



HIV/AIDS Epidemiology Partnership 5

Pasco and Pinellas Counties

Excluding Dept. of Corrections

HIV and AIDS Case Data

- Ⓡ AIDS Cases became reportable in Florida in 1981.**
- Ⓡ HIV (not AIDS) became reportable in Florida on July 1, 1997.**
- Ⓡ HIV Infection reporting represents newly Adult HIV Infection Infection Cases, regardless of AIDS status at time of report, that were previously reported.**
- Ⓡ AIDS cases and HIV infection cases by year of report are NOT mutually exclusive and CANNOT be added together.**
- Ⓡ Frozen databases of year-end data are generated at the end of each calendar year. These are the same data used for FloridaCHARTS and all grant-related data where annual data are included.**
- Ⓡ HIV prevalence data are generated later in the year, usually in May, when most of the “expected” death data are complete.**

HIV and AIDS Case Data (con't)

- Ⓜ **Adult cases represent ages 13 and older, pediatric cases are those under the age of 13. For data by year, the age is by age of diagnosis. For living data, the age is by current age at the end of the most recent calendar year, regardless of age at diagnosis.**
- Ⓜ **Unless otherwise noted, whites are non-Hispanic and blacks are non-Hispanic.**
- Ⓜ **Unless otherwise noted. Area and county data will exclude DOC cases.**

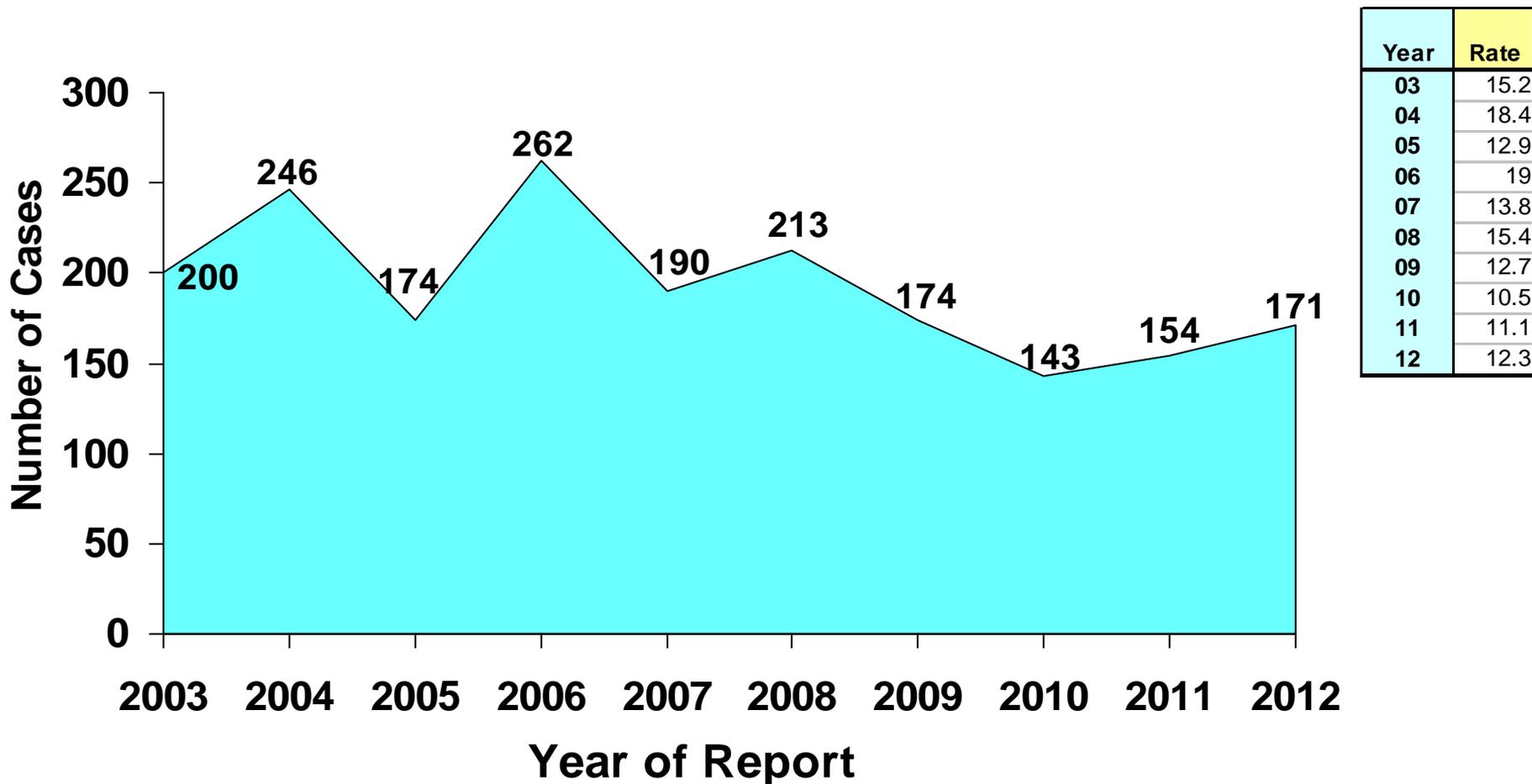
Cumulative HIV (not AIDS) and AIDS Cases, Reported through 2012, Partnership 5

Persons Living with HIV/AIDS through 2011 as of 05/16/2012 4,192	Cumulative AIDS Cases (1981-2012)		
	Adults (Age 13+) 5,786	Pediatrics (Age <13) 35	Total 5,821
	Cumulative HIV Cases (not AIDS) 07/1997-12/2012		
	Adults (Age 13+) 2,016	Pediatrics (Age <13) 16	Total 2,032
Total HIV/AIDS Cases	Adult (Age 13+) 7,802	Pediatrics (Age <13) 51	Total 7,853

ADULTS	Males	Females	Total	M:F Ratio
Cumulative AIDS Cases	4,722	1,064	5,786	4.4 : 1
Cumulative HIV Cases	1,510	506	2,016	3.0 : 1

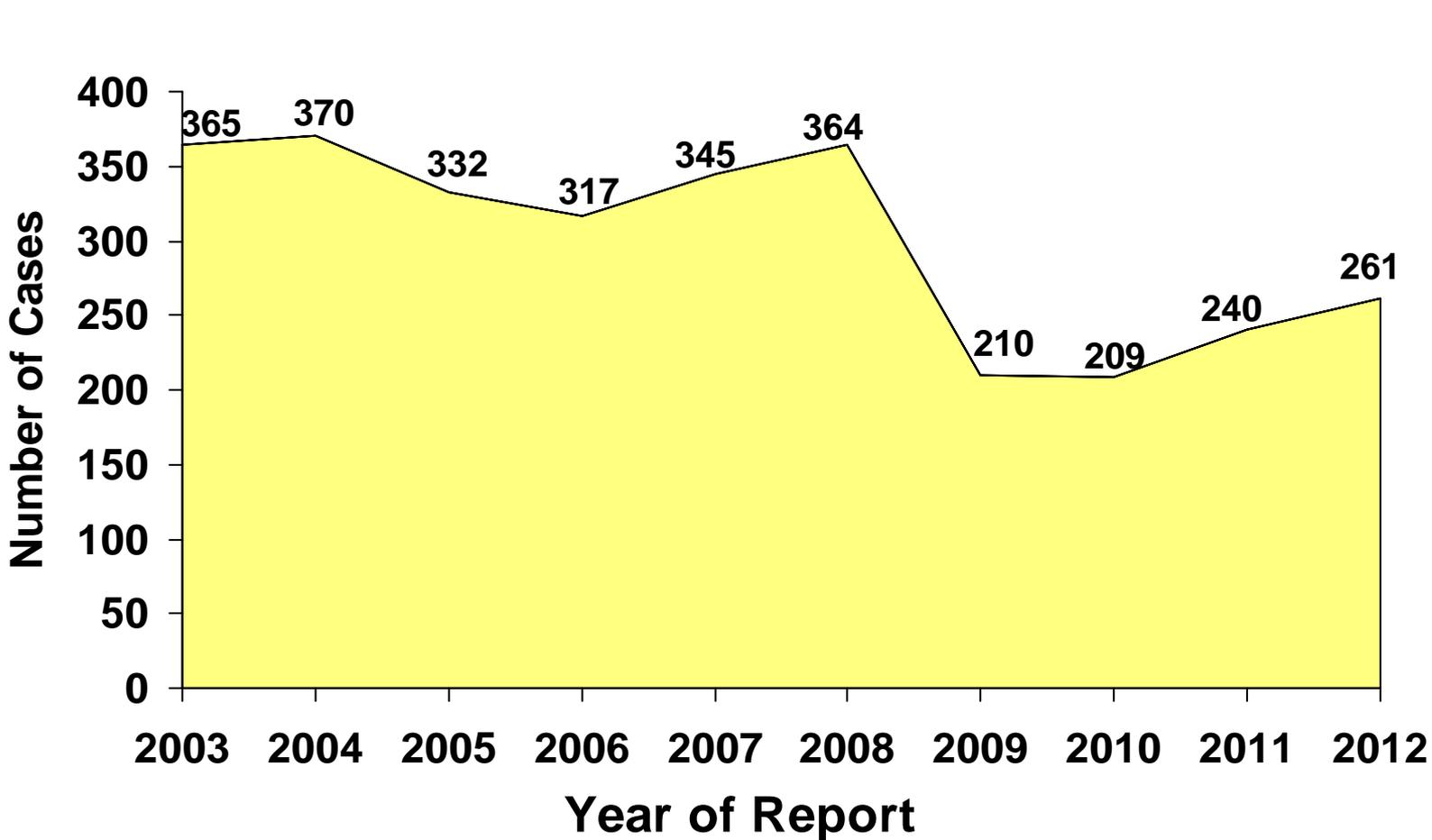
AIDS Cases & Rates*

By Year of Report, 2003-2012, Partnership 5



Electronic laboratory reporting delays in late 2007 along with the expansion of electronic lab reporting, contributed to the artificial spike in 2008, followed by an annual approach to leveling.
*Source: Population estimates are provided by FloridaCHARTS

HIV Infection Cases and Rates*, by Year of Report, 2003-2012, Partnership 5



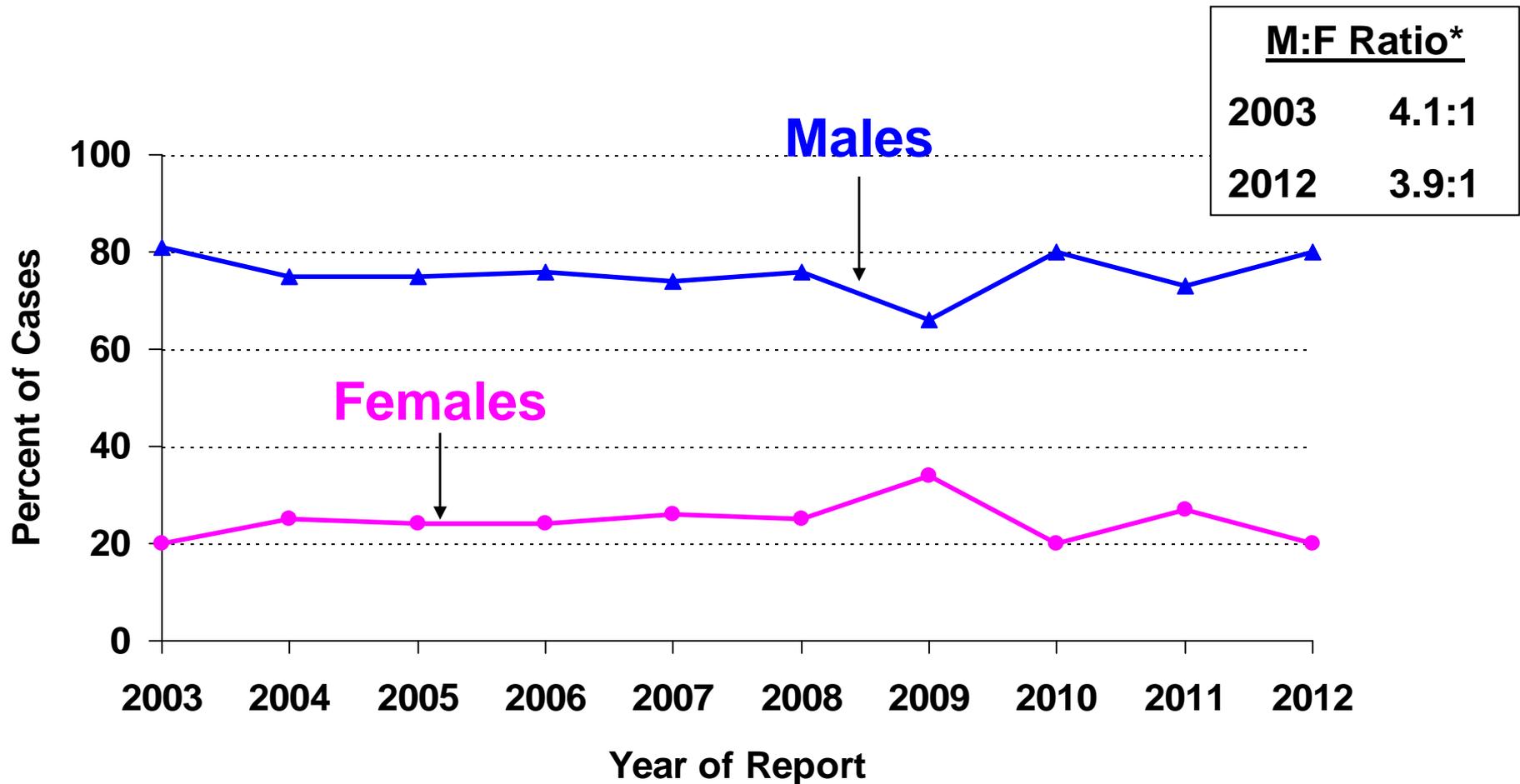
Year	Rate
03	27.7
04	27.7
05	24.6
06	23.0
07	25.0
08	26.3
09	15.3
10	15.3
11	17.3
12	18.7

Note: Enhanced reporting laws in 2006 and the expansion of electronic lab reporting in 2007 led to an artificial peak in newly reported HIV infection cases in 2008. This was followed by an artificial decrease in 2009. Since then an upward trend in newly reported HIV infection cases was observed.

