

# Status of the HIV/AIDS Epidemic San Francisco

**Applied Research, Community  
Health, Epidemiology and  
Surveillance Branch**

**Presented to HIV Health Services Planning Council  
July 2014**



# **HIV/AIDS Surveillance System**

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- ▶ HIV and AIDS (HIV infection stage 3) mandate reporting to local health department
- ▶ Residence at HIV/AIDS diagnosis
- ▶ Dual reporting system
- ▶ April 2006: HIV reporting regulations include all confirmed HIV and HIV viral loads
- ▶ January 2009: CD4 counts reportable

# HIV/AIDS Surveillance System

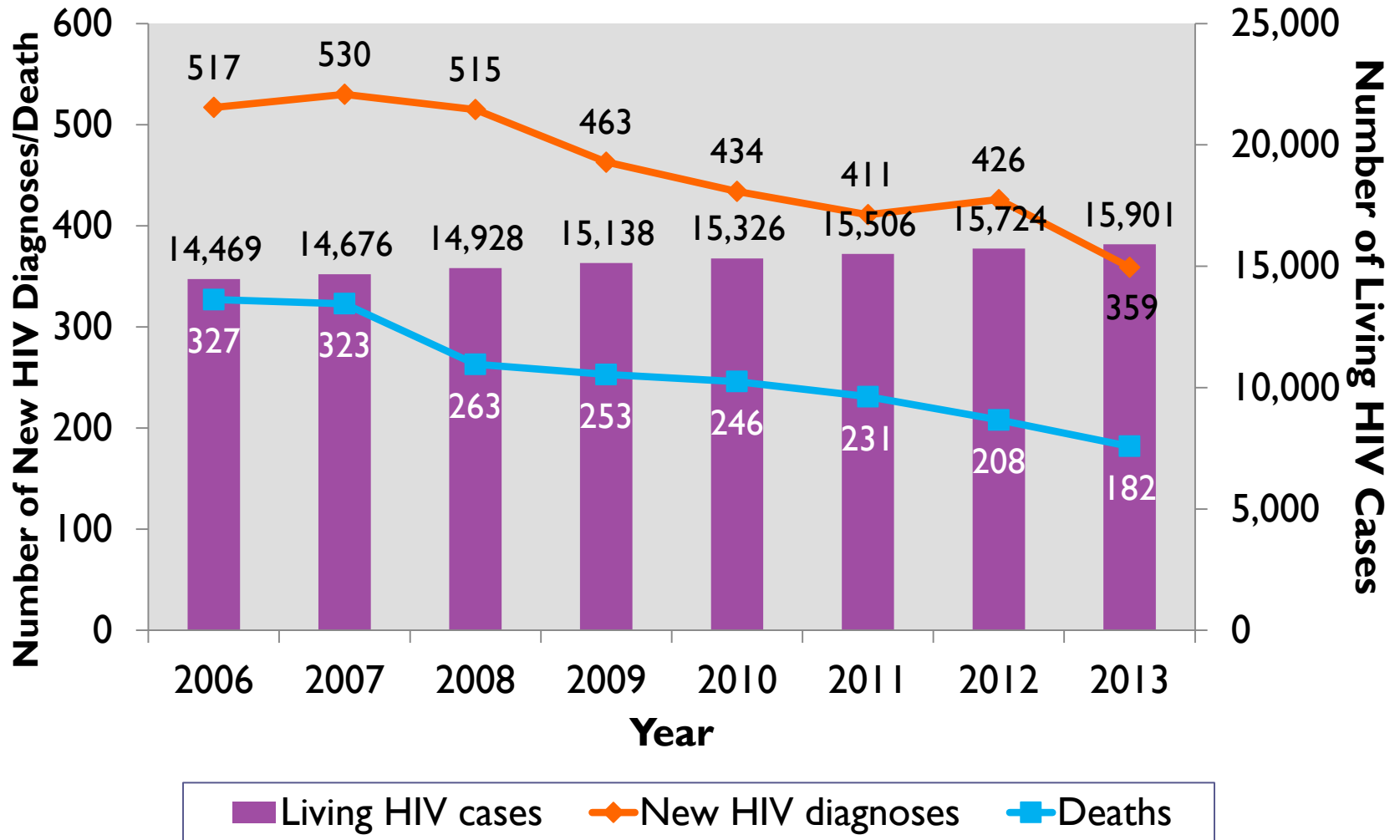
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- ▶ **Predominately active system**
  - ▶ Health department staff visit medical facilities, use a variety of data sources (e.g. lab and pathology reports, ICD codes), review medical records and complete case report form
- ▶ **Collect follow up information 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

# New HIV diagnoses, deaths and prevalence, 2006-2013 San Francisco



# Characteristics of Persons Living with HIV, December 31, 2013 and 2013 New Diagnoses

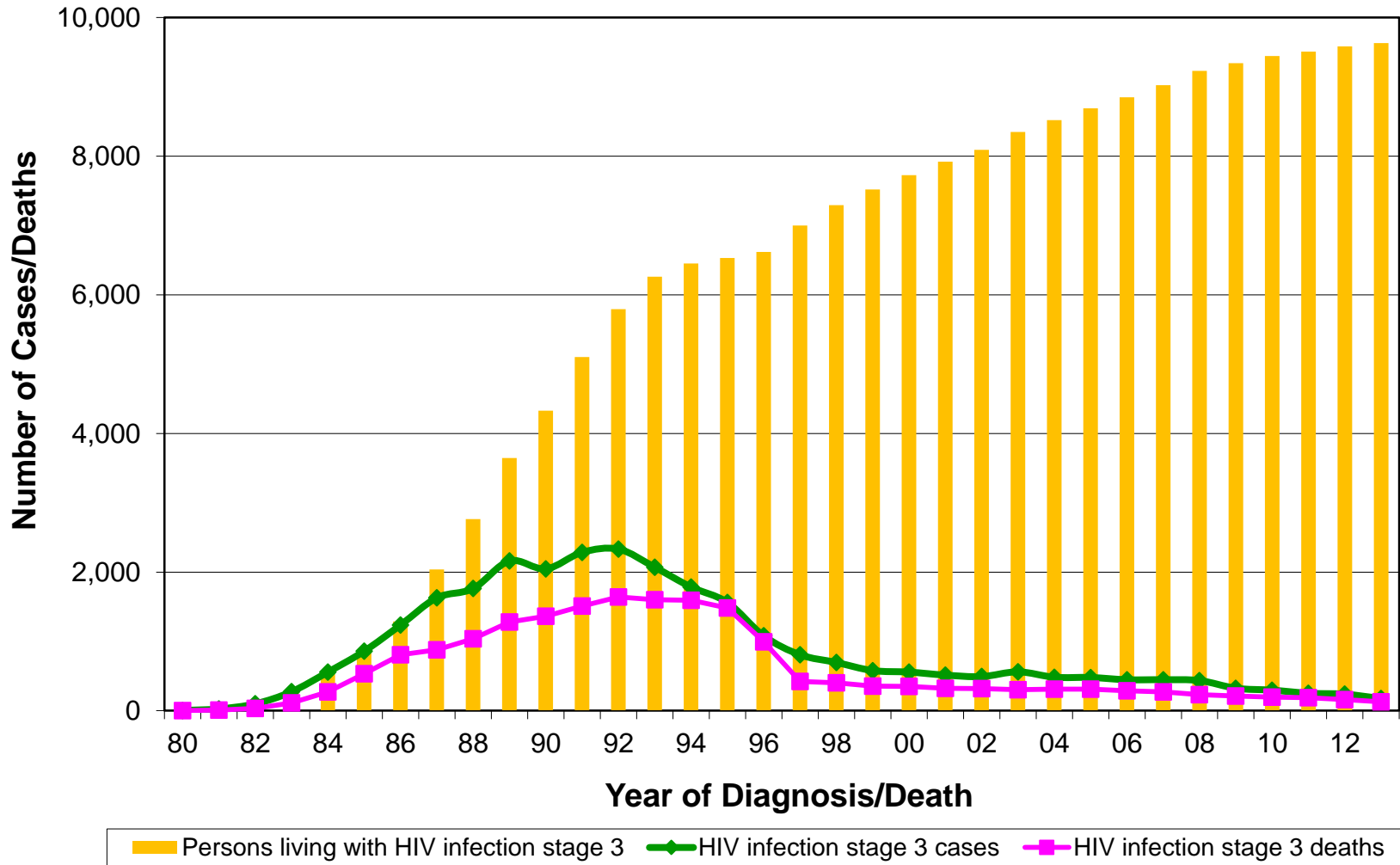
	PLWH (N=15,901)		HIV DX in 2013 (N=359)	
	Number	%	Number	%
<b>Gender</b>				
Male	14,638	92%	327	91%
Female	906	6%	23	6%
Transgender	357	2%	9	3%
<b>Risk</b>				
MSM	11,708	74%	275	77%
MSM PWID	2,380	15%	34	9%
PWID	972	6%	22	6%
Heterosexual	519	3%	14	4%
Other/Unidentified	322	2%	14	4%



