

Status of the HIV/AIDS Epidemic San Francisco

**Presented to the CARE Council
July 12, 2010**

**HIV Epidemiology Section, AIDS Office
San Francisco Department of Public Health**

HIV/AIDS Surveillance System

- Predominately active system
 - Health department staff visit medical facilities, use a variety of data sources (e.g. lab and pathology reports, ICD codes), review medical records and complete case report form
- Collect follow up information through routine reporting of lab test results and periodic reviews of medical records
- Obtain mortality status through review of local death certificates, other health departments, and match with the National Death Index

Measures of Disease Frequency

- **Prevalence** - the number of people with a particular condition in a defined population at a specified time (includes old and new cases)
- **Incidence** - the occurrence of NEW cases of disease in a defined population over a specified period of time

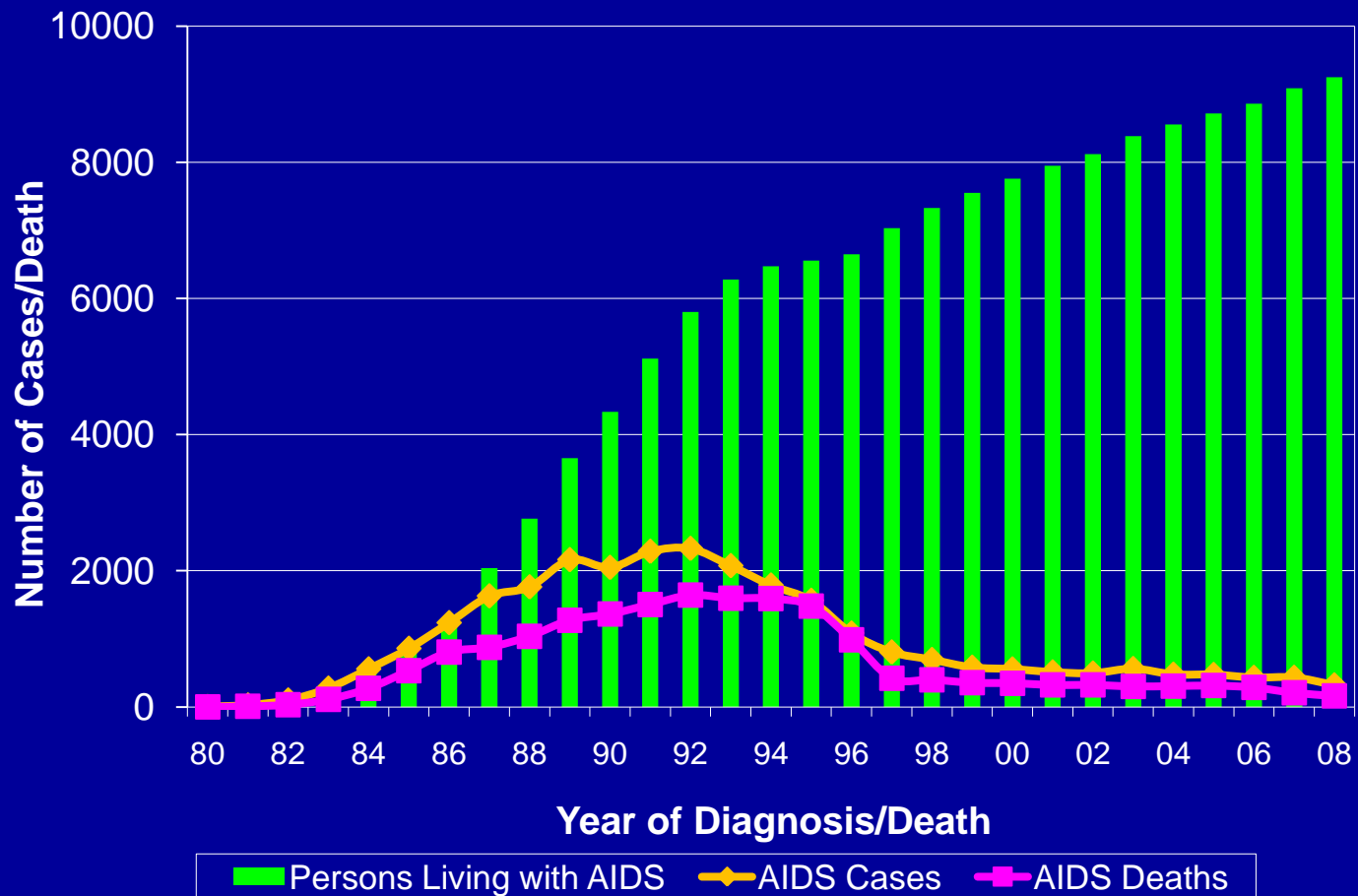
Characteristics of Persons Living with AIDS and Persons Living with HIV Non-AIDS, December 31, 2009

	PLWHA (N=9,489)	PLWH (N=6,347)	HIV DX (2008 N=493)
Gender			
Male	92%	92%	90%
Female	6%	6%	8%
Transgender	2%	2%	2%
Risk			
MSM	71%	72%	71%
MSM+IDU	14%	11%	9%
IDU	8%	6%	6%
No Reported Risk	2%	6%	7%
Other	5%	3%	7%

Characteristics of Persons Living with AIDS and Persons Living with HIV Non-AIDS, December 31, 2009

	PLWHA (N=9,489)	PLWH (N=6,347)	HIV DX (2008 n=493)
Race/Ethnicity			
White	64%	63%	50%
African American	14%	13%	16%
Latino	16%	15%	23%
API/Native Amer.	6%	6%	10%
Current Age			
< 24 years	4%	2%	10%
25-49 years	48%	65%	80%
50+ years	48%	31%	10%

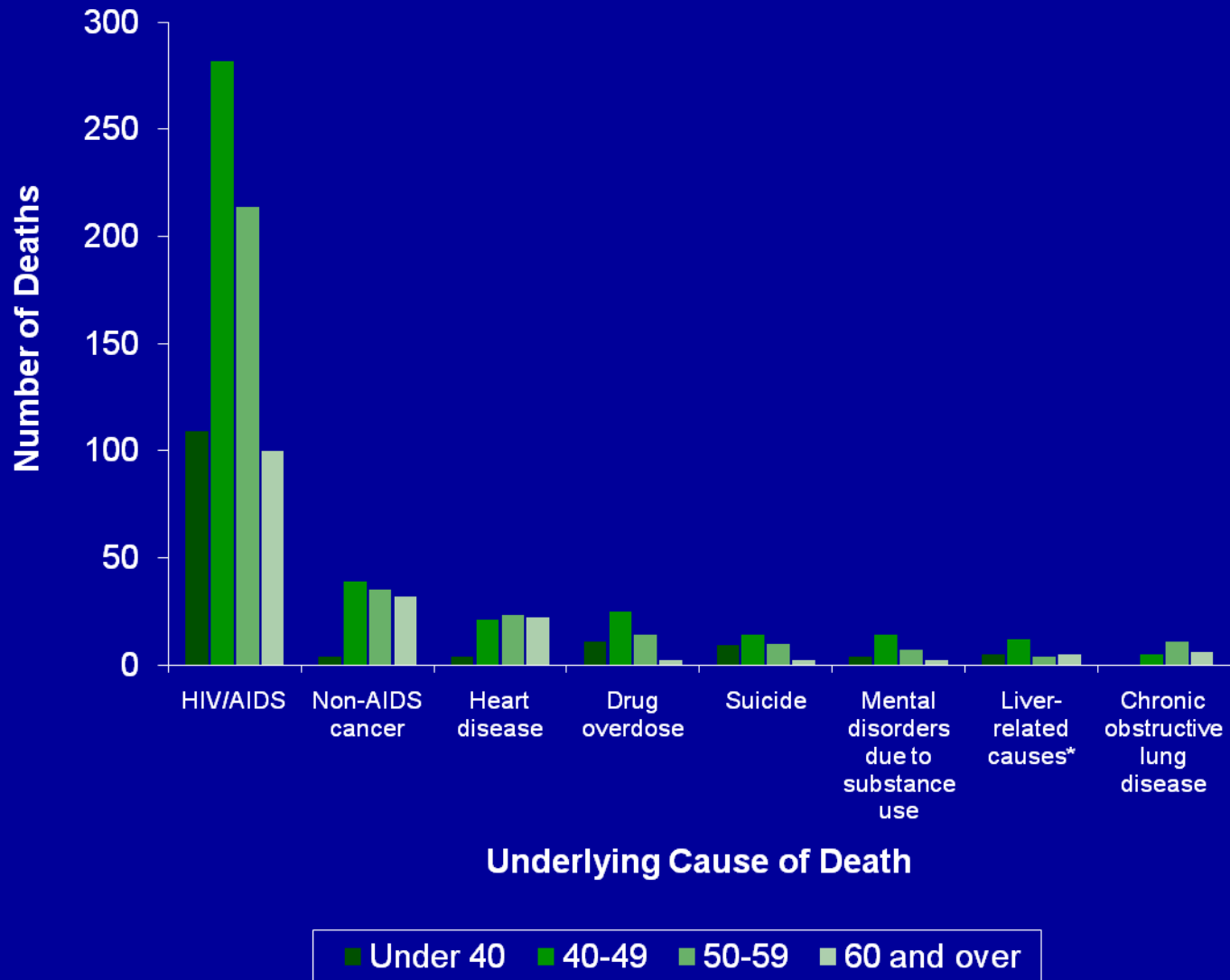
AIDS cases, deaths, and prevalence San Francisco, 1980-2008