*Source: Population estimates are provided by FloridaCHARTS

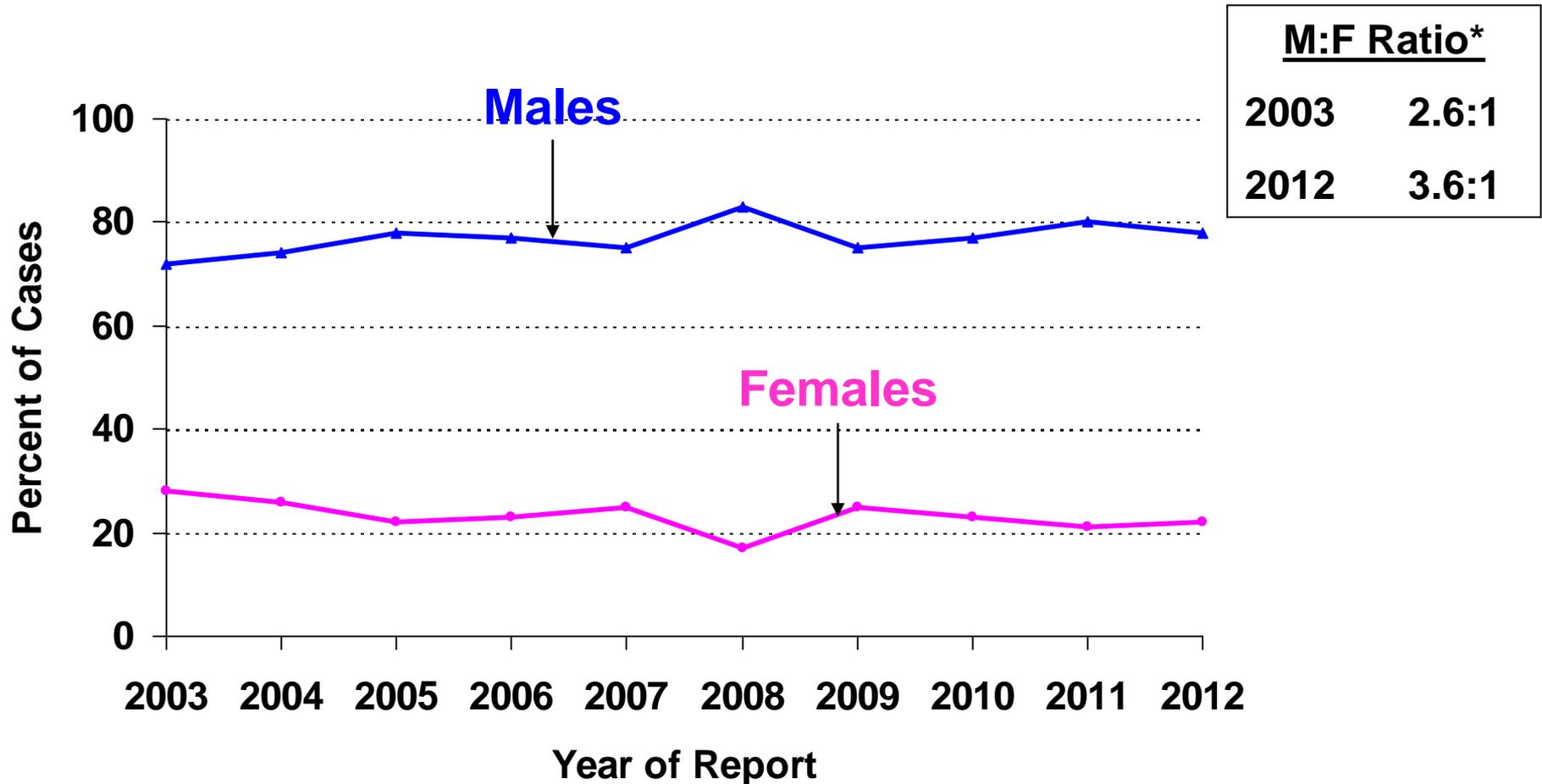


Adult AIDS Cases, by Sex and Year of Report, 2003-2012, Partnership 5



Note: AIDS cases tend to represent HIV transmission that occurred many years ago. The relative increases in males cases reflect the changing face of the AIDS epidemic over time. *The male-to-female ratio is the number of cases among males divided by the number of cases among females.

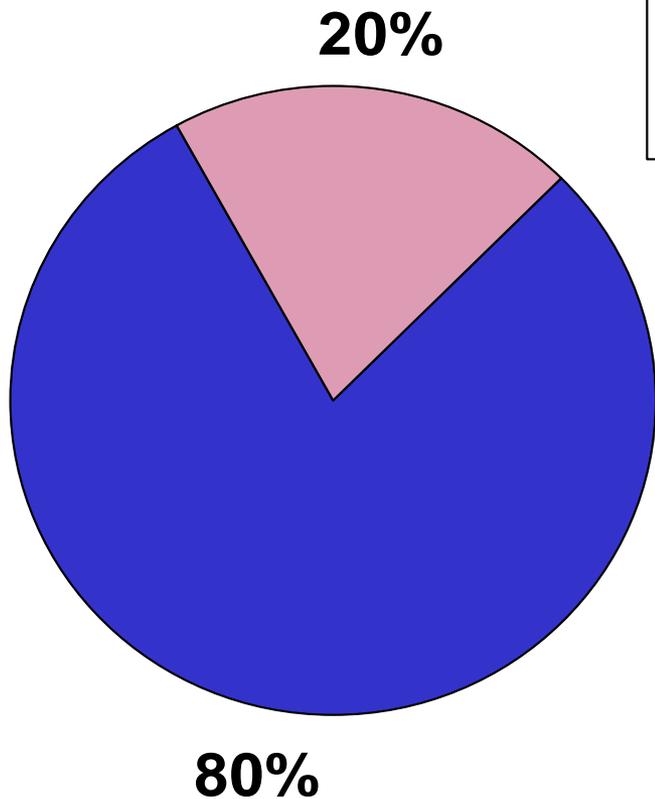
Adult HIV Infection Cases, by Sex and Year of Report, 2003-2012, Partnership 5



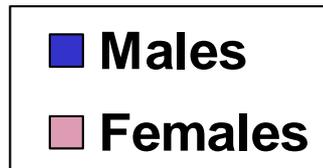
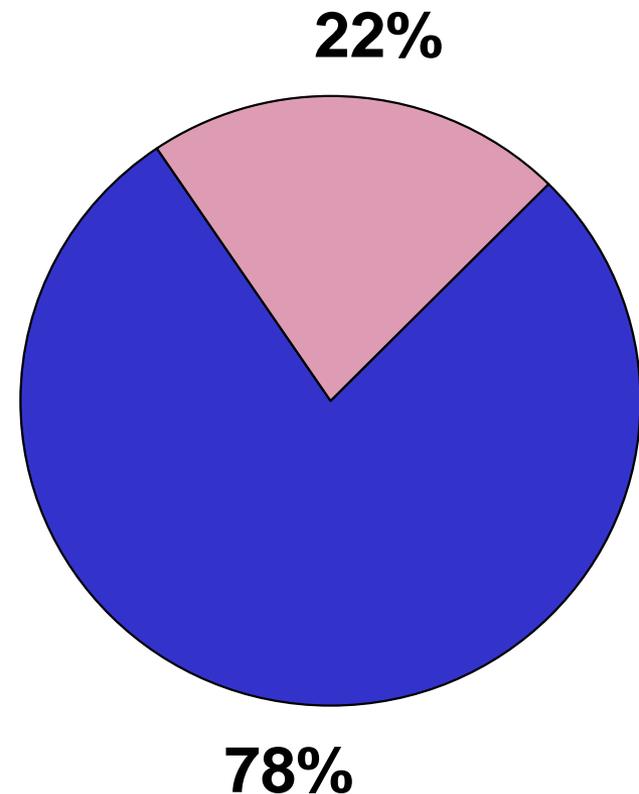
Note: Recent trends in HIV transmission are best described by the HIV case data. The relative increases in male HIV Infection Cases might be attributed to proportional increases in HIV transmission among men who have sex with men (MSM), which may influence future AIDS trends. *The male-to-female ratio is the number of cases among males divided by the number of cases among females.

Adult AIDS and HIV Infection Cases by Sex, Reported in 2012, Partnership 5

AIDS
N=171

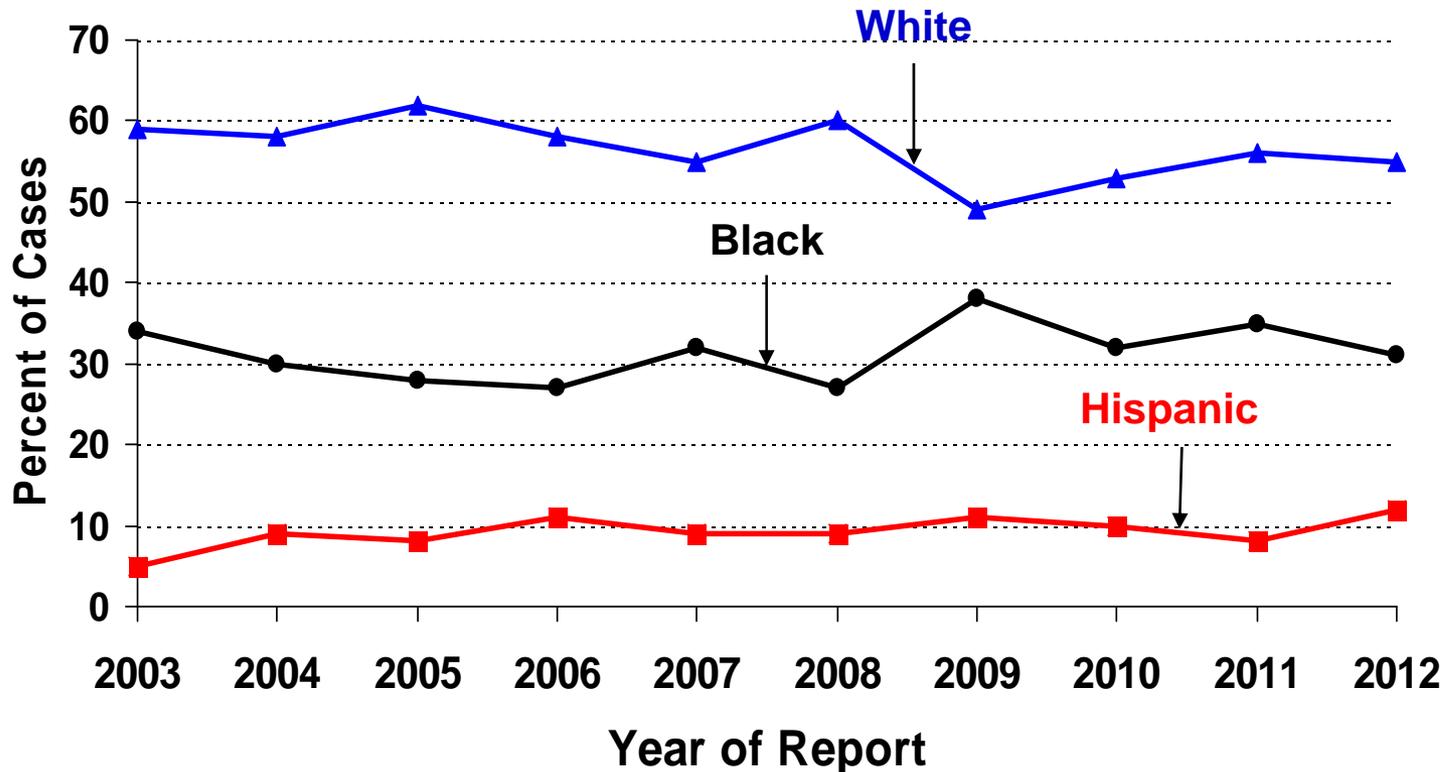


HIV Infection
N=261



Note: Partnership 5's Adult Population is: 48% Male and 52% Female.

Adult AIDS Cases by Race/Ethnicity and Year of Report, 2003-2012, Partnership 5

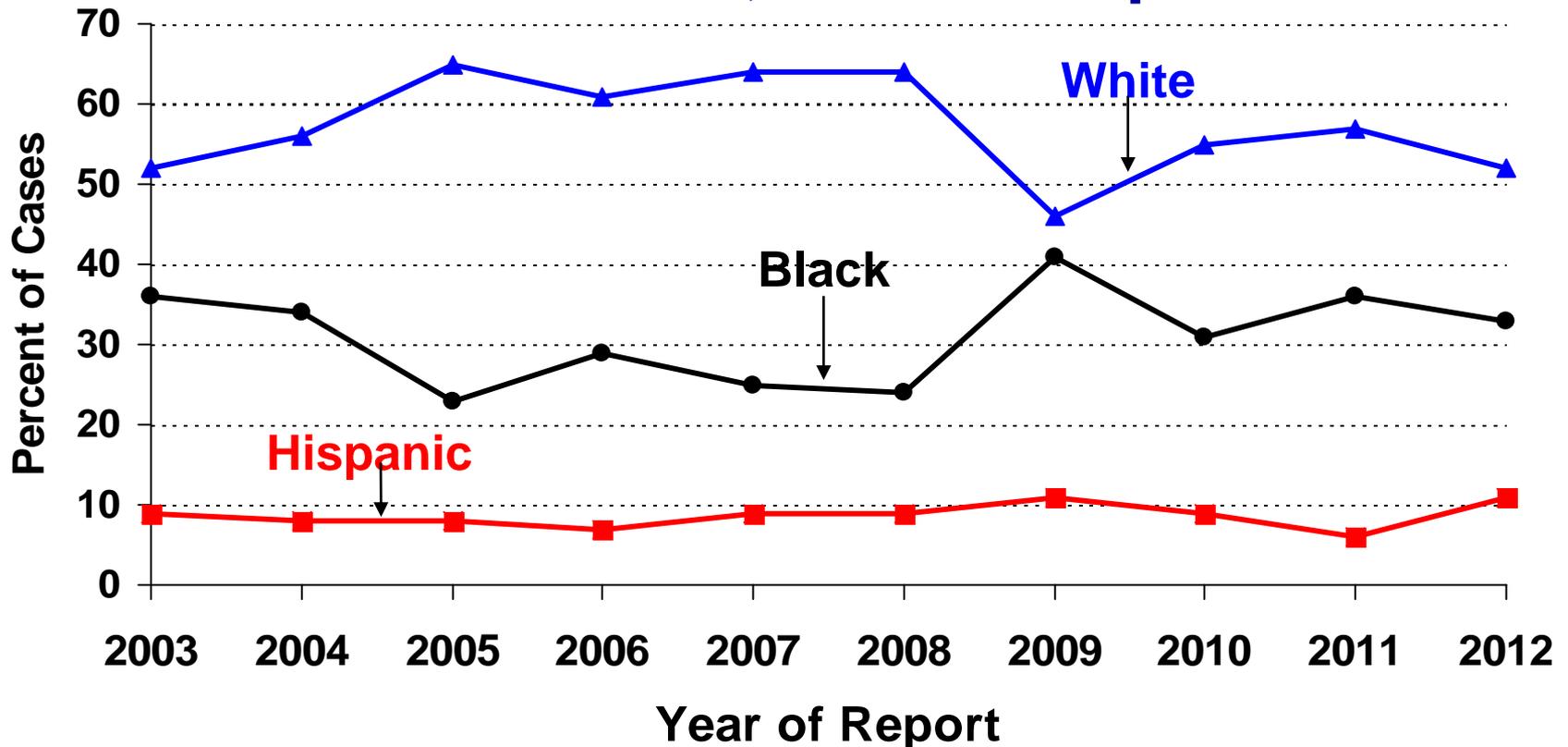


Factors Affecting Disparities

- Late diagnosis of HIV.
- Access to/acceptance of care.
- Delayed prevention messages.
- Stigma.
- Non-HIV STD's in the community.
- Prevalence of injection drug use.
- Complex matrix of factors related to socioeconomic status