# Characteristics of Persons Living with HIV, December 31, 2013 and 2013 New Diagnoses

	PLWH (N=15,901)		HIV DX in 2013 (N=359)	
	Number	%	Number	%
<b>Race/Ethnicity</b>				
White	9,760	61%	165	46%
African American	2,038	13%	44	12%
Latino	2,795	18%	88	25%
API/Native Amer.	894	6%	52	14%
<b>Current Age (as of 12/2013)</b>				
< 30 years	604	4%	122	34%
30-39 years	1,870	12%	105	29%
40-49 years	4,777	30%	88	25%
50-59 years	5,600	35%	32	9%
60-64 years	1,689	11%	9	3%
65+ years	1,361	9%	3	1%

# HIV infection stage 3 cases, deaths, and prevalence, 1980-2013, San Francisco





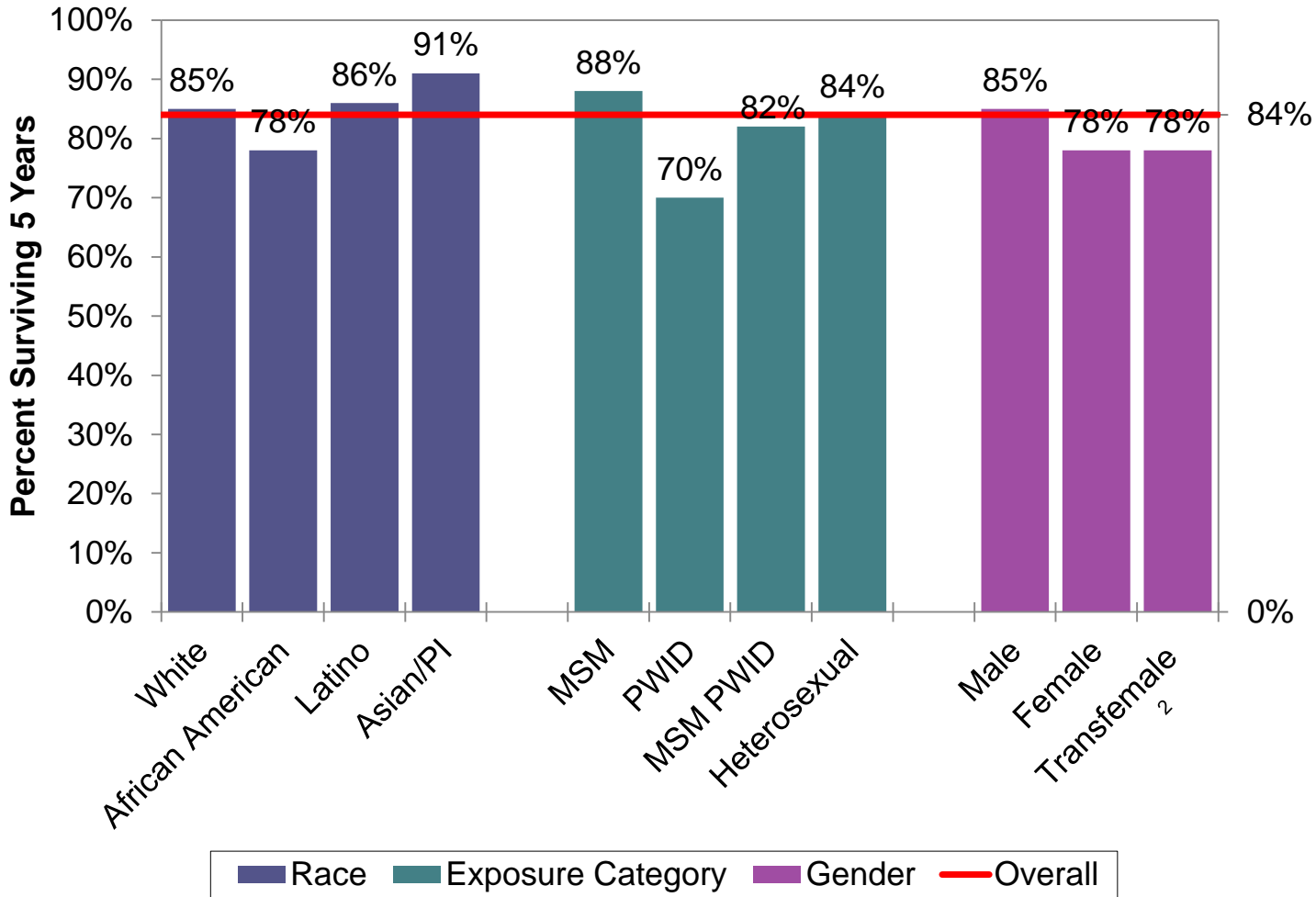
# Underlying Causes of Death Among Persons with HIV Infection, 2003-2010

Underlying Cause of Death	2003-2006 N=1,300	2007-2010 N=1,060
	Number (%)	Number (%)
HIV	821 (63.2%)	511 (48.2%)
Non-AIDS cancer	89 ( 6.6%)	119 (11.2%)
Drug overdose	46 ( 3.5%)	96 ( 9.1%)
Heart disease	87 ( 6.7%)	85 ( 8.0%)
Suicide	34 ( 2.6%)	46 ( 4.3%)
Liver disease	27 ( 2.1%)	24 ( 2.3%)

# Underlying Causes of Death by Age Among Persons with HIV Infection, 2007-2010

	<b>HIV</b>	<b>Non-AIDS cancer</b>	<b>Heart Disease</b>	<b>Drug Overdose</b>	<b>Suicide</b>	<b>Liver Disease</b>
Age at Death (years)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
0-29	10 (2)	0 (0)	1 (1)	4 (4)	2 (4)	0 (0)
30-39	44 (9)	4 (3)	4 (5)	17 (17)	6 (13)	1 (4)
40-49	180 (35)	20 (17)	12 (14)	34 (35)	15 (33)	11 (46)
50-59	184 (36)	46 (39)	38 (44)	35 (36)	15 (33)	8 (33)
60-64	54 (11)	24 (20)	16 (18)	6 (6)	3 (7)	2 (8)
65+	39 (8)	25 (21)	16 (18)	0 (0)	5 (11)	2 (8)

# Five-year survival probability<sup>1</sup> after AIDS for persons diagnosed between 2001 and 2013 by race/ethnicity, exposure category, and gender, San Francisco



