

Status of the HIV/AIDS Epidemic San Francisco

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

**Presented to HIV Health Services Planning Council
July 2015**



HIV/AIDS Surveillance System

- ▶ 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

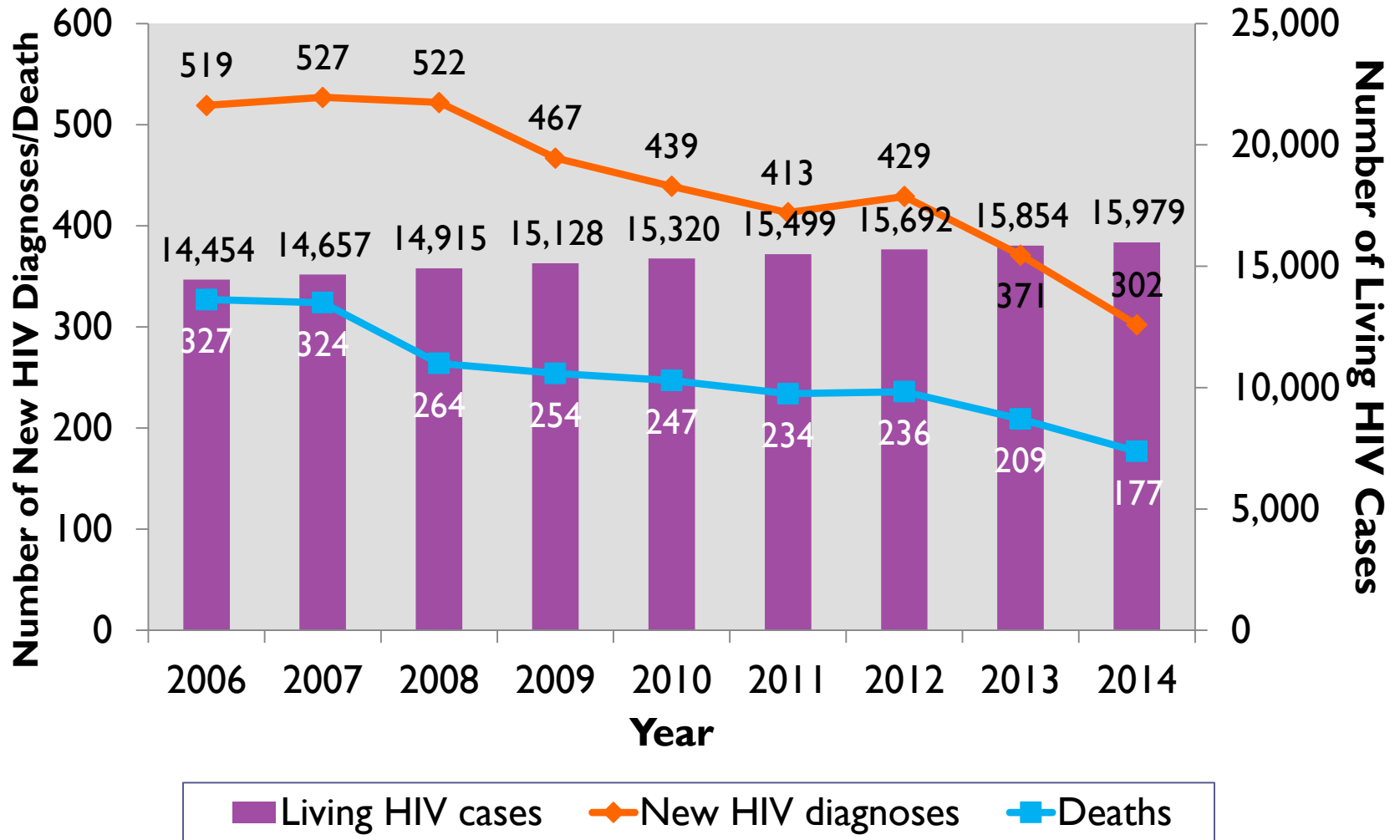
HIV/AIDS Surveillance System

- ▶ **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, 2006-2014 San Francisco



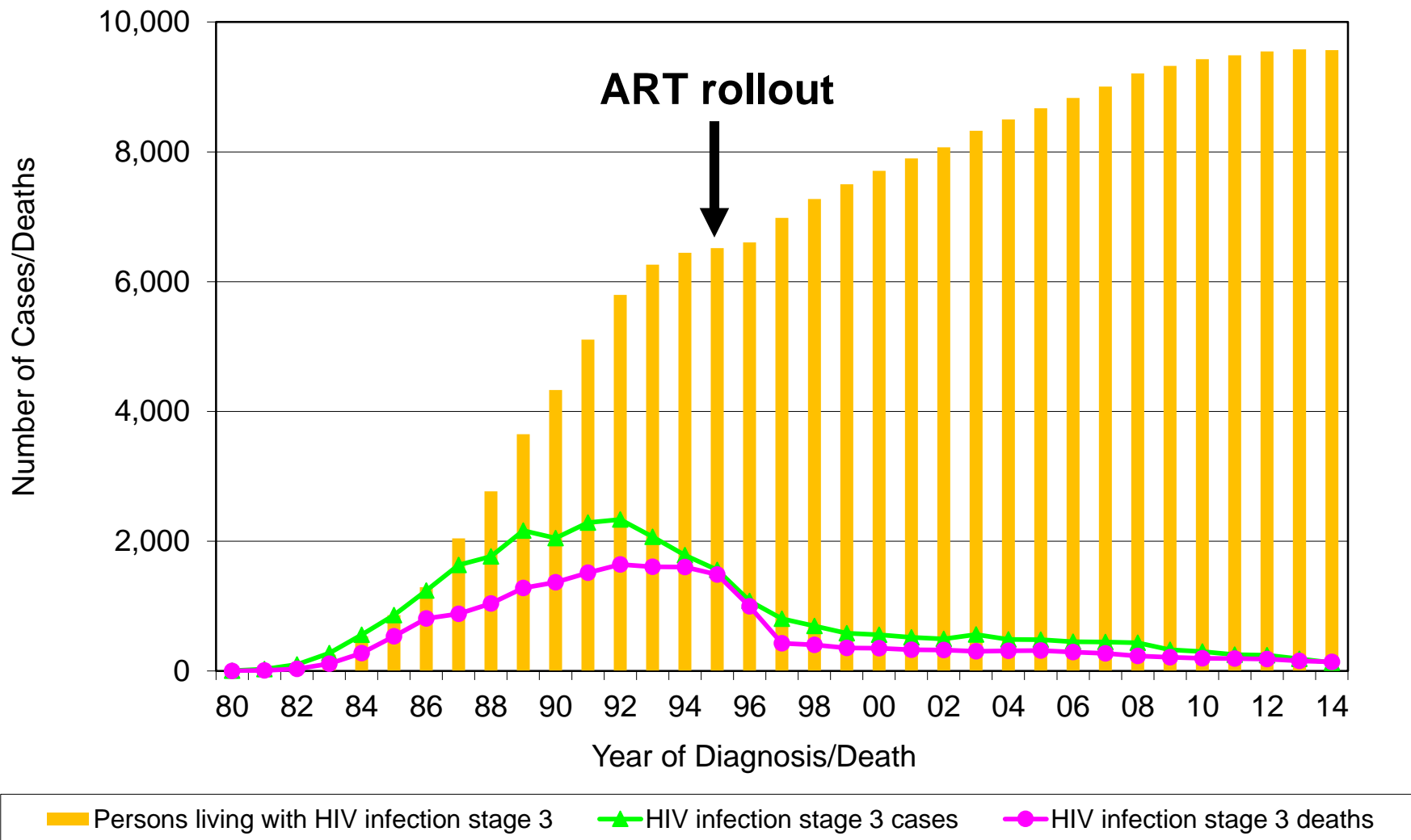
Characteristics of Persons Living with HIV, December 31, 2014 and ,2006, 2014 New Diagnoses

	PLWH (N=15,979)		HIV DX in 2006 (N=519)		HIV DX in 2014 (N=302)	
	Number	%	Number	%	Number	%
Gender						
Male	14,722	92%	469	90%	282	93%
Female	901	6%	36	7%	14	5%
Transgender	356	2%	14	3%	6	2%
Risk						
MSM	11,787	74%	365	70%	226	75%
MSM PWID	2,423	15%	81	16%	34	11%
PWID	951	6%	39	8%	19	6%
Heterosexual	526	3%	24	5%	8	3%
Other/Unidentified	277	2%	10	2%	15	5%

Characteristics of Persons Living with HIV, December 31, 2014 and 2006, 2014 New Diagnoses

	PLWH (N=15,979)		HIV DX in 2006 (N=519)		HIV DX in 2014 (N=302)	
	Number	%	Number	%	Number	%
Race/Ethnicity						
White	9,708	61%	278	54%	136	45%
African American	2,014	13%	75	14%	33	11%
Latino	2,894	18%	113	22%	82	27%
API/Native Amer.	986	7%	36	7%	39	13%
	Current Age (as of 12/2014)			Age at Diagnosis		
< 30 years	582	3%	128	25%	87	29%
30-39 years	1,837	12%	175	34%	91	30%
40-49 years	4,358	27%	143	28%	73	24%
50-59 years	5,806	36%	56	11%	38	13%
60-64 years	1,860	12%	10	2%	12	4%
▶ 7 65+ years	1,536	10%	7	1%	1	<1%