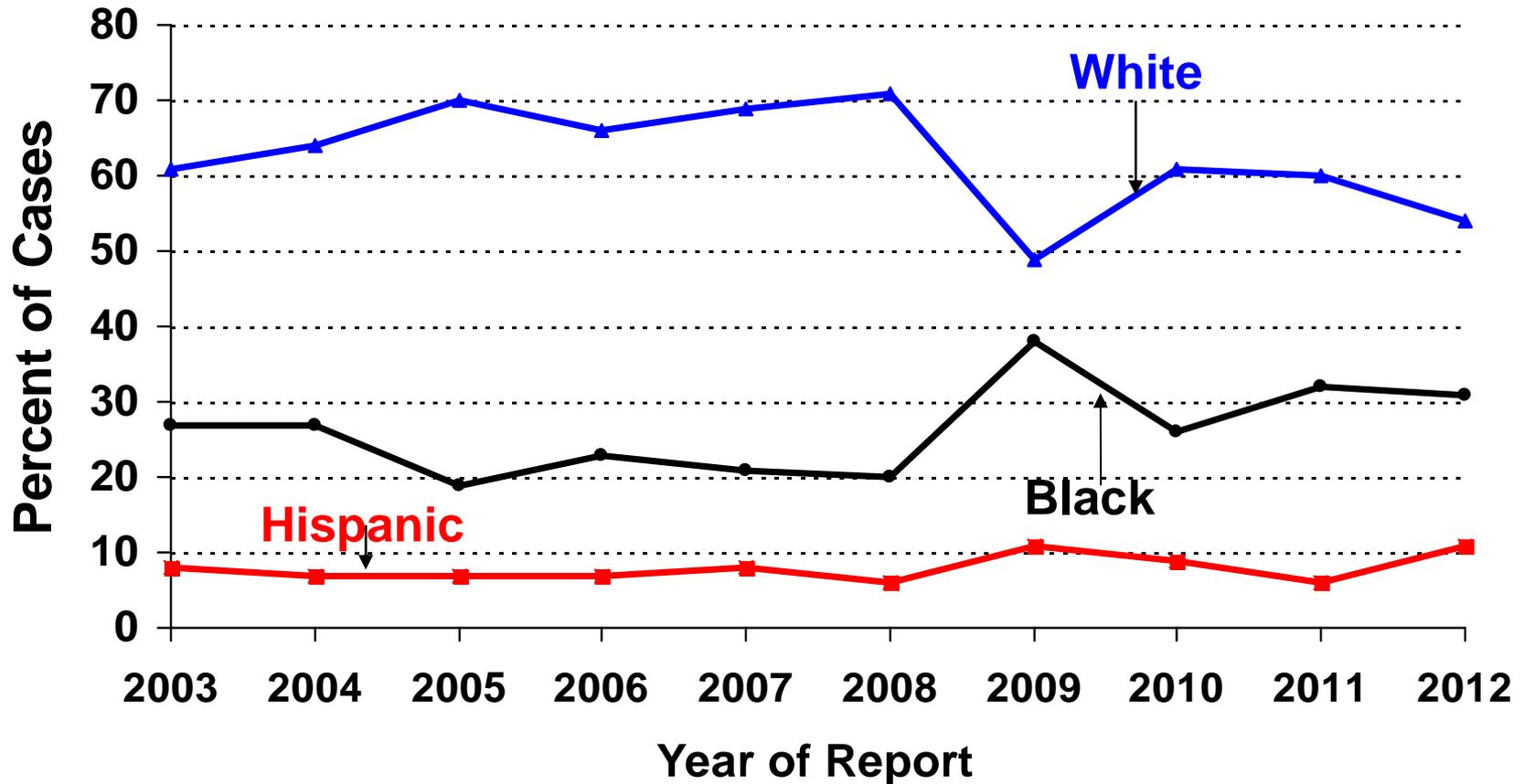
Note: In 2012, blacks accounted for 31% of Adult AIDS cases, but only 7% of the population. From 2003 to 2012, the percent of AIDS cases among blacks and whites decreased by 9% and 7%, respectively. In contrast, among Hispanics the percent of AIDS cases increased 120% during the same time period. Numerous disparities can affect the increases of HIV disease in a given population. Other races represent less than 2% of the cases and are not included.

Adult HIV Infection Cases by Race/Ethnicity and Year of Report, 2003-2012, Partnership 5



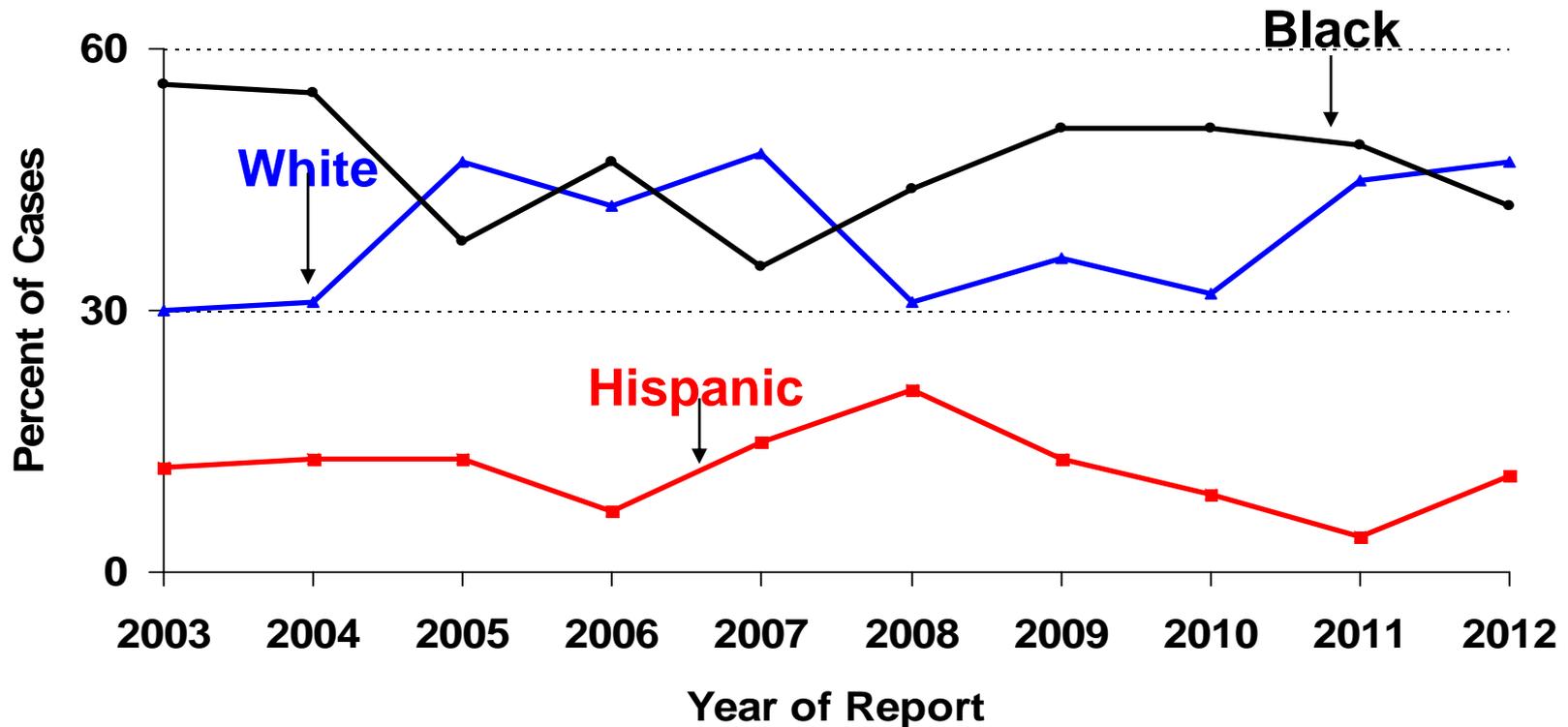
Note: HIV case reporting, implemented in mid-1997, reflects more recent trends in the epidemic with respect to the distribution of cases by race/ethnicity. From 2003 to 2012, whites represented the majority (45% or more) of the HIV infection Cases reported for most years. Over the past ten years, the percent of HIV Infection Cases among Hispanics increased by 22% and decreased by 8% among blacks. The percent among white HIV Infection Cases remained the same, from 2003 to 2012. Other races represent less than 3% of the cases and are not included.

Adult Male HIV Infection Cases by Race/Ethnicity and Year of Report, 2003-2012, Partnership 5



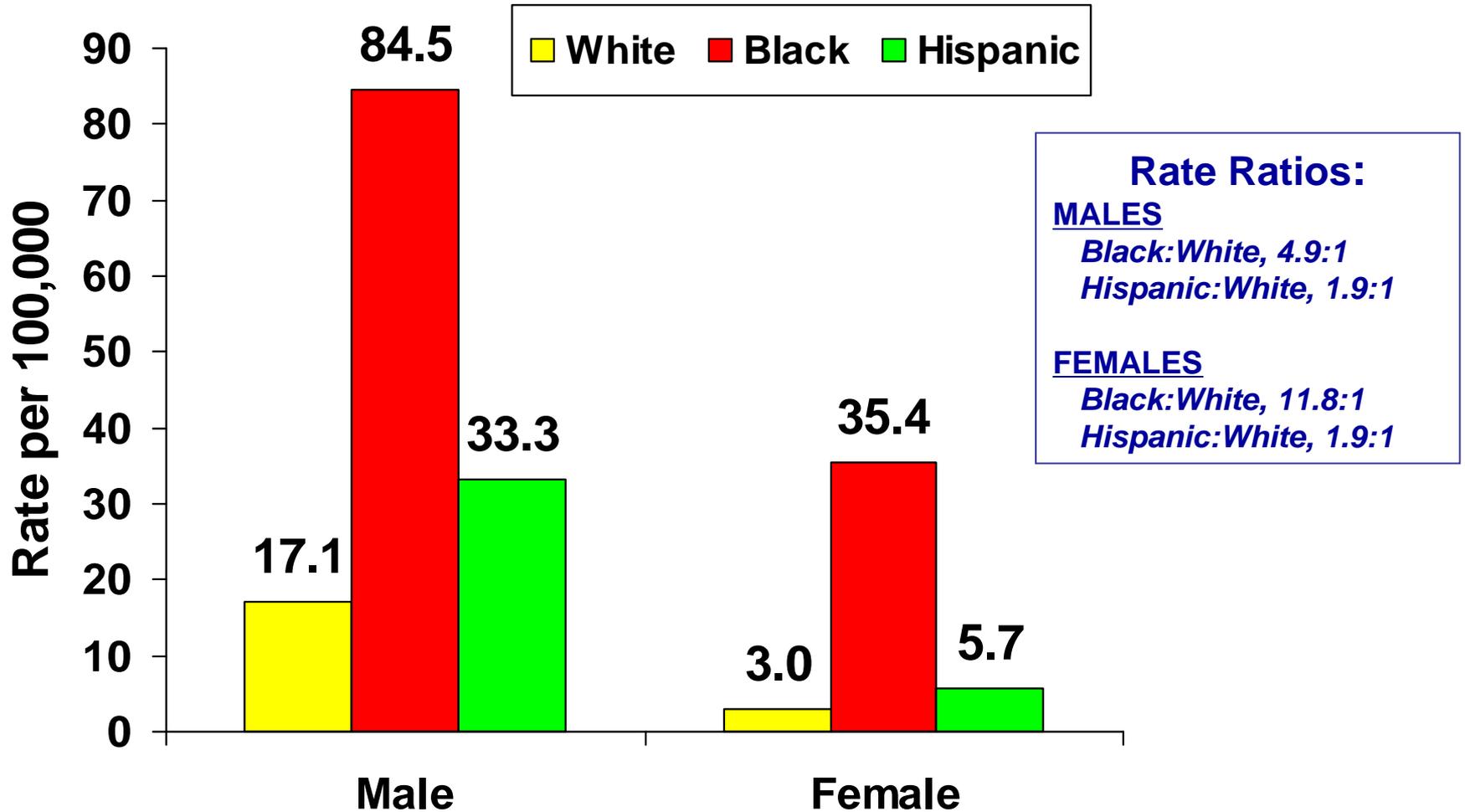
Note: From 2003 to 2012, the percent of male HIV Infection Cases increased by 38% among Hispanic males and by 15% among black males. In contrast, the percent of male HIV Infection Cases decreased among white males by 11%. Whites represented the majority (>49%) of male HIV Infection Cases for most of the years.

Adult Female HIV Infection Cases by Race/Ethnicity and Year of Report, 2003-2012, Partnership 5



Note: From 2003 to 2012, the percentage of female HIV Infection Cases increased by 57% among white females . In contrast, the percentage of female HIV Infection Cases decreased among black and Hispanic females by 8% and 25% respectively, over the past ten years.

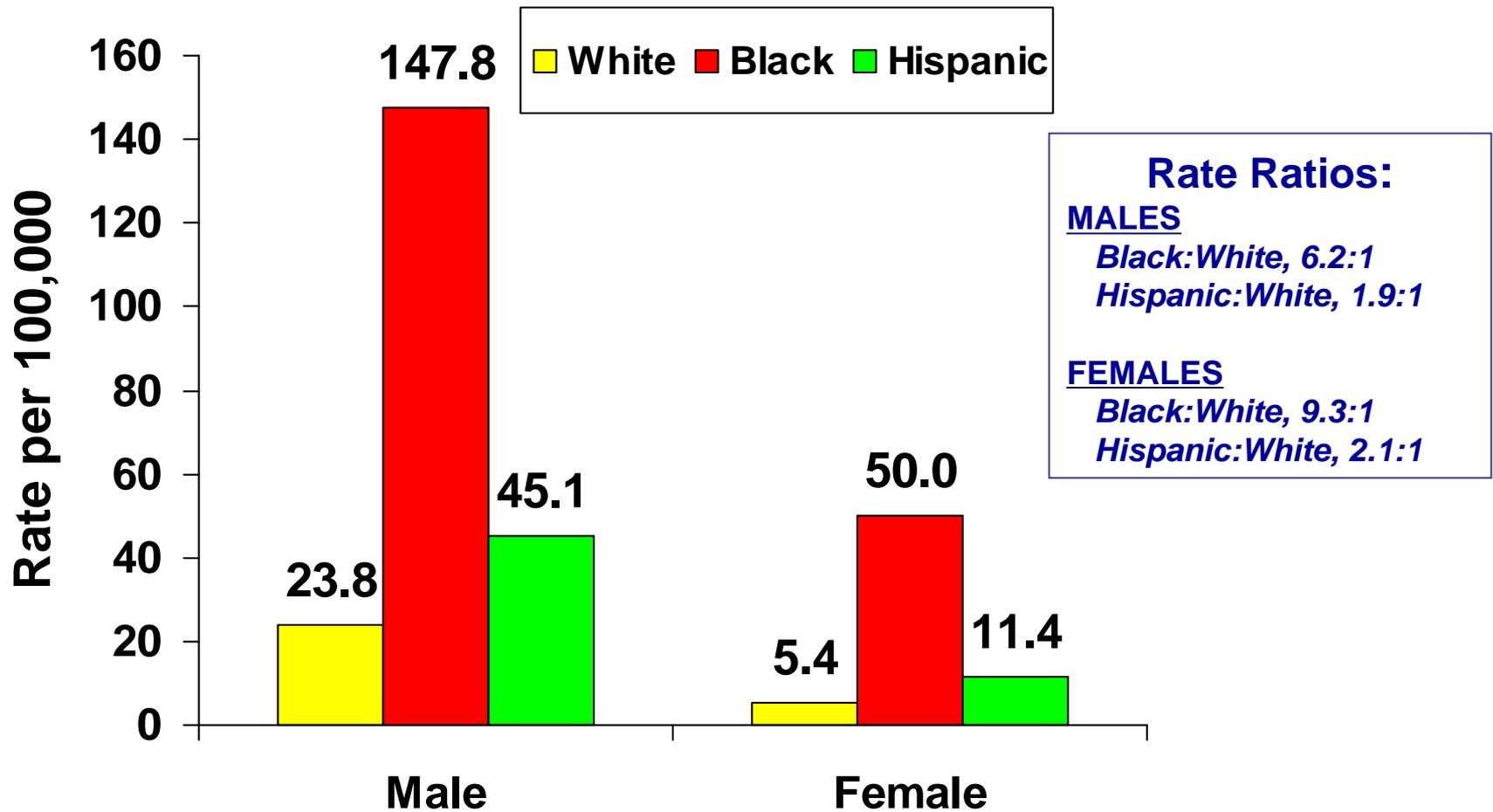
Adult AIDS Case Rates* by Sex and Race/Ethnicity, Reported in 2012, Partnership 5



Note: Among black males, the AIDS case rate is nearly 5 times higher than the rate among white males. Among black females, the AIDS case rate is nearly 12 times higher than the rate among white females. Hispanic male and female rates are higher than the rates among their white counterparts.