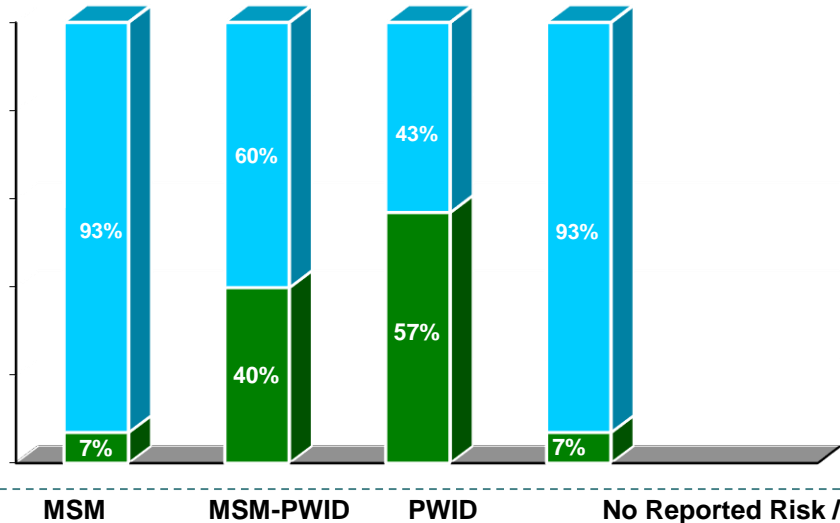
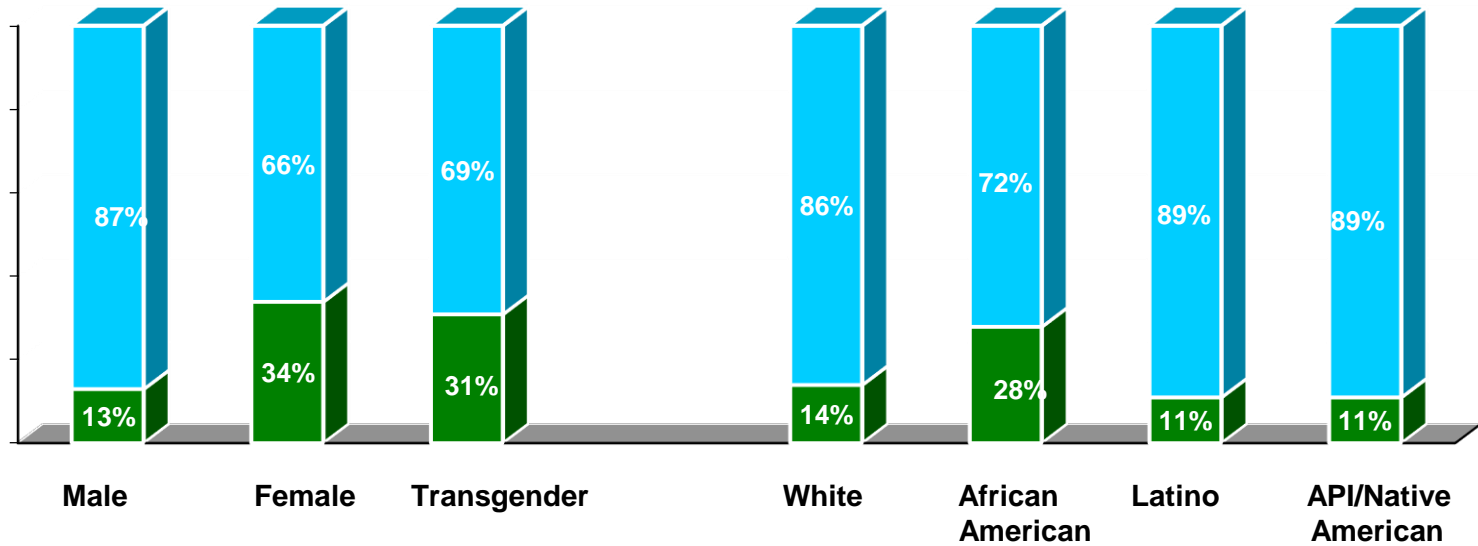
<sup>1</sup> Calculated from Kaplan-Meier method.

<sup>2</sup> Transfemale data include all transgender cases. Transmale data are not released separately due to potential small population size.

## Characteristics of Persons Living with HIV Seen in San Francisco Jails, as of December 2013

	PLWH (N= 15,901)	PLWH with history of jail (N= 1,082 )
<b>Gender</b>		
Male	92%	76%
Female	6%	16%
Transgender	2%	8%
<b>Race/Ethnicity</b>		
White	61%	37%
African-American	13%	42%
Latino	18%	16%
API/Native American	7%	3%
<b>Risk</b>		
MSM	74%	21%
MSM-PWID	15%	42%
PWID	6%	31%
Other/ No Reported Risk	5%	6%

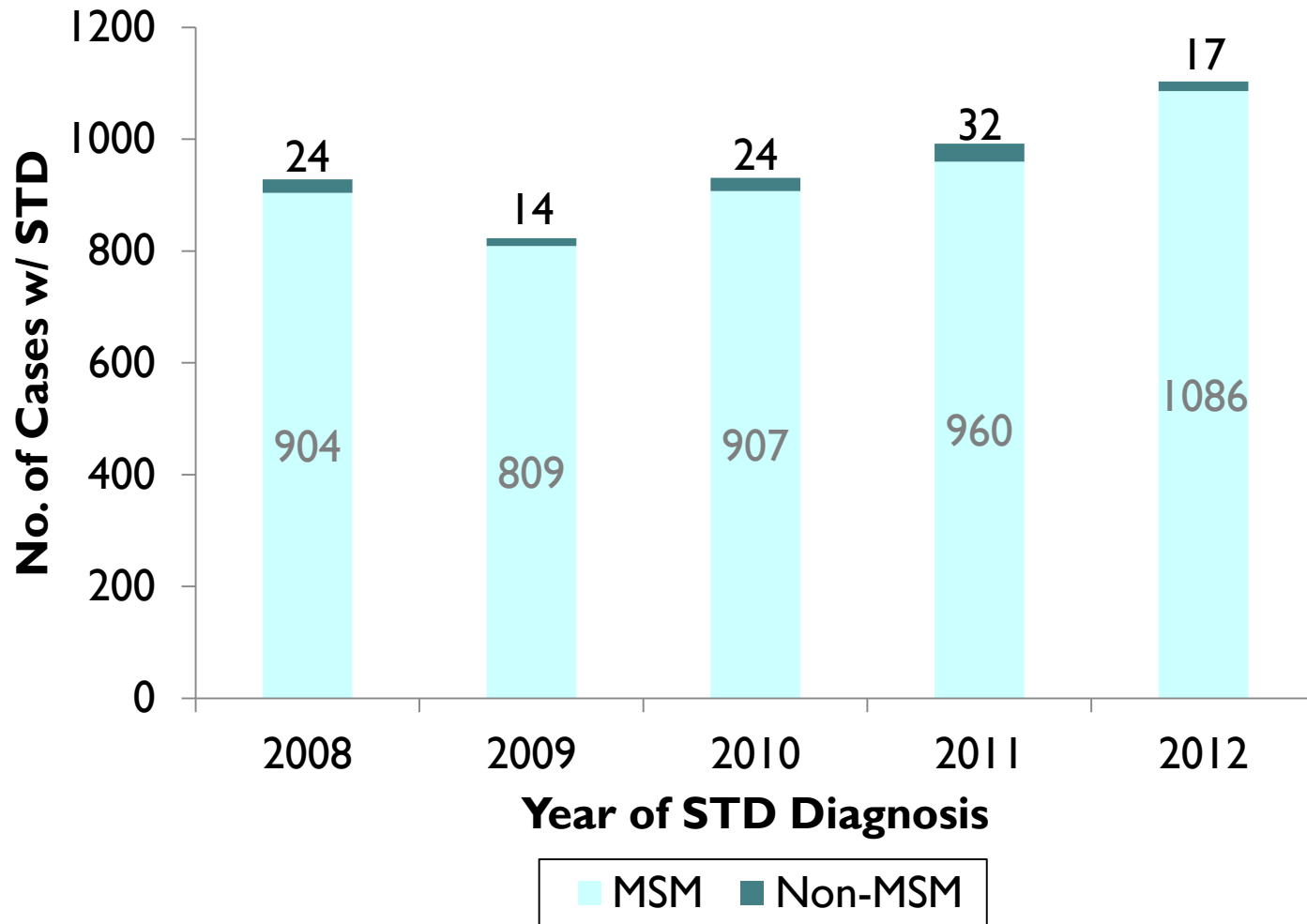
# Living HIV Cases Co-Infected with Hepatitis C, as of December 31, 2013



