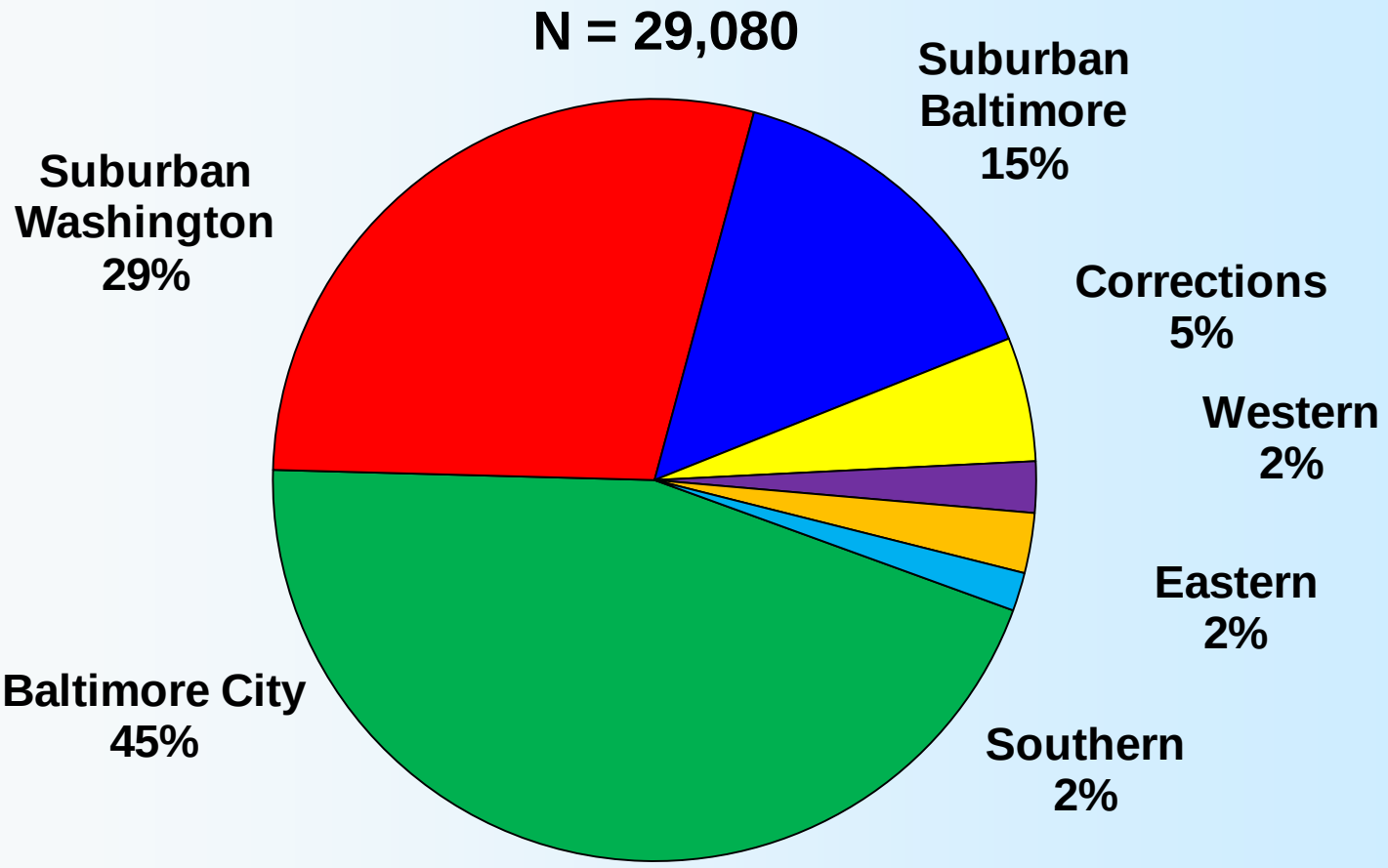
Reported Diagnoses (during 2009)	No.	per 100,000	1 in X
HIV	1,521	26.7	
AIDS	692	12.1	
Living Cases (on 12/31/09)			
HIV without AIDS	12,373	217.1	
HIV with AIDS	16,707	293.1	
Total HIV	29,080	510.2	196
Cumulative (through 12/31/10)			
Total HIV	48,812		
HIV with AIDS	34,809	(71.3% of HIV)	
AIDS Deaths	17,741	(51.0% of AIDS)	

Using data as reported through 12/31/2010

Maryland Living HIV Cases

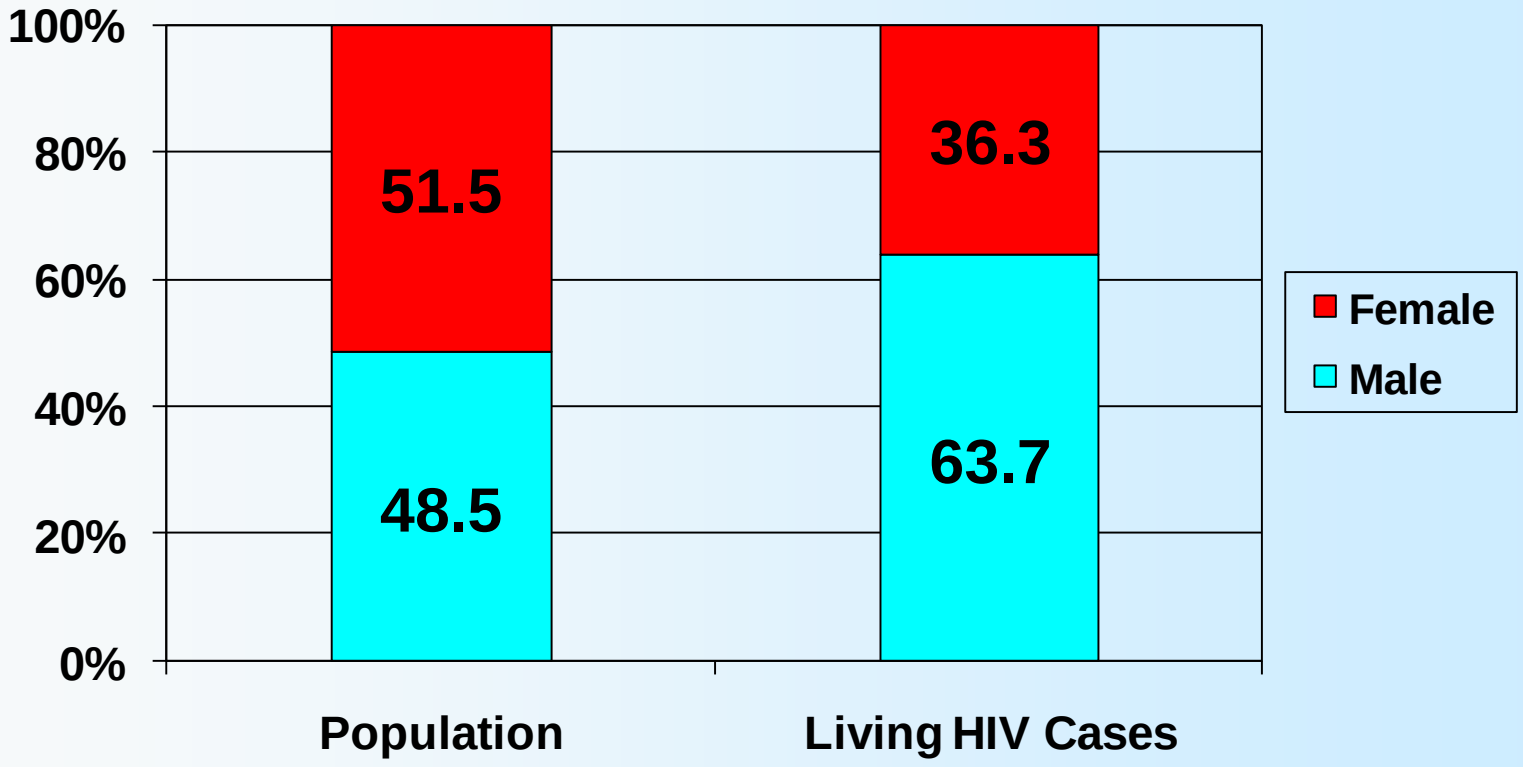
Reported HIV cases with or without an AIDS diagnosis and not reported to have died as of 12/31/09 as reported by name through 12/31/10

Maryland Living HIV Cases by Region, 12/31/09



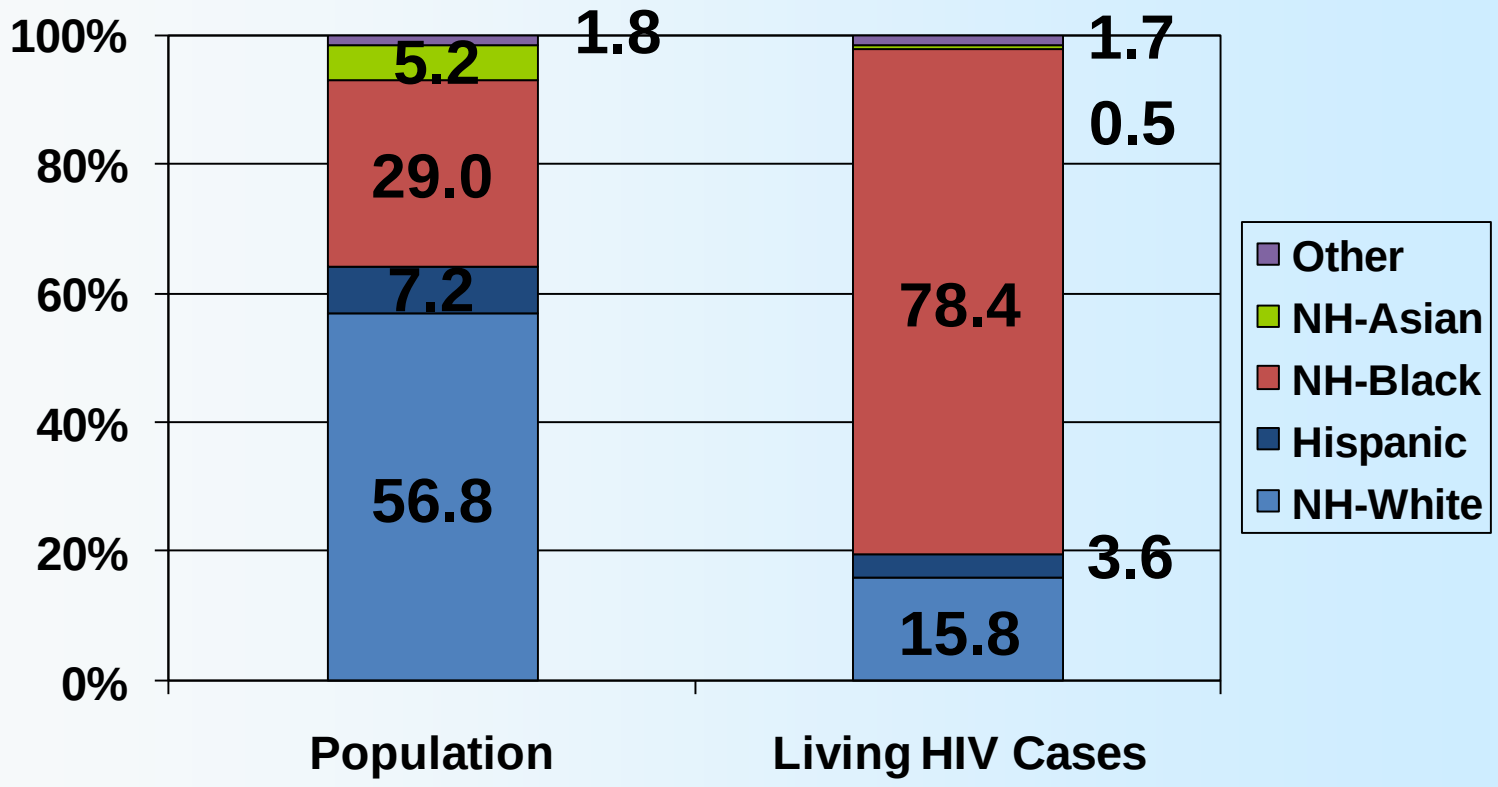
Using data as reported through 12/31/2010