*2012 Partnership 5 Population *Source: Population estimates are provided by FloridaCHARTS

Adult HIV Infection Case Rates* by Sex and Race/Ethnicity, Reported in 2012, Partnership 5

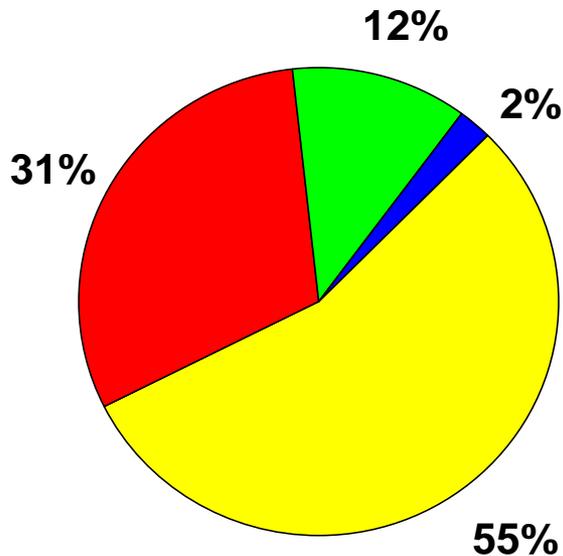


Note: Among black males, the HIV Infection case rate is 6 times higher than the rate among white males. Among black females, the HIV case rate is 9 times higher than the rate among white females. Among Hispanic male and females, the HIV case rates are higher than the rates among their white counterparts..

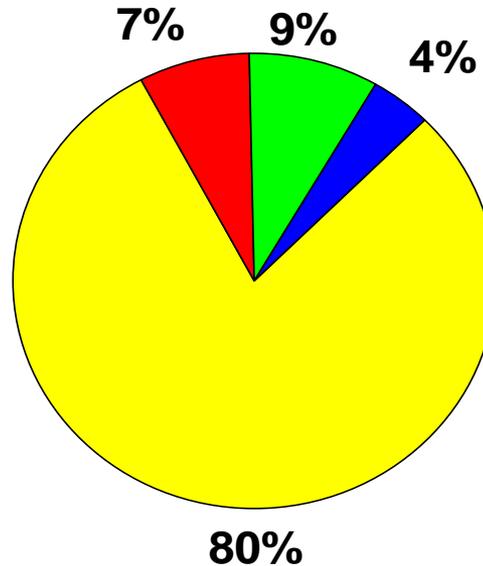
*Source: Population estimates are provided by FloridaCHARTS

Adult AIDS and HIV Cases Reported in 2012 and Population Data, by Race/Ethnicity, Partnership 5

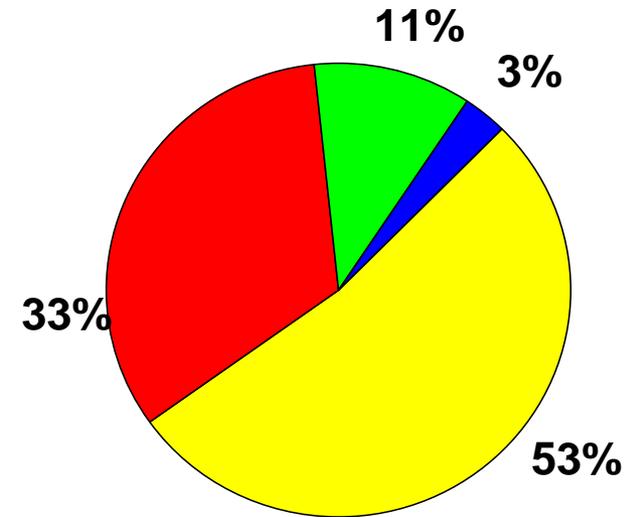
AIDS
N=171



**2012 Partnership 5
Population Estimates***
N=1,210,931



HIV Infection
N=261



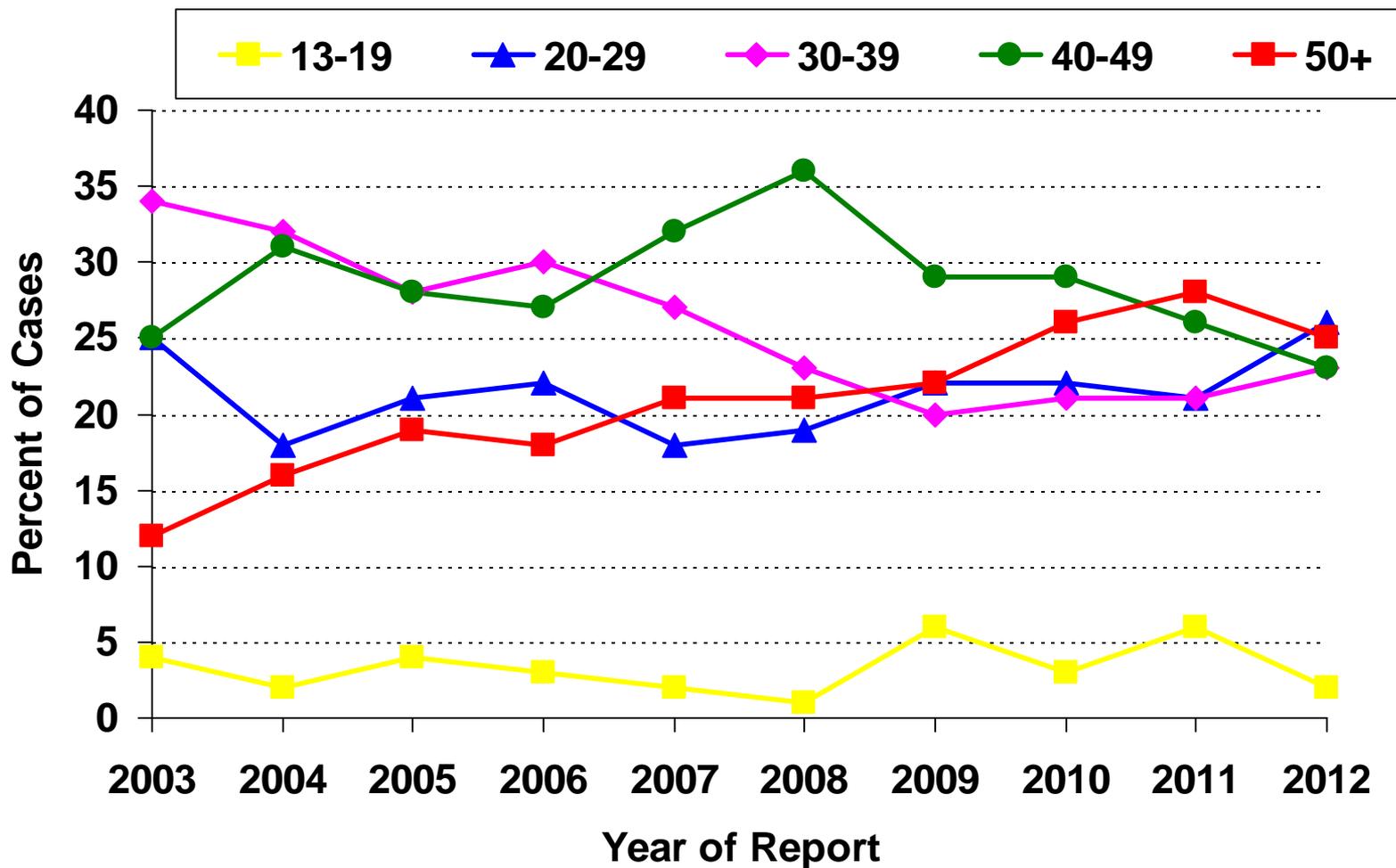
White
 Black
 Hispanic
 Other**

Note: In this snapshot for 2012, blacks are over-represented among the AIDS and HIV Infection Cases, accounting for 31% of adult AIDS cases and 33% of adult HIV Infection Cases, but only 7% of the adult population. A group is disproportionately impacted to the extent that the percentage of cases exceeds the percentage of population.

*Source: Population estimates are provided by FloridaCHARTS

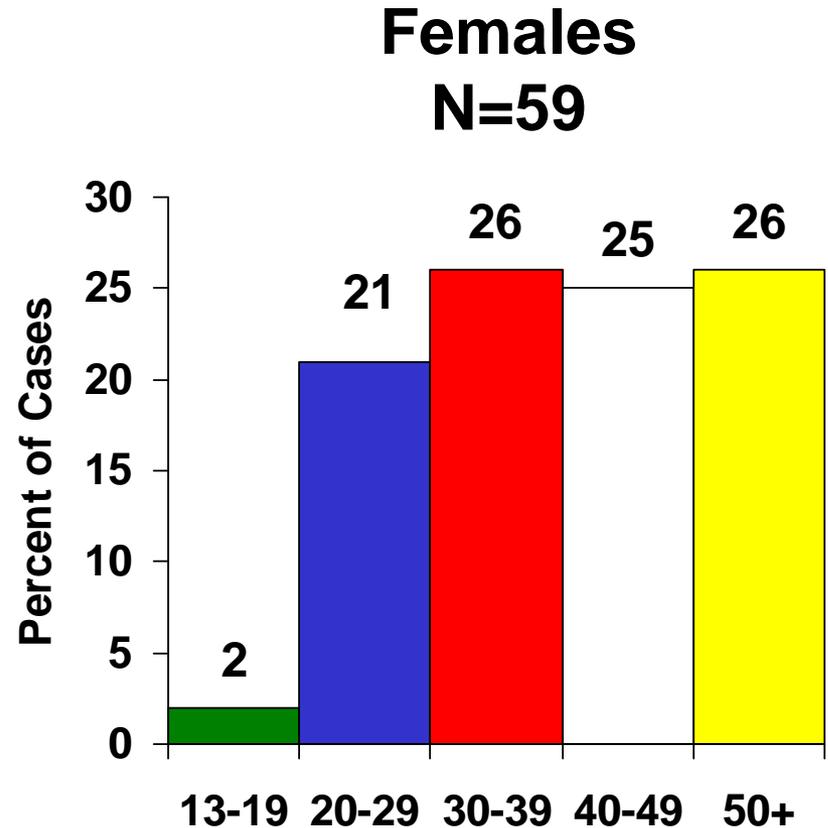
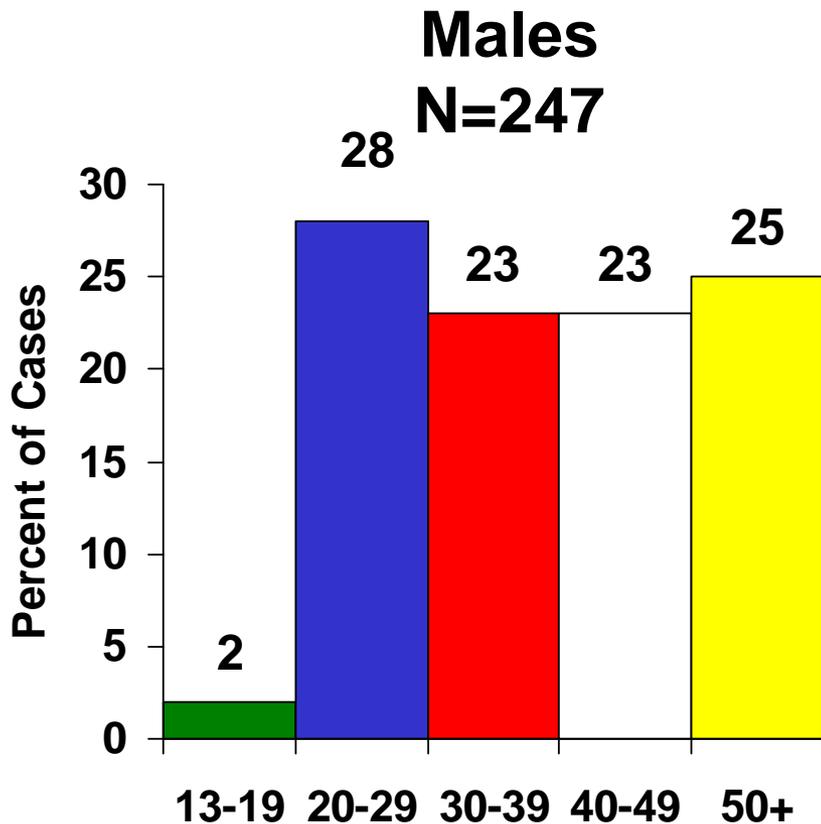
**Other includes Asian/Pacific Islanders, Native Alaskans/American Indians and mixed races.

Adult HIV Infection Cases, by Age Group at Diagnosis, and Year of Report, 2003–2012, Partnership 5



Note: From 2003 to 2012, the proportion of adult HIV Infection Cases among those aged 50+ and 20-29, increased by 108% and 4%, respectively.