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

## Number of HIV cases diagnosed with an STD by year of STD diagnosis, 2008-2012, San Francisco

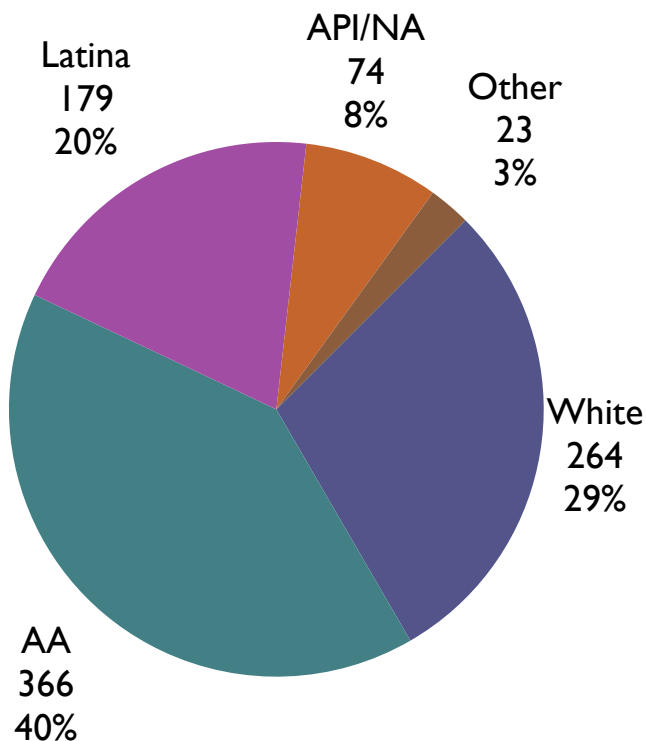
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# Race/Ethnicity of Female Living with HIV Compared to the General Population of San Francisco, December 31, 2013