HIV infection stage 3 cases, deaths, and prevalence, 1980-2014, San Francisco



Residence of Death Among Persons with HIV Infection deceased 2005-2012

Residence of Death County	2005-2008 N=1,263	2009-2012 N=970
	Number (%)	Number (%)
San Francisco	807 (64%)	600 (62%)
Other	177 (14%)	182 (19%)
Missing	279 (22%)	188 (19%)

Underlying Causes of Death Among Persons with HIV Infection*, 2005-2012

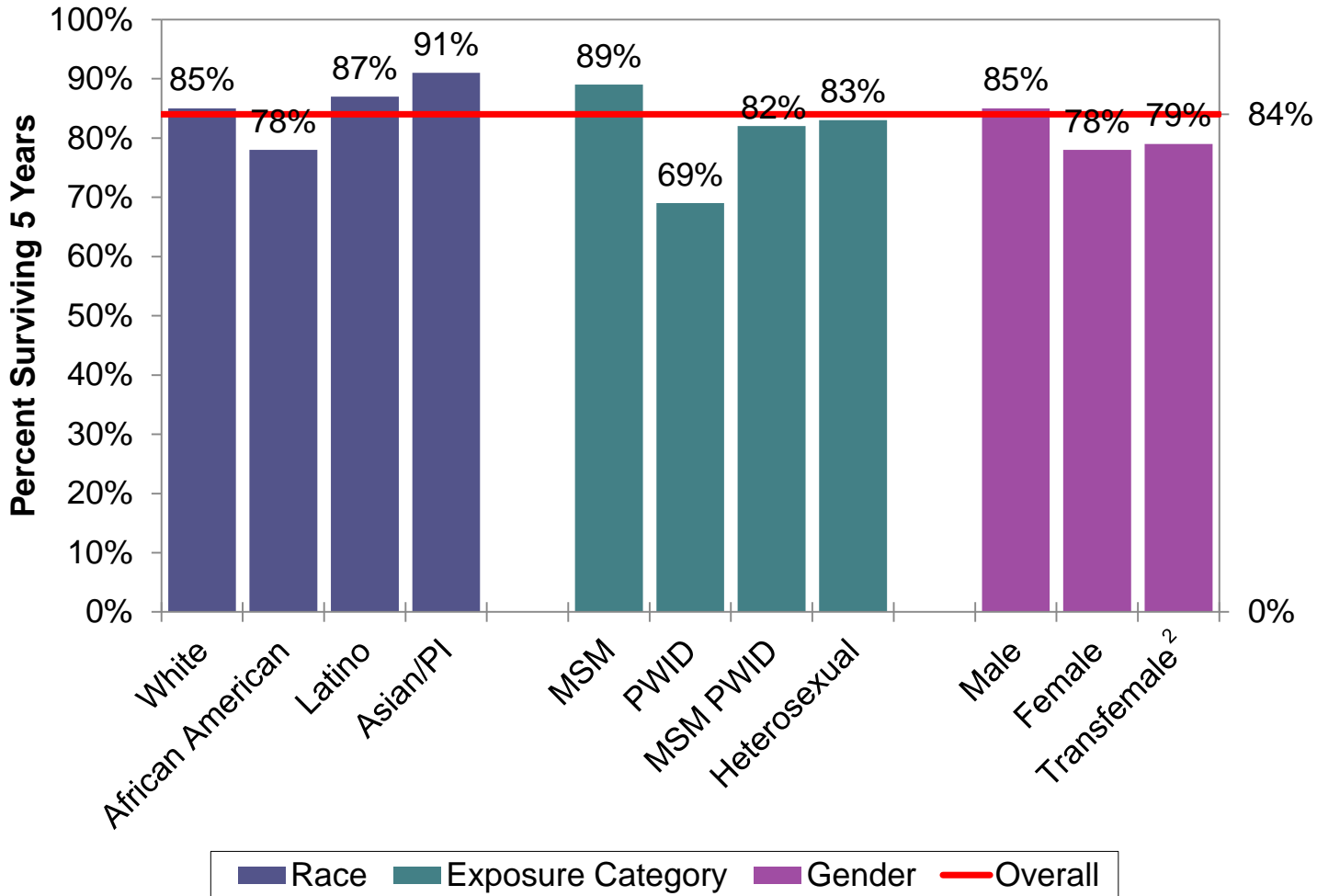
Underlying Cause of Death	2005-2008 N=1,242	2009-2012 N=943
	Number (%)	Number (%)
HIV	676 (54.4%)	413 (43.8%)
Non-AIDS cancer	132 (10.6%)	128 (13.6%)
Drug overdose	77 (6.2%)	104 (11.0%)
Heart disease	95 (7.6%)	82 (8.7%)
Suicide	48 (3.9%)	38 (4.0%)
Liver disease	27 (2.2%)	22 (2.3%)

*Deceased cases that lack cause of death information not represented in this table.

Underlying Causes of Death by Age Among Persons with HIV Infection, 2009-2012

	HIV	Non-AIDS cancer	Heart Disease	Drug Overdose	Suicide	Liver Disease
Age at Death (years)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
0-29	8 (2)	0 (0)	1 (1)	4 (4)	0 (0)	0 (0)
30-39	34 (8)	3 (2)	4 (5)	18 (17)	3 (8)	2 (9)
40-49	118 (29)	24 (19)	11 (13)	37 (36)	16 (42)	8 (36)
50-59	151 (37)	46 (39)	32 (39)	35 (34)	12 (32)	9 (41)
60-64	48 (12)	24 (19)	15 (18)	9 (9)	4 (11)	1 (5)
65+	54 (13)	31 (24)	19 (23)	1 (<1)	3 (8)	2 (9)

Five-year survival probability¹ after Stage 3 HIV for persons diagnosed between 2001 and 2014 by race/ethnicity, exposure category, and gender, San Francisco



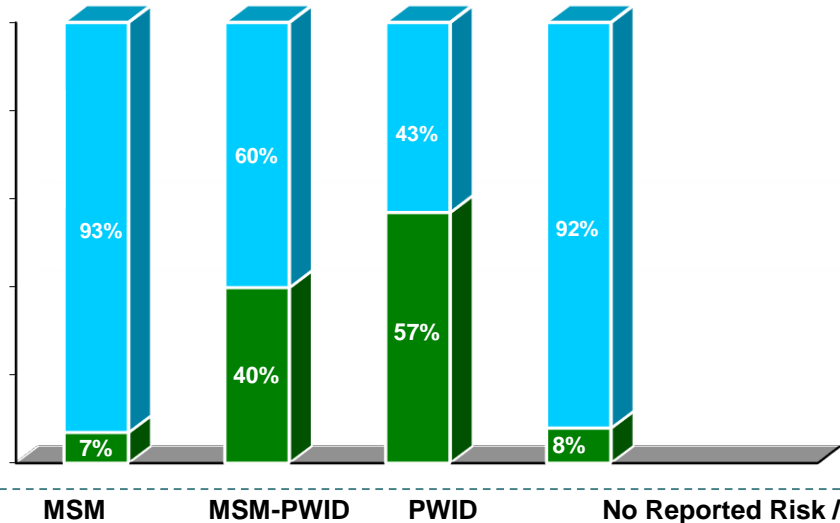
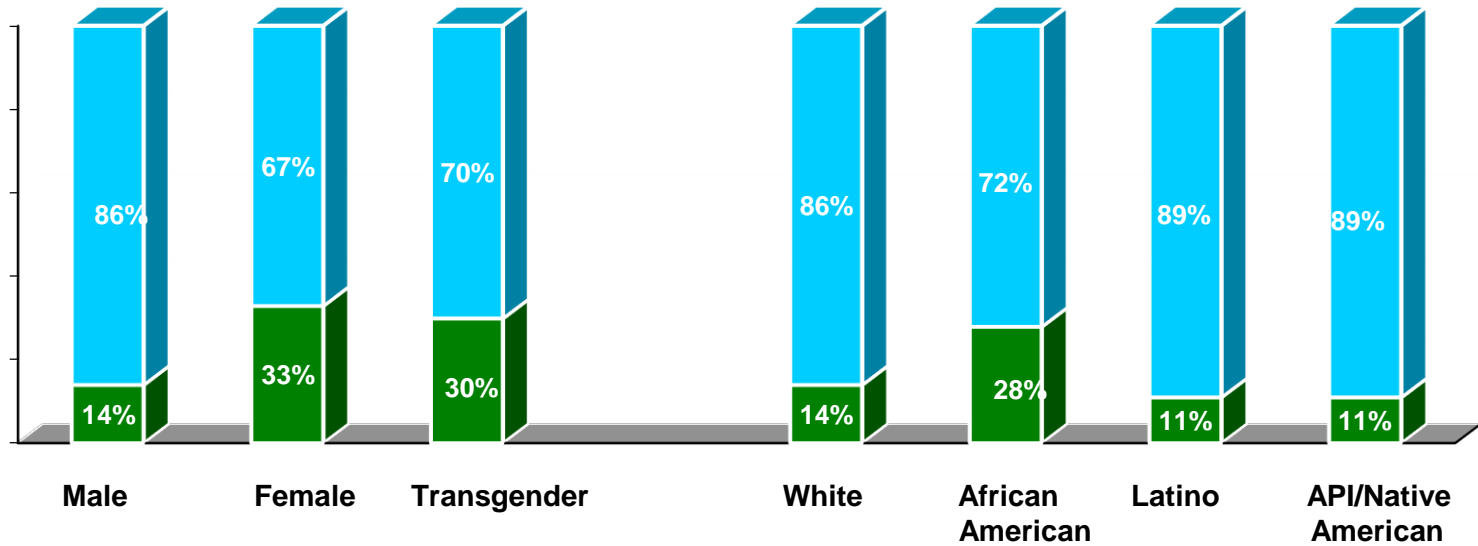
1 Calculated from Kaplan-Meier method.

