



HIV Epidemiological Data for Prevention Planning in Maryland

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March 3, 2011



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

Maryland Infectious Disease and Environmental Health Administration March 3, 2011

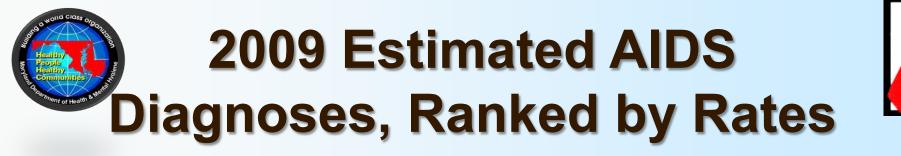
3



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.



STATE/TERRITORY	<u>Cases</u>	<u>Rate per 100,000</u>
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.

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METROPOLITAN AREA	<u>Cases</u> R	<u>ate per 100,000</u>
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

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



2008 Estimated Adults Living with AIDS, Ranked by Rates



STATE/TERRITORY	<u>Cases</u>	<u>Rate per 100,000</u>
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.



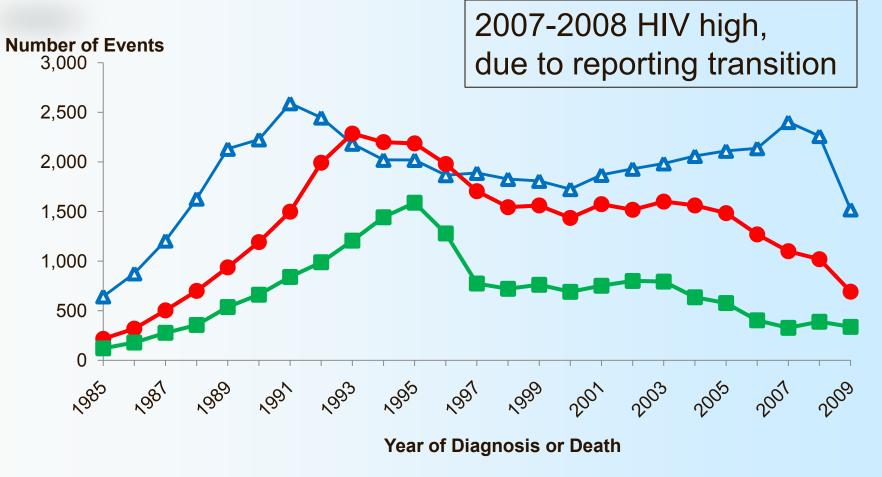


Epidemiological Description



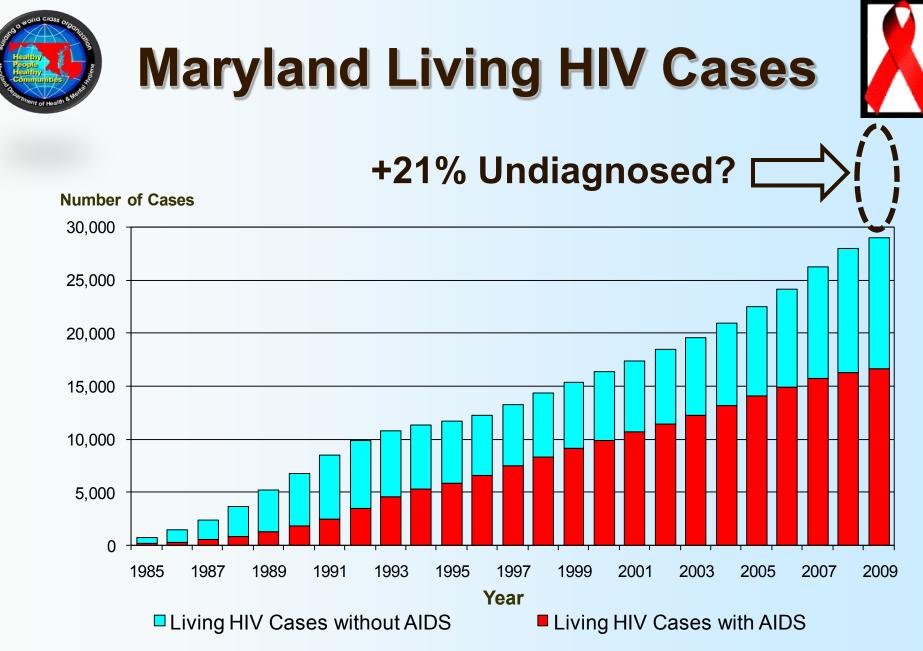
Maryland HIV/AIDS Trends





Reported HIV Diagnoses - Reported AIDS Diagnoses - Reported AIDS Deaths

Using data as reported through 12/31/2010



Using data as reported through 12/31/2010



Maryland HIV/AIDS Statistics



Reported Diagnoses (during 2009) No. per 100,000 1 i	n 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 19	96
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