Adult HIV Infection Cases, by Sex and Age Group at Diagnosis, Reported in 2012, Partnership 5

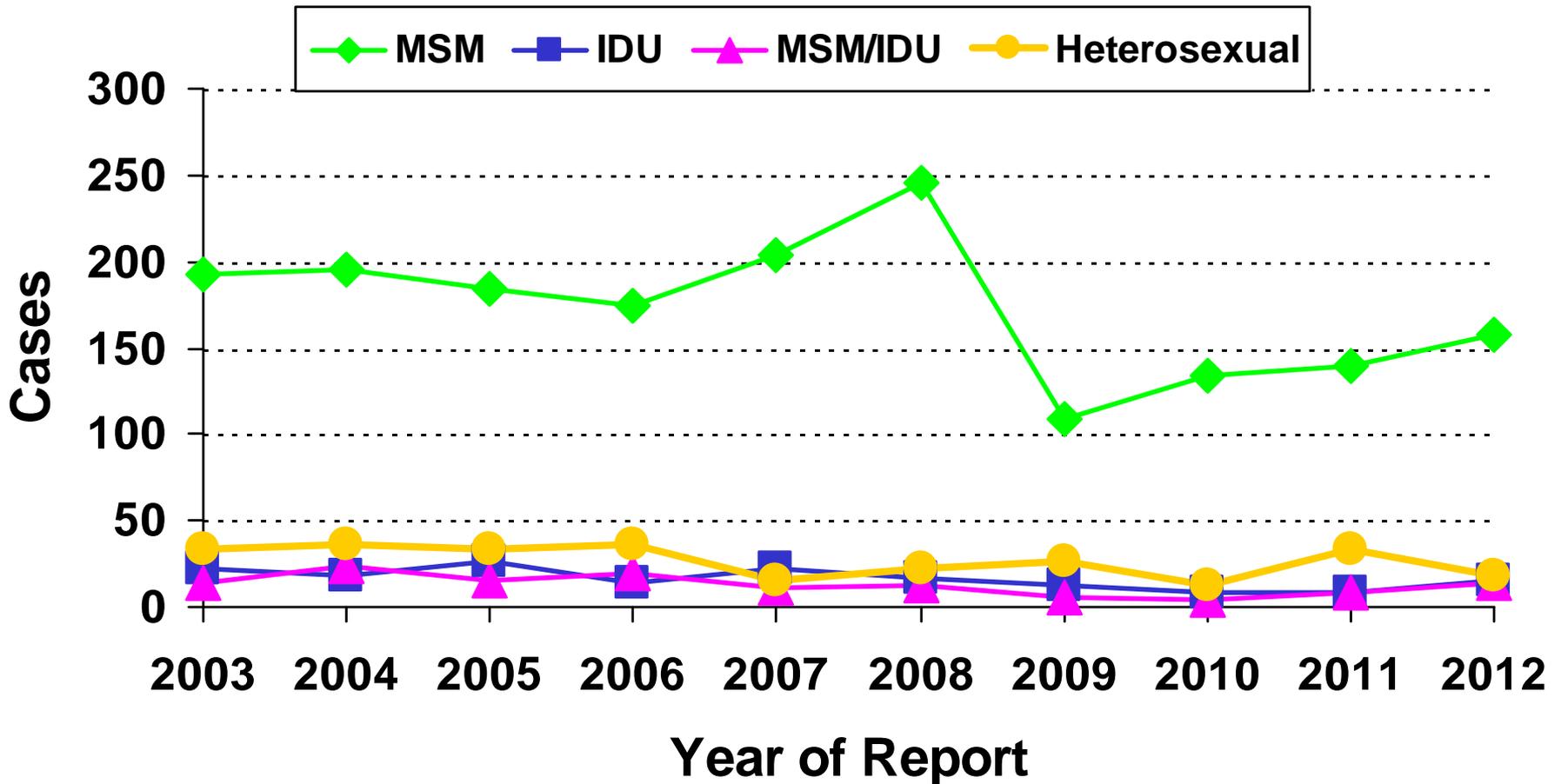


Note: HIV Infection Cases tend to reflect more recent transmission than AIDS cases, and thus present a more current picture of the epidemic. With regard to the age group with the highest percent of HIV Infection Cases, recent estimates show that among males, 28% of HIV Infection Cases occur among those aged 20-29, whereas among females, 26% of HIV Infection Cases occur among those aged 30-39 and 50+ (respectively for both).

Definitions of Mode of Exposure Categories

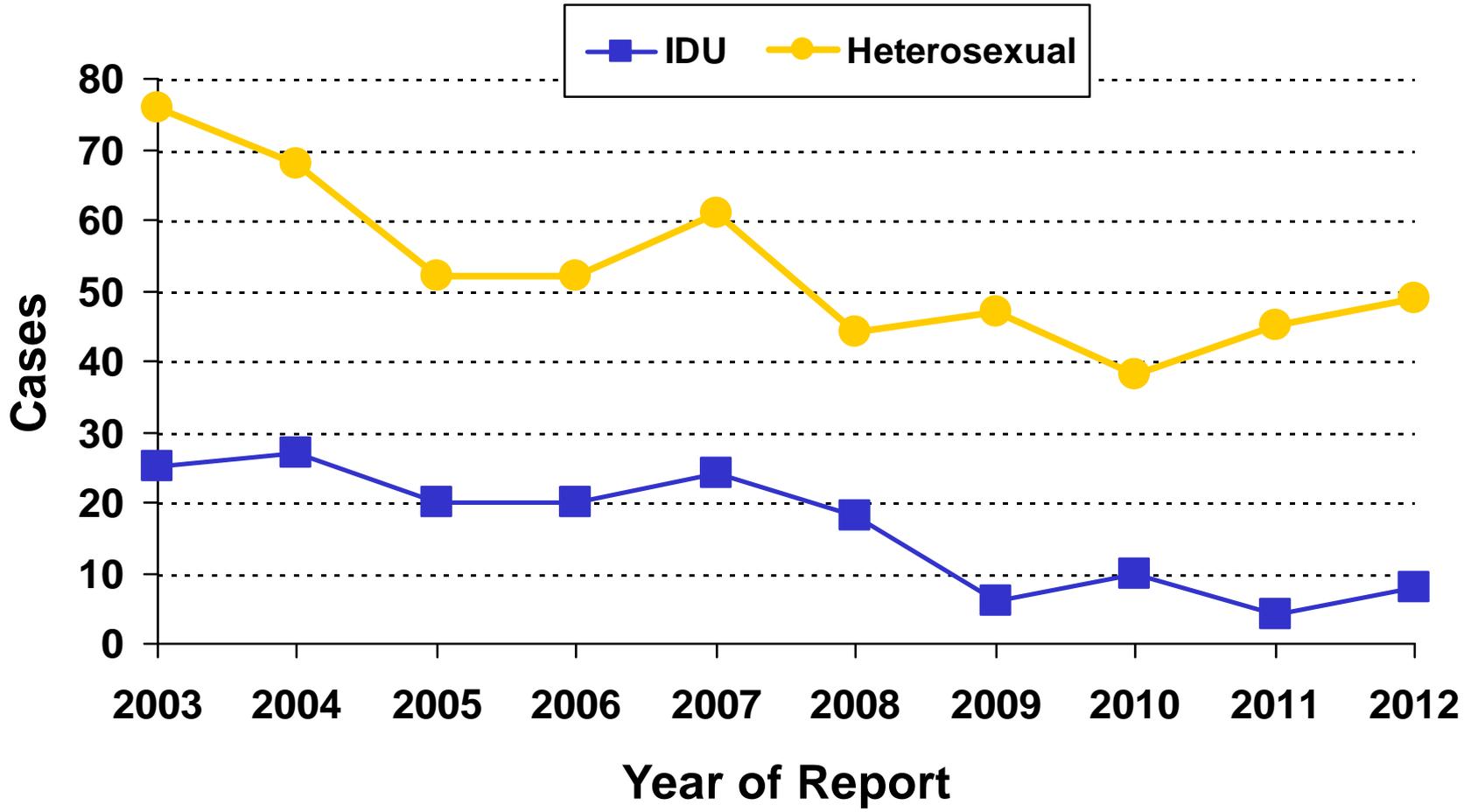
- ◆ **MSM** = Men who have sex with men
- ◆ **IDU** = Injection Drug Use
- ◆ **MSM/IDU** = Men who have sex with men & Injection Drug Use
- ◆ **Heterosexual** = Heterosexual contact with person with HIV/AIDS or known HIV risk
- ◆ **OTHER** = includes hemophilia, transfusion, perinatal and other pediatric risks and other confirmed risks.
- ◆ **NIR** = Cases reported with No Identified Risk
- ◆ **Redistribution of NIRs** = This illustrates the effect of statistically assigning (redistributing) the NIRs to recognized exposure (risk) categories by applying the proportions of historically reclassified NIRs to the unresolved NIRs.

Adult Male HIV Infection Cases, by Mode of Exposure and Year of Report, 2003–2012, Partnership 5



Note: NIRs redistributed. Men who have sex with men (MSM) remains as the primary mode of exposure among male HIV cases in Partnership 5, followed by heterosexual contact.

Adult Female HIV Infection Cases by Exposure Category and Year of Report, 2003-2012, Partnership 5

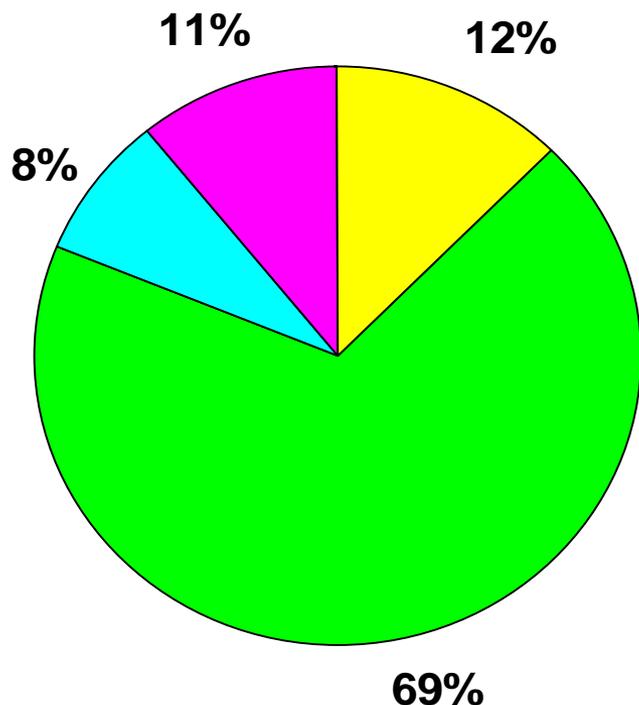


Note: NIRs redistributed. The heterosexual risk continues to be the dominant mode of exposure among females.

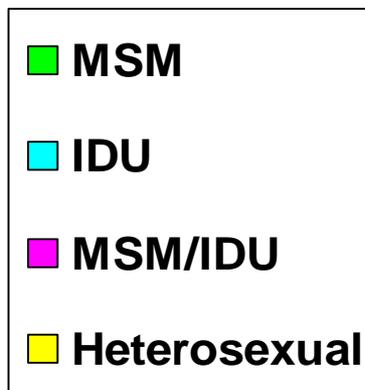
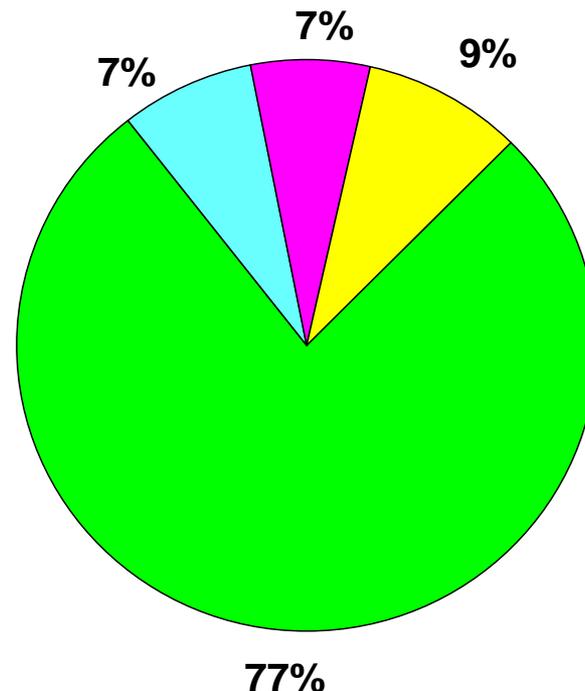


Adult Male AIDS and HIV Infection Cases, by Mode of Exposure, Reported in 2012, Partnership 5

AIDS
N=136



HIV Infection
N=204

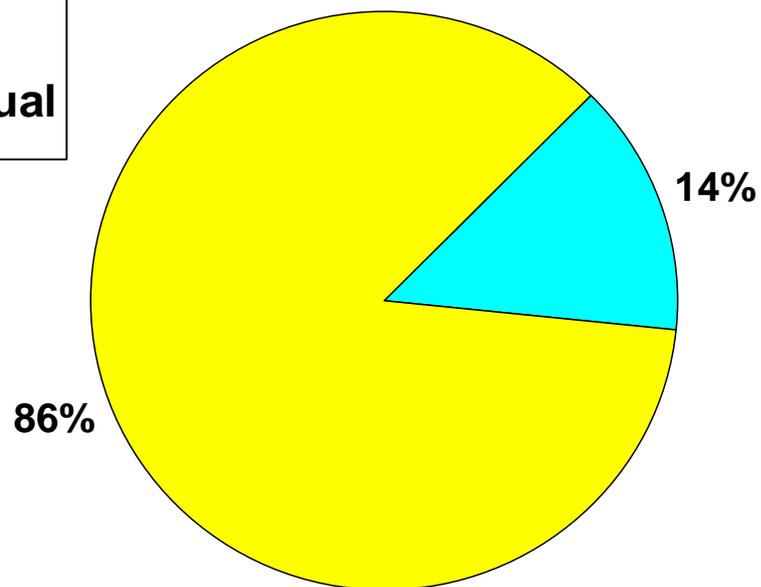
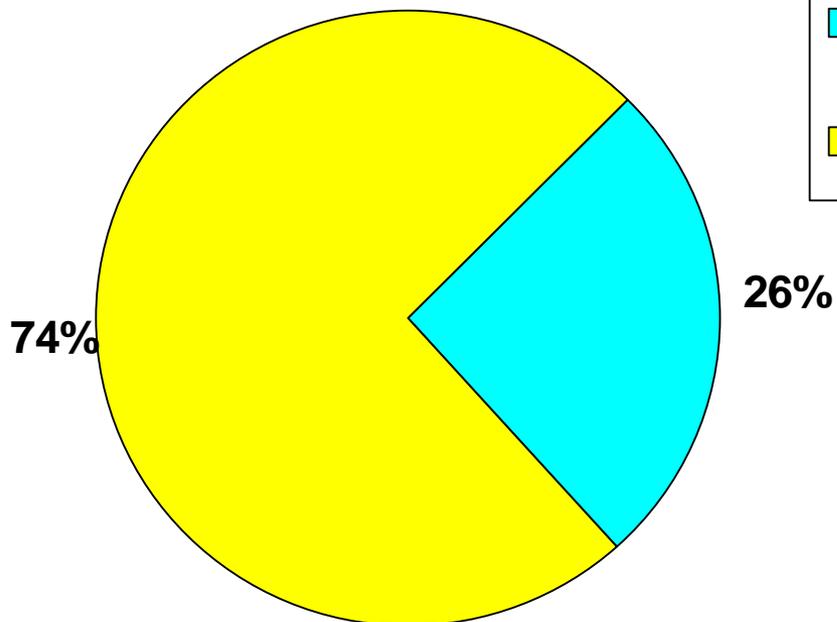


Note: NIRs redistributed. Among the male AIDS and HIV Infection Cases reported for 2012, men who have sex with men (MSM) was the most common risk factor (69% and 77% respectively) followed by cases with a heterosexual risk (12% for AIDS and 9% for HIV). The recent increase among MSM is indicated by the higher MSM among HIV Infection Cases compared to AIDS cases, as HIV Infection Cases tend to represent a more recent picture of the epidemic.