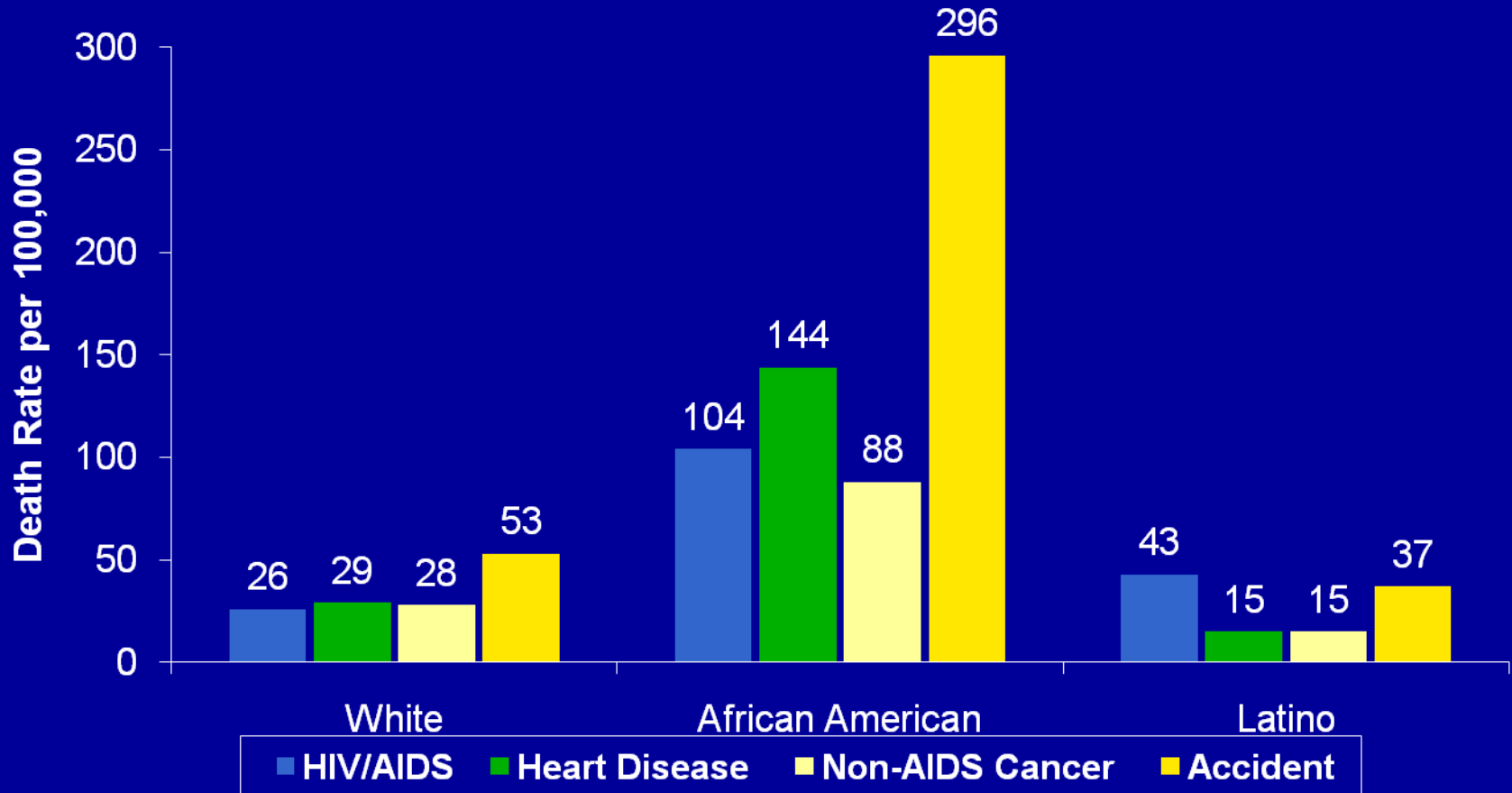
Underlying Causes of Death Among Persons with AIDS, 2004-2007

Underlying Cause of Death (N=1,140)	Number of deaths (%)
HIV/AIDS	706 (61.9%)
Non-AIDS cancer	1110 (9.6%)
Heart disease	70 (6.1%)
Liver disease	19 (1.7%)
Drug overdose	52 (4.6%)

Age distribution for select underlying causes of death among persons with AIDS, 2004-2007, San Francisco



Leading causes of death rates per 100,000 population among San Francisco male residents* aged 25-54 years by race/ethnicity, 2007

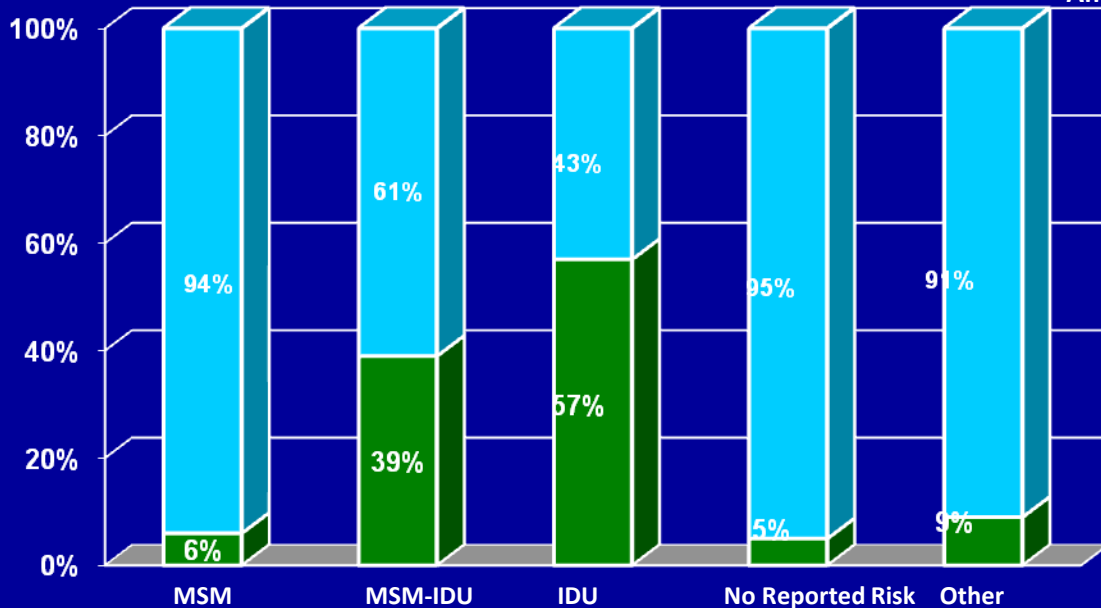
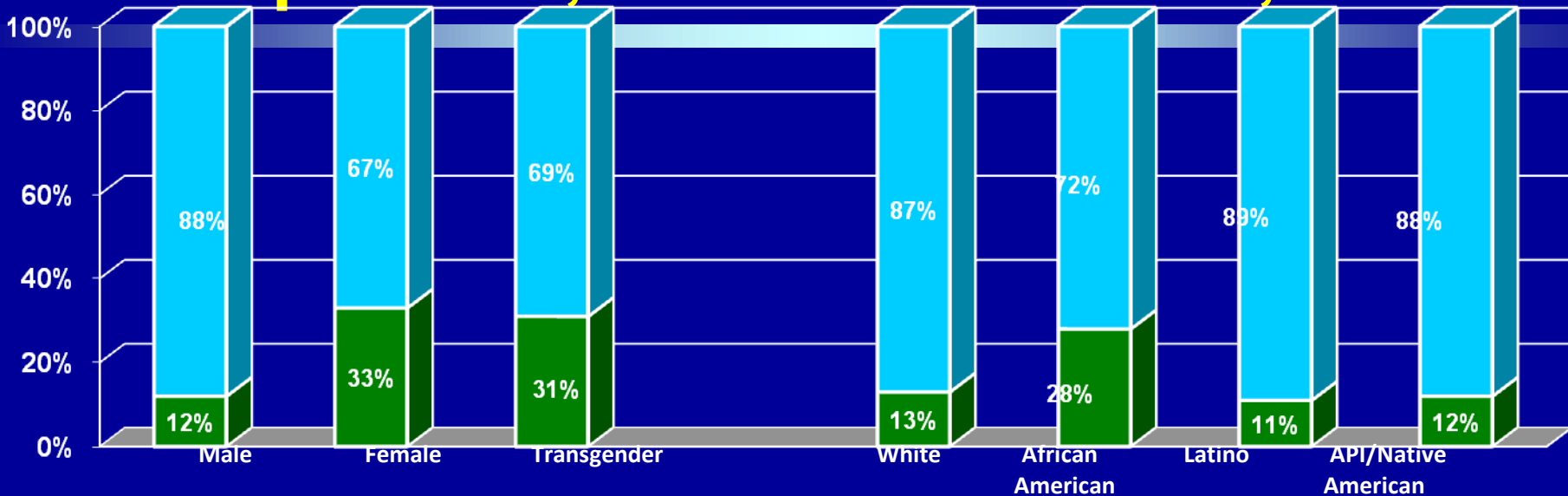


* Population denominator obtained from State of California, Department of Finance, Race/Ethnic Population with Age and Sex detail 2000-2050 data file.