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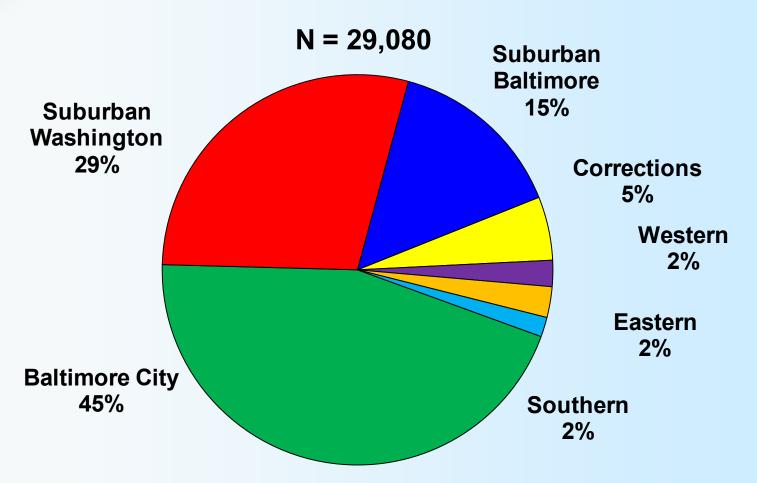
Maryland Living HIV Cases

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



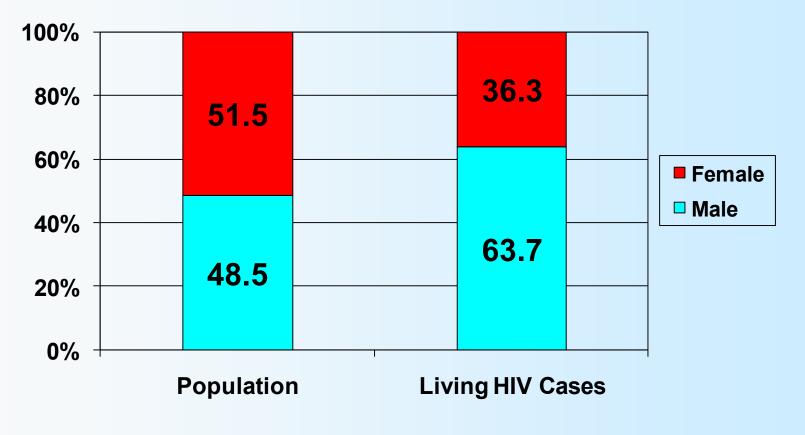
Maryland Living HIV Cases by Region, 12/31/09





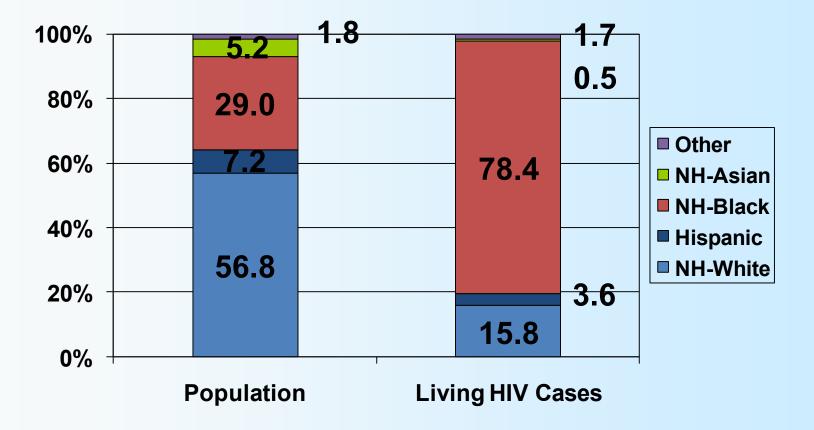
Using data as reported through 12/31/2010