Population and Living HIV Cases by Sex at Birth



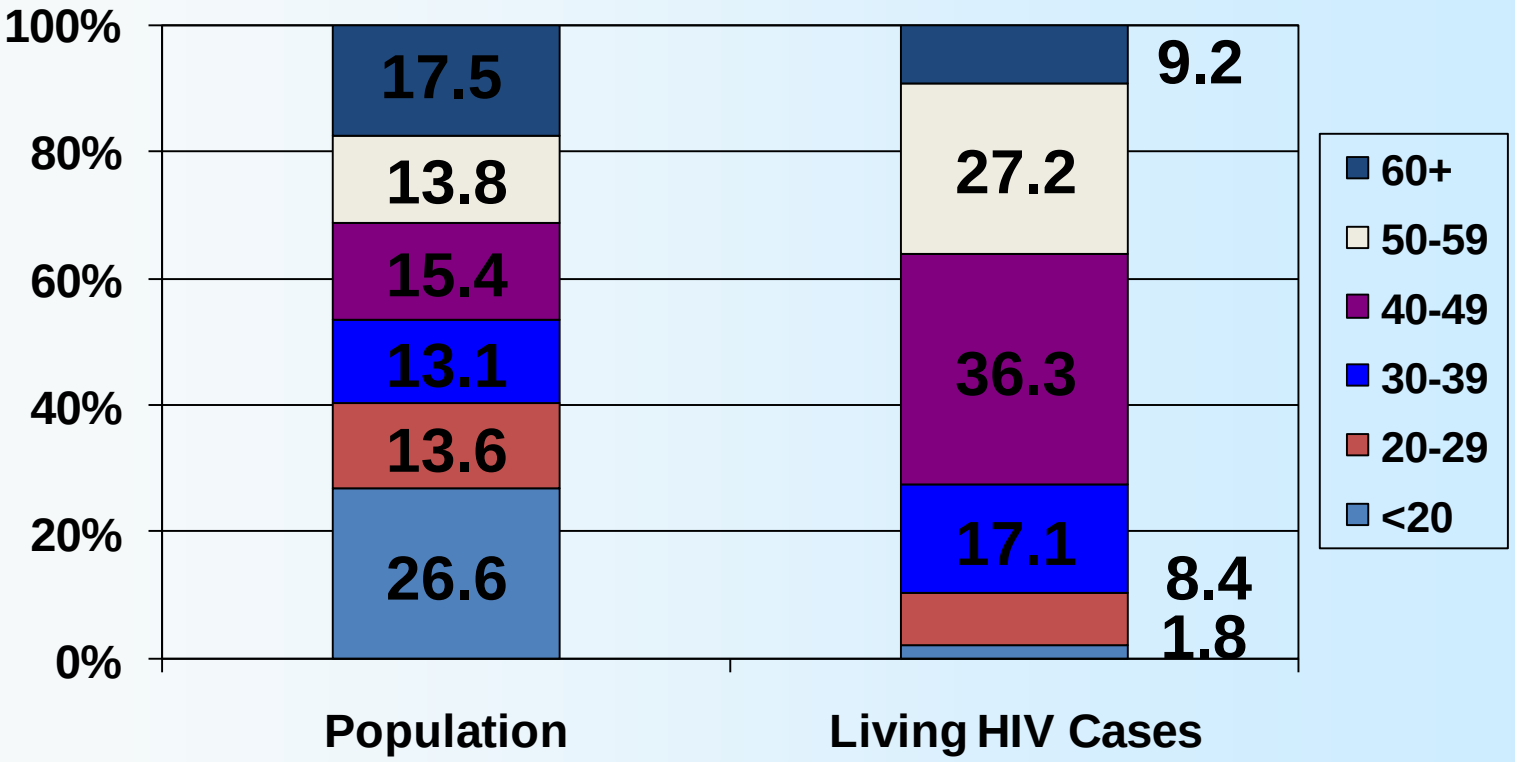
Population on 7/1/09, Cases on 12/31/09 as reported through 12/31/10