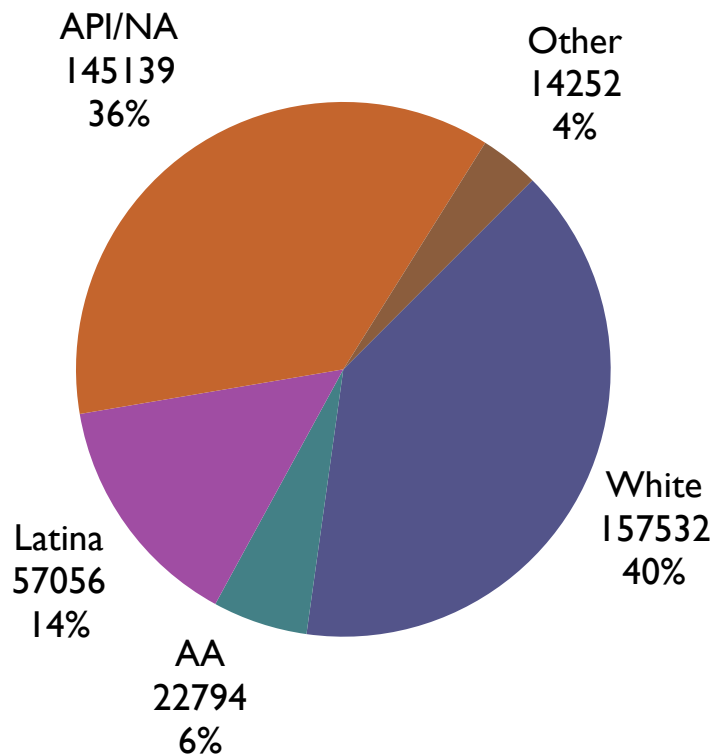
## Living Female HIV Cases

N= 906



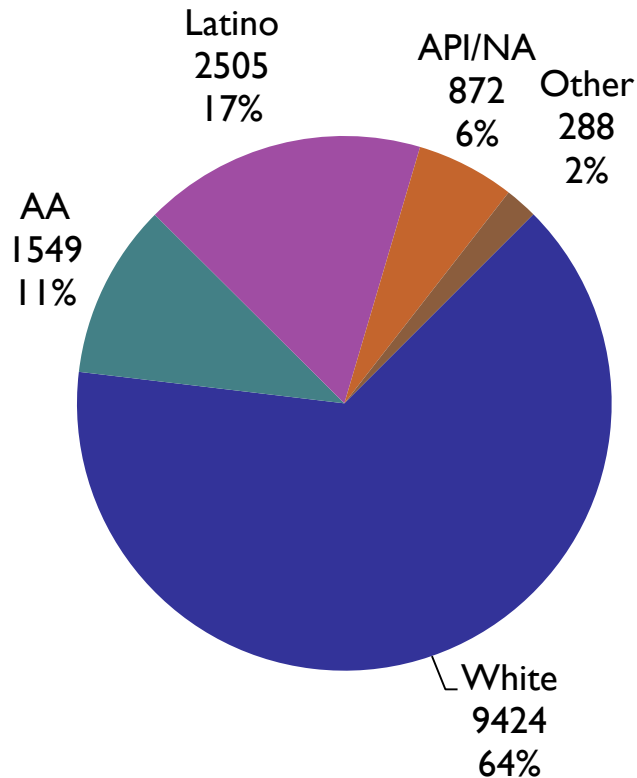
## San Francisco Female Population\*

N= 396,773

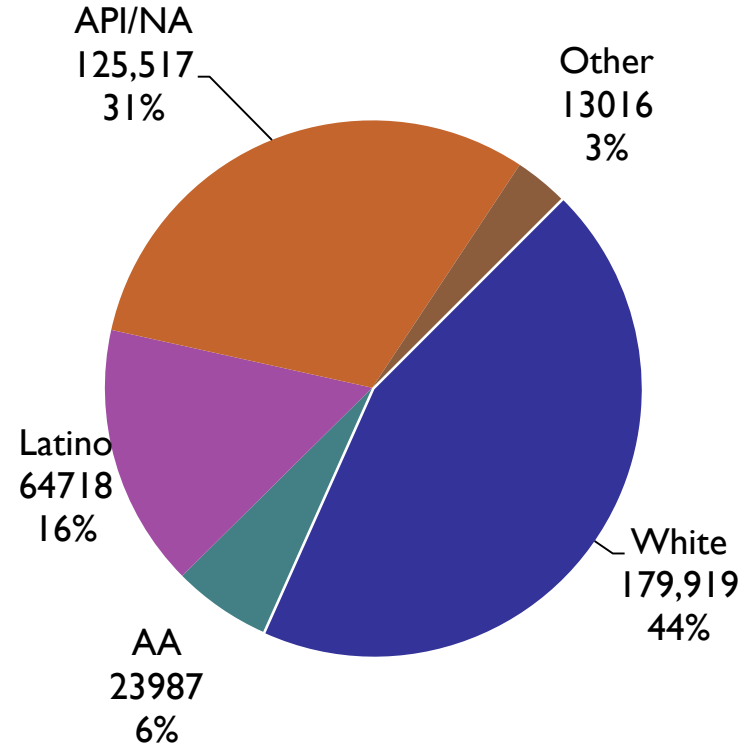


# Race/Ethnicity of Male Living with HIV Compared to the General Population of San Francisco, December 31, 2013

**Male HIV Cases**  
**N= 14,638**

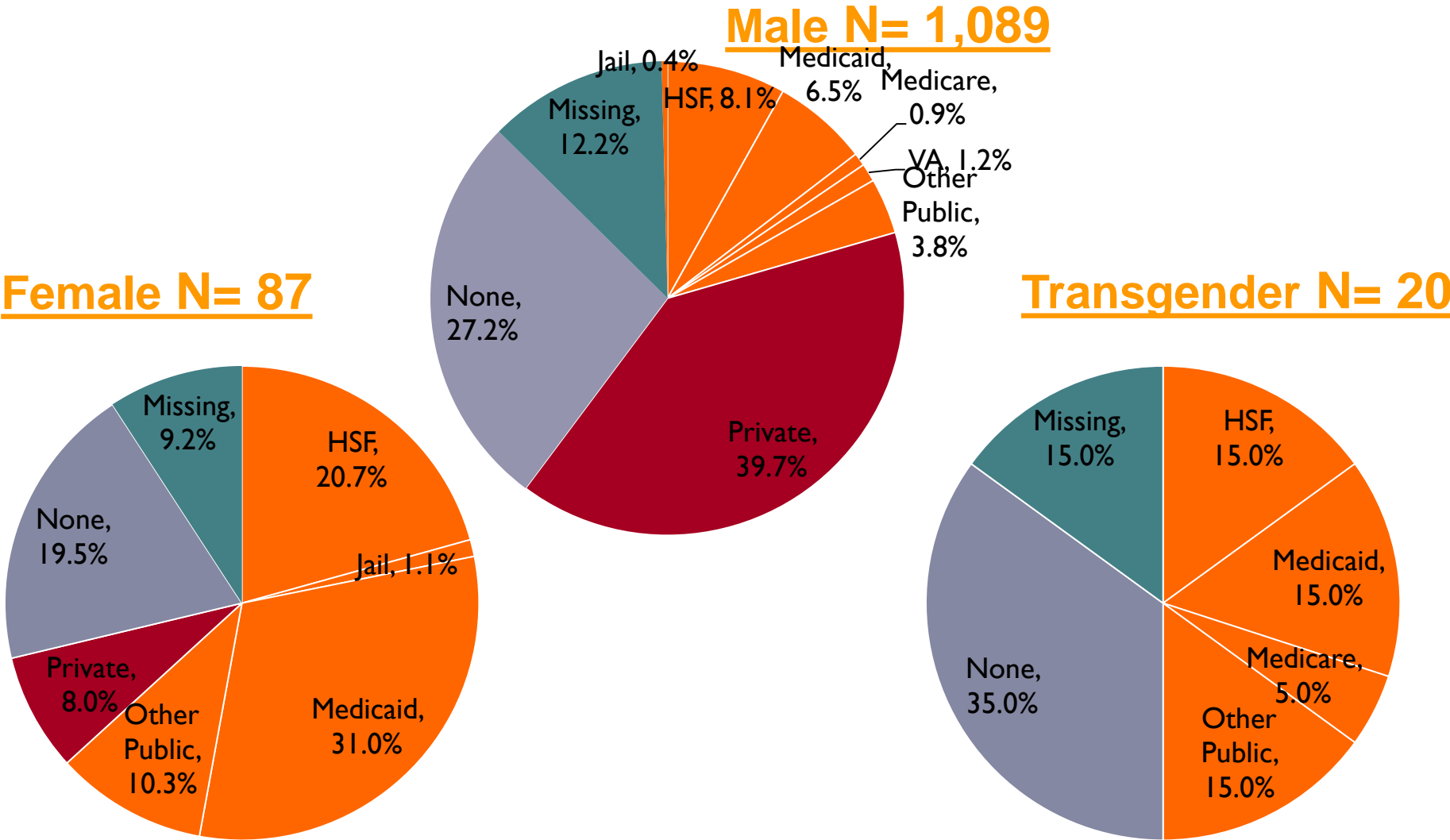


**San Francisco**  
**Male Population\***  
**N=407,157**



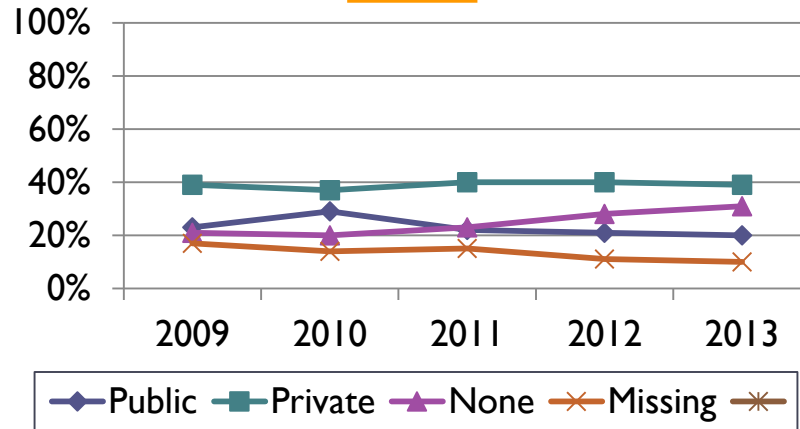


# HIV Cases by Gender and Health Coverage at Time of Initial HIV Diagnosis, 2011-2013

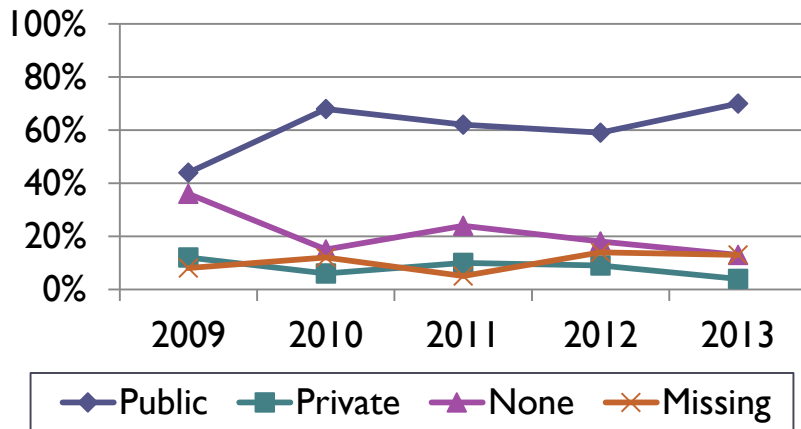