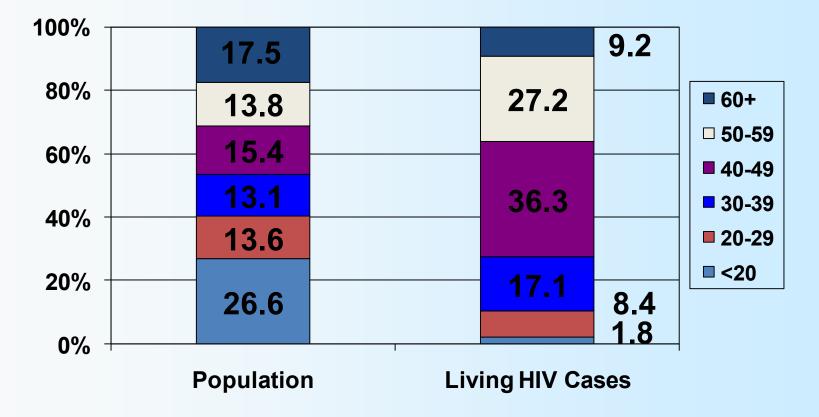
Population on 7/1/09, Cases on 12/31/09 as reported through 12/31/10





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





Population on 7/1/09, Cases on 12/31/09 as reported through 12/31/10 Maryland Infectious Disease and Environmental Health Administration March 3, 2011