2 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 2014

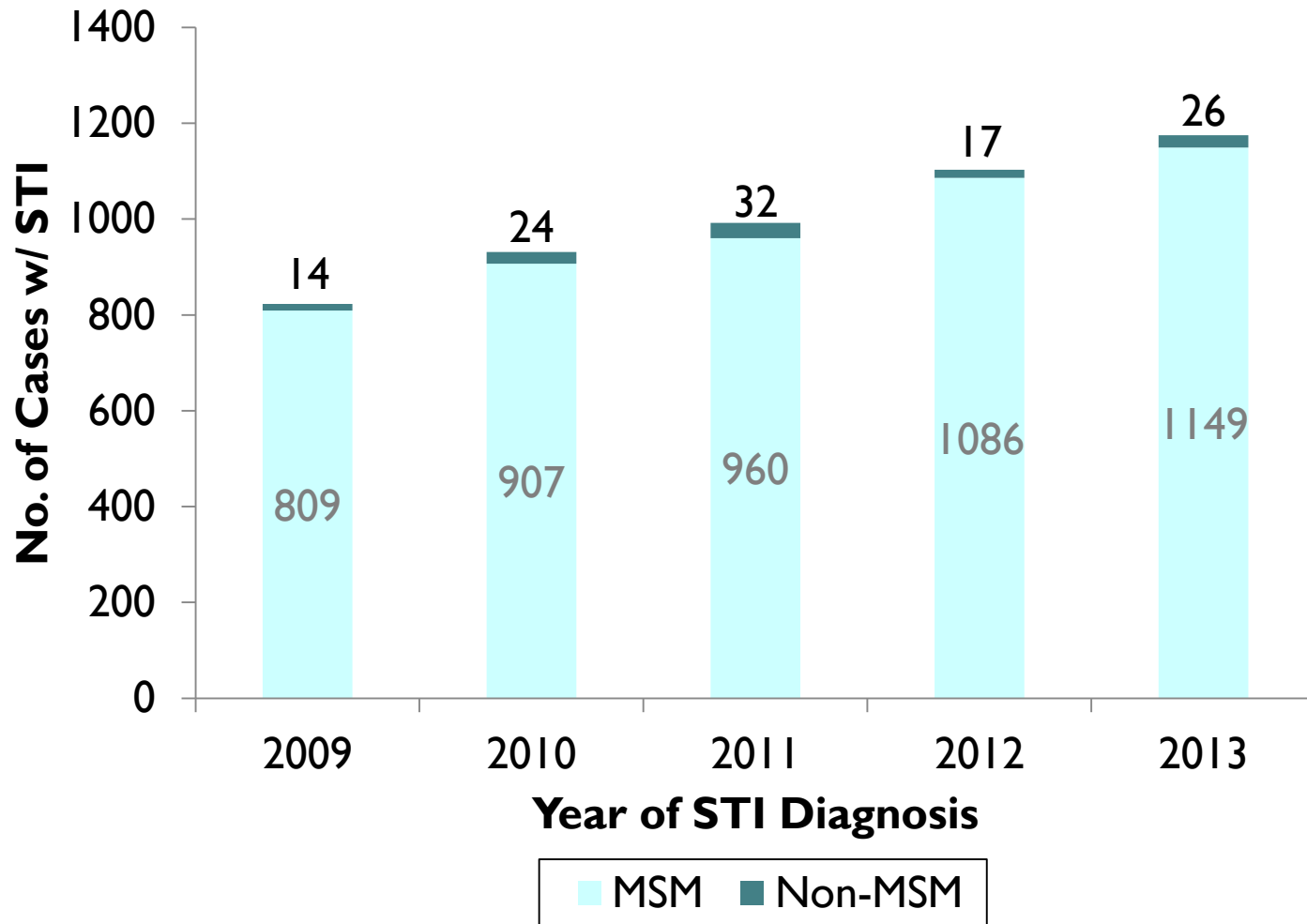
	PLWH (N= 15,979)	PLWH with history of jail (N= 1,094)
Gender		
Male	92%	77%
Female	6%	15%
Transgender	2%	8%
Race/Ethnicity		
White	61%	37%
African-American	13%	41%
Latino	18%	16%
API/Native American	7%	3%
Risk		
MSM	74%	21%
MSM-PWID	15%	43%
PWID	6%	29%
Other/ No Reported Risk	5%	6%

Living HIV Cases Co-Infected with Hepatitis C, as of December 31, 2014



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

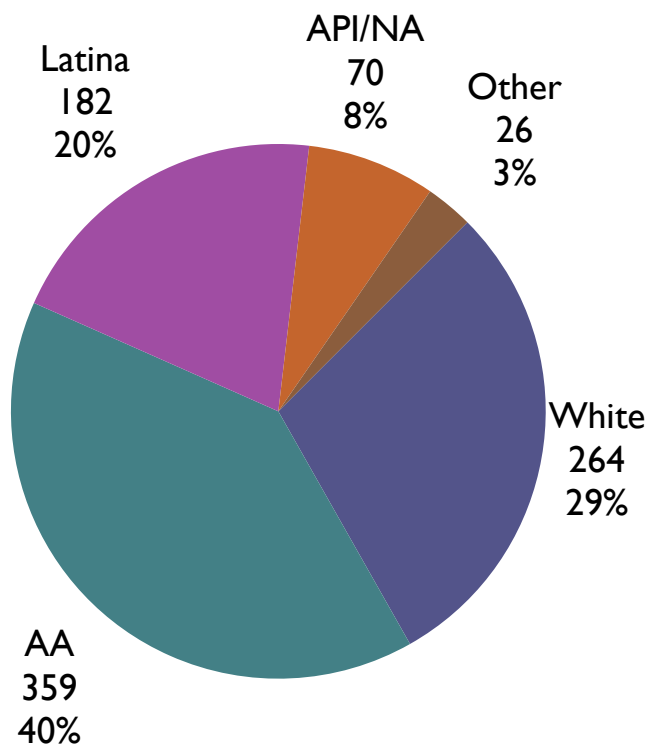
Number of HIV cases diagnosed with an STI by year of STI diagnosis, 2009-2013, San Francisco



Race/Ethnicity of Female Living with HIV Compared to the General Population of San Francisco, December 31, 2014