Characteristics of Living HIV/AIDS Cases Seen in San Francisco Jails, as of December 2009

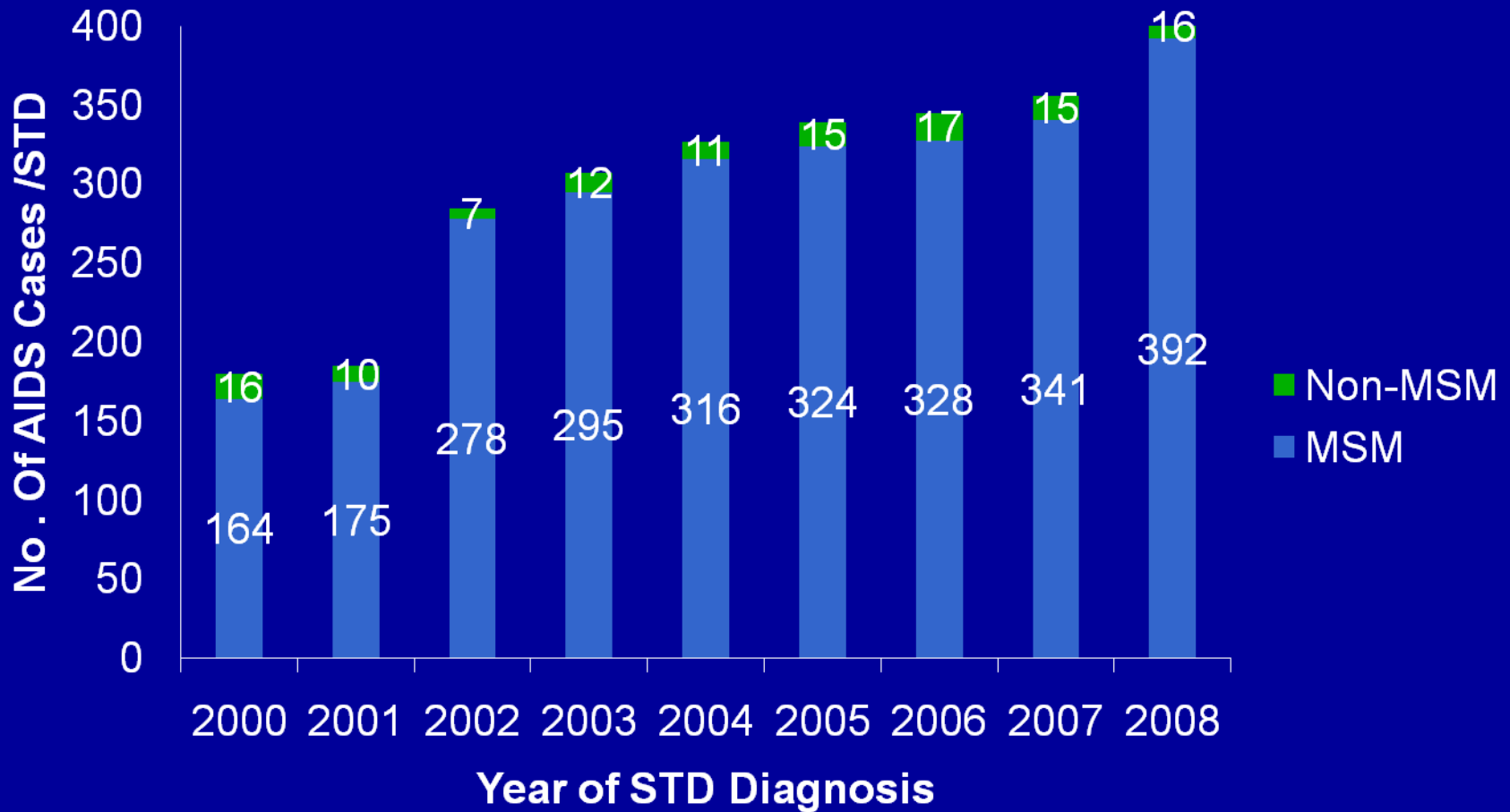
	Living HIV/AIDS cases (N= 15,836)	Living HIV/AIDS cases with history of jail (N= 1,015)
Gender		
Male	92%	77%
Female	6%	16%
Transgender	2%	7%
Race/Ethnicity		
White	64%	37%
African-American	14%	44%
Latino	16%	14%
API/Native American	6%	5%
Risk		
MSM	72%	17%
MSM-IDU	12%	40%
IDU	7%	37%
Other/ No Reported Risk	8%	6%

Living HIV/AIDS Cases Co-Infected with Hepatitis C, as of December 31, 2009

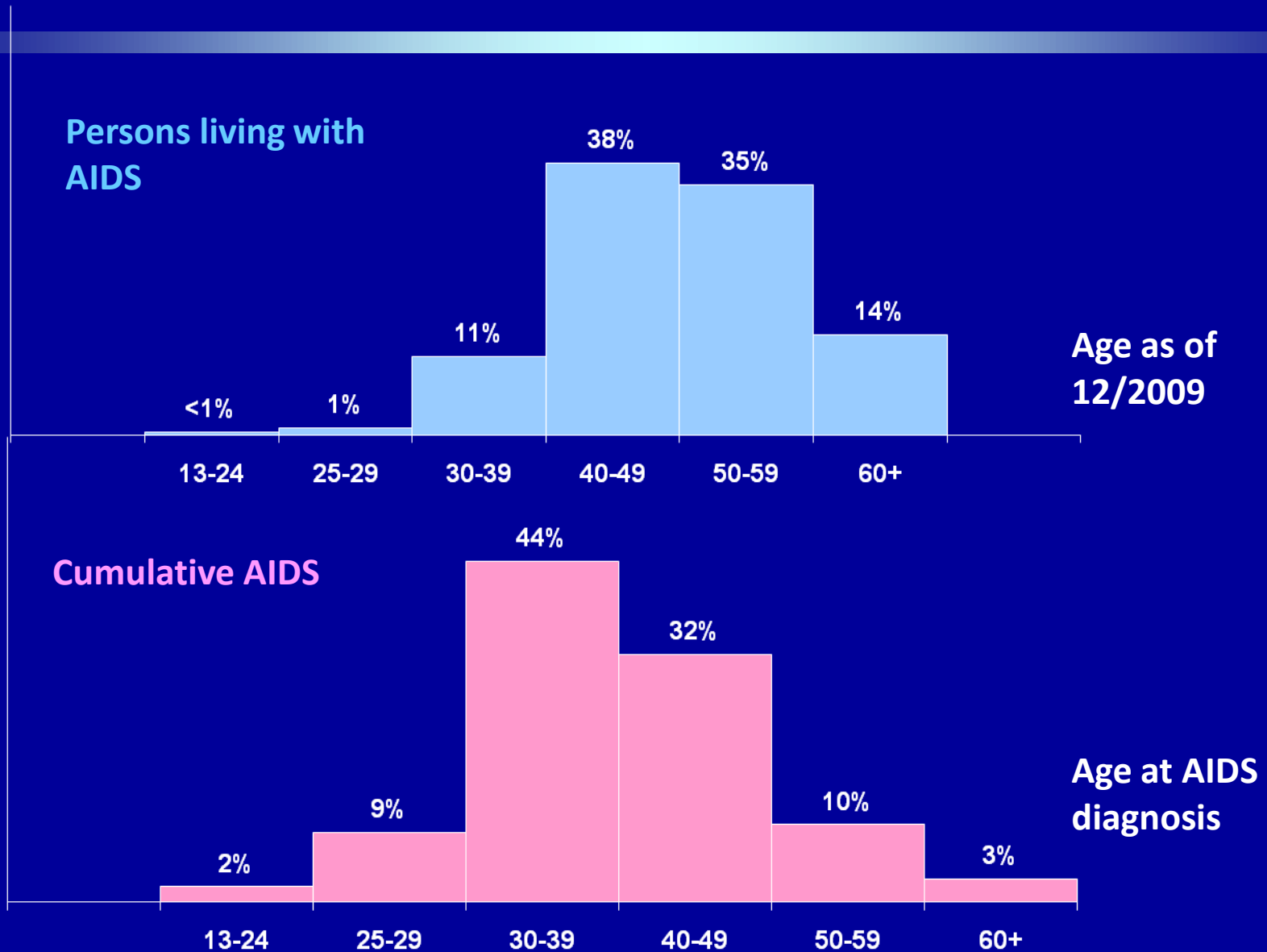


■ Living HIV/AIDS Cases without Hepatitis C
■ Living HIV/AIDS Cases with Hepatitis C