Adult Female AIDS and HIV Infection Cases, by Mode of Exposure, Reported in 2012, Partnership 5

AIDS
N=35

HIV Infection
N=57

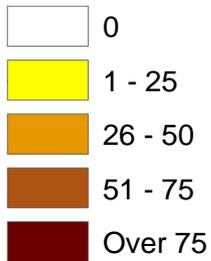


Note: NIRs redistributed. Among the female AIDS and HIV Infection Cases reported for 2012, heterosexual contact was the highest risk (74% and 86% respectively).

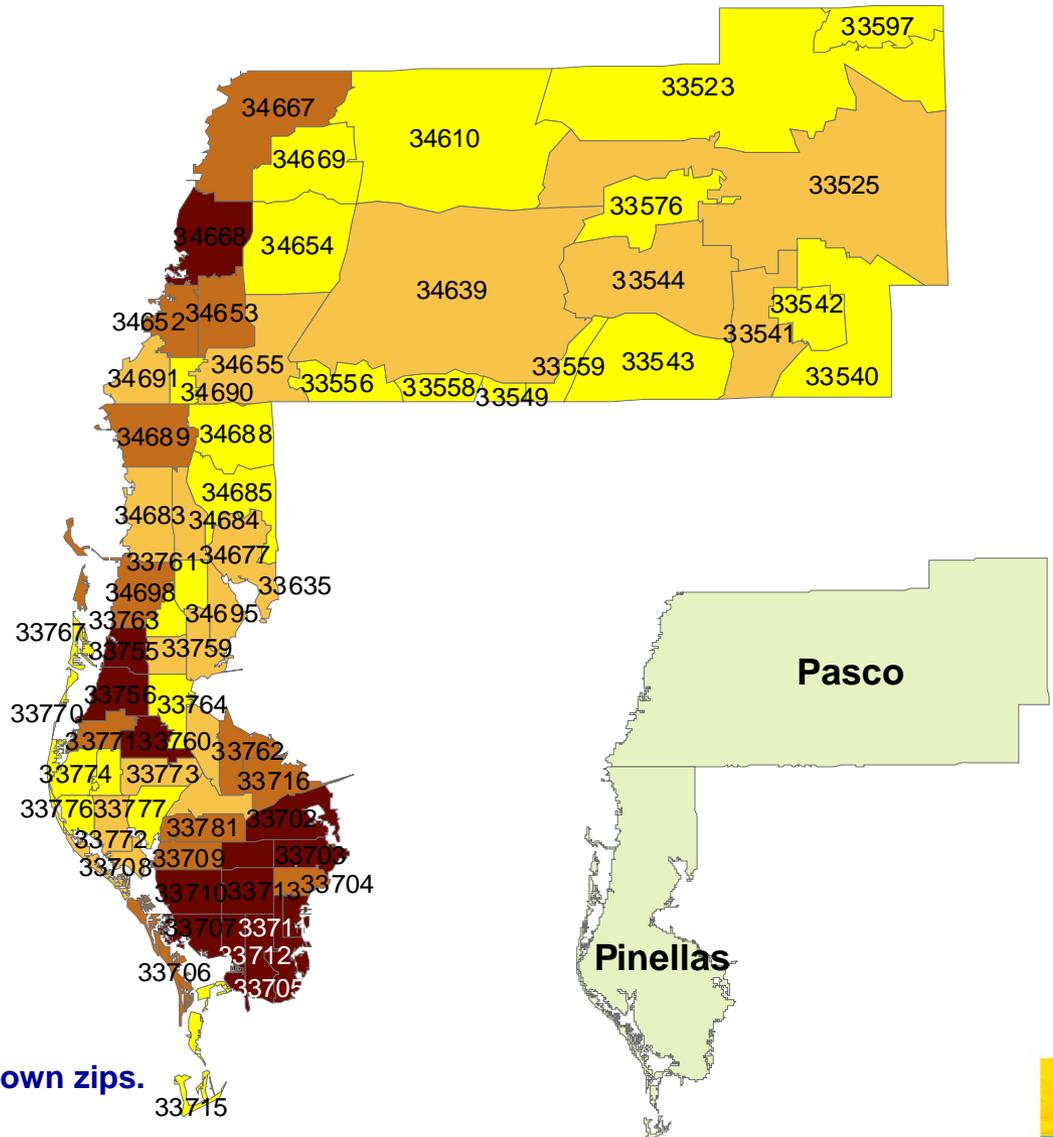
Cases Living with HIV Disease

Adults Living with HIV Disease By Zip Code, Reported through 2011, Partnership 5

**Total Living
HIV/AIDS Cases**



N=4,146



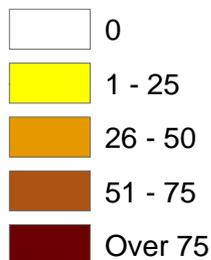
Excludes DOC, homeless, and cases with unknown zips.
Data as of 05/16/2012

Men who have Sex with Men (MSM)*

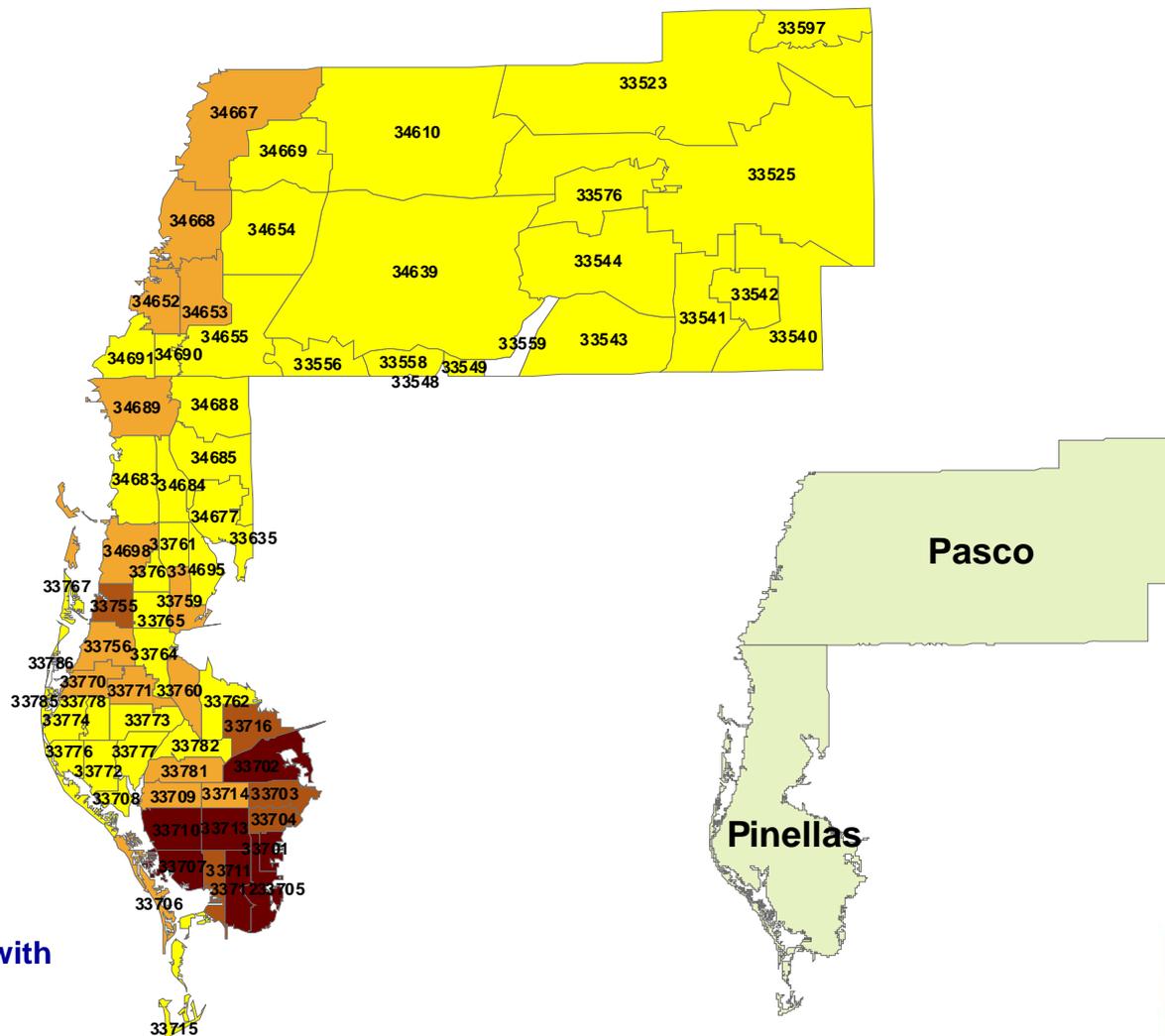
Living with HIV Disease

By Zip Code, Reported through 2011, Partnership 5

Presumed Living MSM HIV/AIDS Cases



N=2,428



NIRs are not redistributed.
Excludes DOC, homeless, and cases with unknown zips.

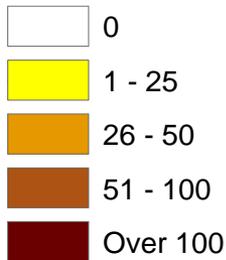
*Includes MSM/IDU cases.

Data as of 05/16/2012

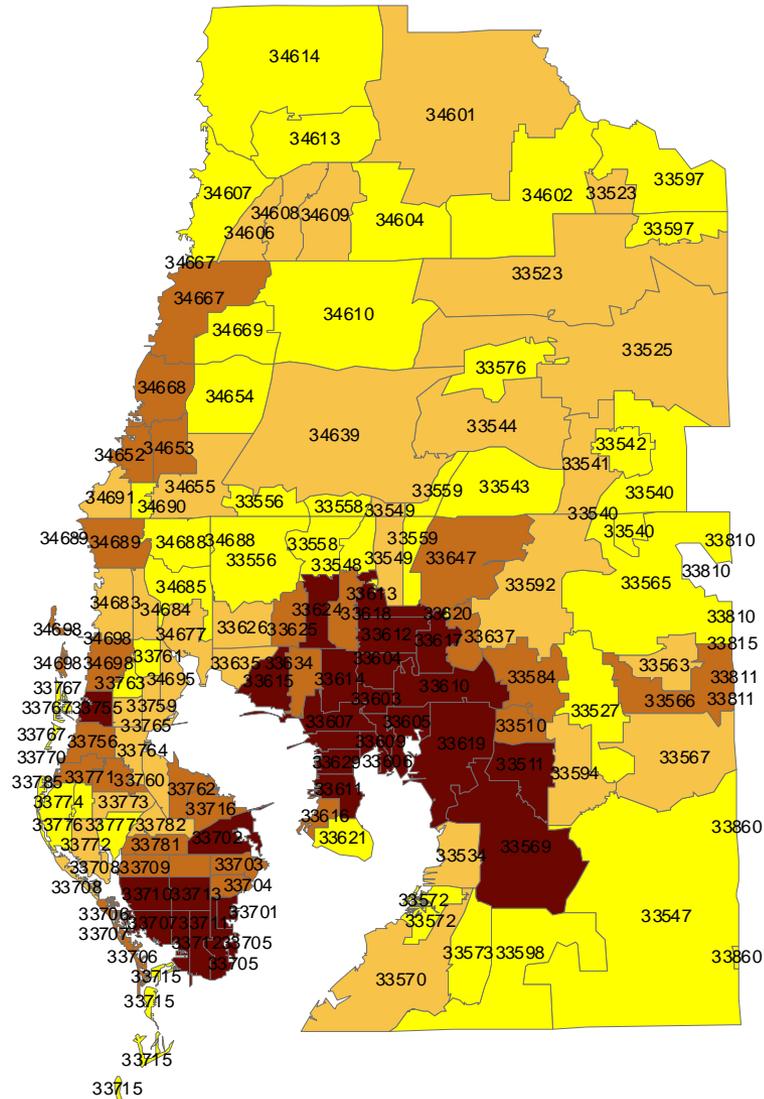
Men who have Sex with Men (MSM)* Living with HIV Disease

By Zip Code, Reported through 2011, Tampa/St. Pete EMA

Presumed Living MSM HIV/AIDS Cases



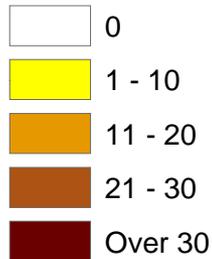
N=10,147



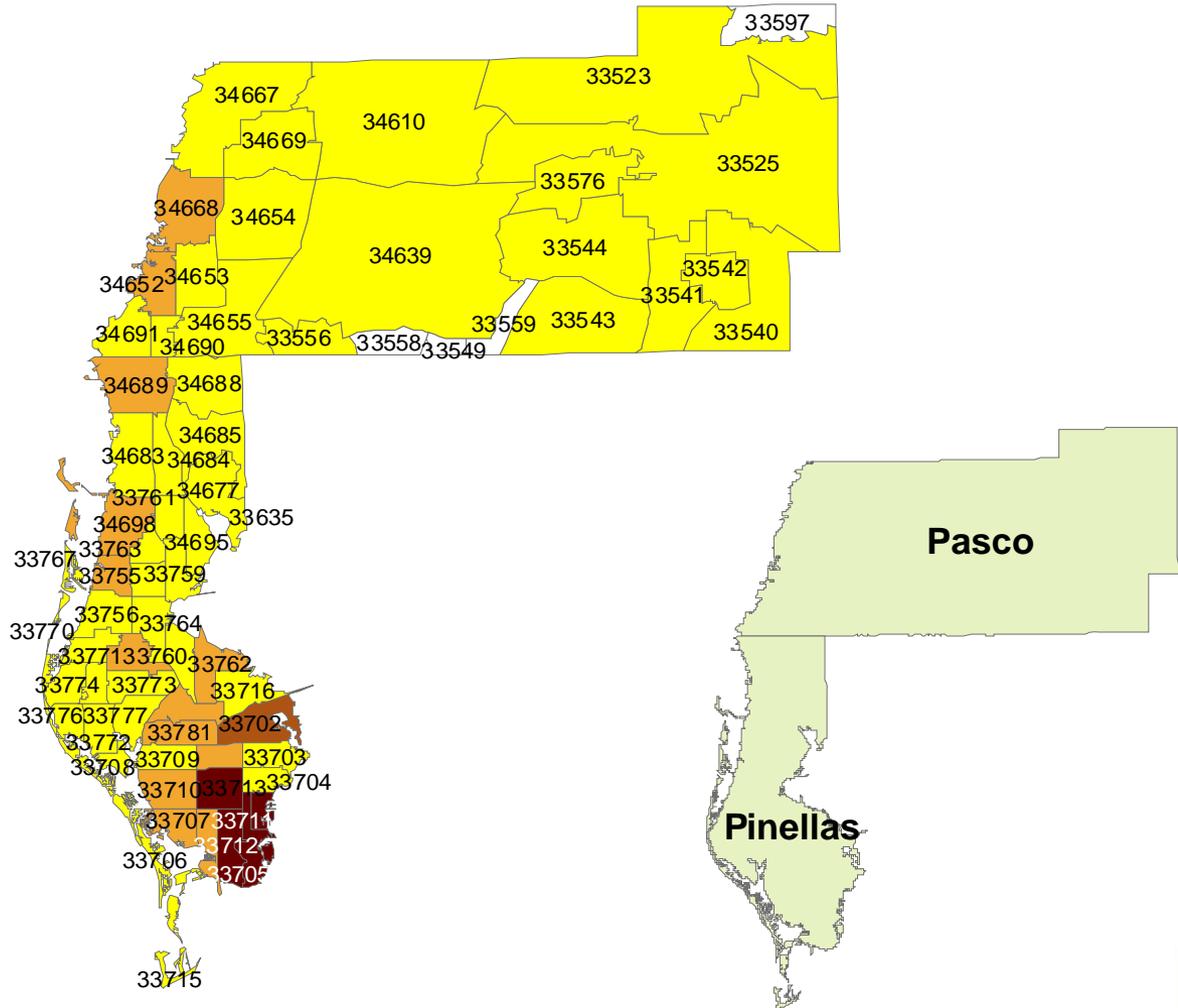
NIRs are not redistributed.
*Includes MSM/IDU. Data as
of 05/16/2012