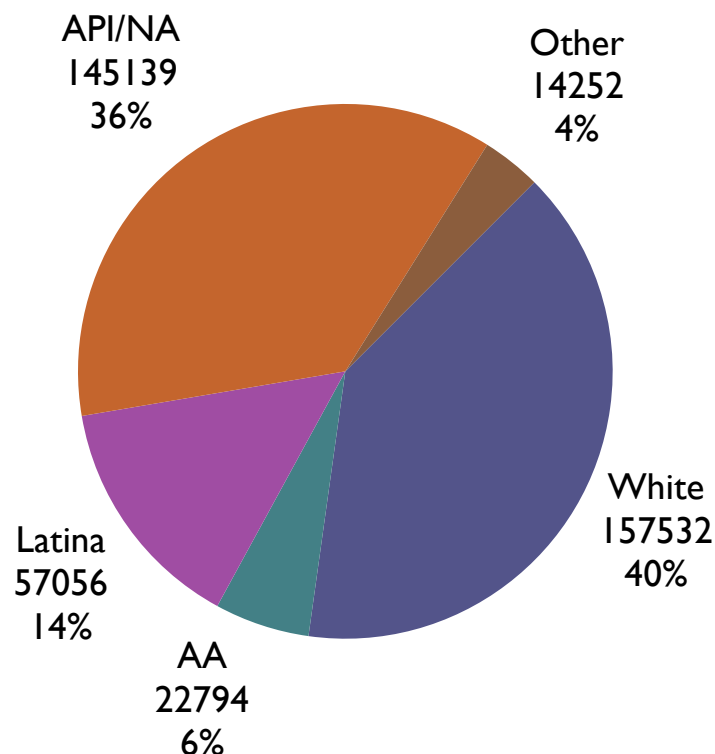
Living Female HIV Cases

N= 901



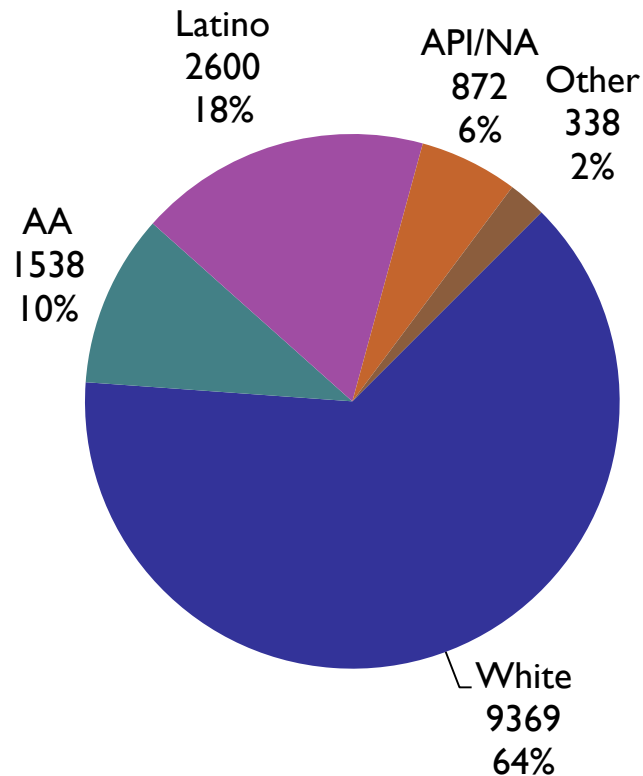
**San Francisco
Female Population***

N= 396,773

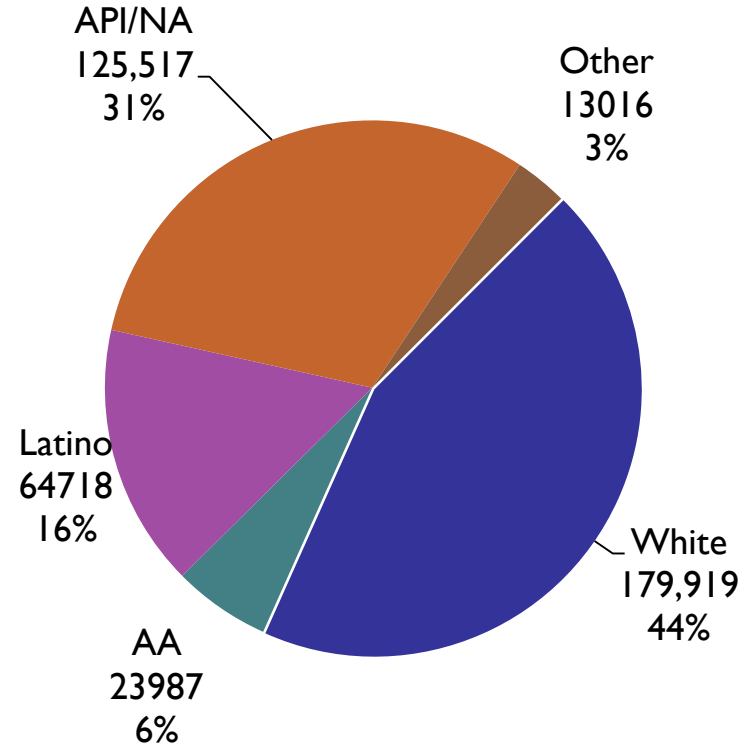


Race/Ethnicity of Male Living with HIV Compared to the General Population of San Francisco, December 31, 2014

Male HIV Cases
N= 14,722

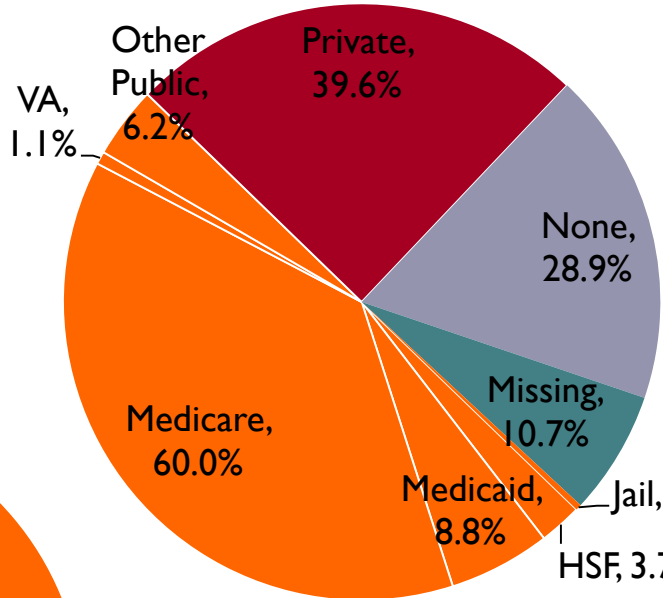


San Francisco
Male Population*
N=407,157

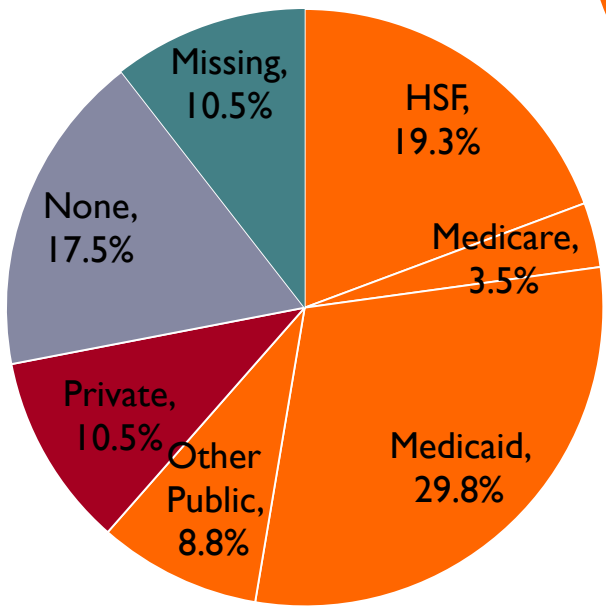


HIV Cases by Gender and Health Coverage at Time of Initial HIV Diagnosis, 2012-2014

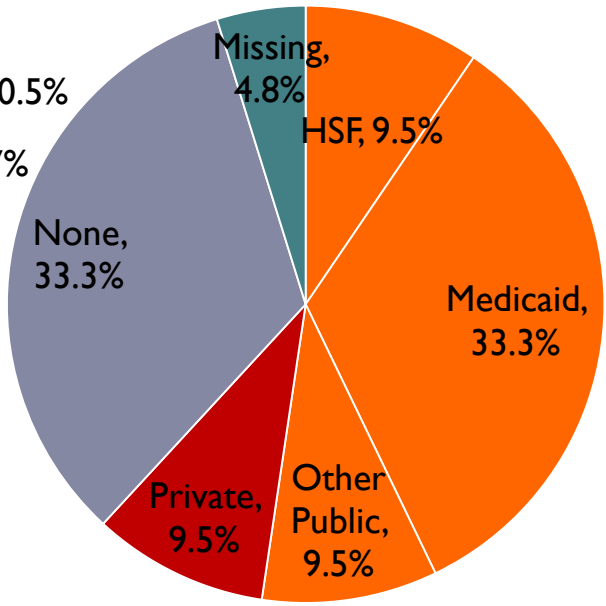
Male N= 1,024



Female N= 57

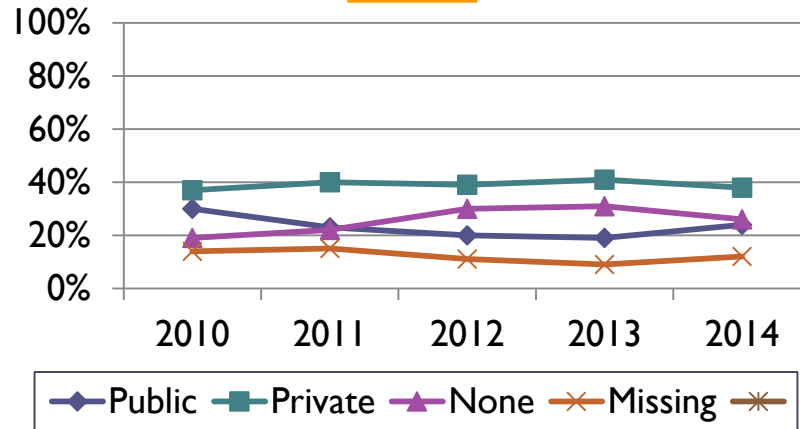


Transgender N= 21

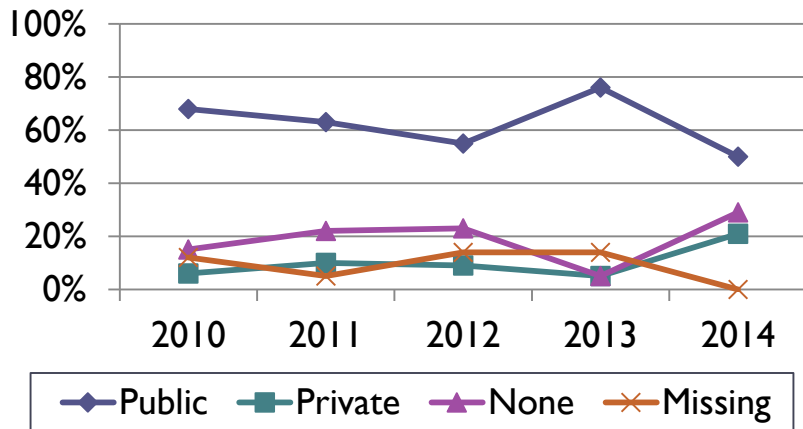


Trends in Health Coverage at Time of HIV Diagnosis by Gender, 2010-2014, San Francisco