Number of AIDS cases diagnosed with an STD by year of STD diagnosis, San Francisco, 2000-2008

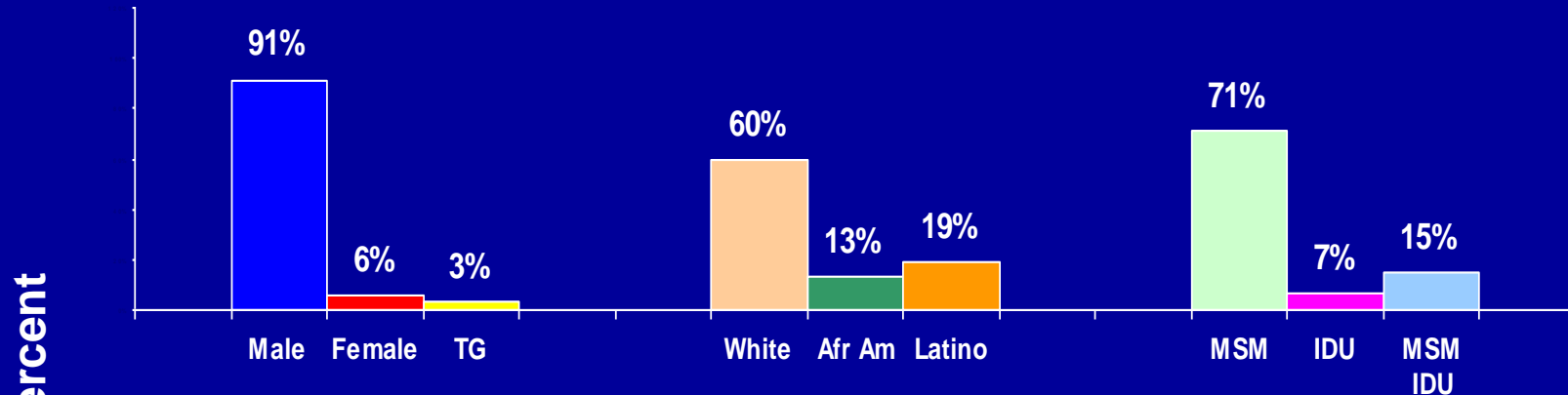


Age Distribution Among Persons with AIDS, San Francisco, December 31, 2009

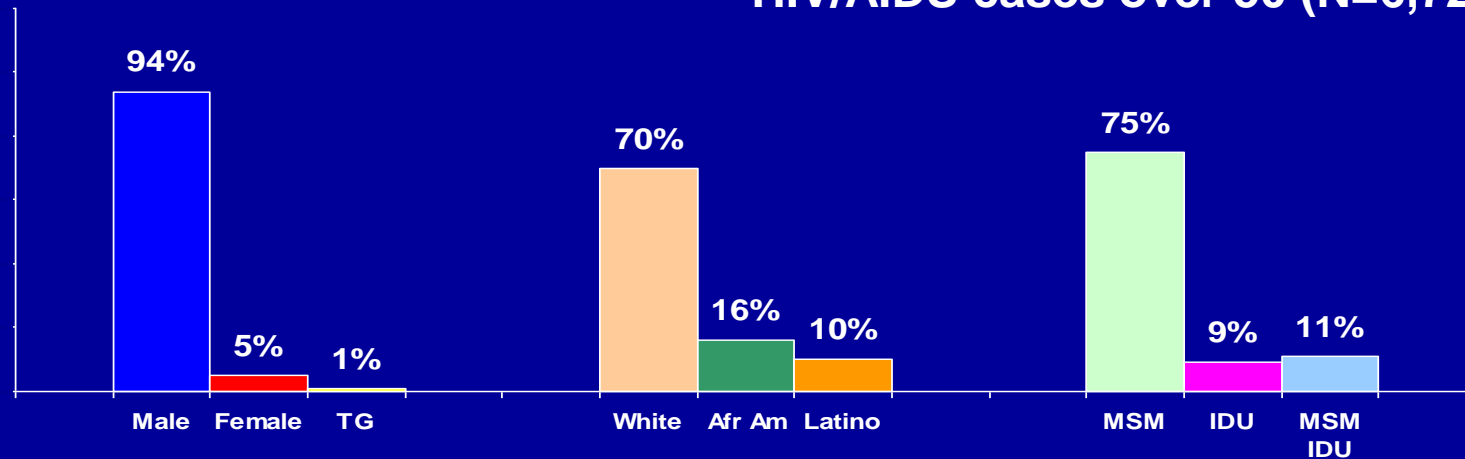


Characteristics of Persons Living with HIV/AIDS Who are over 50 and under 50 years old, as of December 31, 2009

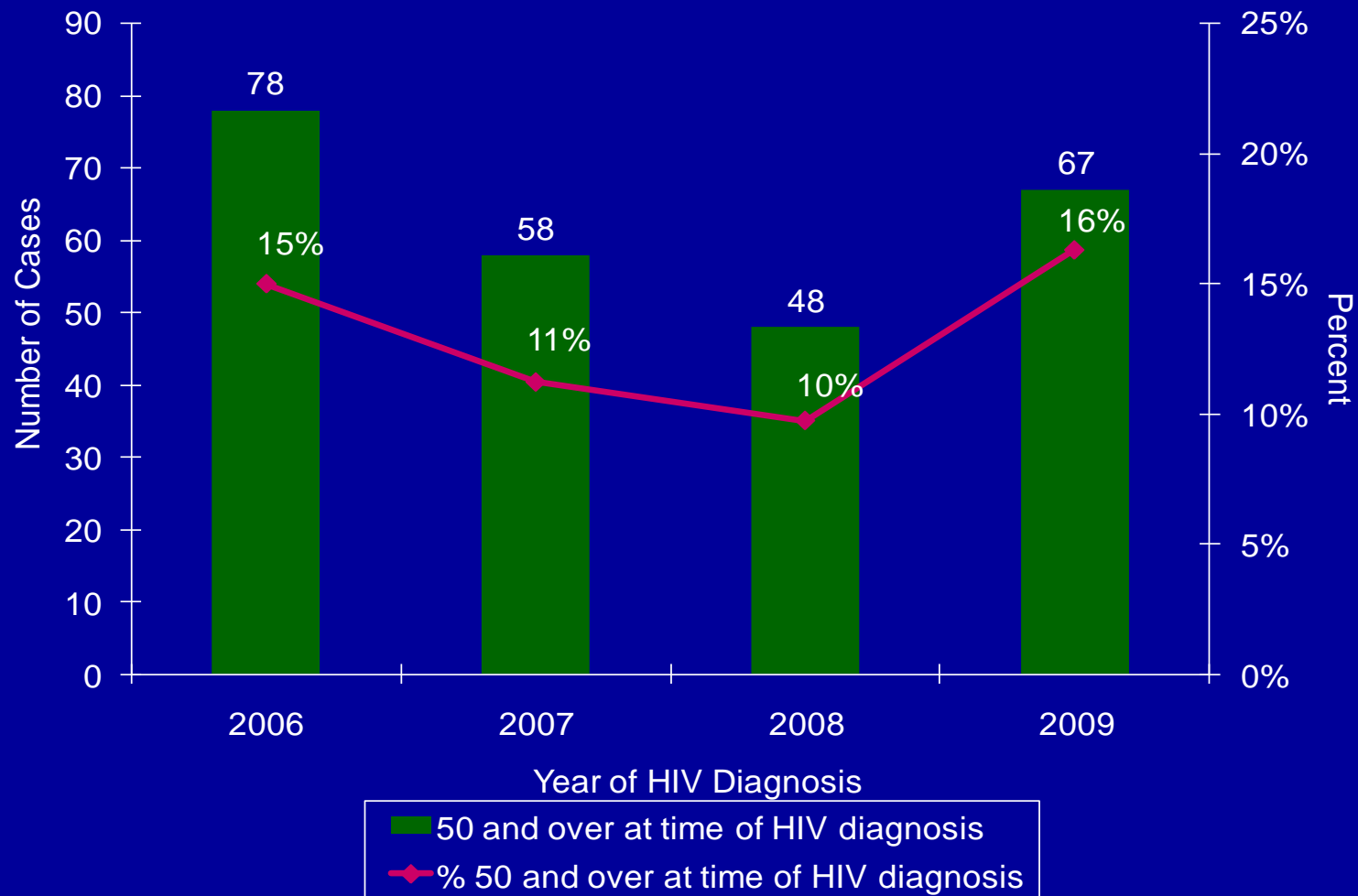
HIV/AIDS cases under 50 (N=9,115)