16



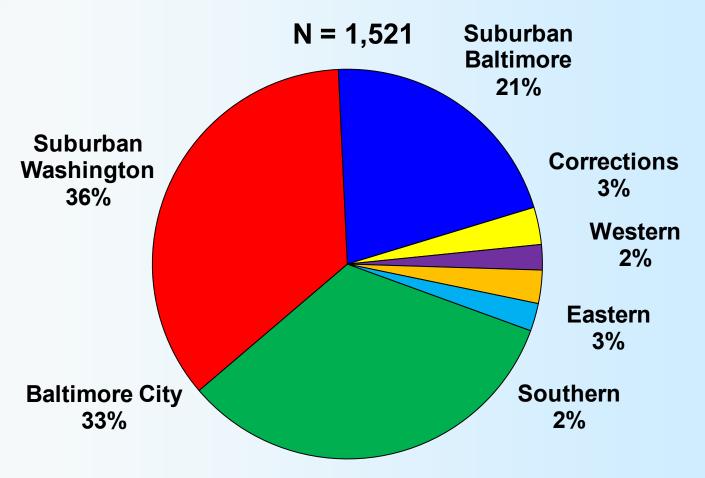


Maryland Reported HIV Diagnoses

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

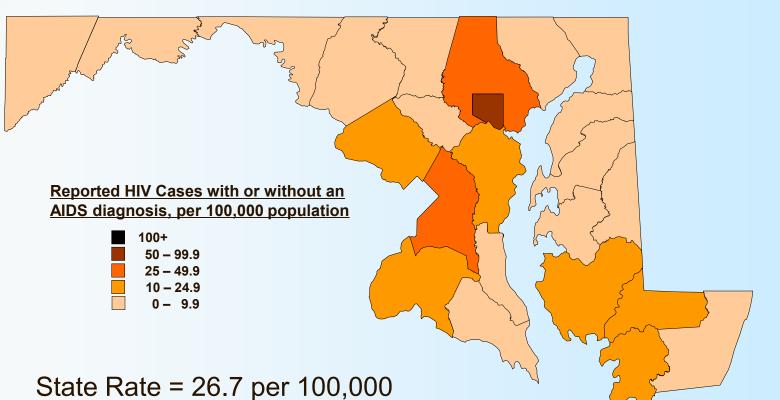


Using data as reported through 12/31/2010



Maryland Reported HIV Diagnosis Rates by Jurisdiction, 2009







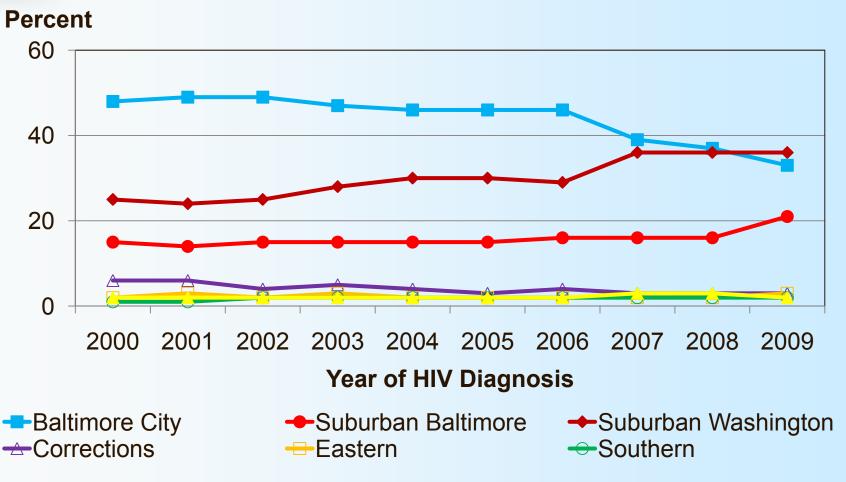


Epidemiological Trends



Reported HIV Diagnosis Trends by Region

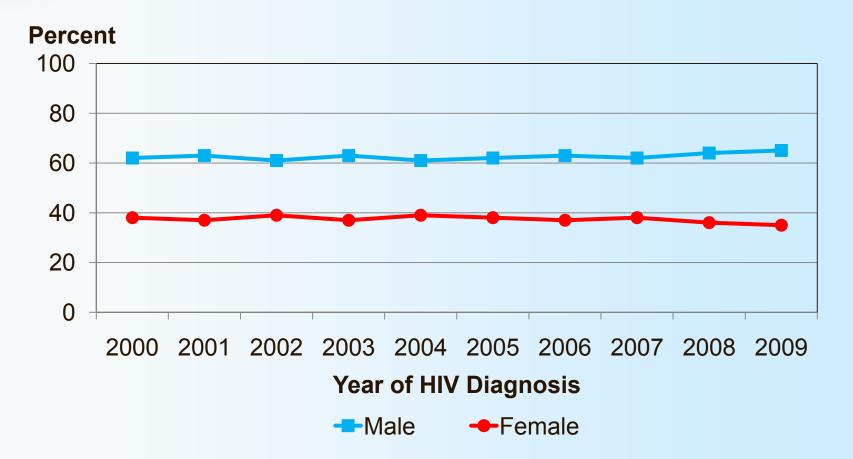




Using data as reported through 12/31/2010