Injection Drug Users (IDUs)* Living with HIV Disease By Zip Code, Reported through 2011, Partnership 5

Presumed Living
IDU HIV/AIDS Cases



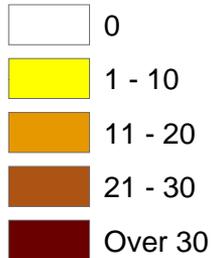
N=649



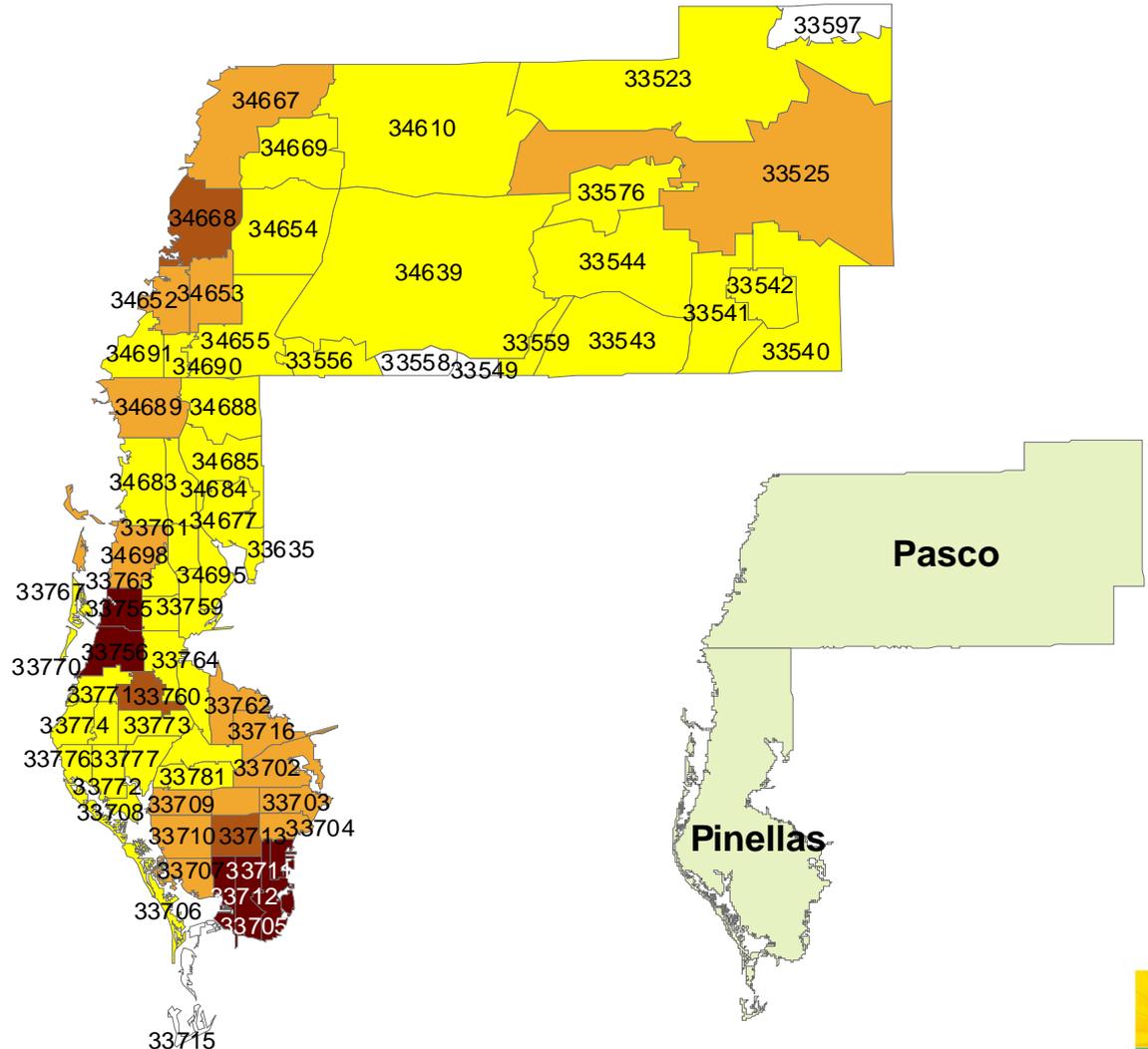
NIRs are not redistributed. Excludes DOC, homeless, and cases with unknown zips. *Includes MSM/IDU cases. Data as of 05/16/2012

Adult Heterosexuals Living with HIV Disease By Zip Code, Reported through 2011, Partnership 5

Presumed Living Heterosexual HIV/AIDS Cases



N=933



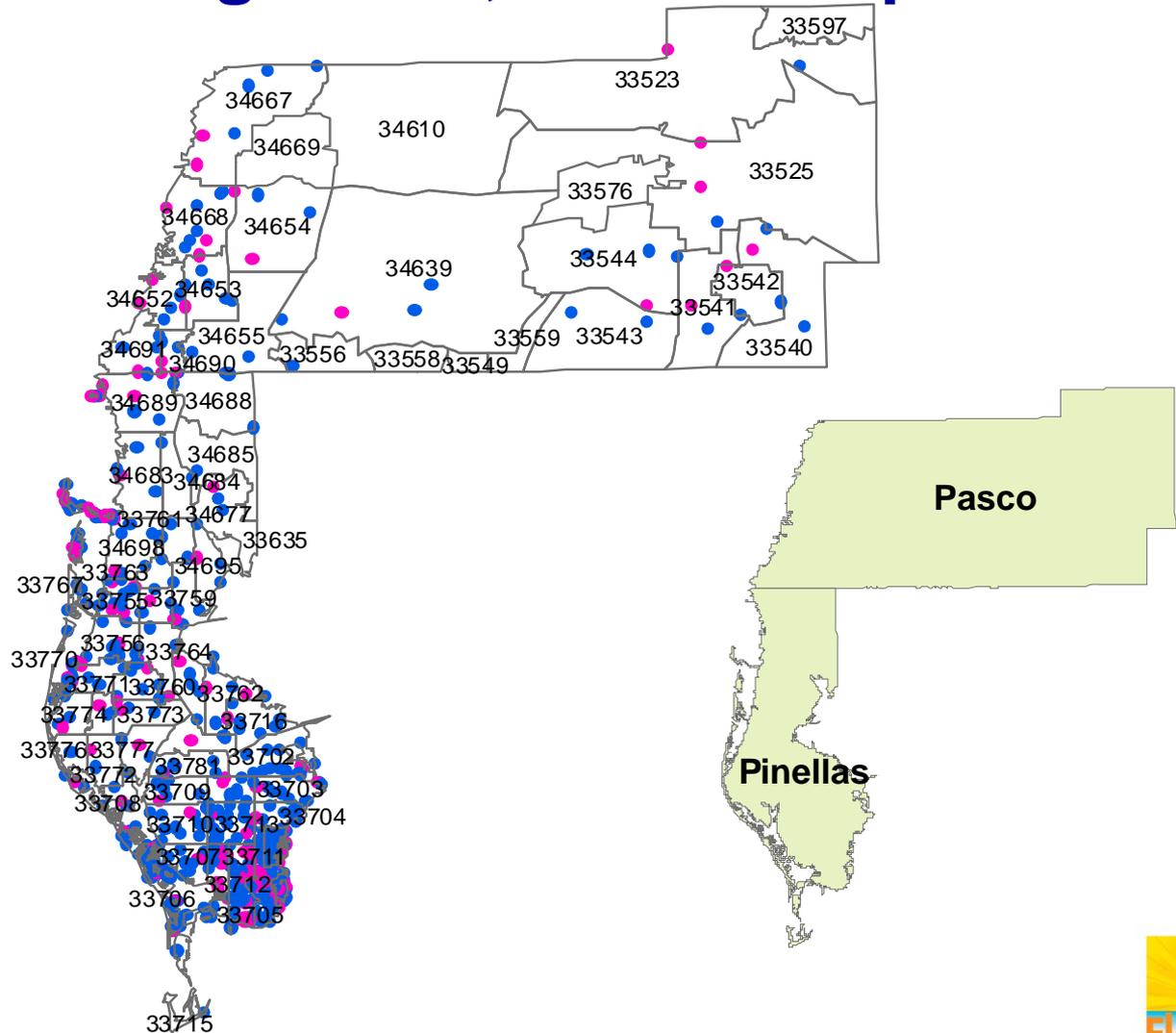
NIRs are not redistributed.
Excludes DOC, homeless, and cases with unknown zips.
Data as of 05/16/2012

Adults Living with HIV Disease By Zip Code and Sex, Reported through 2011, Partnership 5

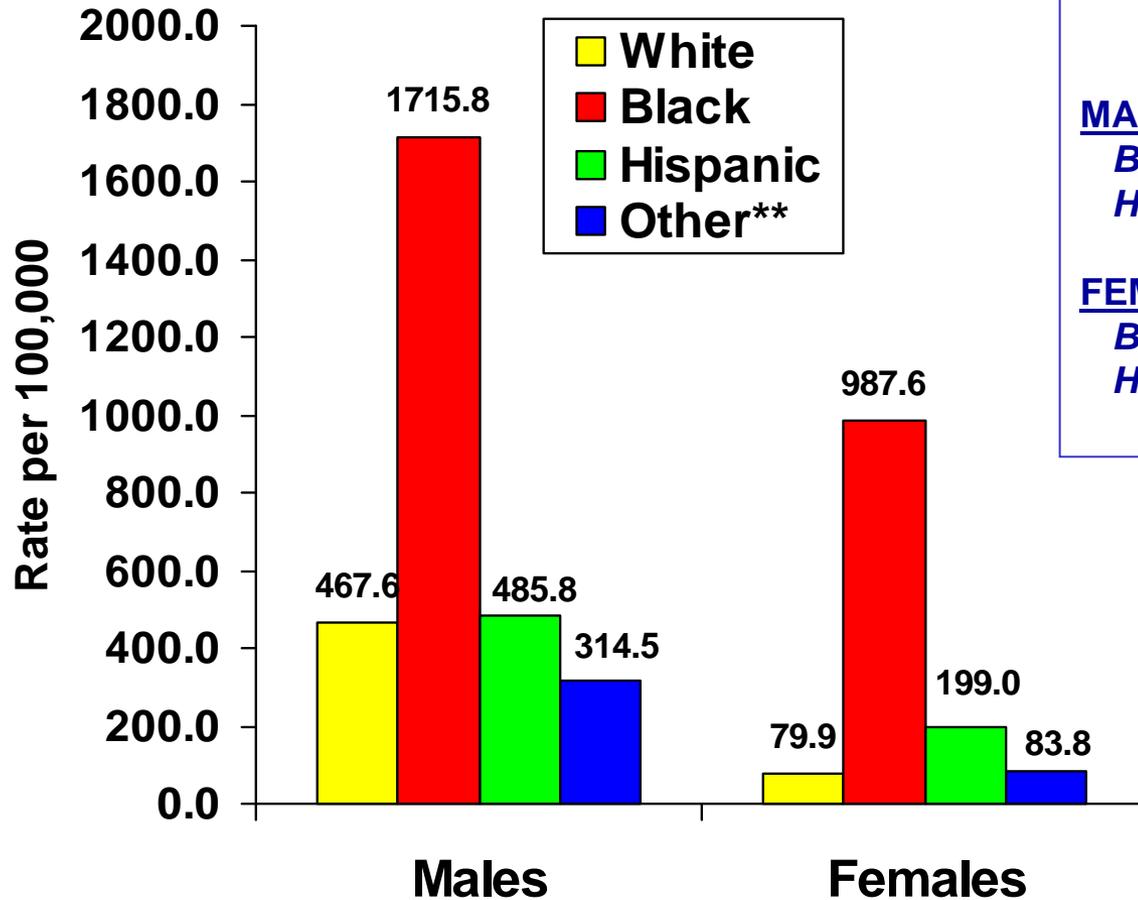
1 Dot = 3 cases
Dots are randomly
placed within zip codes.

- Male
- Female

N=4,146



Case Rates* of Adults Living with HIV Disease, by Sex and Race/Ethnicity, Reported through 2011, Partnership 5



RATE RATIOS:

MALES
Blacks:Whites, 3.7:1
Hispanics:Whites, 1.0:1

FEMALES
Black:Whites, 12.4:1
Hispanics:Whites, 2.5:1

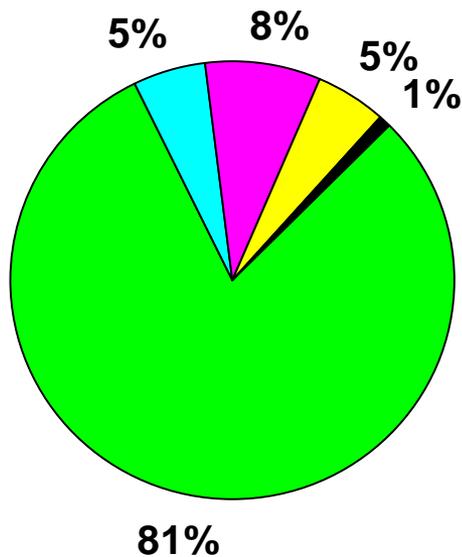
Note: Among black males, the HIV/AIDS case rate for cases alive and reported through 2011 is 3 times higher than among white males. Among black females, the HIV/AIDS case rate is 12 times higher than among white females. Hispanic male rates are 1 time higher and Hispanic female rates are 2 times higher than the rates among their white counterparts. male Data

*Source: Population estimates are provided by FloridaCHARTS
 **Other includes Asian/Pacific Islanders and Native Alaskans/American Indians.