HIV/AIDS cases over 50 (N=6,721)



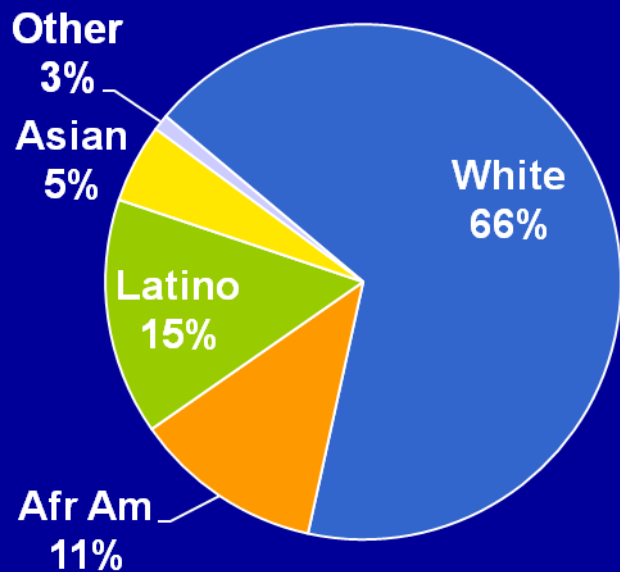
Number and percent of persons diagnosed with HIV infection* at age 50 years and older, 2006-2009, San Francisco



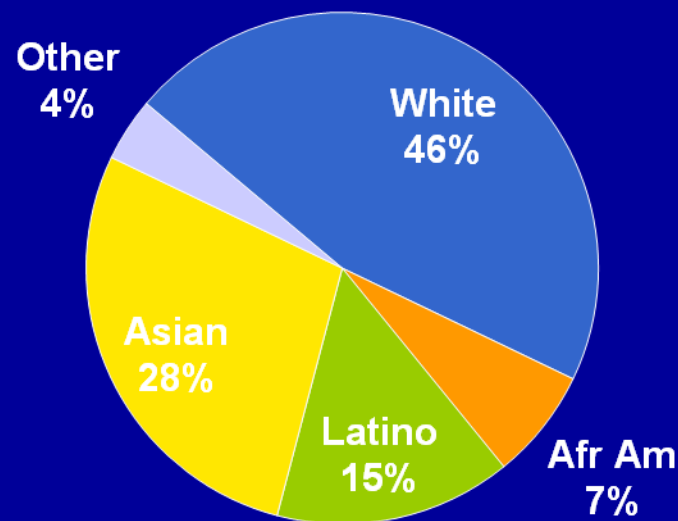
* Includes persons with HIV/AIDS by year of their initial HIV diagnosis.

Race/Ethnicity of Men Living with HIV/AIDS Compared to the General Population of San Francisco, December 31, 2009

Male HIV/AIDS Cases
N= 14,575

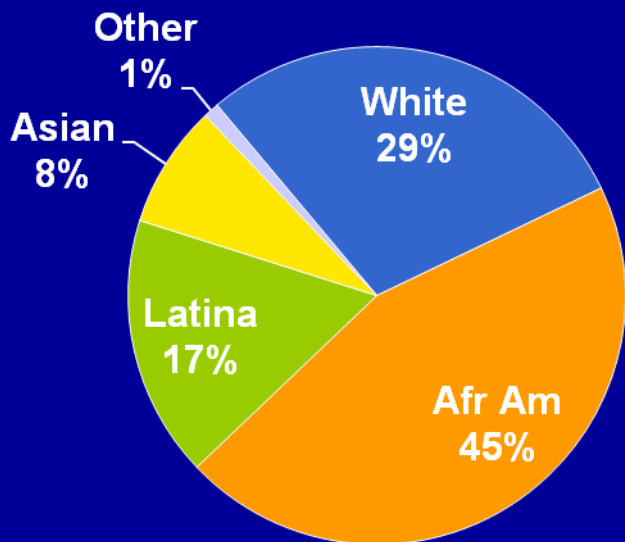


San Francisco
Male Population

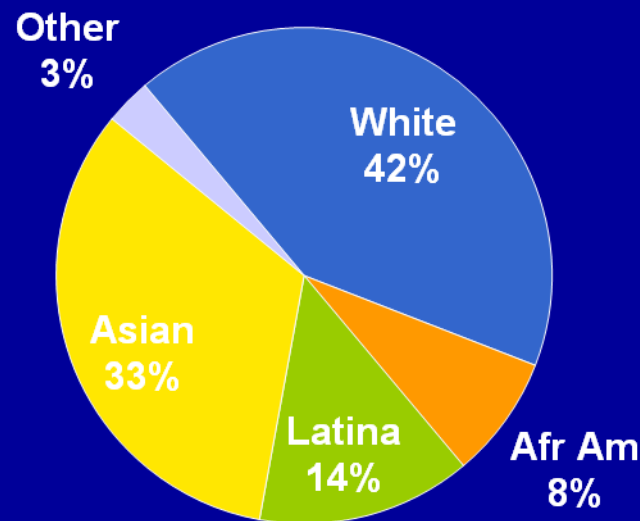


Race/Ethnicity of Women Living with HIV/AIDS Compared to the General Population of San Francisco, December 31, 2009

Female HIV/AIDS Cases
N= 918

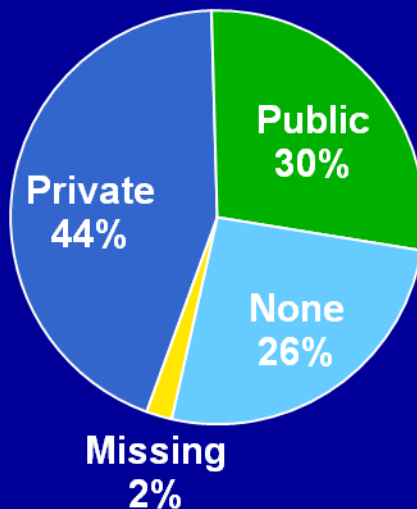
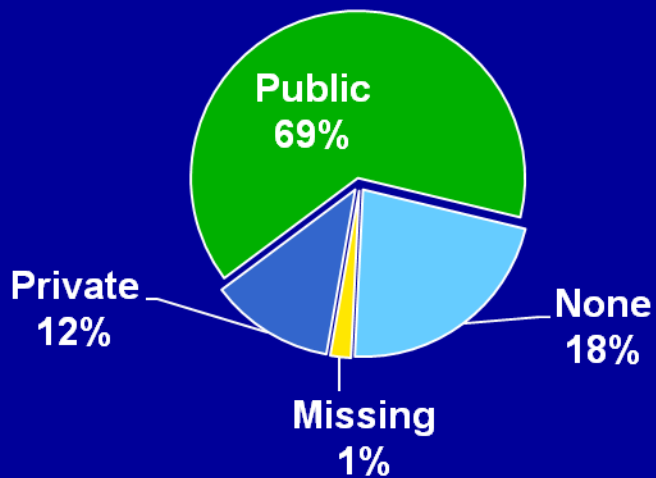


San Francisco
Female Population



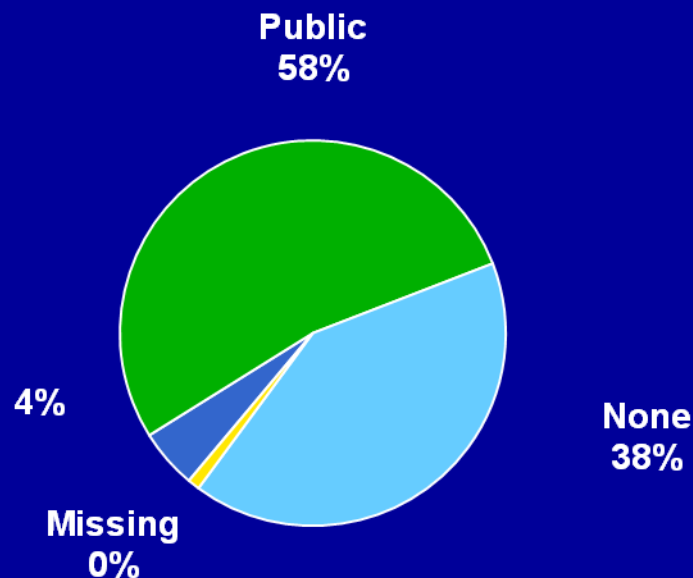
Insurance Status by Gender Among Persons Diagnosed with AIDS, 2004-2009