Reported HIV Diagnosis Trends by Sex at Birth

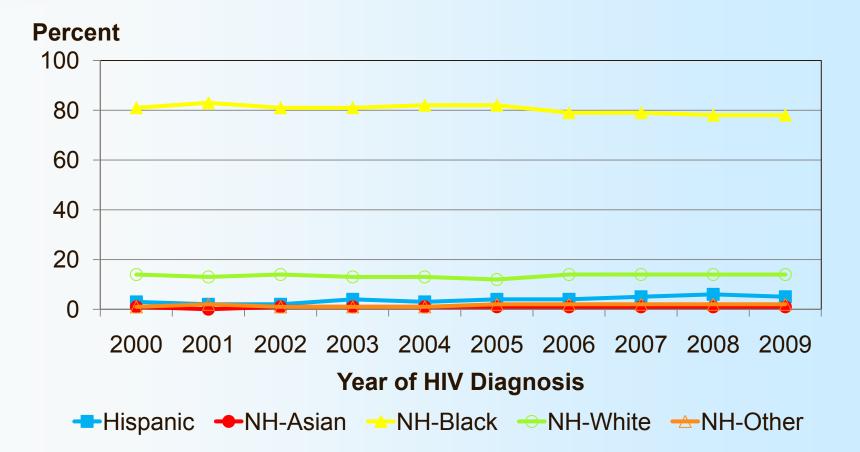


Using data as reported through 12/31/2010



Reported HIV Diagnosis Trends by Race/Ethnicity



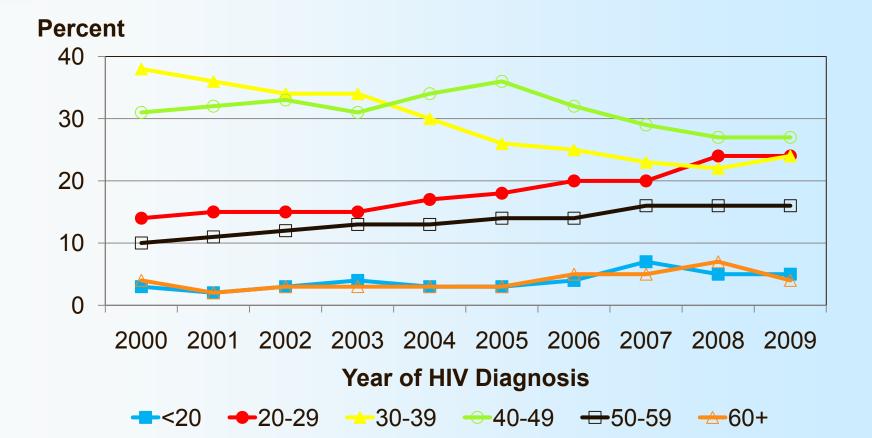


Using data as reported through 12/31/2010



Reported HIV Diagnosis Trends by Age at Diagnosis

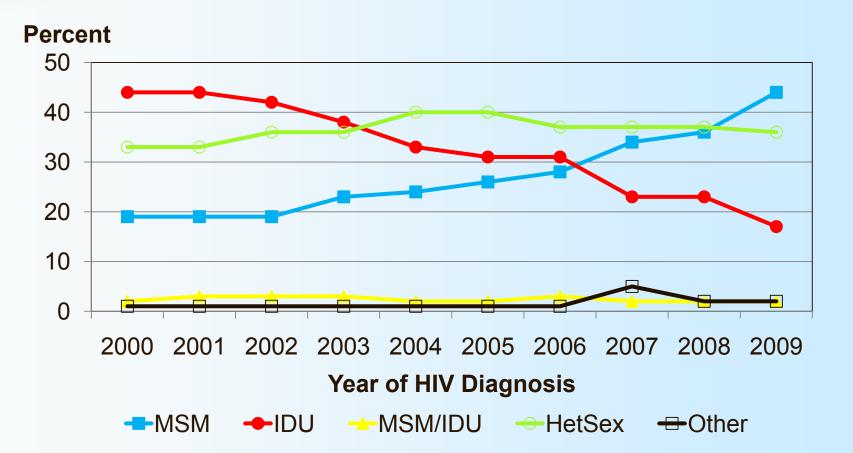




Using data as reported through 12/31/2010



Reported HIV Diagnosis Trends by Exposure Category