Population and Living HIV Cases by Race/Ethnicity



Population on 7/1/09, Cases on 12/31/09 as reported through 12/31/10

Population and Living HIV Cases by Age

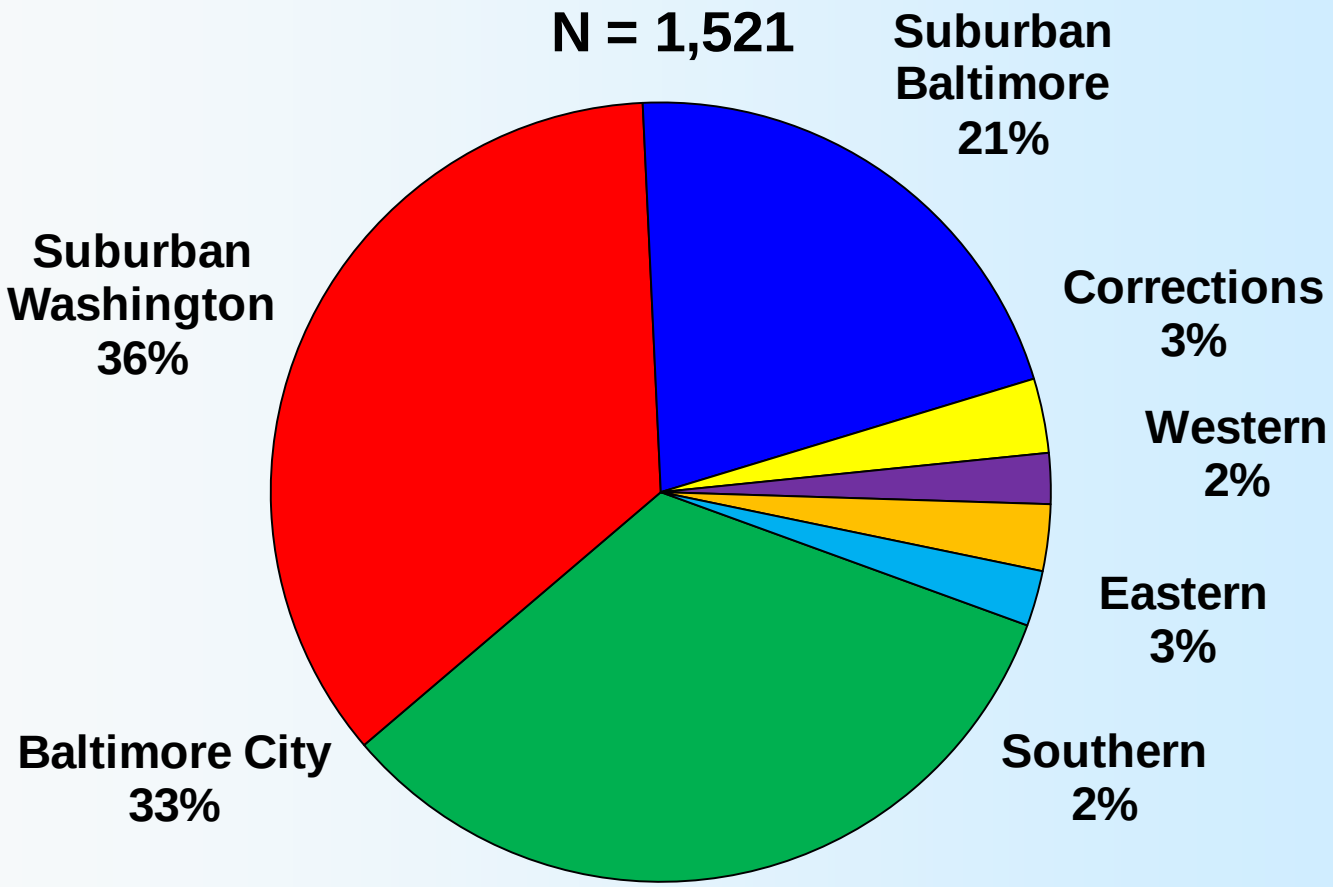


Population on 7/1/09, Cases on 12/31/09 as reported through 12/31/10

Maryland Reported HIV Diagnoses

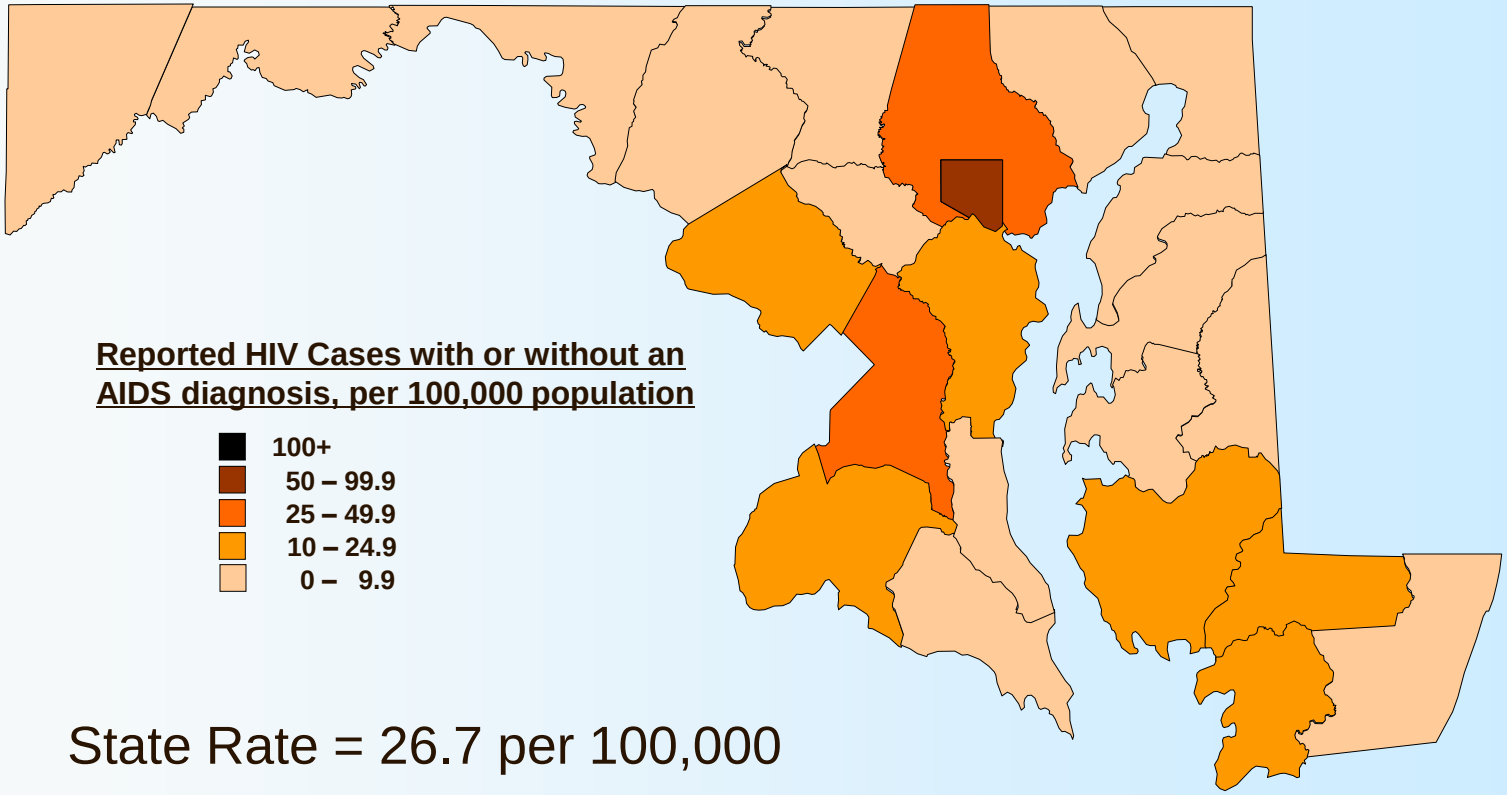
Reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 2009, as reported by name through 12/31/10

Maryland Reported HIV Diagnoses by Region, 2009



Using data as reported through 12/31/2010

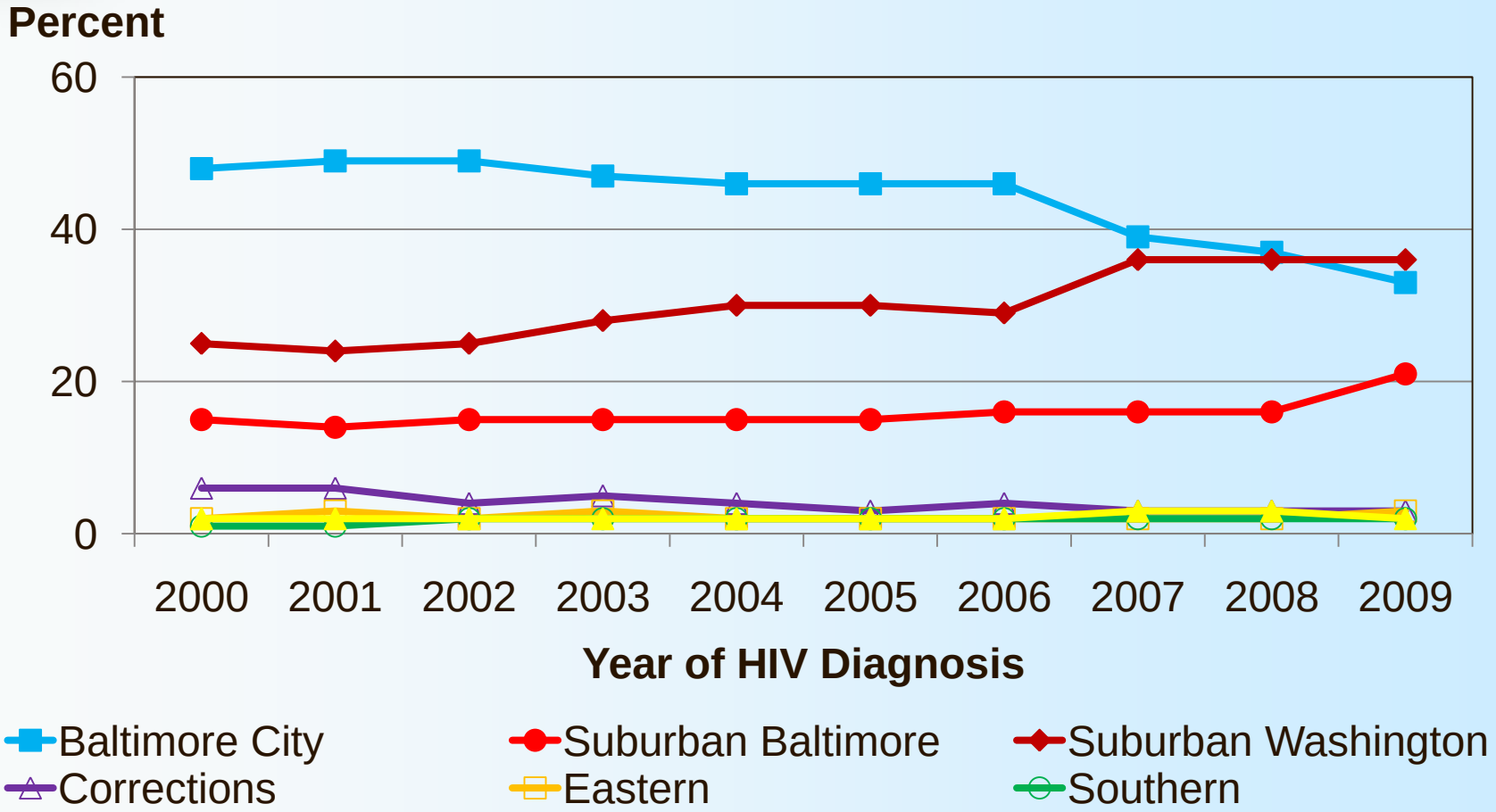
Maryland Reported HIV Diagnosis Rates by Jurisdiction, 2009