Female N= 197

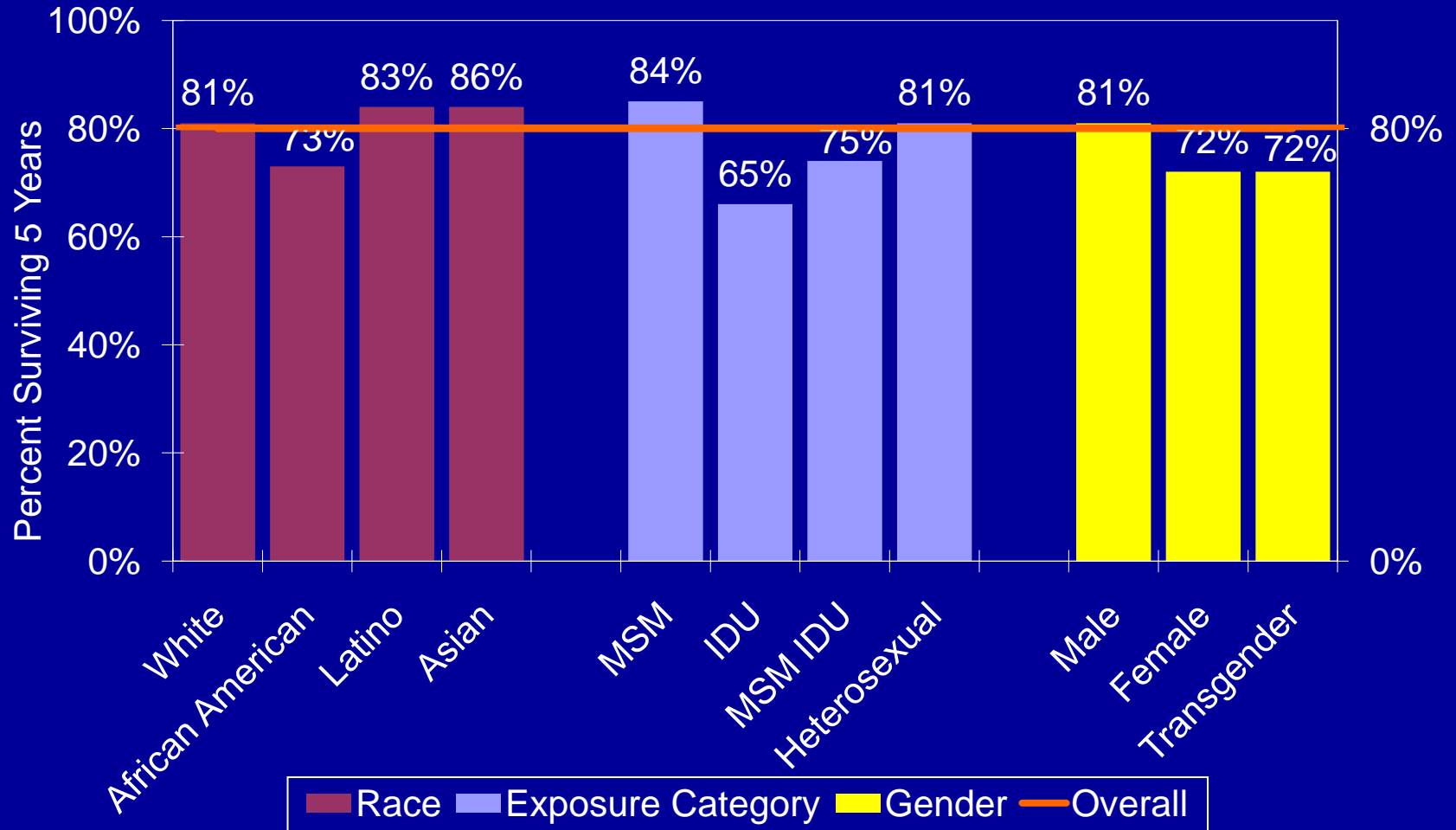


Male N= 2,170

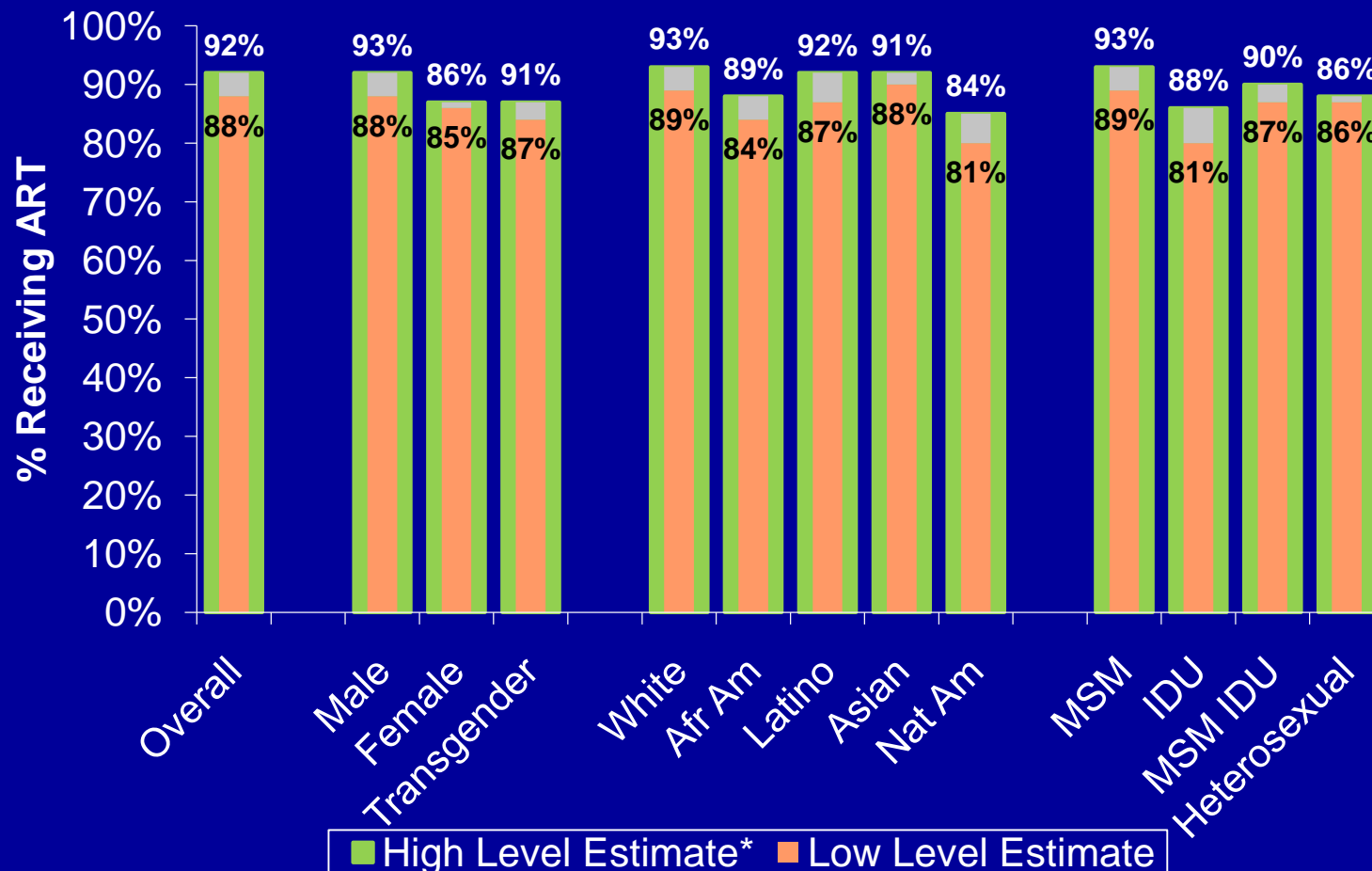
Transgender N= 69



Proportion surviving five years for persons diagnosed with AIDS between 1996 and 2009 by race/ethnicity, exposure category, and gender, San Francisco