Using data as reported through 12/31/2010





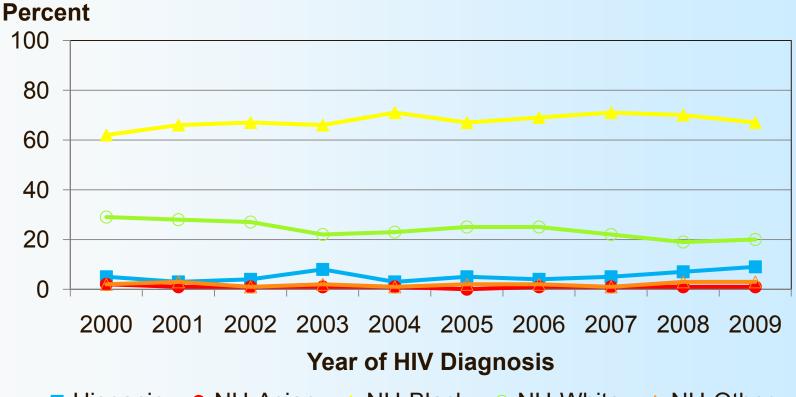
Maryland Reported HIV Diagnosis Trends

MSM Exposure



Reported HIV Diagnosis Trends by Race/Ethnicity MSM Exposure





-Hispanic -NH-Asian -NH-Black -NH-White -NH-Other

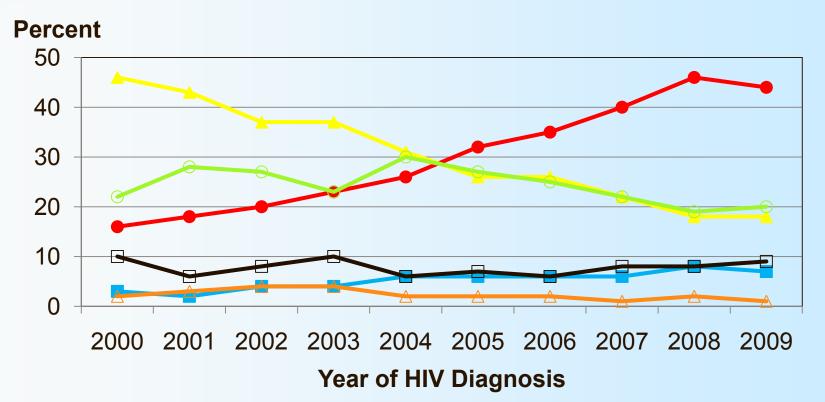
Using data as reported through 12/31/2010

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Reported HIV Diagnosis Trends by Age at Diagnosis MSM Exposure