State Rate = 26.7 per 100,000

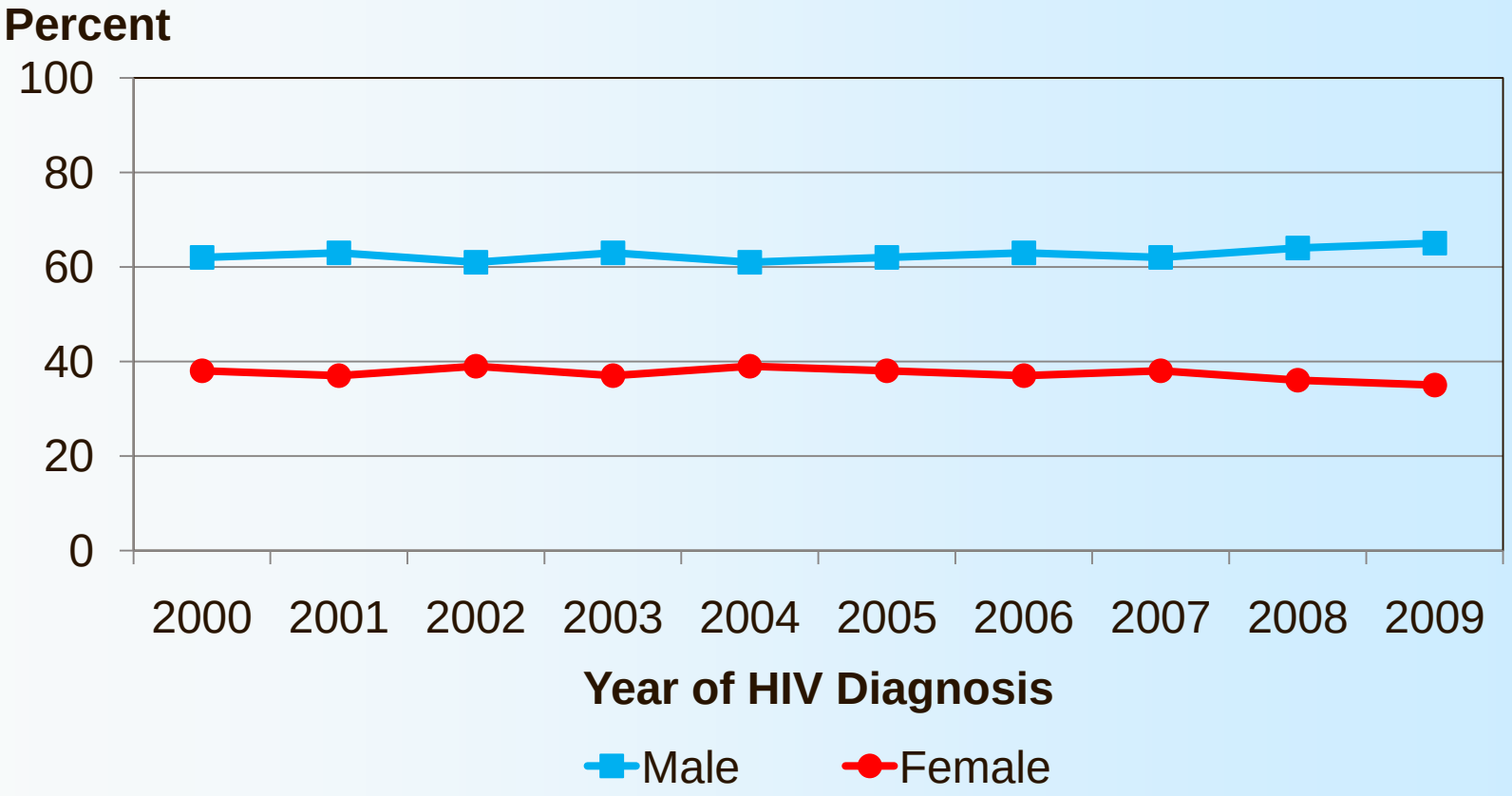
Epidemiological Trends

Reported HIV Diagnosis Trends by Region



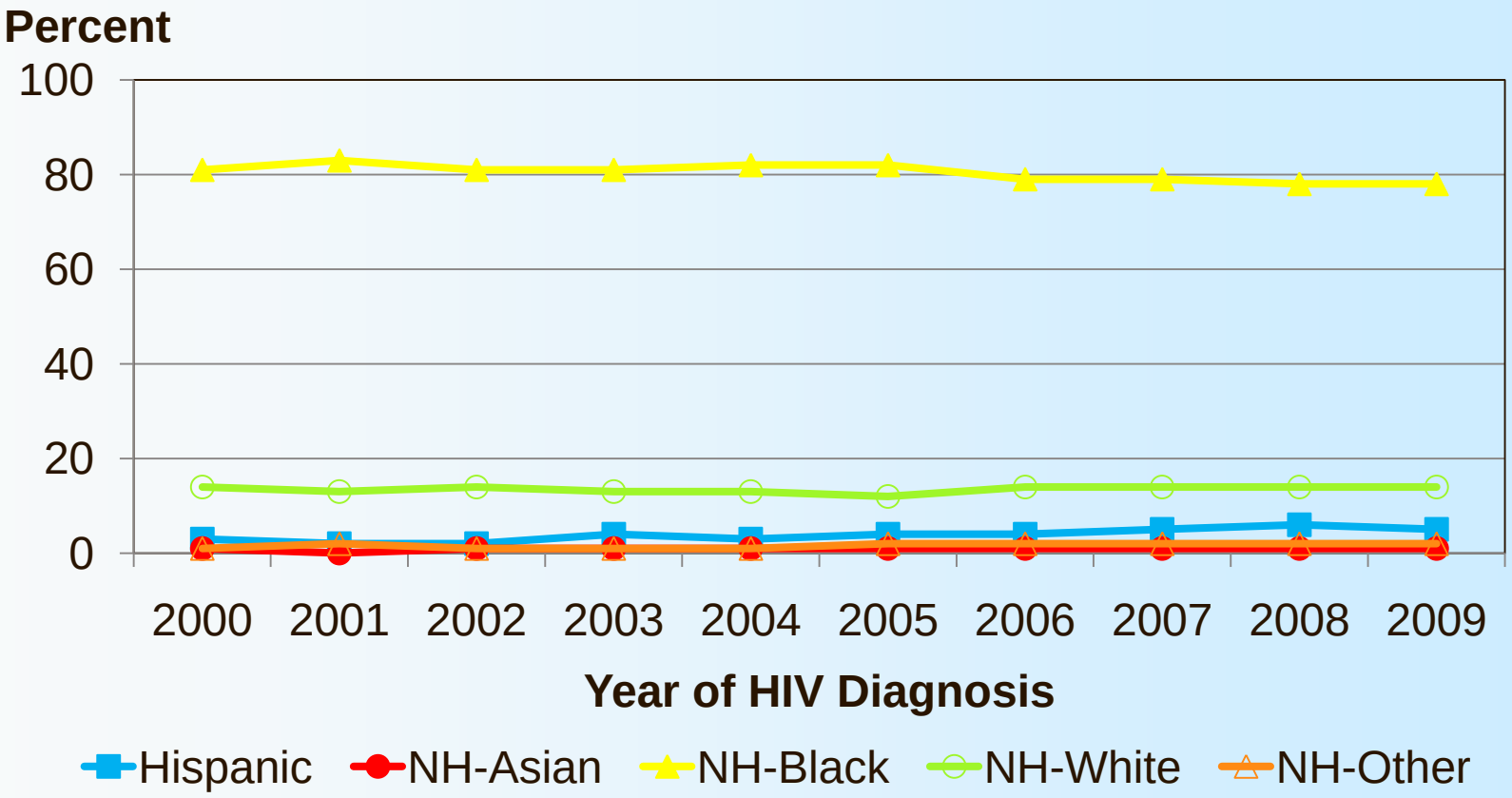
Using data as reported through 12/31/2010

Reported HIV Diagnosis Trends by Sex at Birth



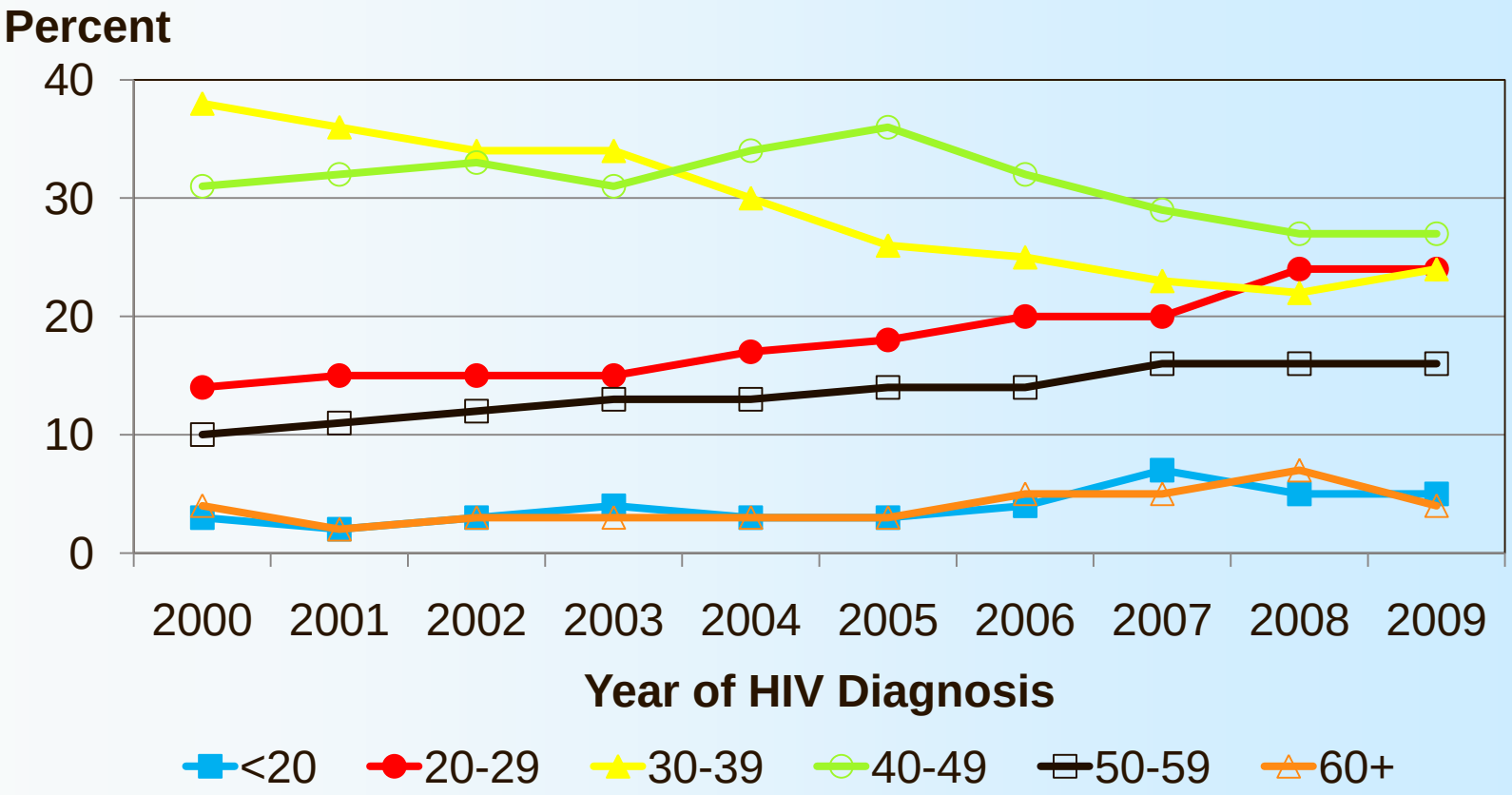
Using data as reported through 12/31/2010

Reported HIV Diagnosis Trends by Race/Ethnicity



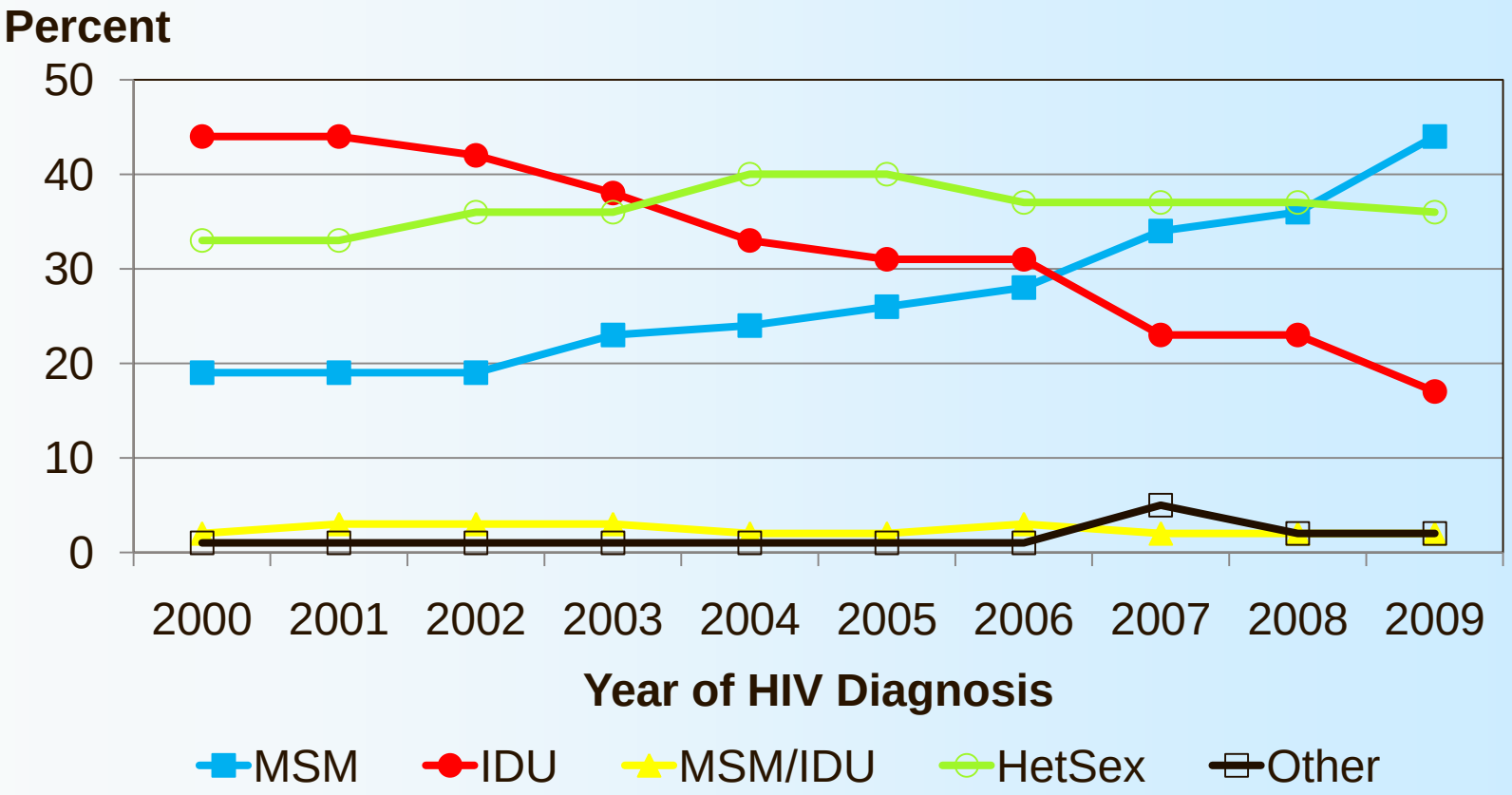
Using data as reported through 12/31/2010