# Trends in Health Coverage at Time of HIV Diagnosis by Gender, 2009-2013, San Francisco

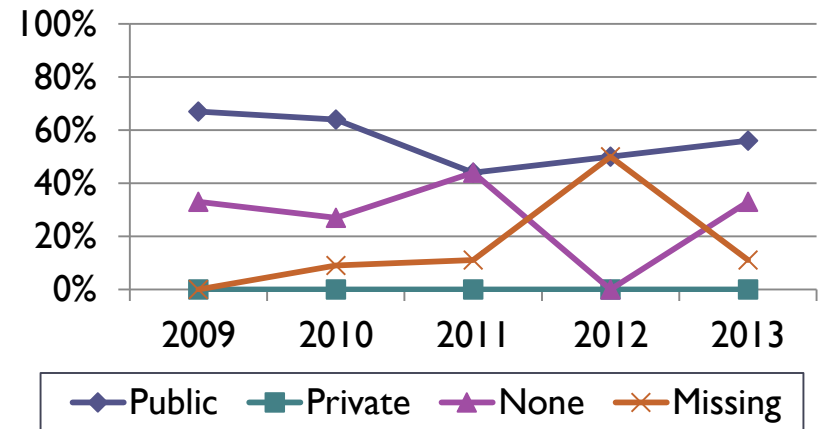
## Male



## Female

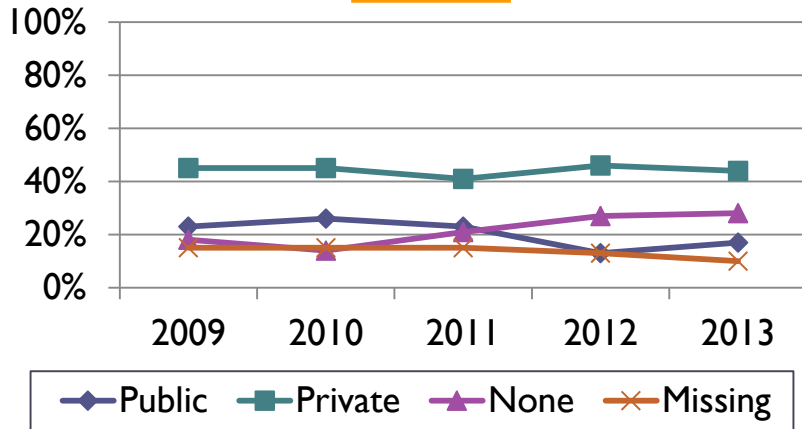


## Transgender

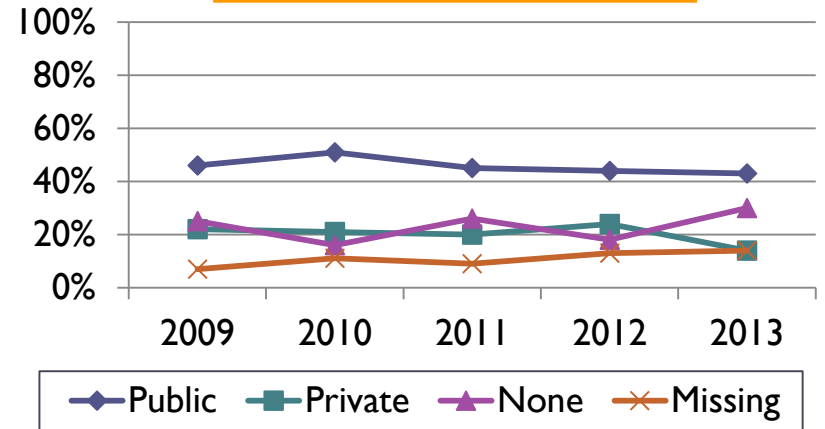


# Trends in Health Coverage at Time of HIV Diagnosis by Race/Ethnicity, 2009-2013, San Francisco

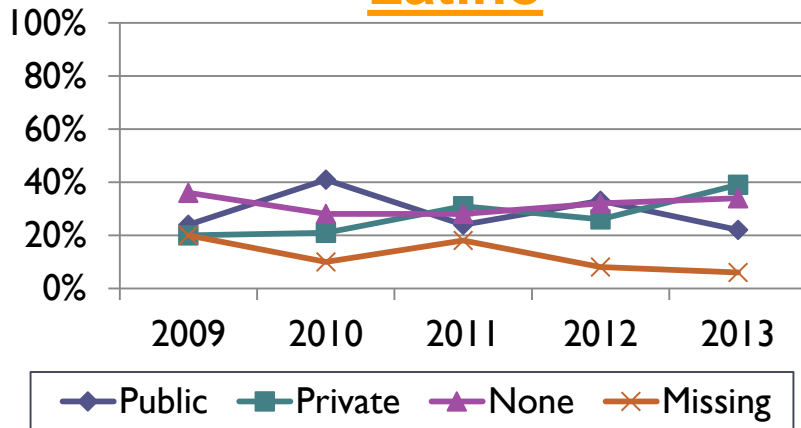
## White



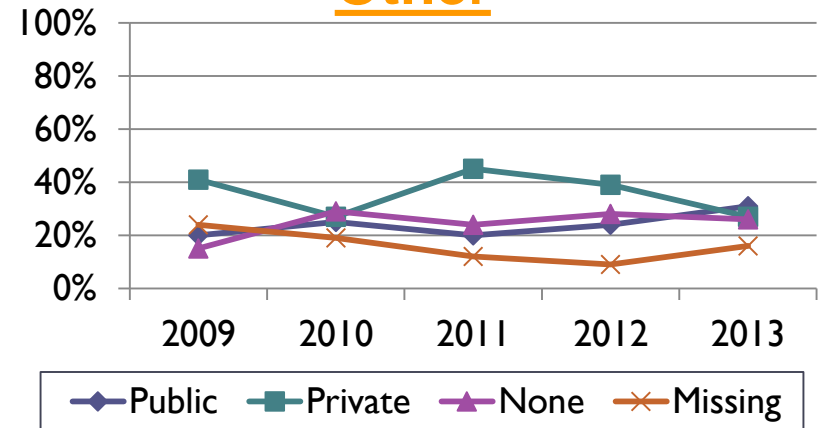
## African American



## Latino

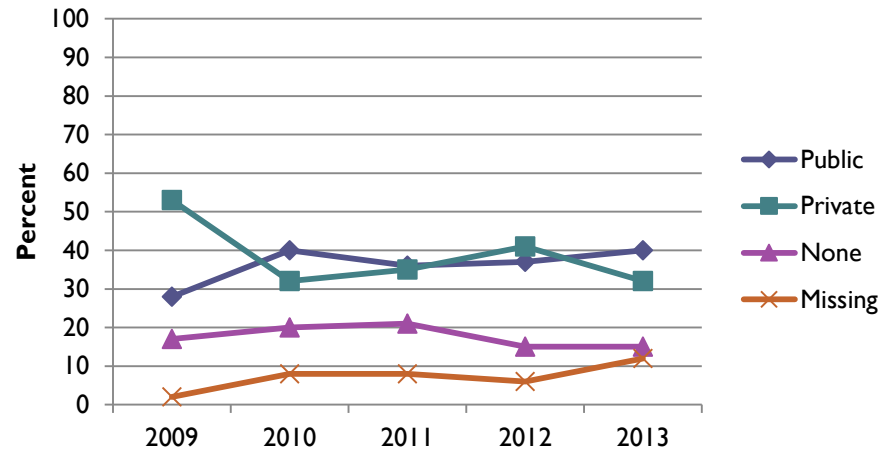


## Other

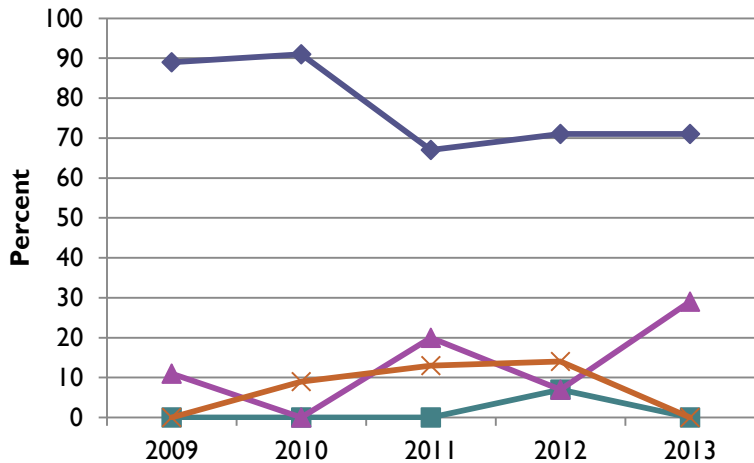


# Trends in Health Coverage at Time of AIDS Diagnosis by Gender, 2009-2013, San Francisco

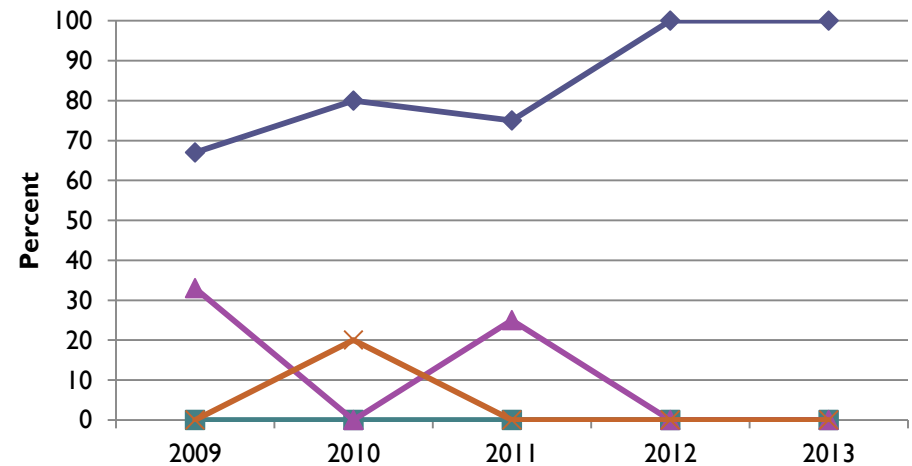
## Male



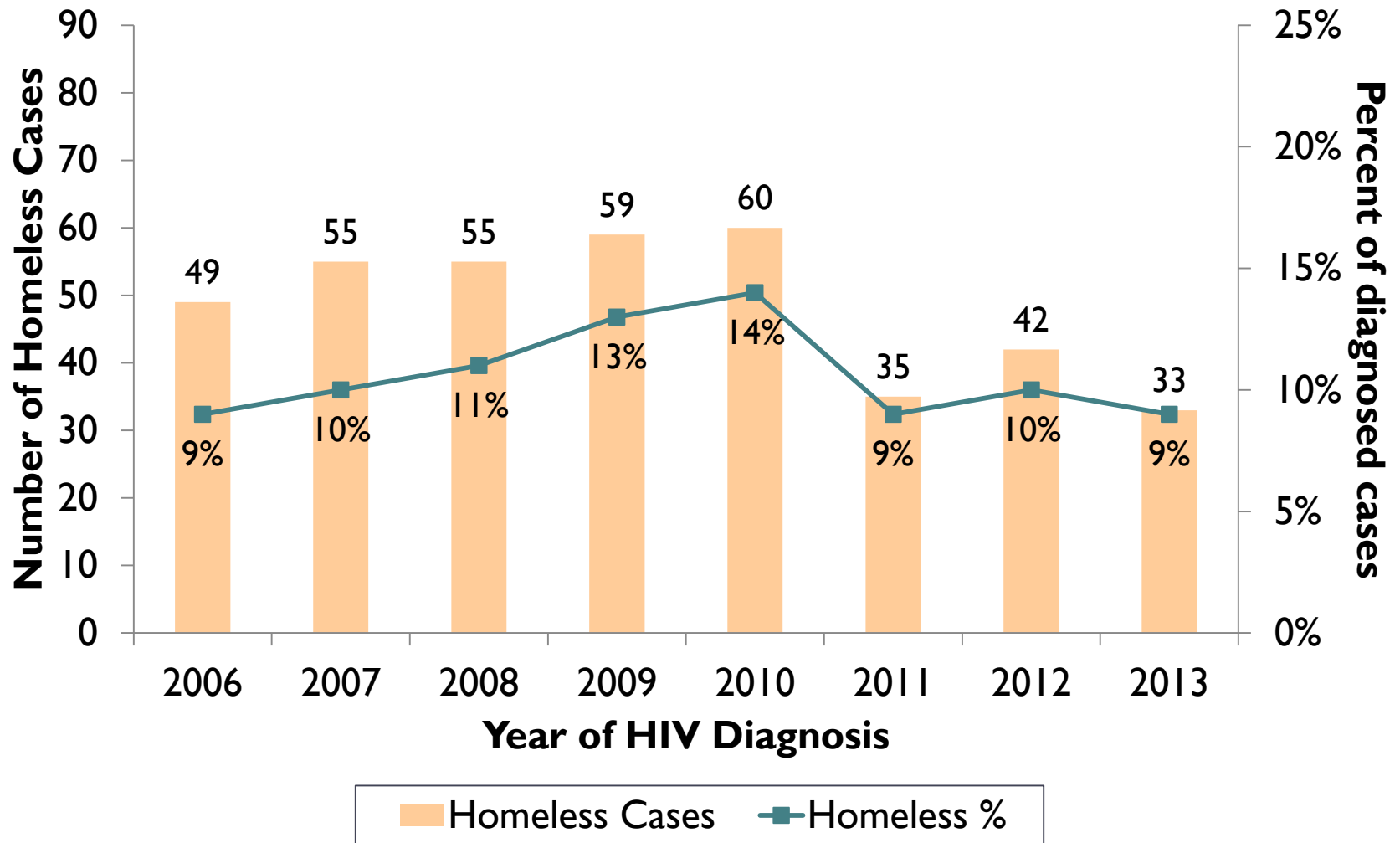