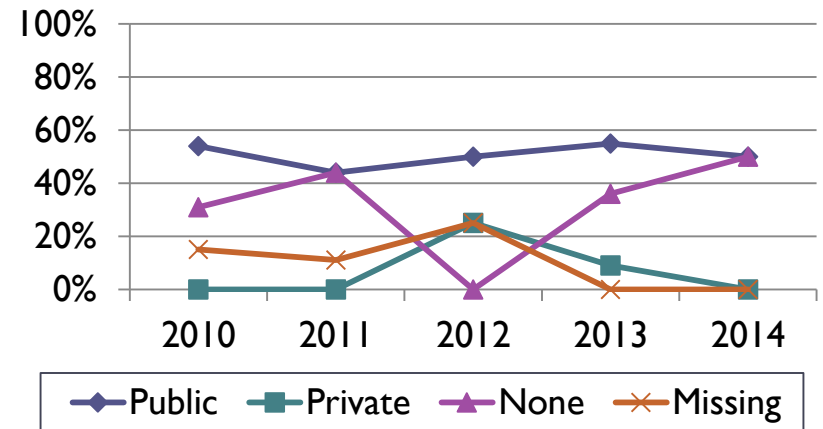
Male



Female

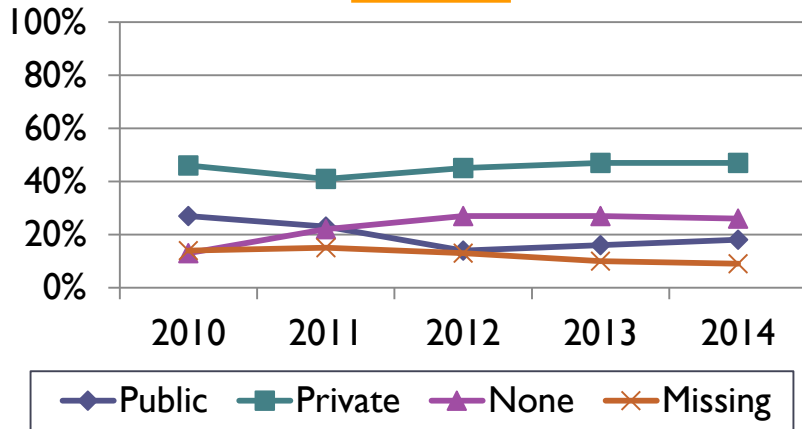


Transgender

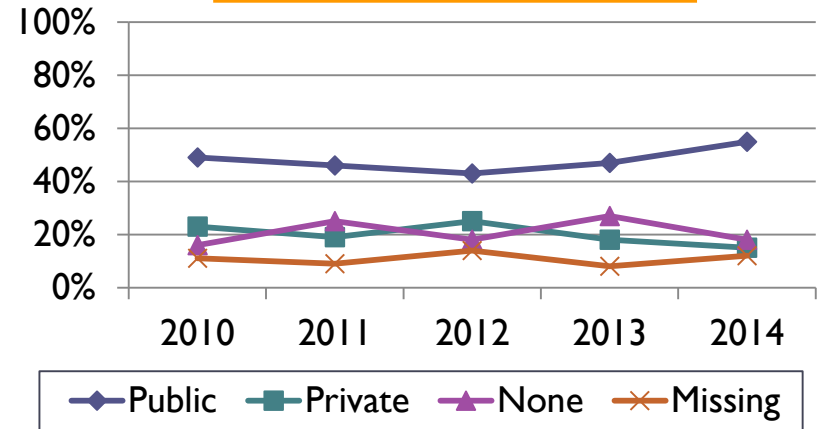


Trends in Health Coverage at Time of HIV Diagnosis by Race/Ethnicity, 2010-2014, San Francisco

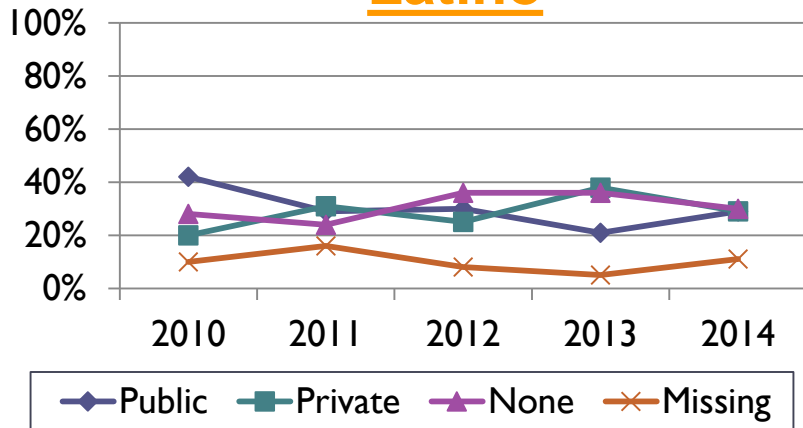
White



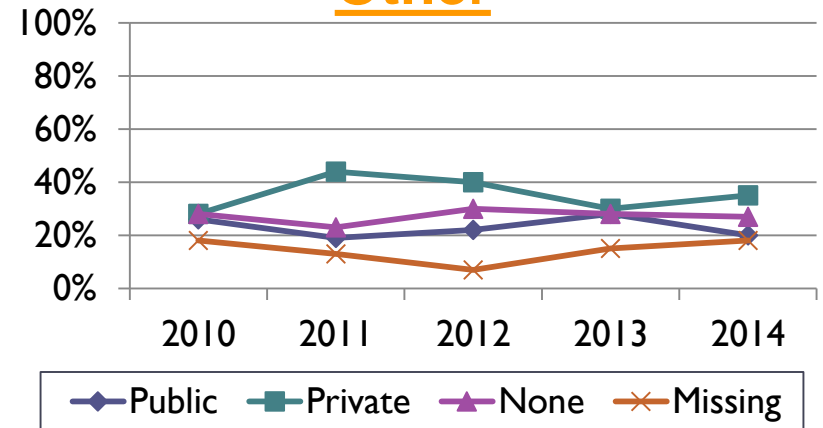
African American



Latino

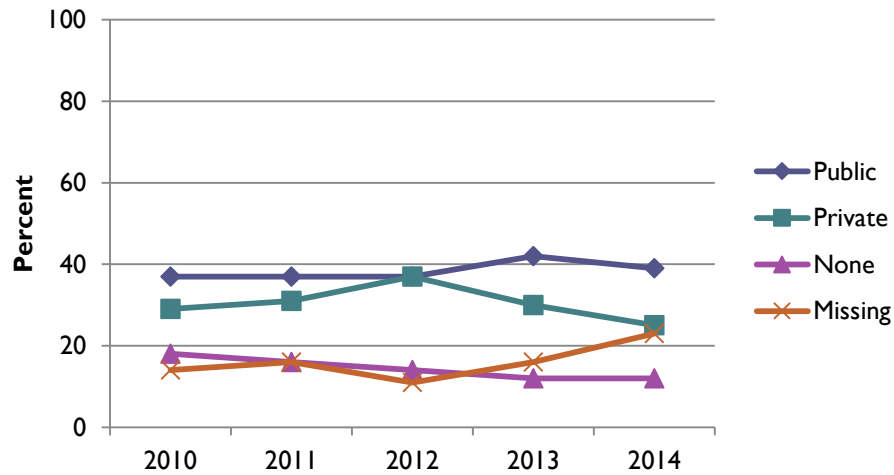


Other

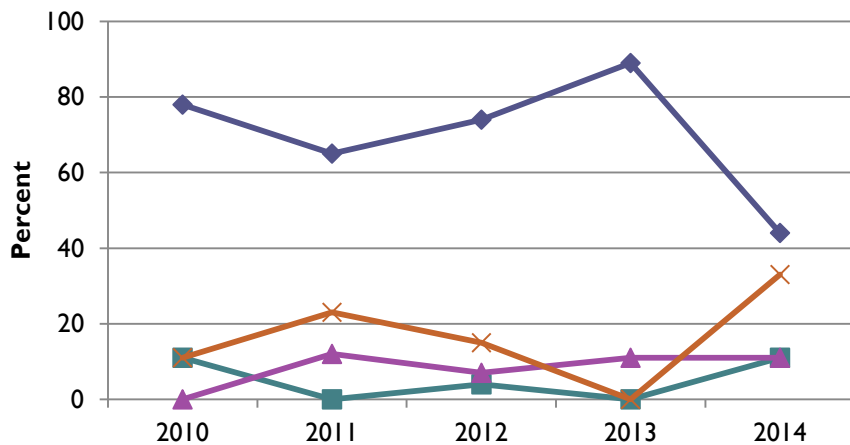


Trends in Health Coverage at Time of HIV Stage 3 Diagnosis by Gender, 2010-2014, San Francisco