Reported HIV Diagnosis Trends by Age at Diagnosis



Using data as reported through 12/31/2010

Reported HIV Diagnosis Trends by Exposure Category

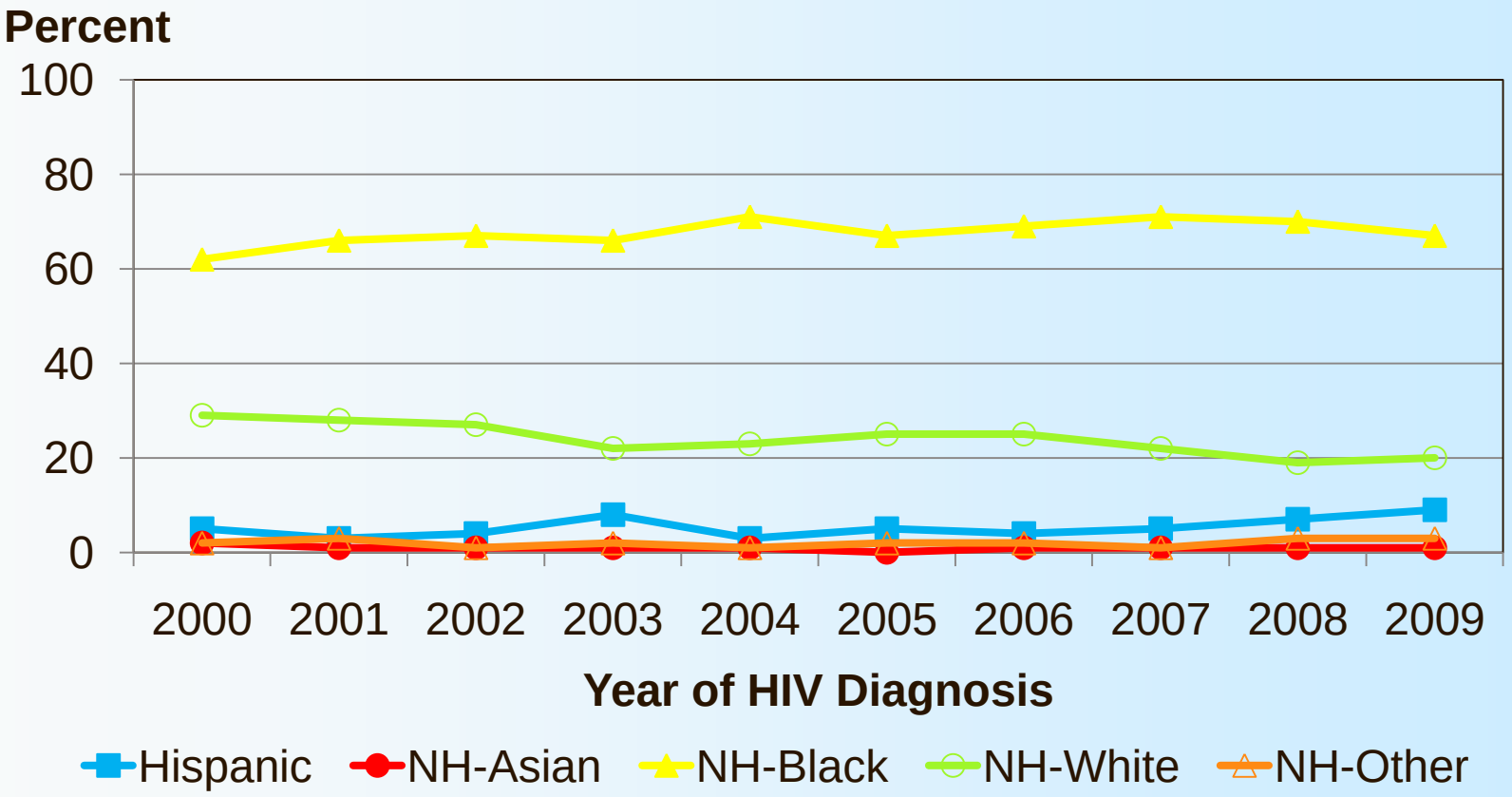


Using data as reported through 12/31/2010

Maryland Reported HIV Diagnosis Trends

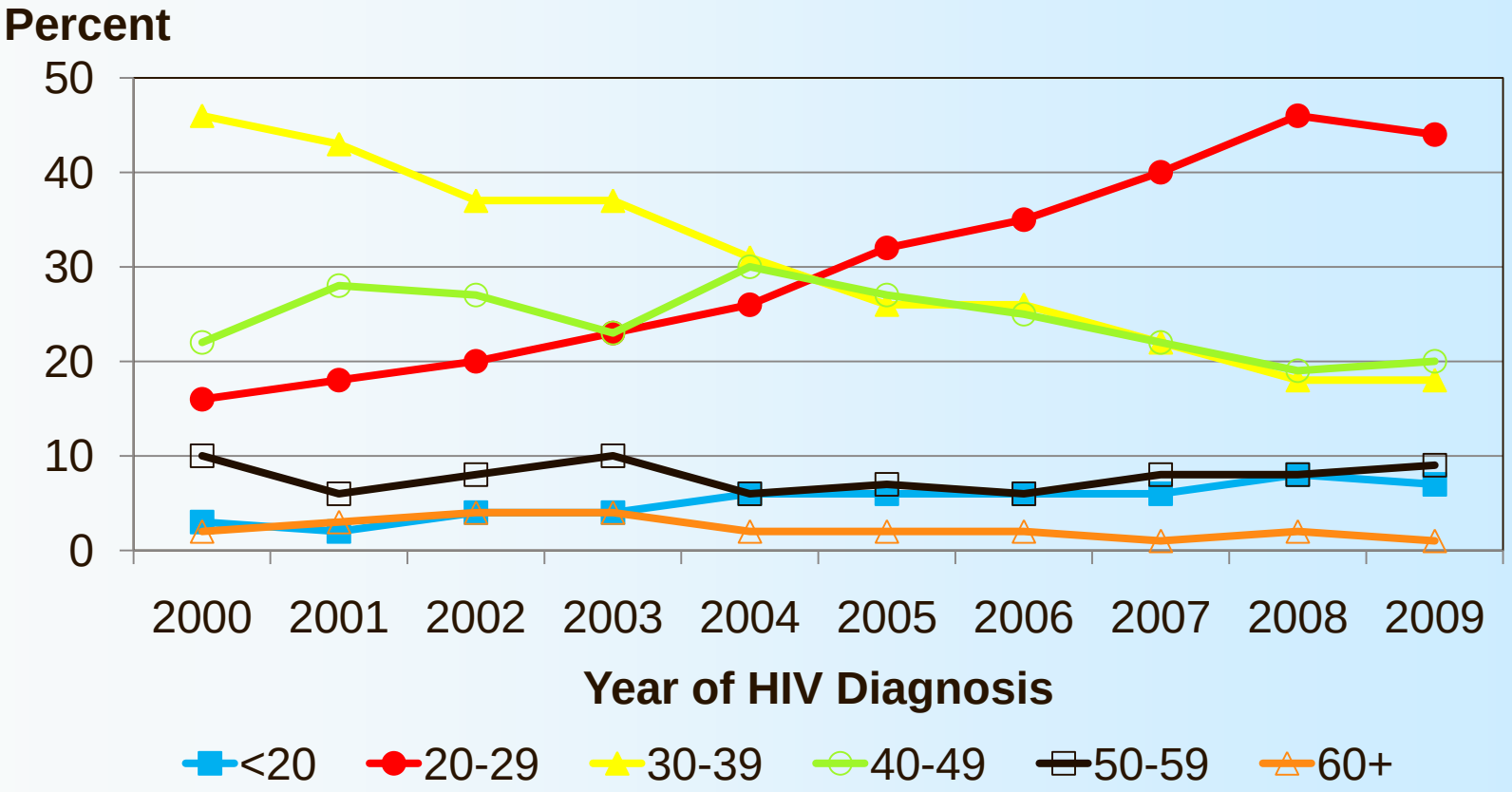
MSM Exposure

Reported HIV Diagnosis Trends by Race/Ethnicity MSM Exposure



Using data as reported through 12/31/2010