## Female



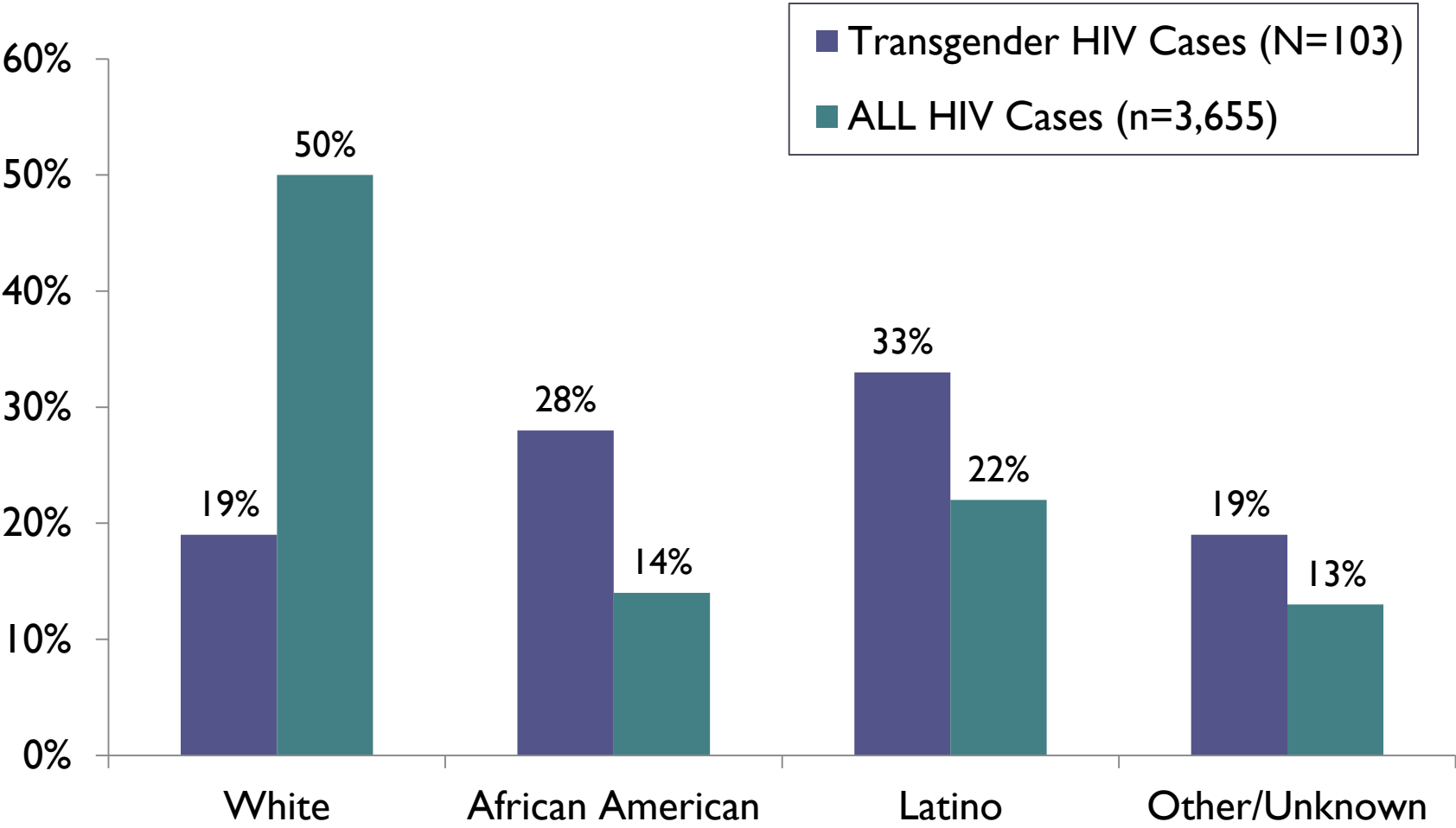
## Transgender



# Trends in Number and Percent of Diagnosed Cases Homeless at Time of Diagnosis, 2006-2013



# Characteristics of Transgender and HIV Cases, Diagnosed 2006-2013



# Characteristics of People Living with HIV/AIDS, San Francisco EMA as of 12/31/12

	San Mateo	Marin	San Francisco
<b>Gender</b>			
Male	83.1%	87.0%	92.0%
Female	16.2%	12.1%	5.7%
Transgender	0.7%	0.9%	2.7%
<b>Race/Ethnicity</b>			
White	49.4%	73.0%	61.8%
African-American	13.5%	6.6%	12.8%
Latino	26.1%	16.2%	17.3%
Asian/Pac Islander	10.0%	2.7%	5.4%
<b>Risk</b>			
MSM	59.2%	66.2%	73.6%
MSM-IDU	5.5%	8.9%	14.8%
IDU	11.4%	5.5%	6.2%
Heterosexual	12.1%	11.9%	3.2%