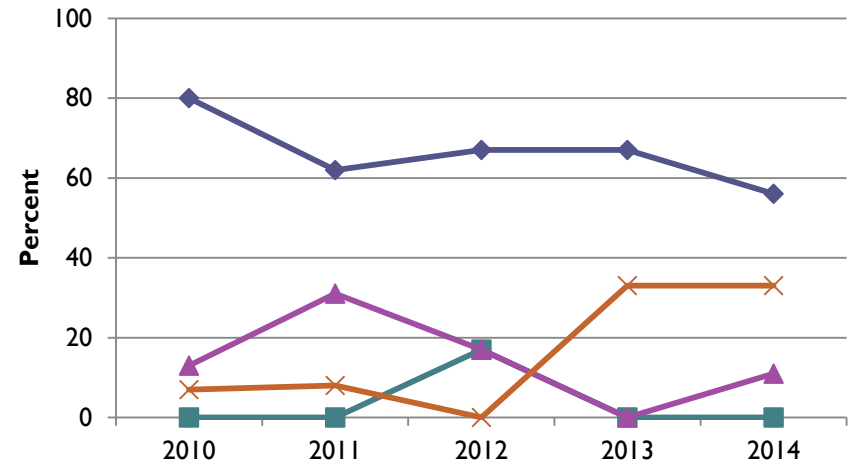
Male



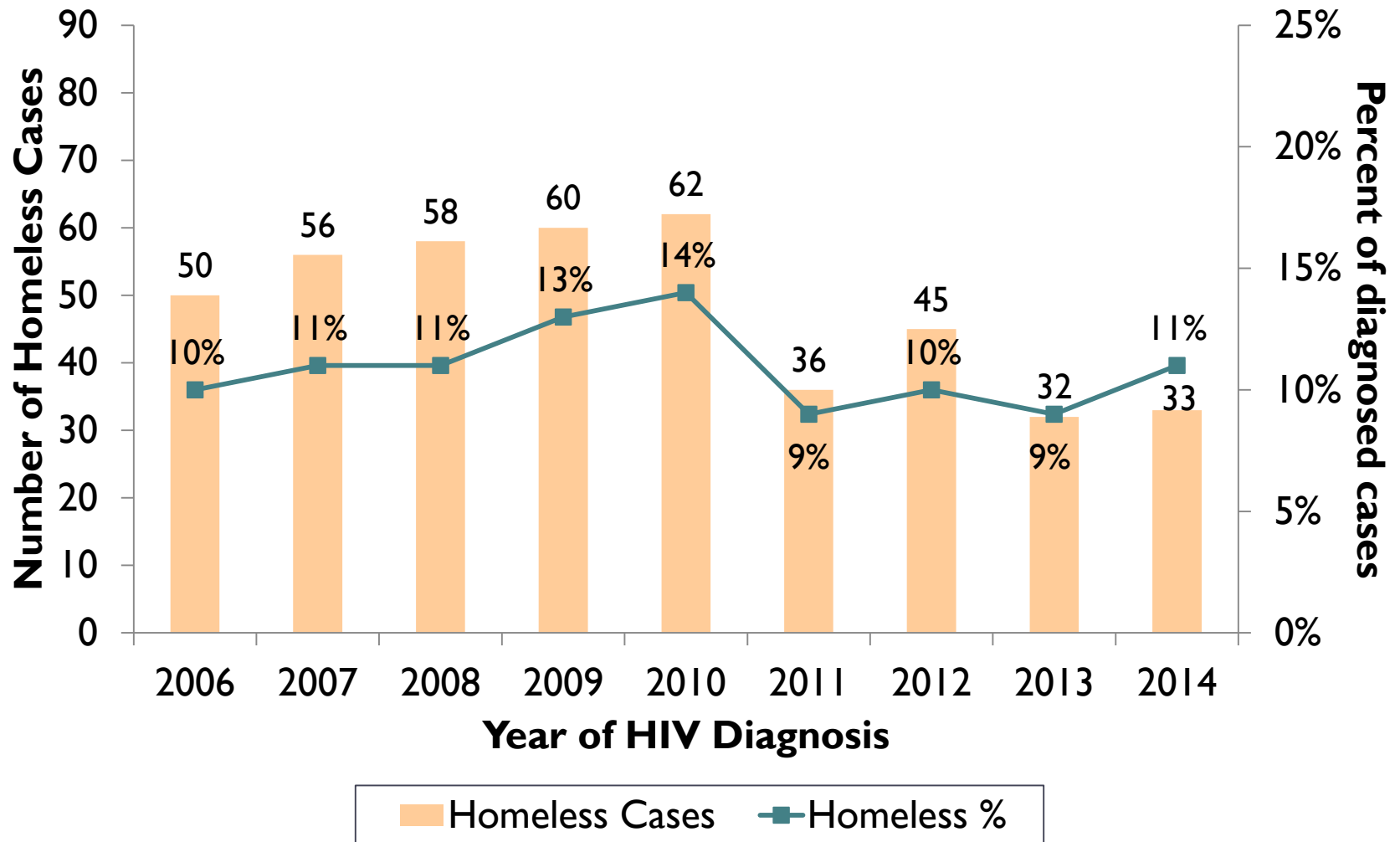
Female



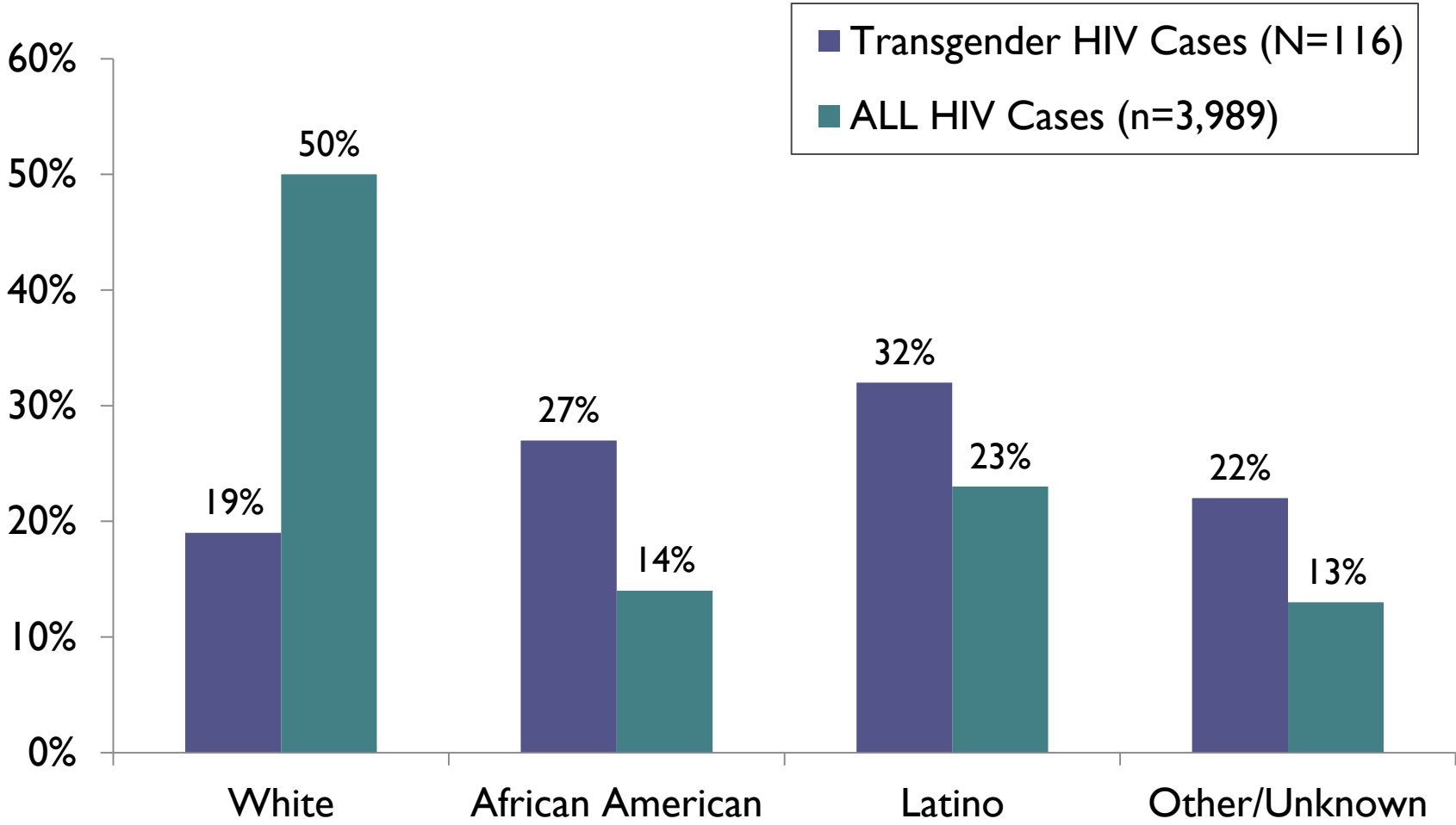
Transgender



Trends in Number and Percent of Diagnosed Cases Homeless at Time of Diagnosis, 2006-2014



Characteristics of Transgender and HIV Cases, Diagnosed 2006-2014



Characteristics of People Living with HIV/AIDS, San Francisco EMA as of 12/31/13

	San Mateo	Marin	San Francisco
Gender			
Male	83.6%	89.3%	92.0%
Female	15.7%	7.6%	5.7%
Transgender	0.7%	2.6%	2.3%
Race/Ethnicity			
White	48.4%	55.2%	61.7%
African-American	12.7%	22.3%	12.9%
Latino	26.9%	18.0%	17.4%
Asian/Pac Islander	9.6%	2.1%	5.3%
Risk			
MSM	59.8%	49.62%	73.3%
MSM-IDU	5.9%	13.3%	15.2%
IDU	10.5%	18.5%	6.3%
Heterosexual	11.9%	10.5%	3.2%
Total Known Persons Living with HIV/AIDS	1,538 (8.4%)	896 (4.9%)	15,898 (86.7%)