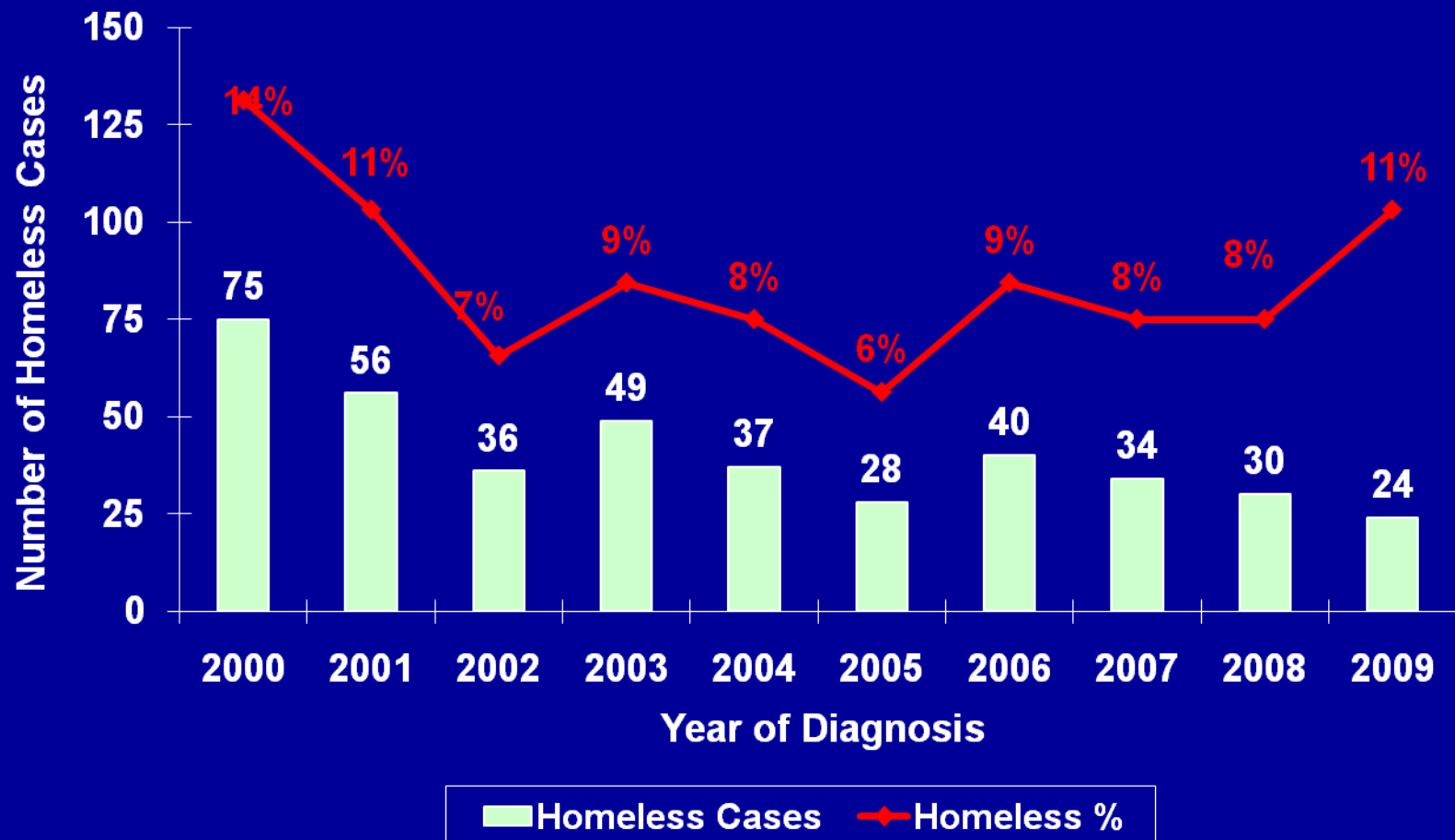


Estimate of antiretroviral therapy use among persons living with AIDS by gender, race/ethnicity, and exposure category, December 2009, San Francisco



* Top value of percentage (including the gray area) indicates the proportion of ART use after excluding persons who were lost-to-follow-up.

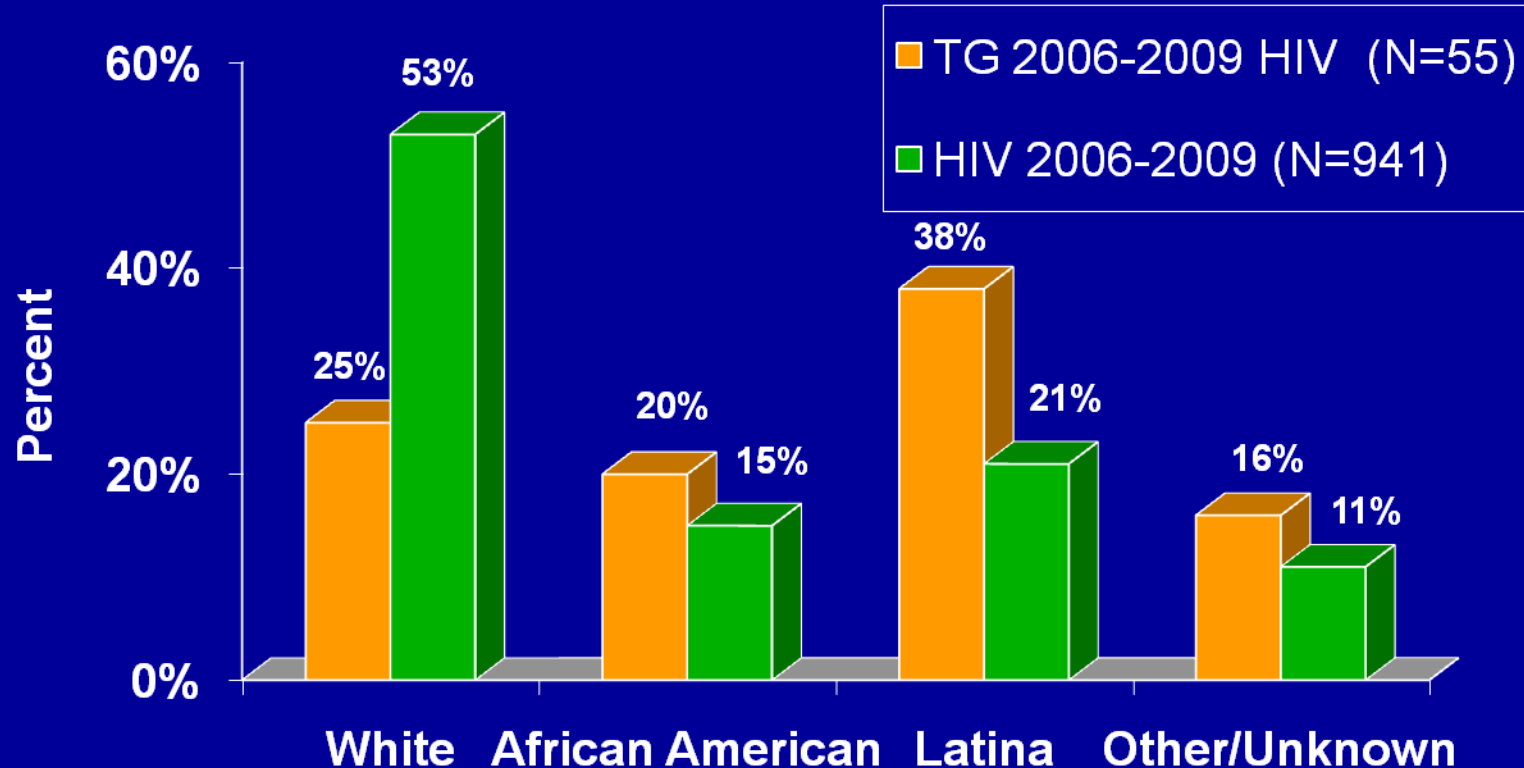
Trends in the Percent of AIDS Cases Who Were Homeless at Time of Diagnosis,



Characteristics of Homeless HIV/AIDS Cases

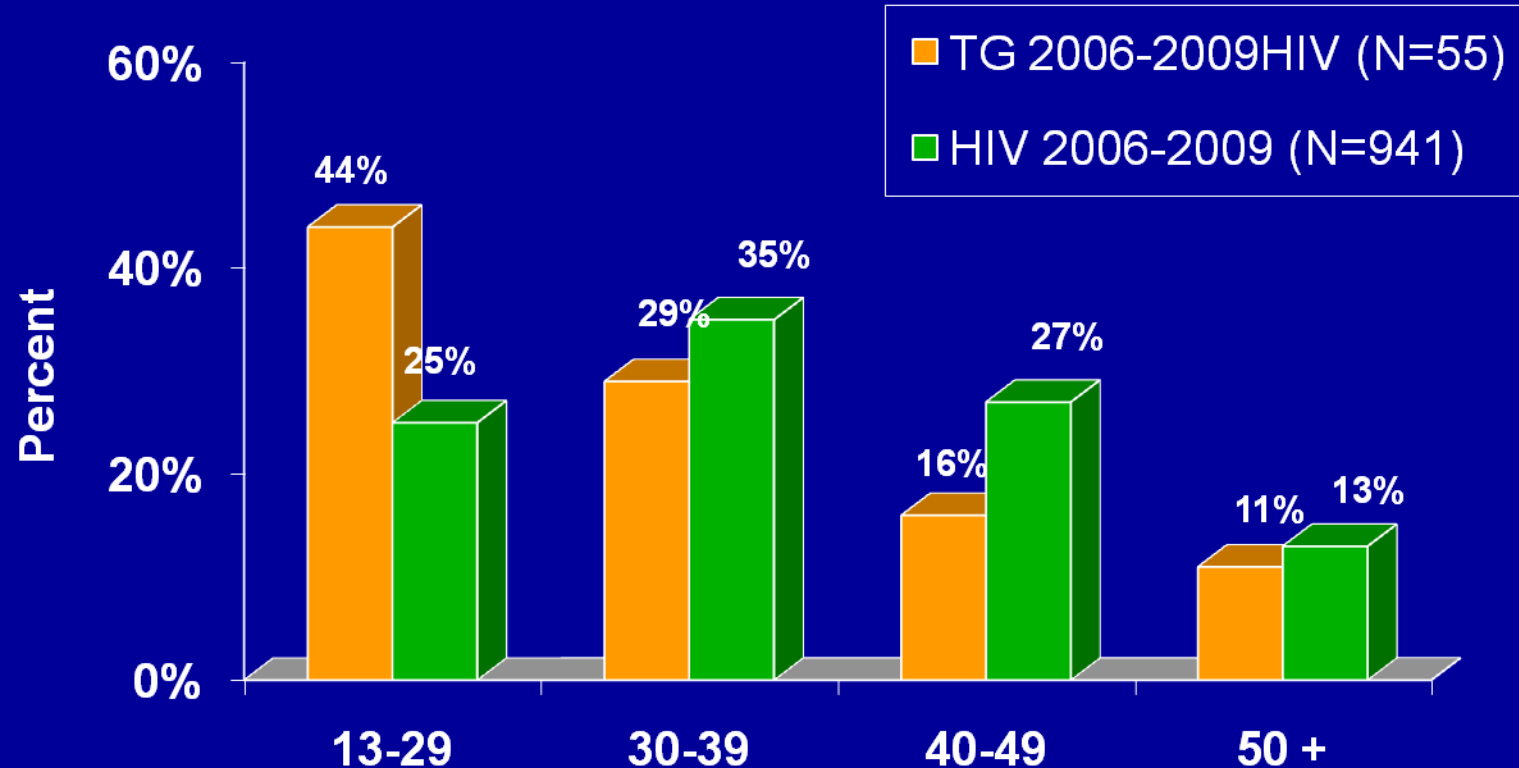
- Homeless HIV/AIDS cases reported 2002 -2008 were more likely to be women, African American, and injection drug users
- Homeless HIV cases were younger at diagnosis, while age of homeless AIDS cases was similar to that of all AIDS cases.
- A recent analysis shows that receiving health department funded housing dramatically reduced the risk of death for homeless persons with AIDS