Reported HIV Diagnosis Trends by Age at Diagnosis MSM Exposure

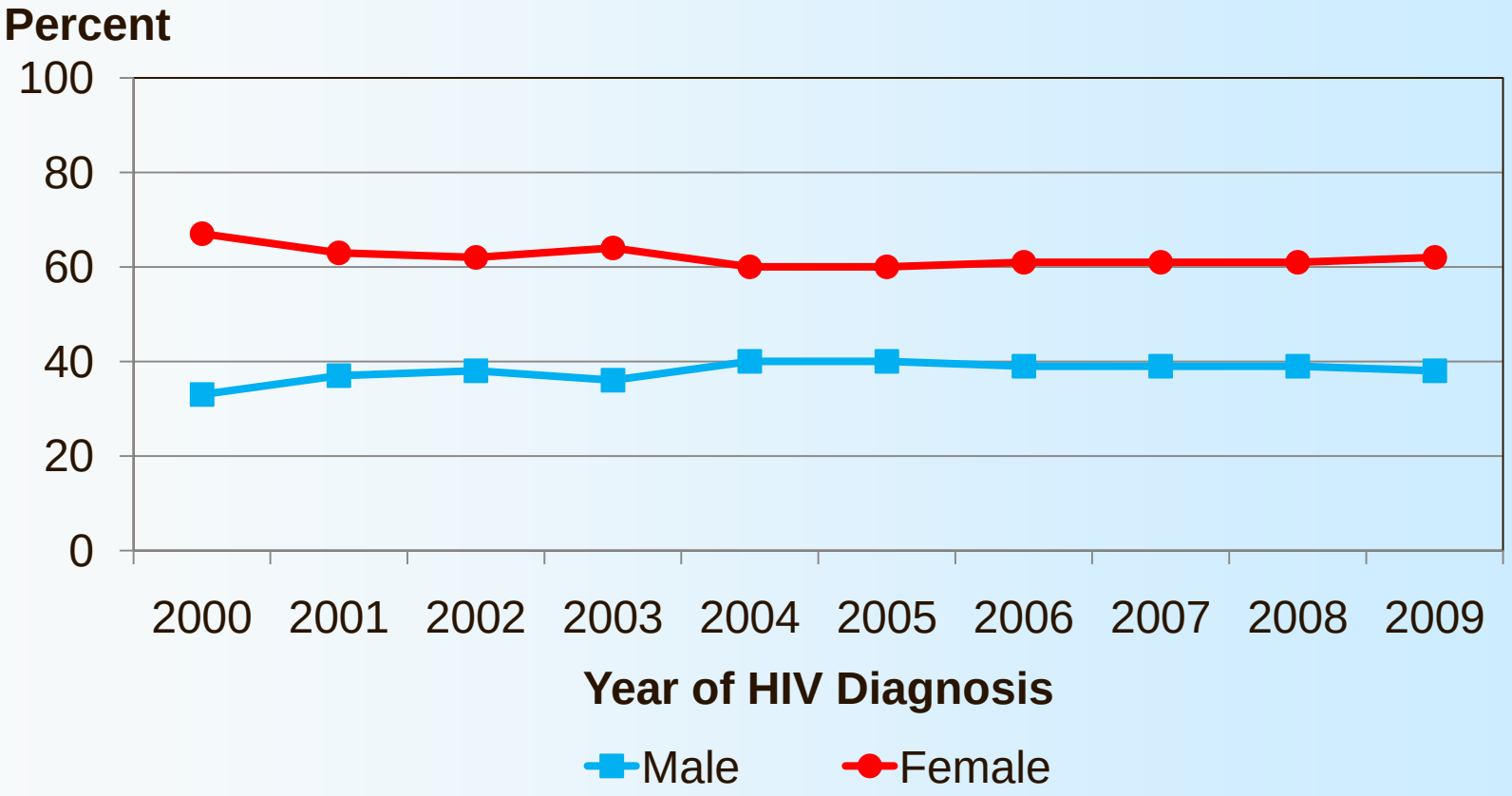


Using data as reported through 12/31/2010

Maryland Reported HIV Diagnosis Trends

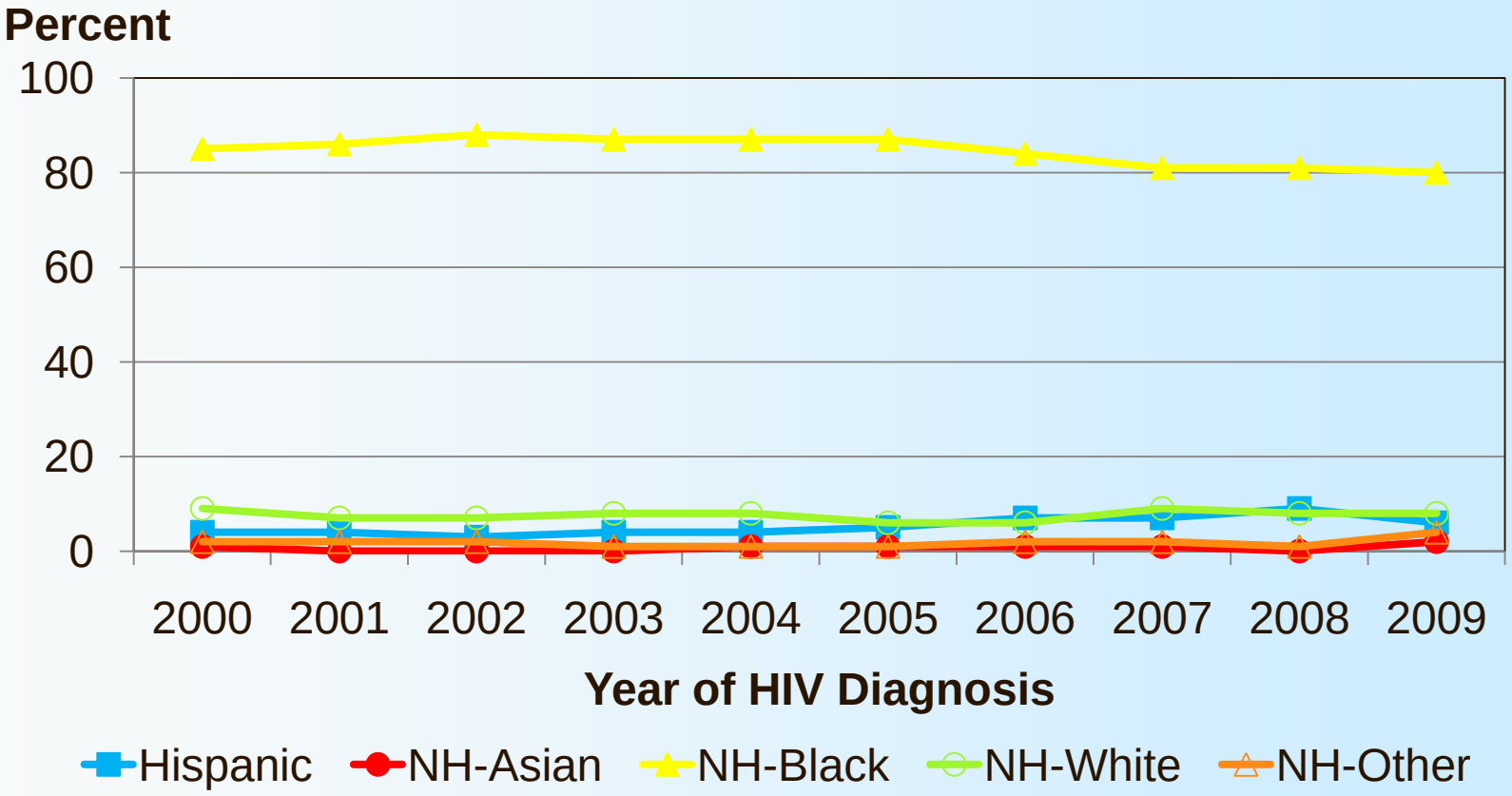
Heterosexual Exposure

Reported HIV Diagnosis Trends by Sex at Birth Heterosexual Exposure



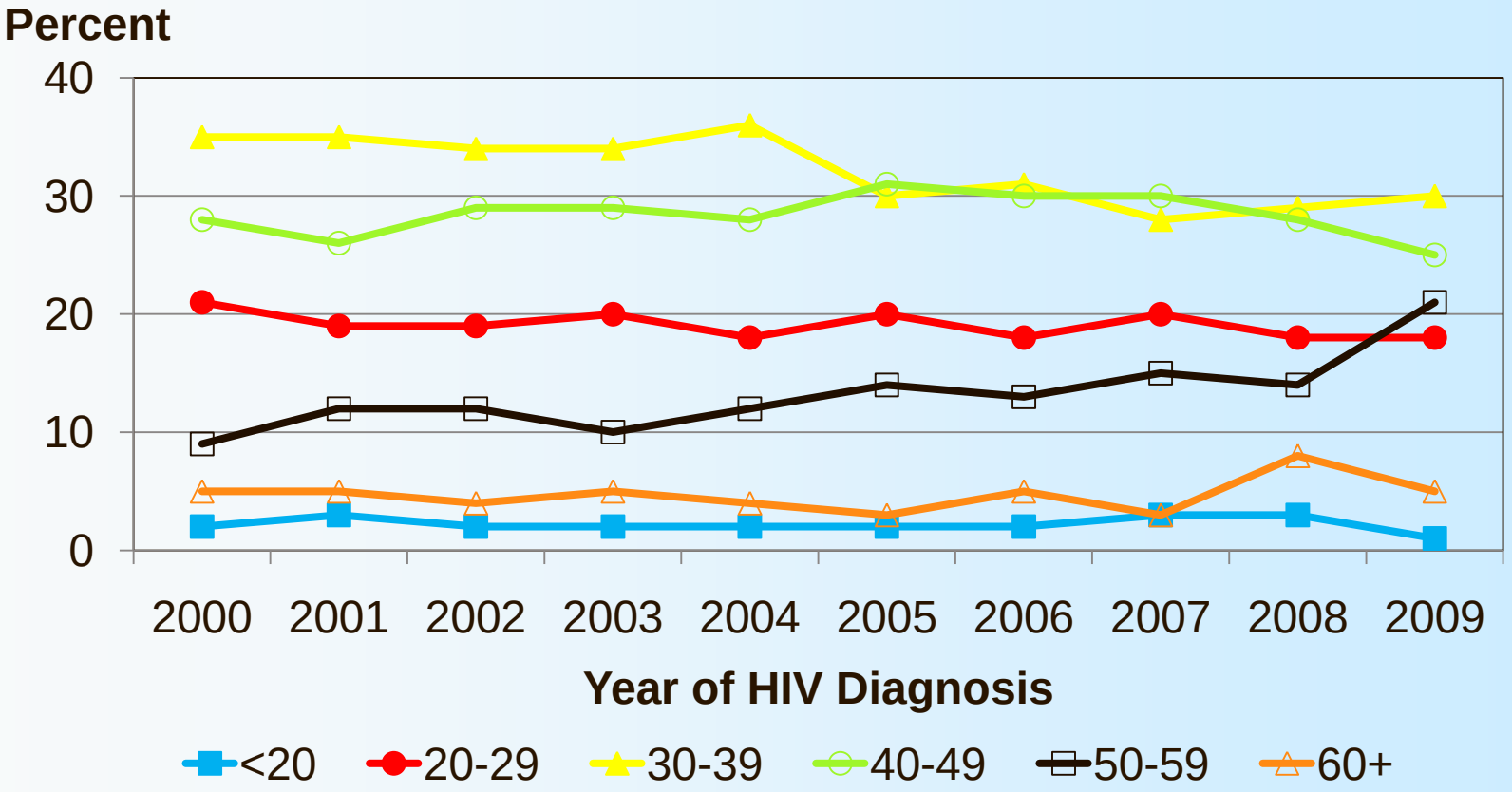
Using data as reported through 12/31/2010