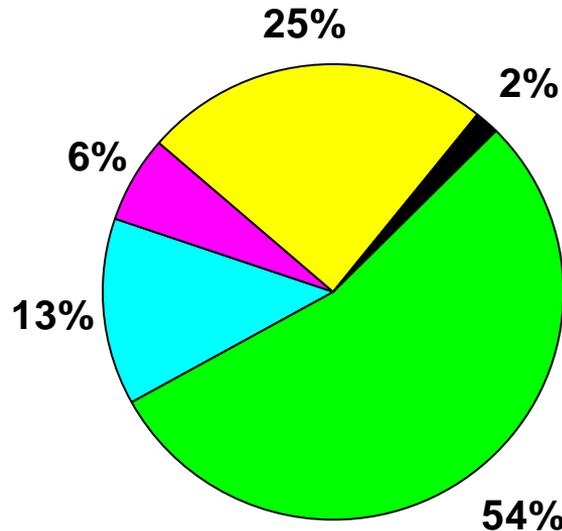


Adult Males Living with HIV Disease by Race/Ethnicity and Mode of Exposure Reported through 2011, Partnership 5

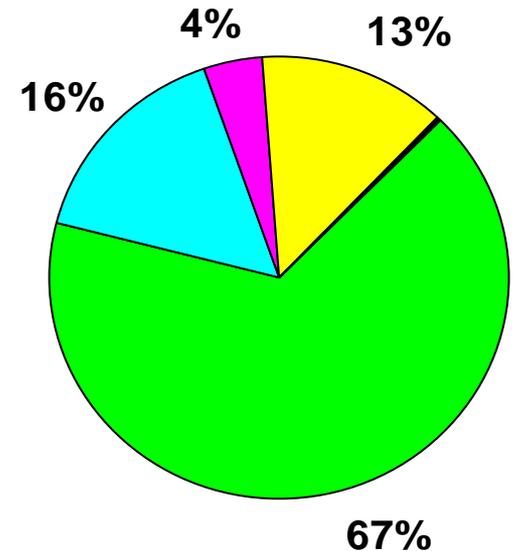
White Non-Hispanic,
N=2,152



Black Non-Hispanic,
N=721



Hispanic,
N=241



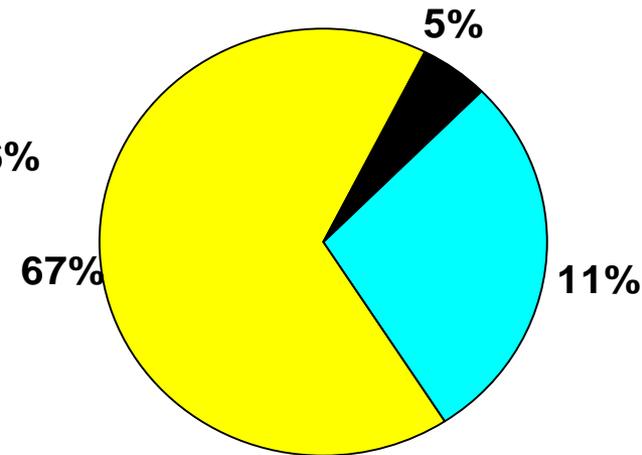
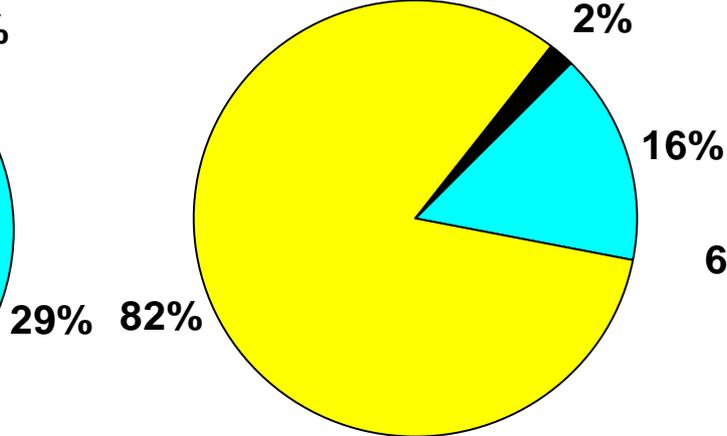
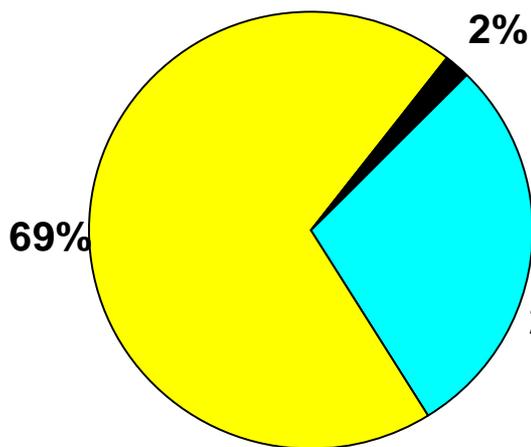
Note: NIRs redistributed. Among males living with HIV disease, the distribution of risk among blacks differs from that among whites and Hispanics. MSM represents the highest risk for all races. White males have the smallest proportion of heterosexual contact cases.

Adult Females Living with HIV Disease by Race/Ethnicity and Mode of Exposure Reported through 2011, Partnership 5

White Non-Hispanic,
N=401

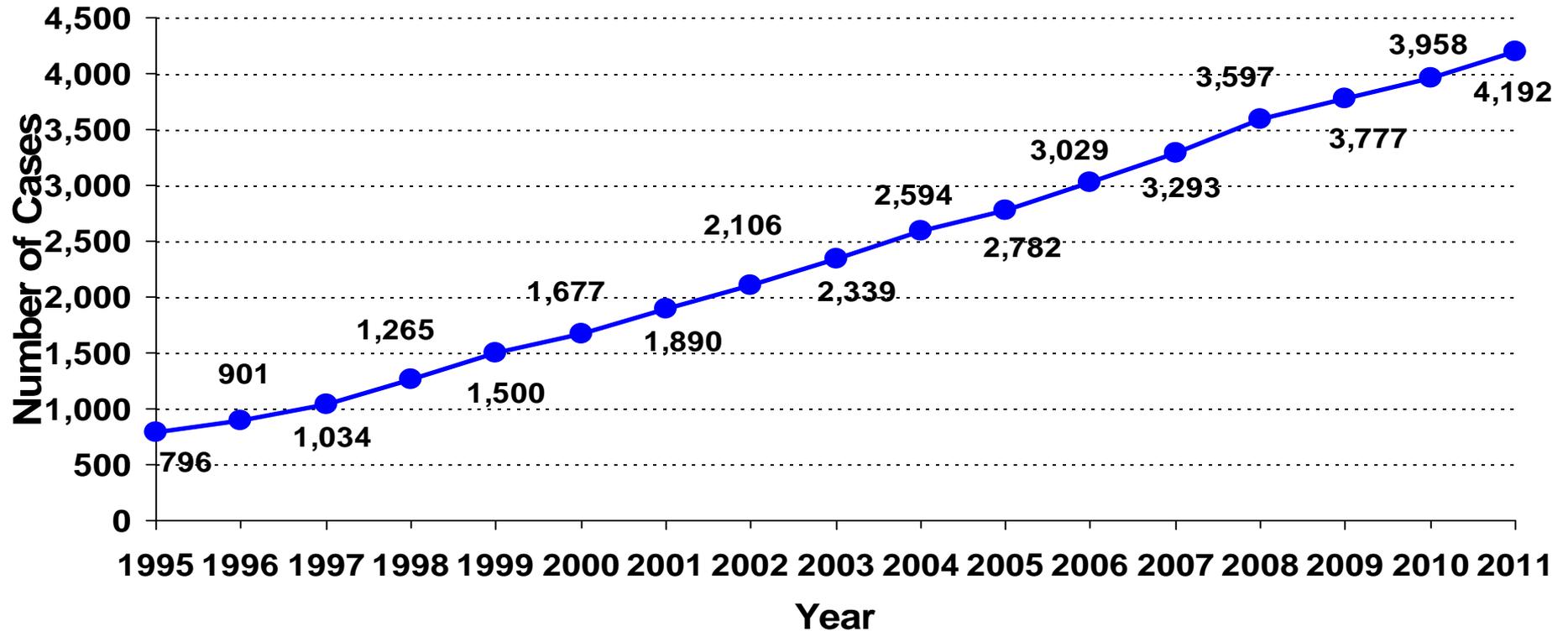
Black Non-Hispanic,
N=469

Hispanic,
N=102



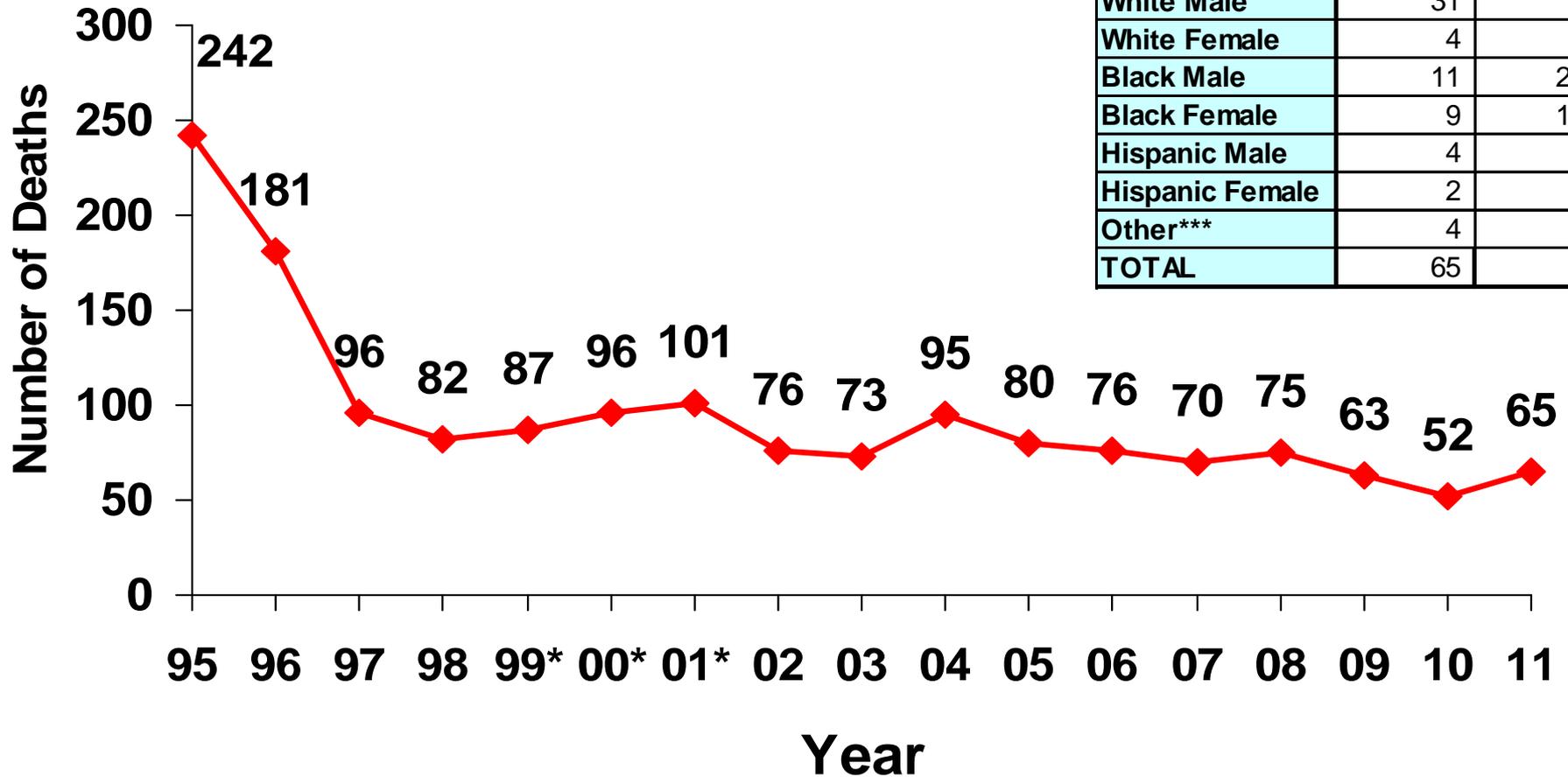
Note: NIRs redistributed. Among females living with HIV disease, the distribution of risk among whites differs from that among blacks and Hispanics. Heterosexual contact is the majority risk for all races, However, whites have the highest proportion of IDU cases.

Annual Prevalence of Adults Living with HIV Disease, 1995-2011, Partnership 5



As a result of declining deaths, annual HIV/AIDS diagnoses have exceeded deaths since 1995, and the number of persons reported with HIV/AIDS that are presumed to be alive has been increasing. Since the year 1995, prevalent cases have increased by over 420%. In 2011 the prevalence increased by 6%.

Resident Deaths due to HIV Disease by Year of Death, 1995-2011, Partnership 5



Race/Ethnicity	2011	
	No.	rate
White Male	31	6.0
White Female	4	0.7
Black Male	11	20.4
Black Female	9	15.3
Hispanic Male	4	6.1
Hispanic Female	2	3.0
Other***	4	6.0
TOTAL	65	4.7



Some Useful Links

**CDC HIV/AIDS Surveillance Reports
(State and Metro Data):**

<http://www.cdc.gov/hiv/stats/hasrlink.htm>

**MMWR (Special Articles on Diseases, Including
HIV/AIDS):**

<http://www.cdc.gov/mmwr/>

U.S. Census Data (Available by State, County):

<http://www.census.gov>

**Partnership 5 Dept. of Health, HIV/AIDS & Hepatitis Program
Website**

**(Slide Sets, Fact Sheets, Monthly Surveillance Report,
Counseling & Testing Data, etc., etc.):**

http://www.doh.state.fl.us/disease_ctrl/aids/index.html



“The reason for collecting, analyzing and disseminating information on a disease is to control that disease. Collection and analysis should not be allowed to consume resources if action does not follow.”

--Foege WH et al. Int. J of Epidemiology 1976; 5:29-37



For Florida HIV/AIDS Surveillance Data

Contact: (850) 245-4444

Lorene Maddox, MPH

Ext. 2613

Tracina Bush, BSW

Ext. 2612

Madgene Moise, MPH

Ext. 2373

Visit Florida's internet site for:

- Monthly Surveillance Reports**
- Slide Sets and Fact Sheets**
- Annual Reports and Epi Profiles**

http://www.doh.state.fl.us/disease_ctrl/aids/trends/trends.html

Visit CDC's HIV/AIDS Internet site for:

Surveillance Reports, fact sheets and slide sets

<http://www.cdc.gov/hiv/topics/surveillance/resources/reports/index.htm>

Special acknowledgement given to Heidi Dutton for her contribution to the slide sets.