Characteristics of Male-to-Female Transgender and HIV Cases, Diagnosed 2006-2009



* There are fewer than 5 female-to-male transgender HIV/AIDS cases.

Characteristics of Male-to-Female Transgender and HIV Cases, Diagnosed 2006-2009



* There are fewer than 5 female-to-male transgender HIV/AIDS cases.

Characteristics of People Living with HIV/AIDS

San Francisco EMA 2008

	San Mateo	Marin	San Francisco
Gender			
Male	83%	91%	92%
Female	17%	7%	6%
Transgender	<1%	2%	2%
Race/Ethnicity			
White	52%	56%	64%
African-American	17%	25%	14%
Latino	23%	16%	15%
Asian/Pacific Islander	7%	2%	5%
Risk			
MSM	56%	46%	73%
MSM-IDU	6%	13%	13%
IDU	16%	23%	8%
Heterosexual	12%	12%	3%

Estimated Number and Percent of PLWH/A Not in Care San Francisco EMA, July 2006-June 2007

	Total number	Number not in care	Percent not in care
Persons Living with AIDS	11,476	1,186	10%
Persons Living with HIV, <u>aware</u>	10,178	3,536	35%
Persons Living with HIV/AIDS	21,654	4,722	22%

* Care markers: CD4 and viral load testing or receiving antiretroviral therapy.

** Data sources: lab reporting, medical record review, MediCal data, ADAP. ARIES.

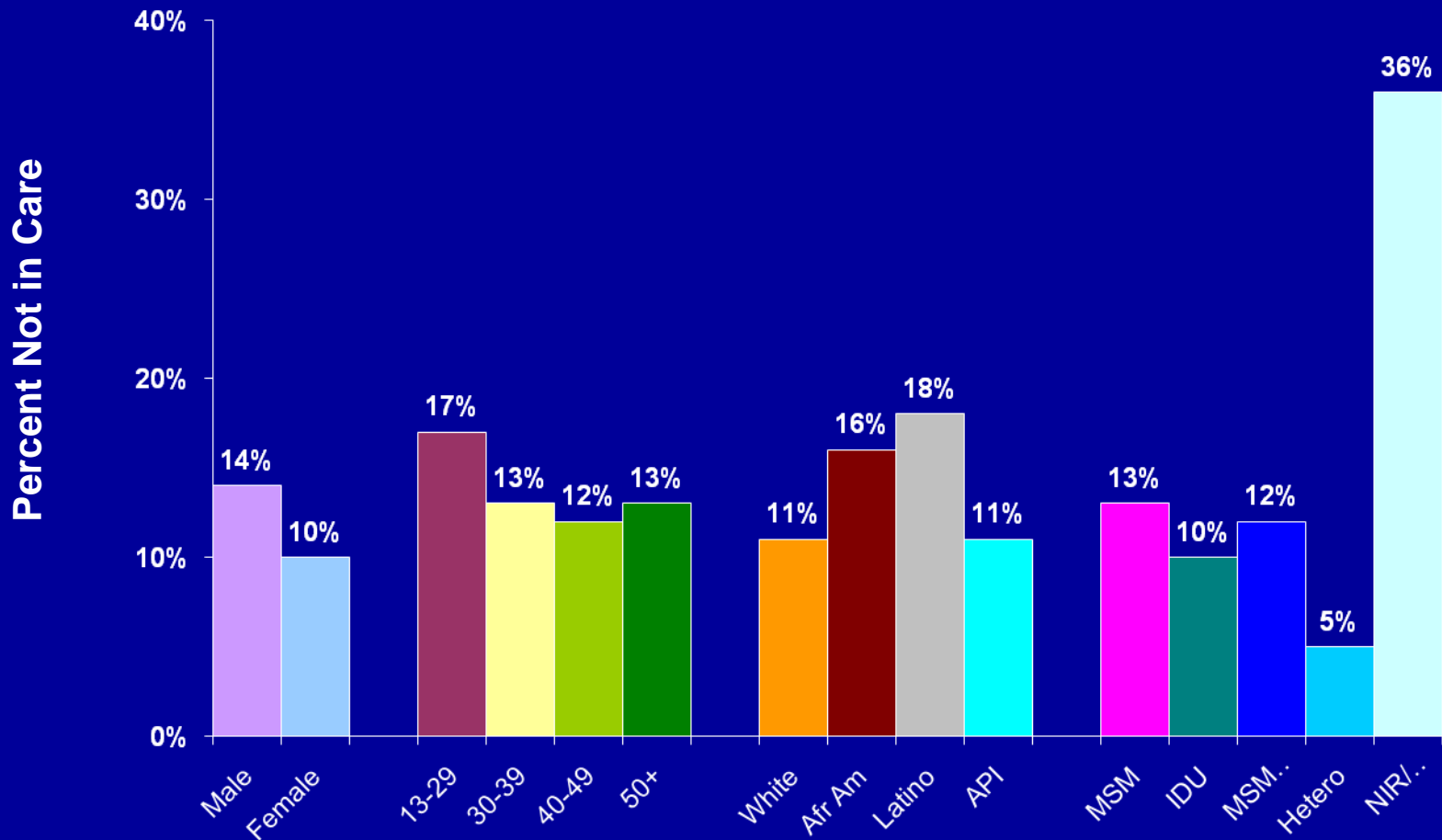
Estimated Number and Percent of PLWH/A Not in Care San Francisco County, July 2007-June 2008

	Total number	Number not in care	Percent not in care
Persons Living with AIDS	9,740	860	9%
Persons Living with HIV, <u>aware</u>	10,698	4,061	38%
Persons Living with HIV/AIDS	20,438	4,921	24%

* Care markers: CD4 and viral load testing or receiving antiretroviral therapy.

** Data sources: lab reporting, medical record review, MediCal data, ADAP.

Estimated Percent of PLWH/A Not in Care San Francisco, July 2006-June 2008



Do we have late testers in SF?

- SFDPH began tracking late testing in ~2000.
- Prior to HIV case reporting, SFDPH measured late testing as the proportion of persons reported with AIDS whose HIV diagnosis occurred within the 12 months prior to AIDS.
- Closer look at persons who reported a negative HIV test less than 5 years from HIV diagnosis

Why did SF have nearly 700 late testers in 2003-2006?

- We went to the source for our answers!
- Using the old definition we found 26% late testers
- Prior negative test, proportion dropped to 9%
- Reason for not testing: fear

Medical Monitoring Project

- National CDC funded study
- Interview and extensive chart abstraction for HIV patients in care
- Finished third cycle
- Collaborate with CA to combine and analyze data

Conclusions

- Homeless HIV infected persons are more likely to be female, African American, IDU, and have worse survival
- Persons over 50 years old make up 42% of persons living with HIV/AIDS; and the rate continues to increase by about a 10% each year
- Incarcerated HIV infected persons are more likely to be female, African American, and IDU
- People of color, younger persons, heterosexuals and those without an identifiable risk, are less likely to be tested and in care