Reported HIV Diagnosis Trends by Race/Ethnicity Heterosexual Exposure



Using data as reported through 12/31/2010

Reported HIV Diagnosis Trends by Age at Diagnosis Heterosexual Exposure

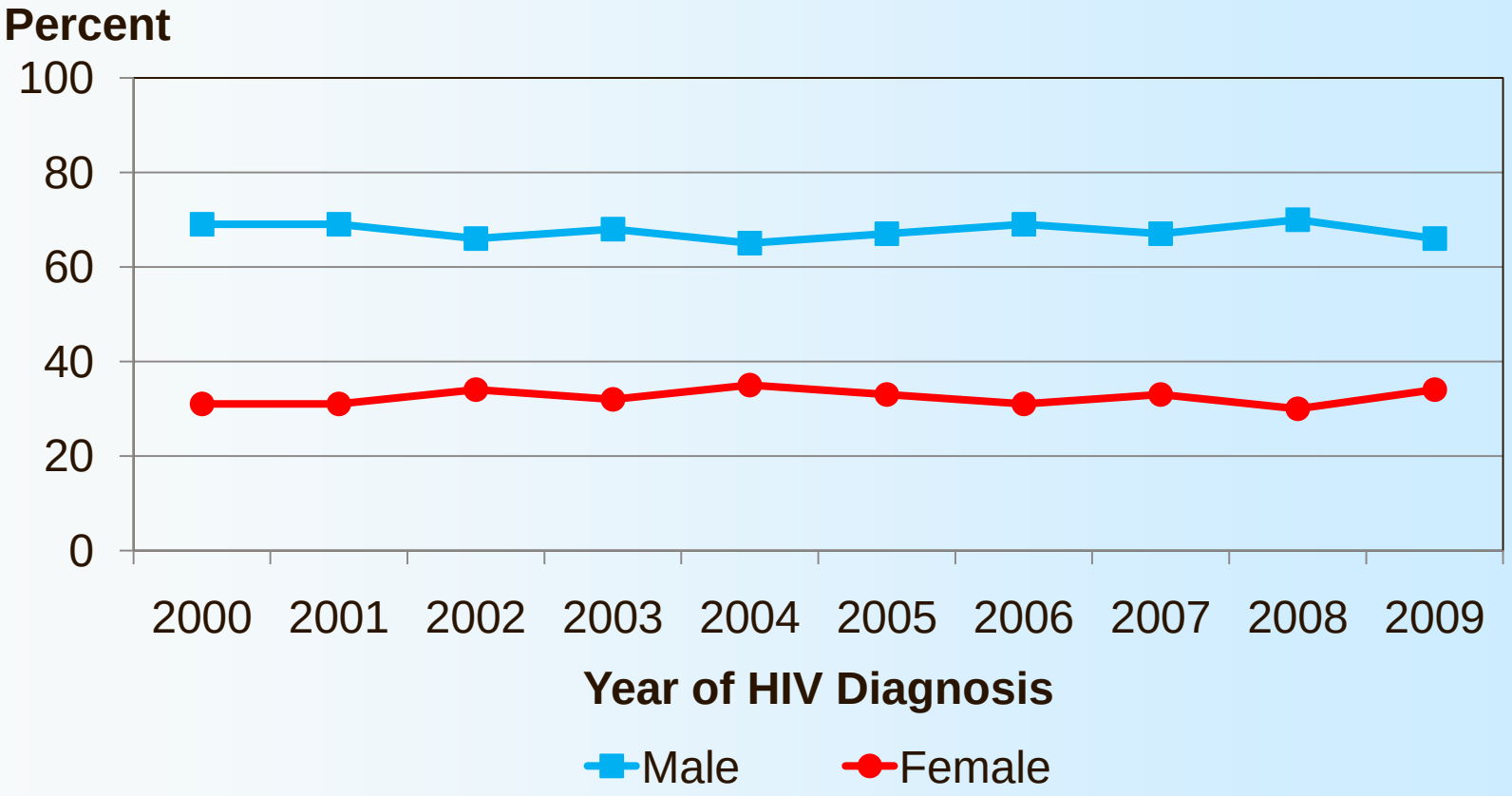


Using data as reported through 12/31/2010

Maryland Reported HIV Diagnosis Trends

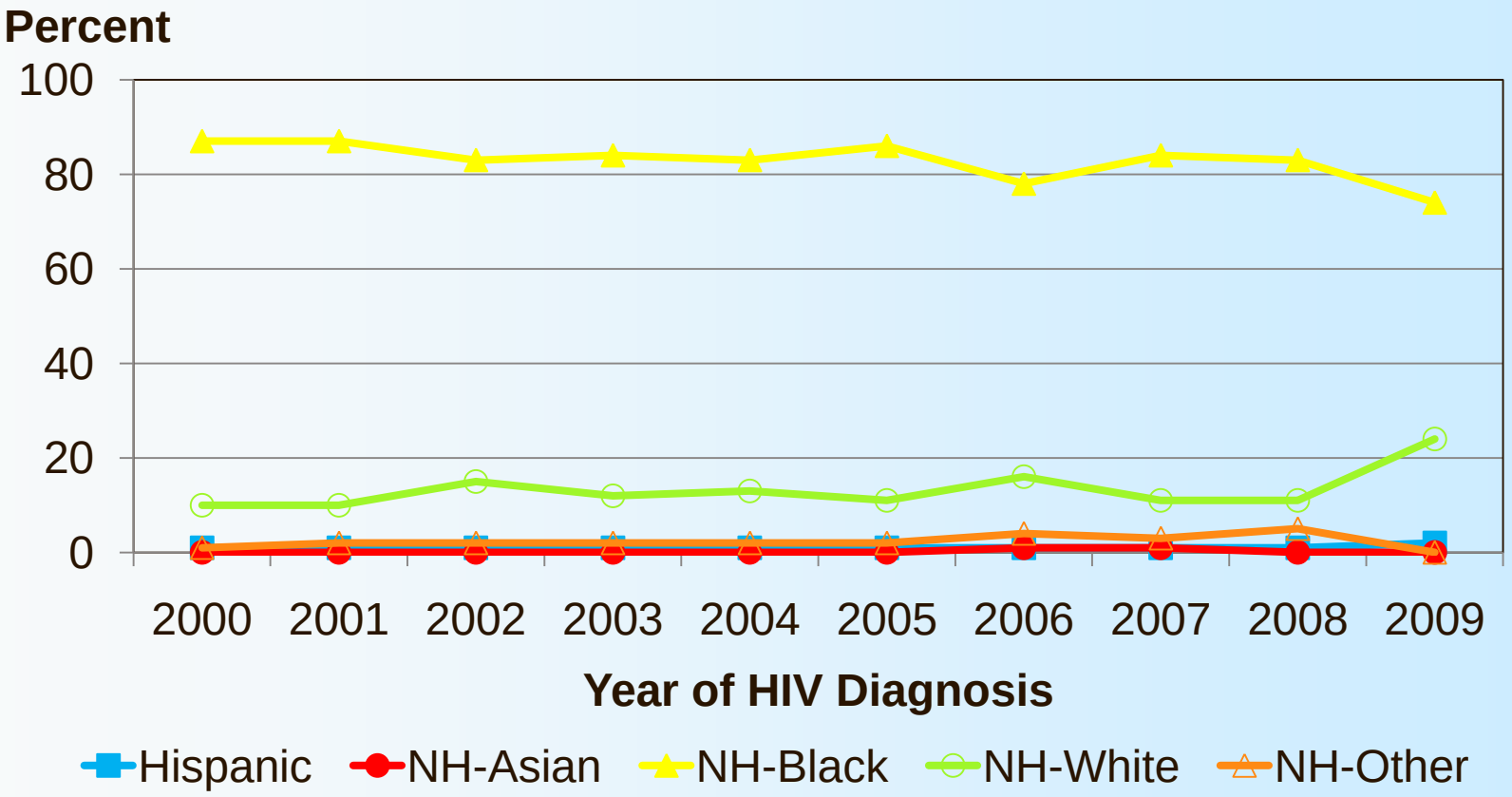
IDU Exposure

Reported HIV Diagnosis Trends by Sex at Birth IDU Exposure



Using data as reported through 12/31/2010

Reported HIV Diagnosis Trends by Race/Ethnicity IDU Exposure



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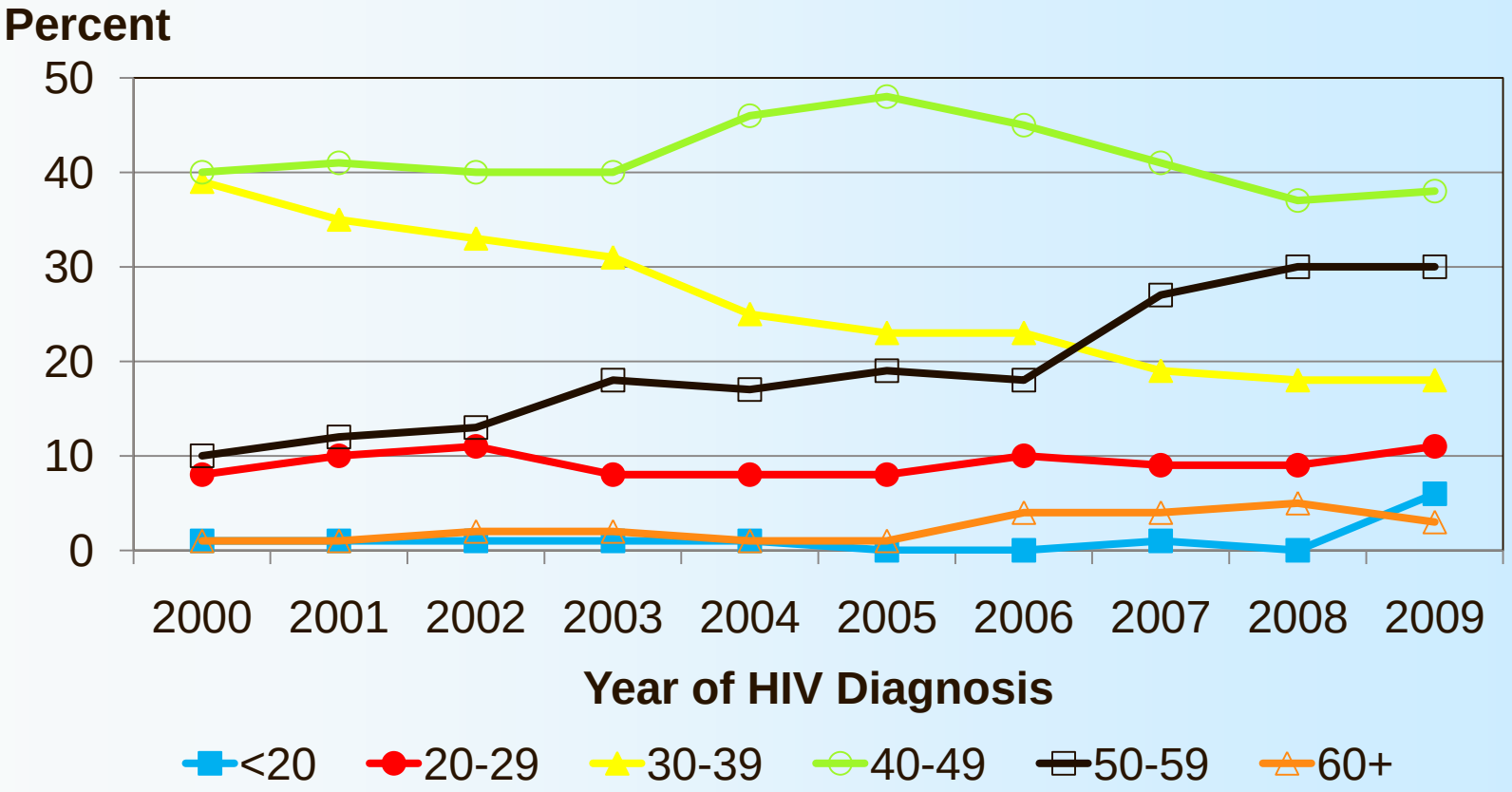
Reported HIV Diagnosis Trends by Age at Diagnosis IDU Exposure