## Estimated Number and Percent of PLWH/A Not in Care San Francisco EMA, July 1, 2011 - June 30, 2012

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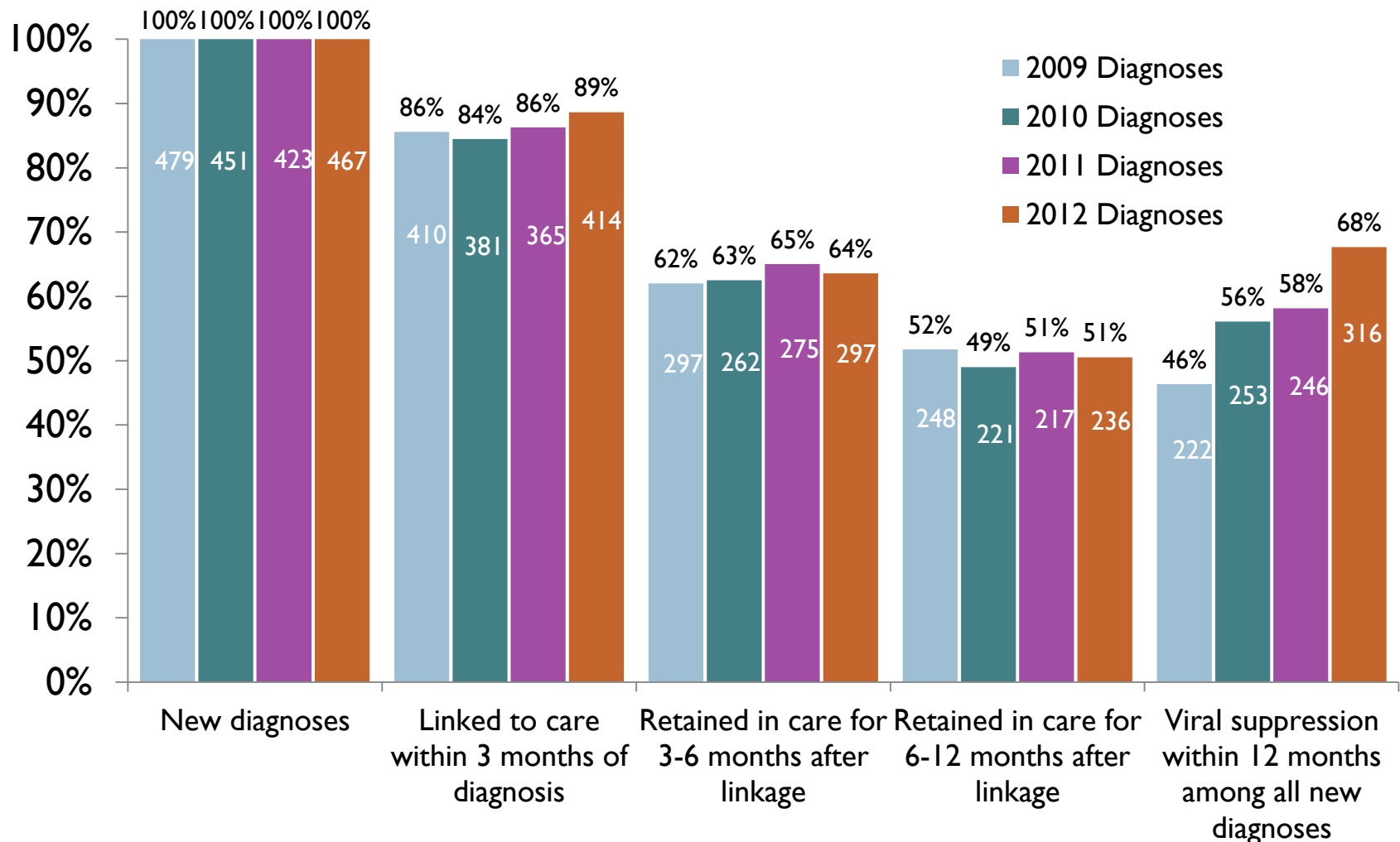
	<b>Total number</b>	<b>Number not in care</b>	<b>Percent not in care</b>
Persons Living with AIDS	12,541	1,041	8.3%
Persons Living with HIV, <u>aware</u>	8,250	1,461	17.7%
Persons Living with HIV/AIDS	20,791	2,502	12.0%

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

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



# Continuum of HIV care among persons diagnosed with HIV, 2009-2012, San Francisco



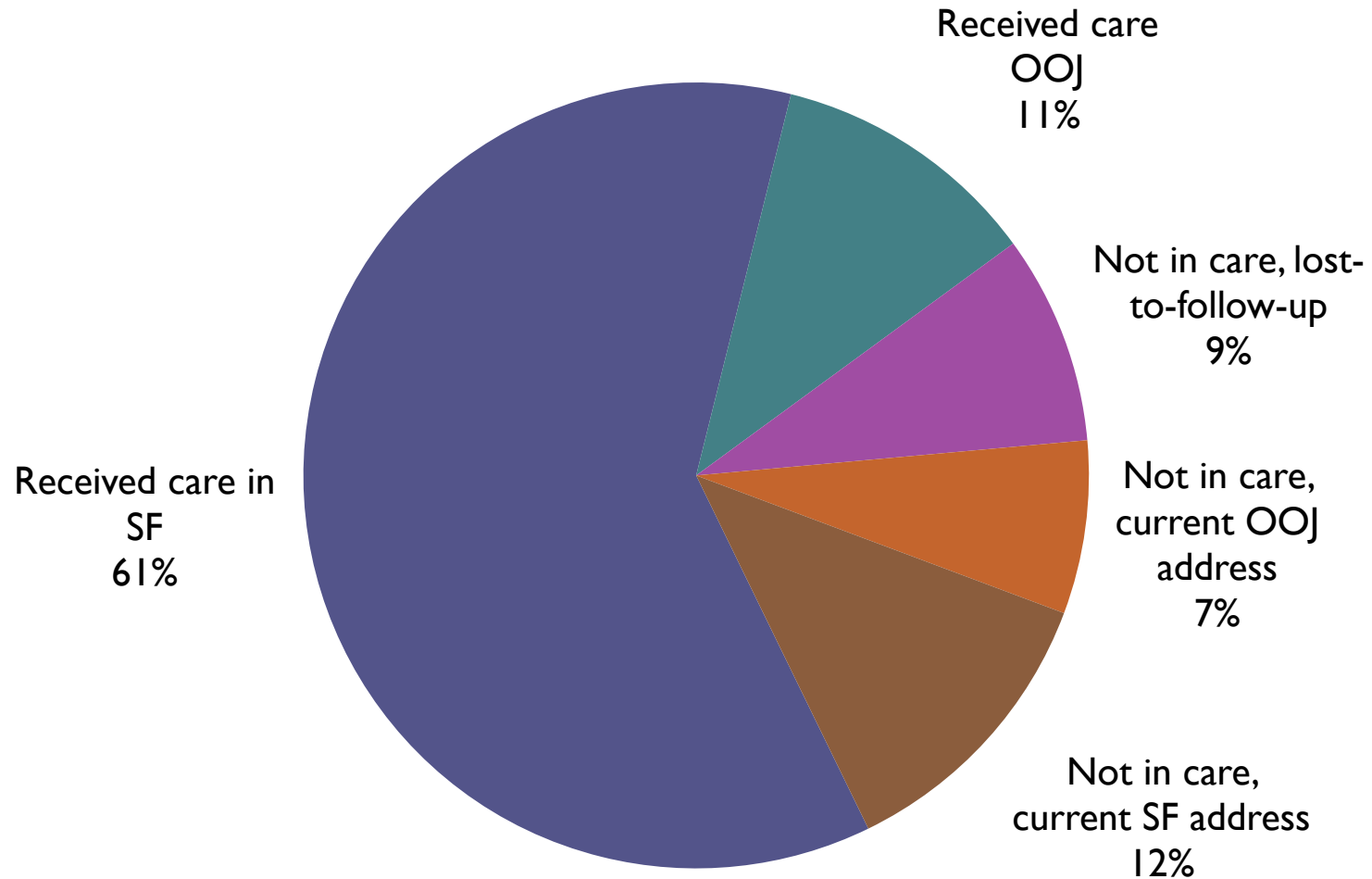
# HIV/AIDS Receiving Care in SF

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- ▶ Evaluated HIV laboratory tests performed in 2013 San Francisco
  - ▶ Among the 13,699 HIV infected person receiving care in San Francisco 3,869 (28%) were OOJ cases

# Living San Francisco HIV cases by care status and current residence status, 2013

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OOJ = Out of SF Jurisdiction

# QUESTIONS?

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