--<20 **-**20-29 <u>-</u>30-39 -40-49 -50-59 <u>-</u>60+

Using data as reported through 12/31/2010



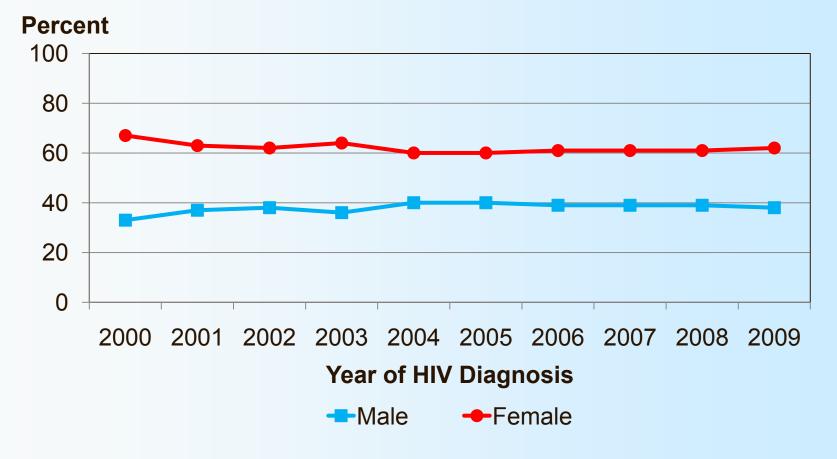


Maryland Reported HIV Diagnosis Trends

Heterosexual Exposure



Reported HIV Diagnosis Trends by Sex at Birth Heterosexual Exposure

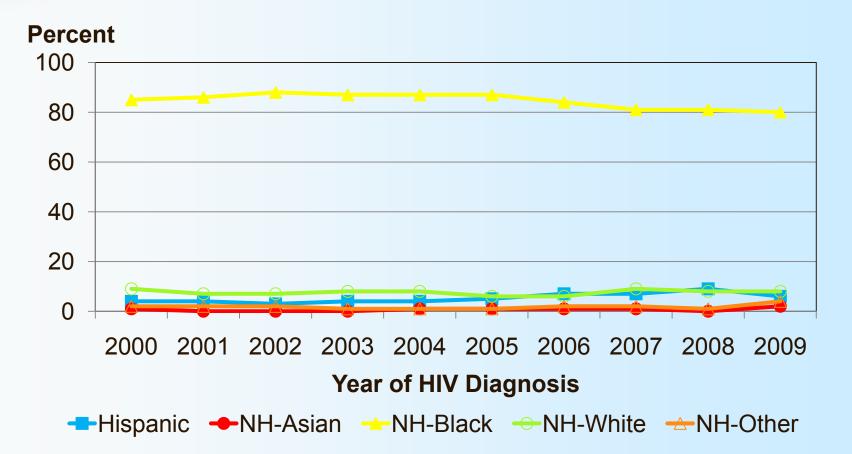


Using data as reported through 12/31/2010



Reported HIV Diagnosis Trends by Race/Ethnicity Heterosexual Exposure





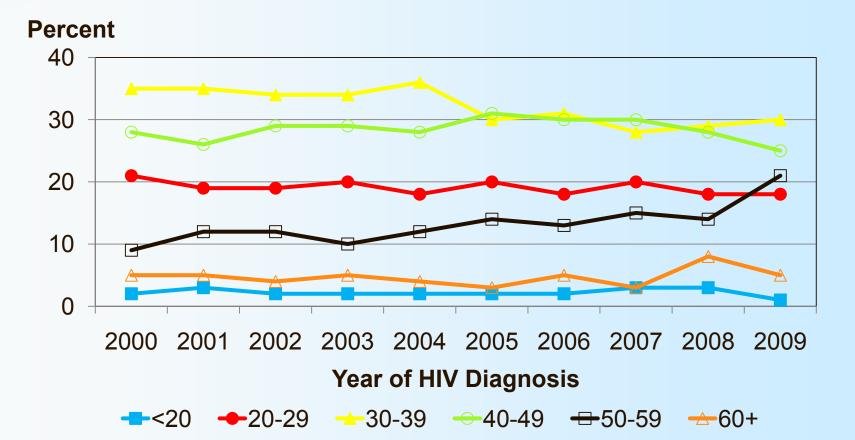
Using data as reported through 12/31/2010

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Reported HIV Diagnosis Trends by Age at Diagnosis Heterosexual Exposure





Using data as reported through 12/31/2010





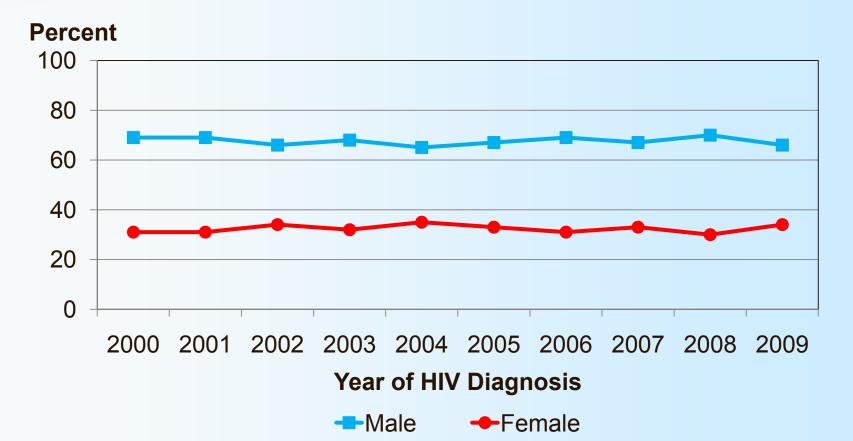
Maryland Reported HIV Diagnosis Trends

IDU Exposure



Reported HIV Diagnosis Trends by Sex at Birth IDU Exposure





Using data as reported through 12/31/2010

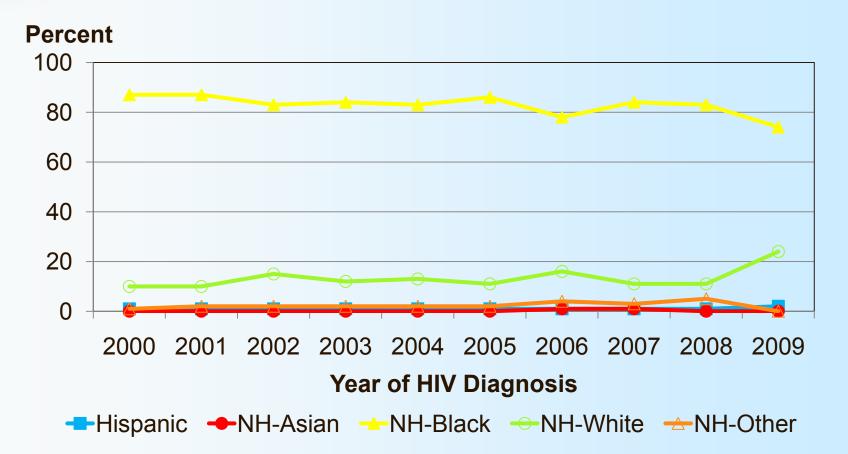
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34