Using data as reported through 12/31/2010

Priority Population Recommendations

Maryland HIV Prevention Priorities

1) HIV Positive Persons

Living HIV cases on 12/31/2009 (N=29,080)

78% non-Hispanic black

64% male

64% were 40-59 years old on 12/31/2009

Maryland HIV Prevention Priorities (continued)

2) Men who have Sex with Men

- 46% of 2009 reported HIV diagnoses (N≈700)
  - 67% non-Hispanic black
  - 51% were less than 30 years old at HIV diagnosis
  - (includes MSM and MSM/IDU)

Maryland HIV Prevention Priorities (continued)

3) Heterosexuals

- 36% of 2009 reported HIV diagnoses (N≈548)
  - 80% non-Hispanic black
  - 62% female
  - 55% were 30-49 years old at HIV diagnosis

Maryland HIV Prevention Priorities (continued)

4) Injection Drug Users

19% of 2009 reported HIV diagnoses (N≈289)

74% non-Hispanic black

66% male

67% were 40-59 years old at HIV diagnosis

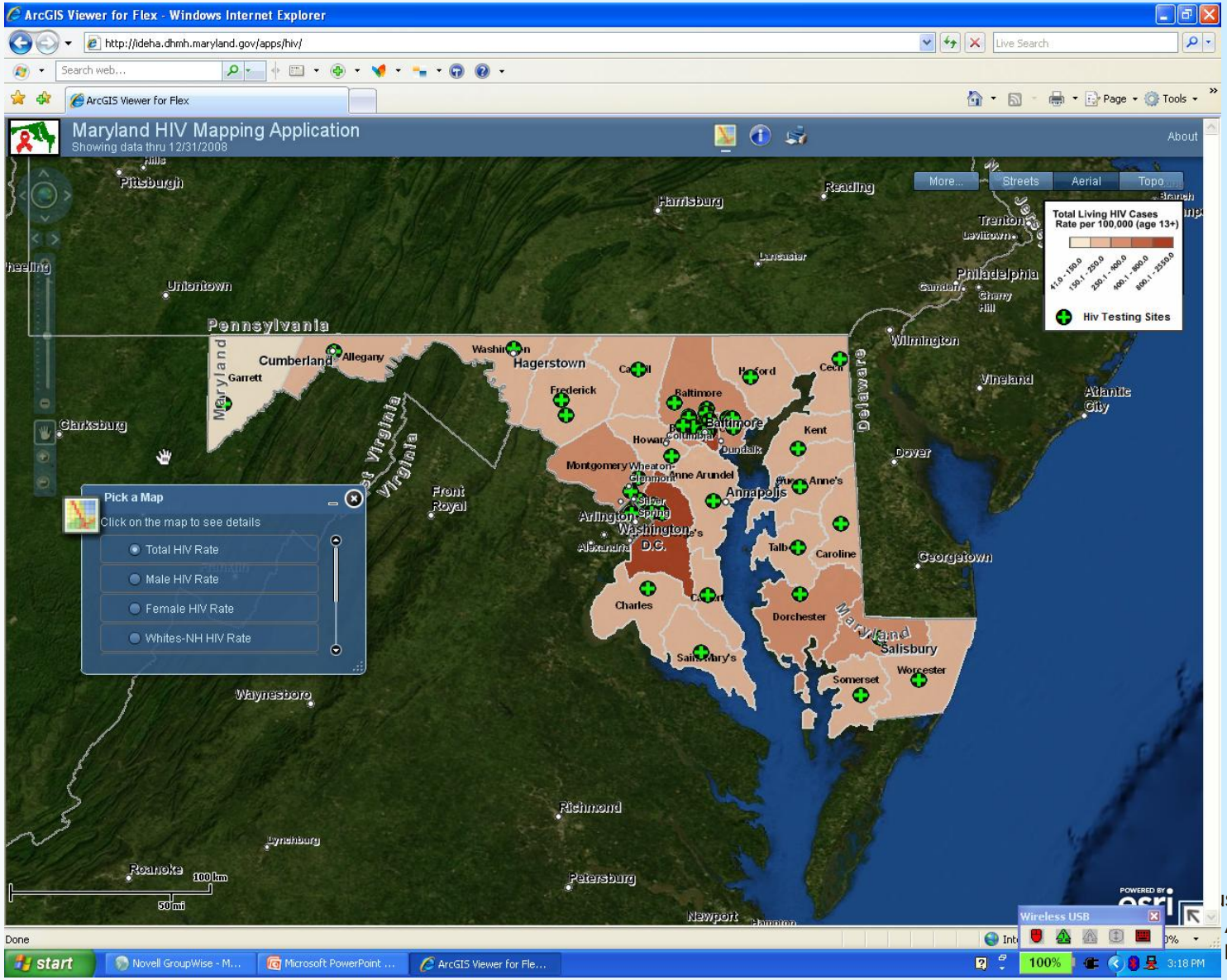
(includes IDU and MSM/IDU)

5) Special Populations

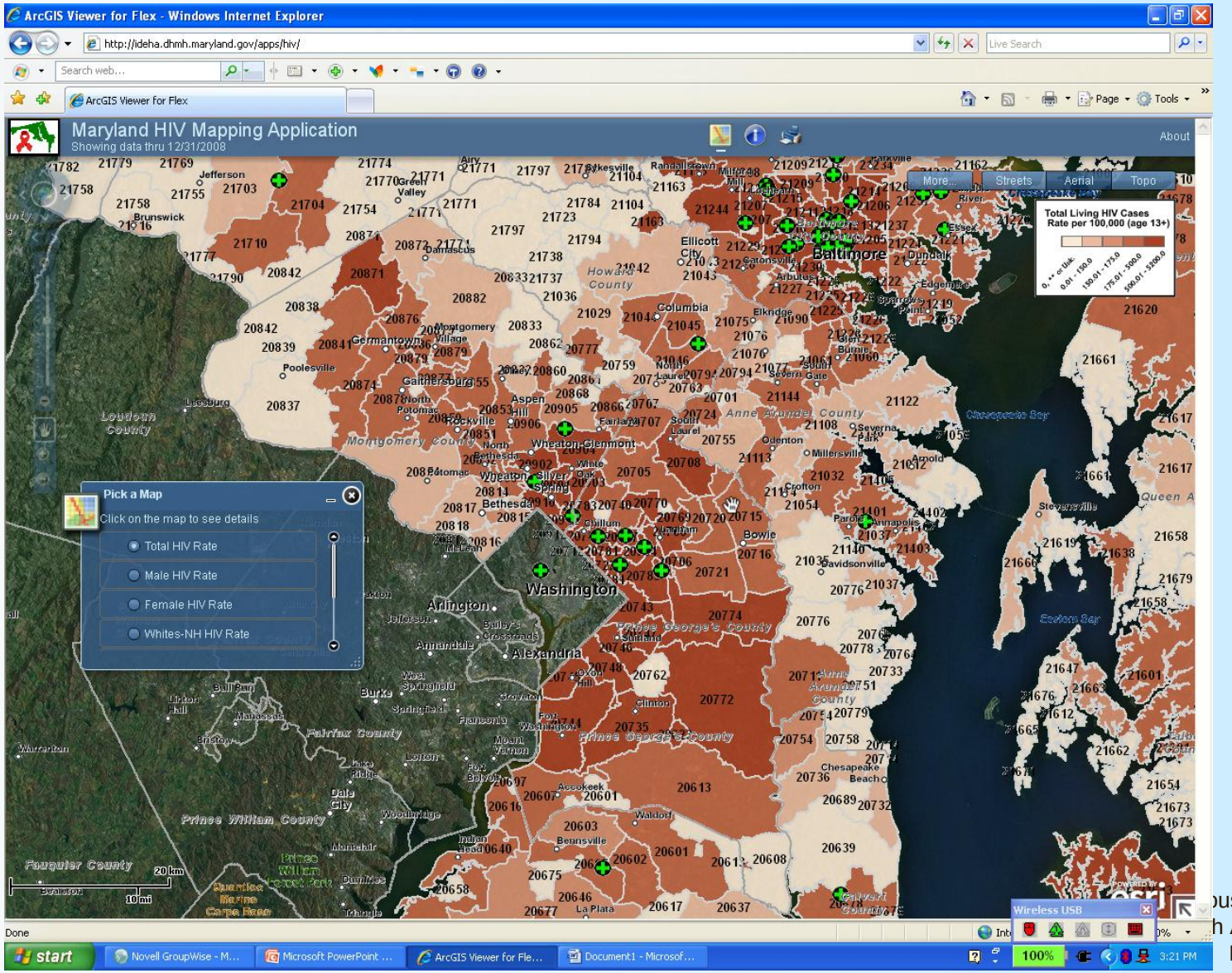
New Epidemiological Products
Coming to the New IDEHA Website

- New Epi Profiles for State, Regions, Counties
- New Indicators
  - Linkage to care
  - Late HIV diagnosis
  - CD4 counts at HIV diagnosis
  - Disease state: CD4 and VL levels for living cases
  - Progression: HIV to AIDS, AIDS to death
  - Presumed female heterosexual exposure category
- New HIV Mapping Tool
- New Query-able Database

New HIV Mapping Tool



HIV Rates by ZIP Code



2009 Reported Adult/Adolescent HIV Diagnoses (N=1,513)

- Linkage to Care: 58% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 63% had a CD4 test within 12 months of HIV diagnosis, and the median value was 306 cells/microliter
- Late HIV Diagnosis: 29% had an AIDS diagnosis within 12 months of their HIV diagnosis

Using data as reported through 12/31/2010

Maryland Infectious Disease and Environmental Health Administration

Coming soon:

http://ideha.dhmh.maryland.gov