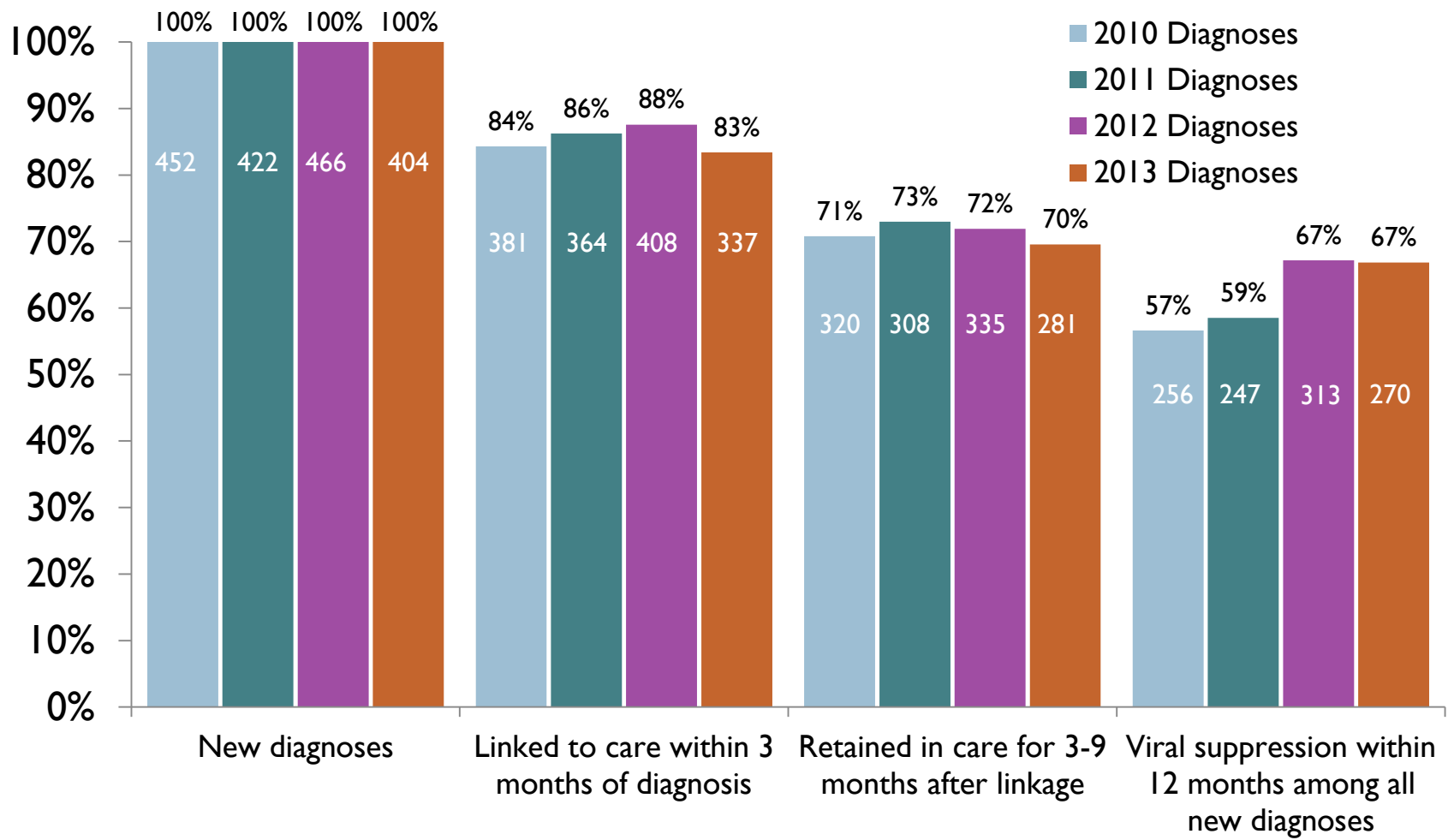
Estimated Number and Percent of PLWH/A Not in Care San Francisco EMA, July 1, 2012 - June 30, 2013

	Total number	Number not in care	Percent not in care
Persons Living with AIDS	12,899	1,128	8.7%
Persons Living with HIV, <u>aware</u>	8,449	1,638	19.4%
Persons Living with HIV/AIDS	21,339	2,766	13.0%

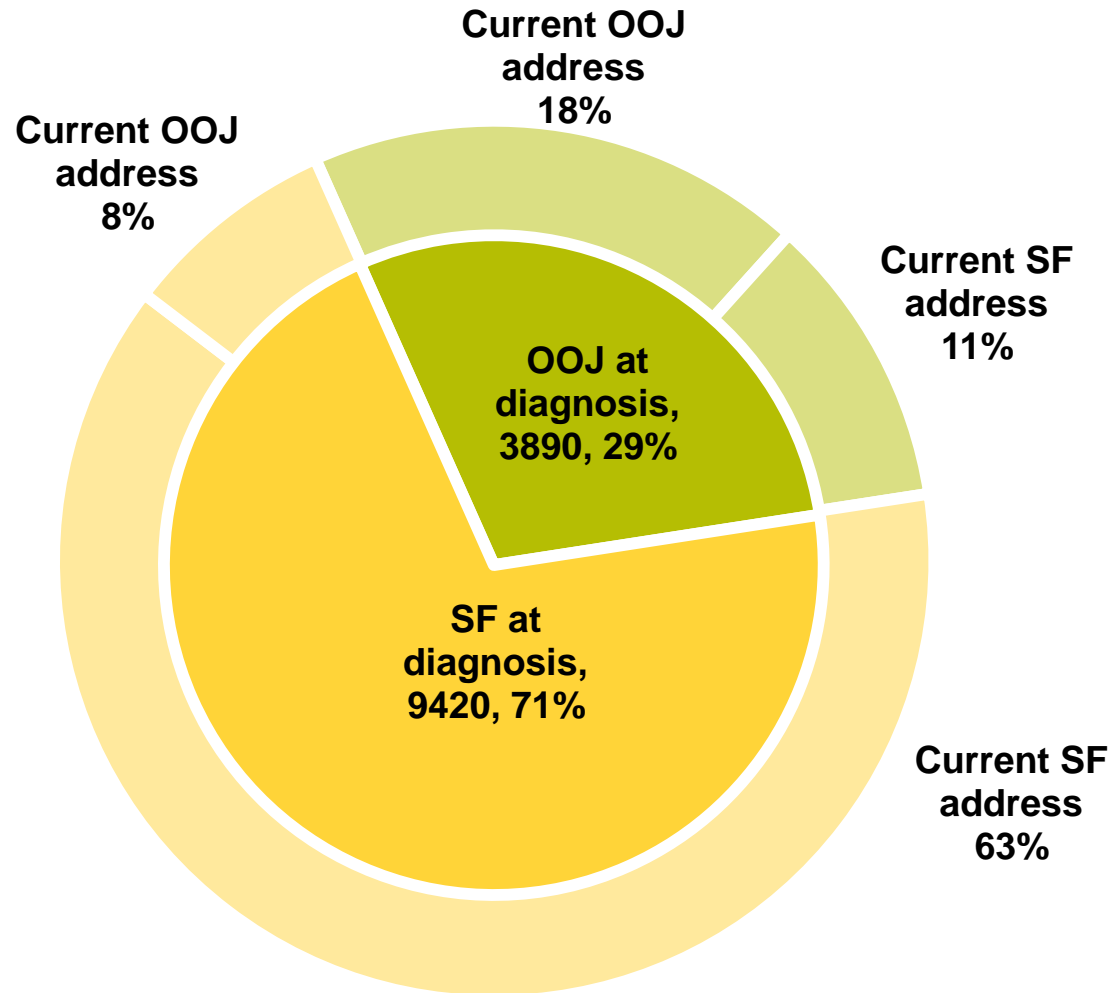
* Care markers: CD4 and viral load testing or receiving antiretroviral therapy.

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

Continuum of HIV care among persons diagnosed with HIV, 2010-2013, San Francisco

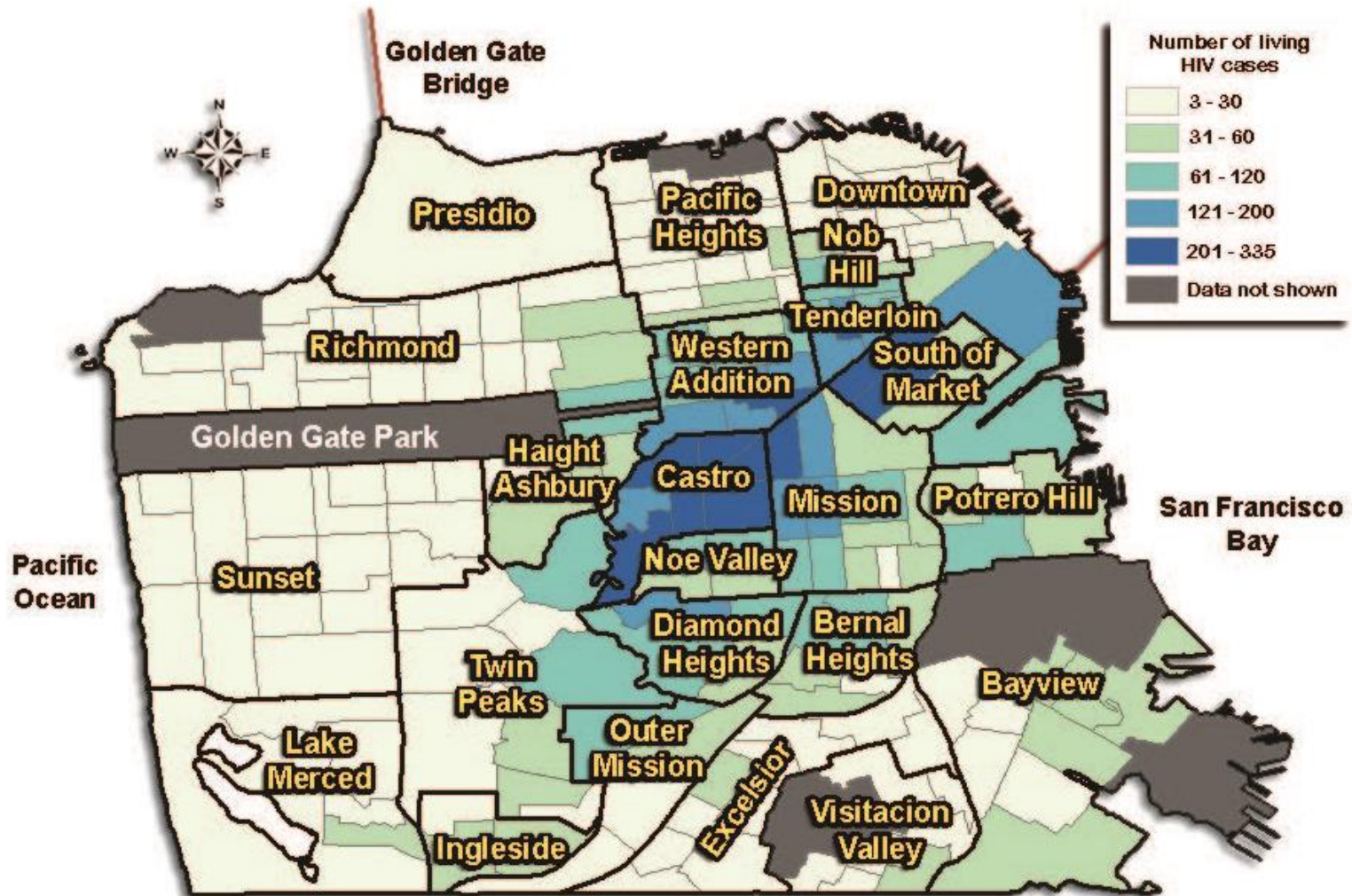


Persons living with HIV who received care in SF by residence at diagnosis and current residence status, 2014