Reported HIV Diagnosis Trends by Race/Ethnicity IDU Exposure





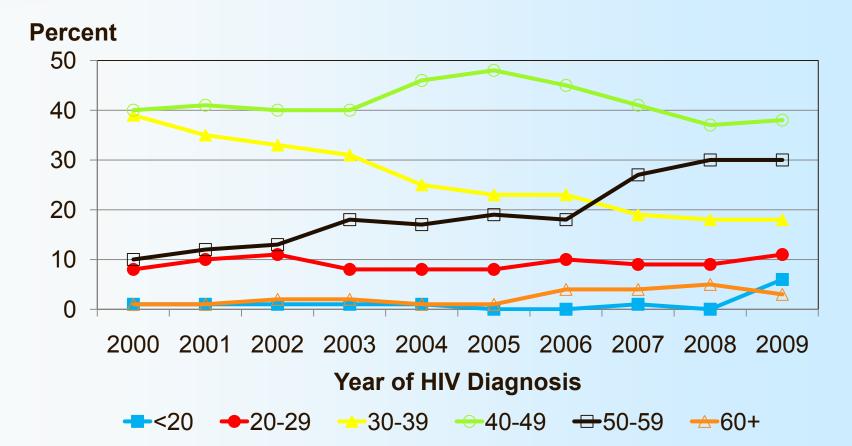
Using data as reported through 12/31/2010

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Reported HIV Diagnosis Trends by Age at Diagnosis IDU Exposure





Using data as reported through 12/31/2010

³⁶





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



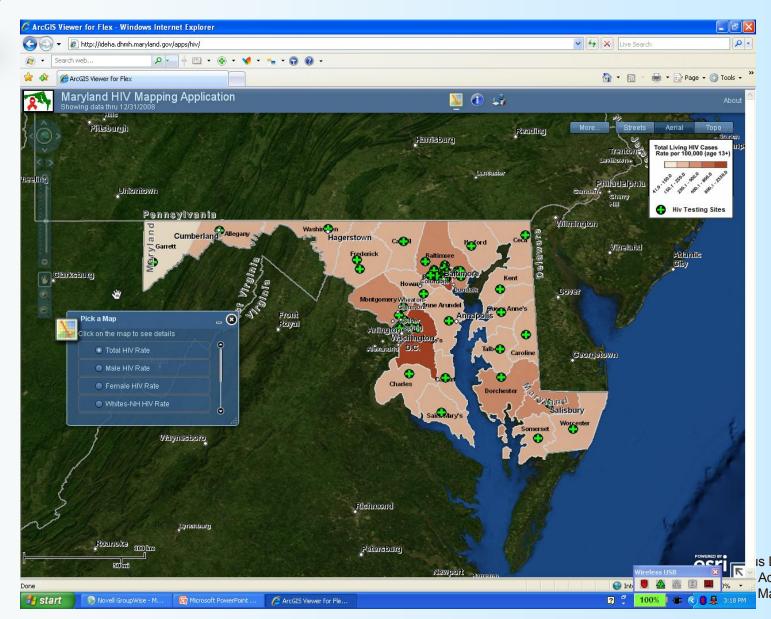
New Epidemiological Products Coming to the New IDEHA Website



- 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





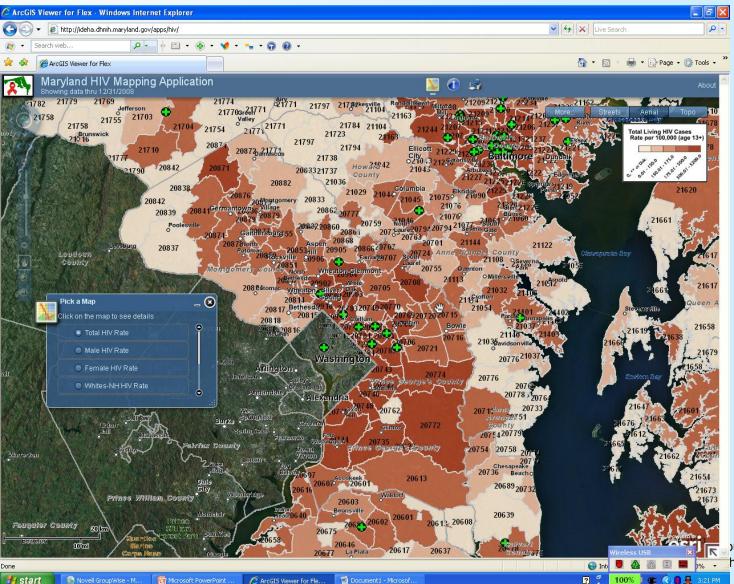


IS Disease and Administration March 3, 2011 43



HIV Rates by ZIP Code





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- 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

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Coming soon:

http://ideha.dhmh.maryland.gov