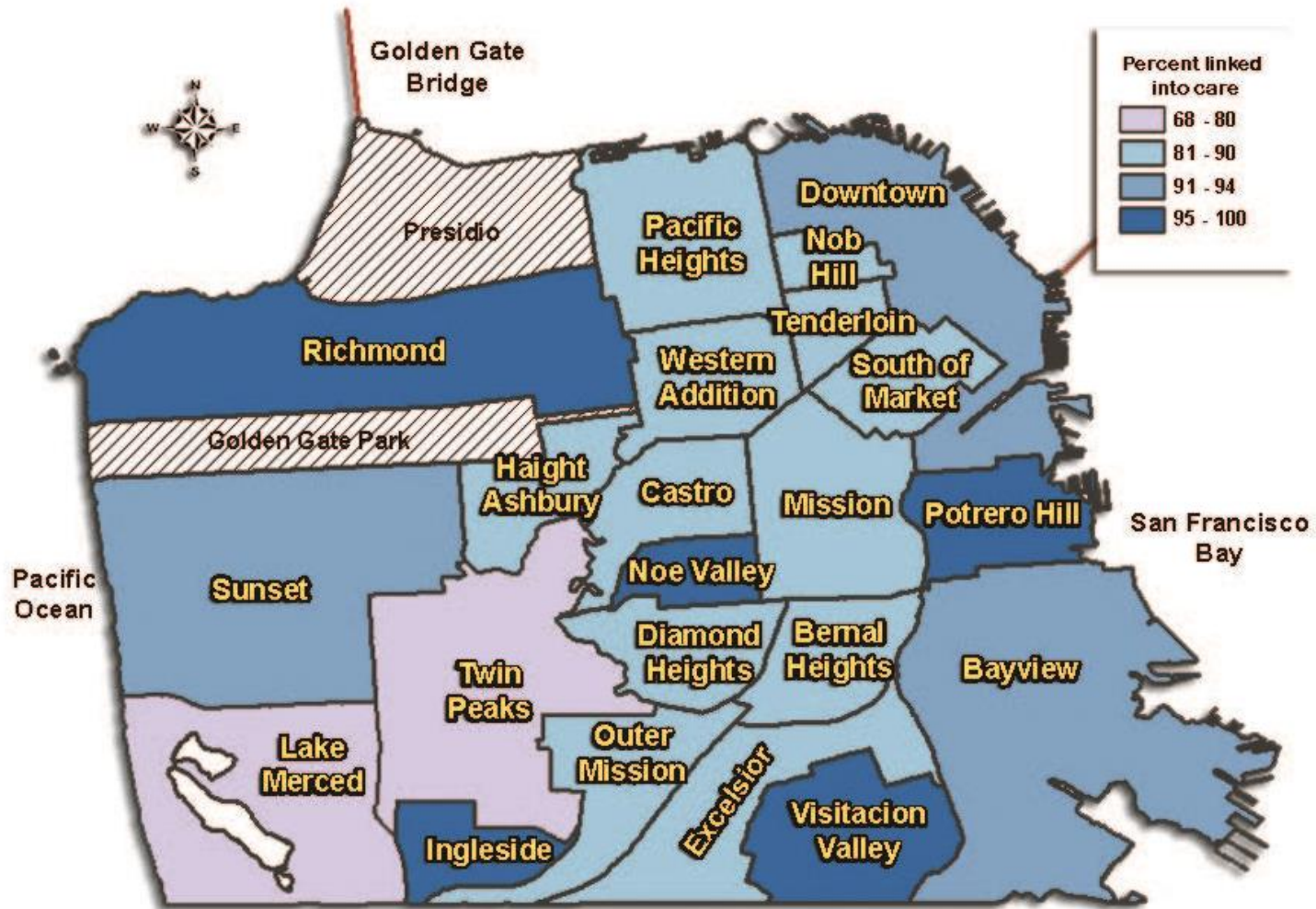


OOJ = Out of SF Jurisdiction

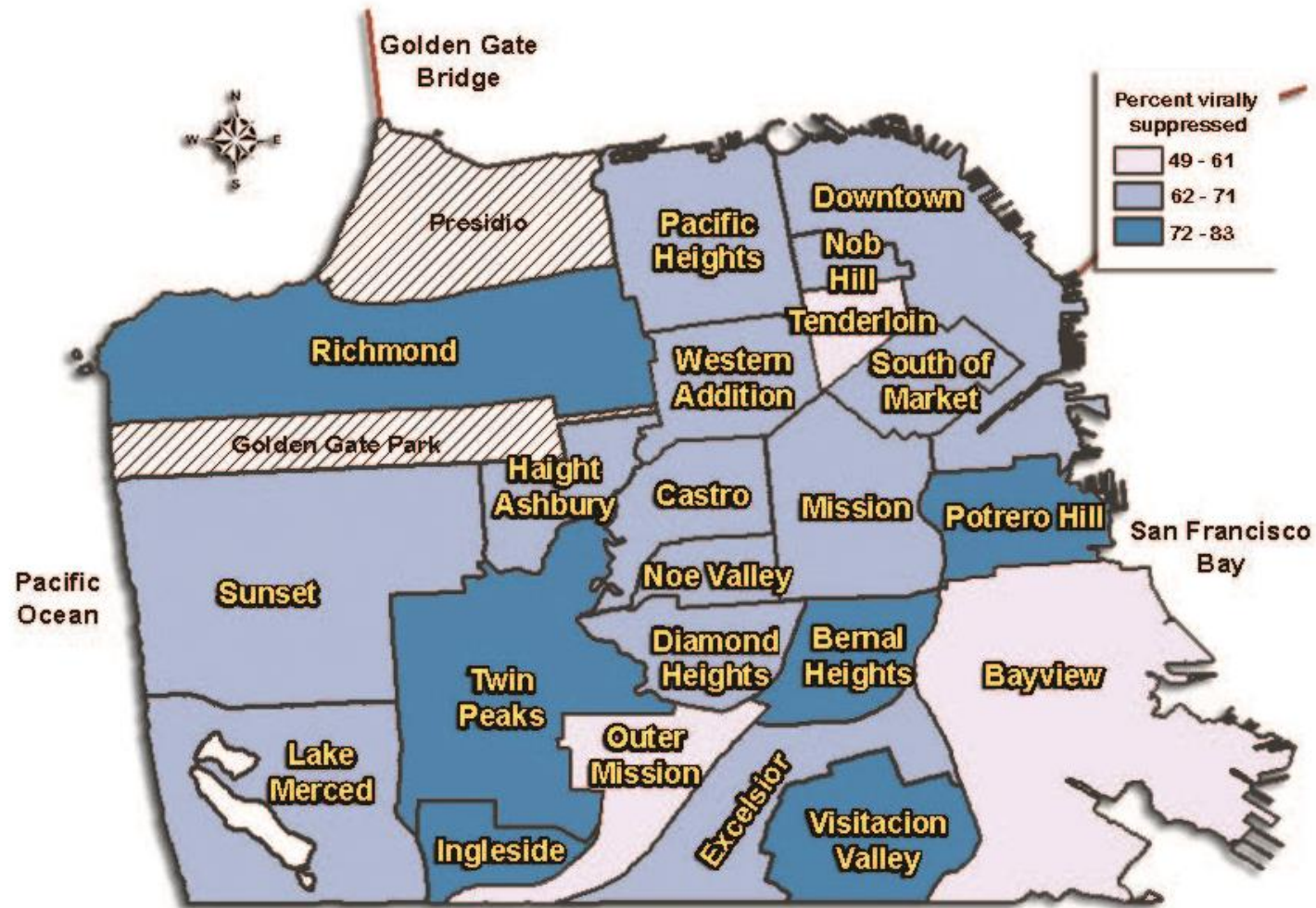
Geographic distribution of person living with HIV, 2014



Geographic distribution of proportion of HIV cases diagnosed in 2010-2013 who were linked to care within 3 months of diagnosis



Geographic distribution of proportion of HIV cases diagnosed in 2010-2013 who achieved viral suppression within 12 months of diagnosis



Geographic distribution of proportion of living HIV cases diagnosed through 2012 who achieved viral suppression in 2013



QUESTIONS?

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