

### HIV EPIDEMIOLOGY ANNUAL REPORT 2016





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POPULATION HEALTH DIVISION

SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH

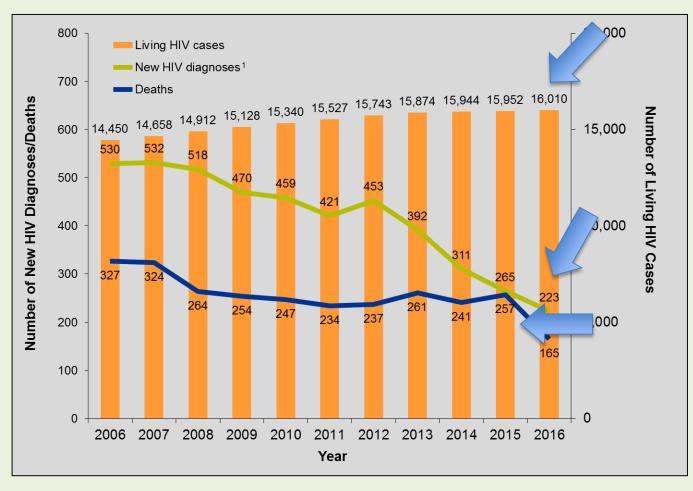
### **Outline**

#### Key Highlights

- Many encouraging trends...
  - New HIV diagnoses declined
  - Rate of new diagnoses among men declined
  - Linkage to care improved
  - Viral suppression improved
  - Time to ART initiation improved
  - Time to viral suppression improved
  - Undiagnosed HIV low
  - No new diagnoses among babies or children since 2005

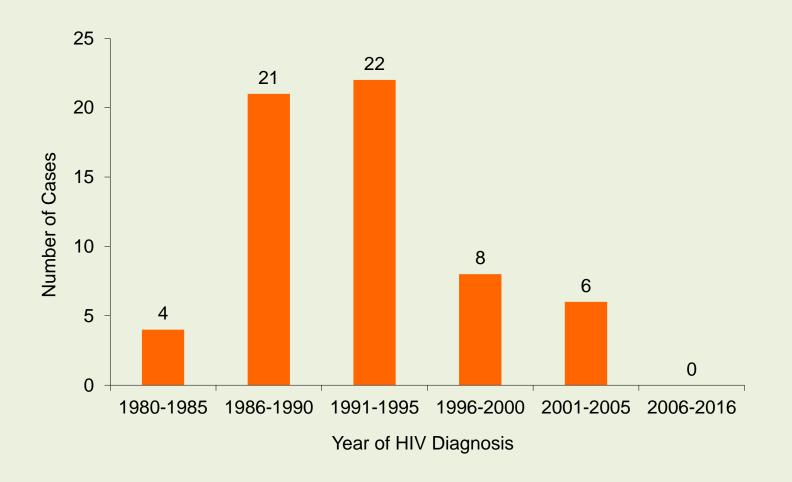
- ...but still significant disparities
  - Highest number and rate of new diagnoses overall among:
    - MSM
  - Highest rate of new diagnoses by race among:
    - African-Americans
  - Care outcomes worse for:
    - Women
    - Trans women
    - African-Americans
    - Homeless people
- The Gaps are Closing
  - beginning to see care and prevention outcomes improve even in demographic groups with disparities

# Encouraging Trends among Persons Living with HIV and New Diagnoses

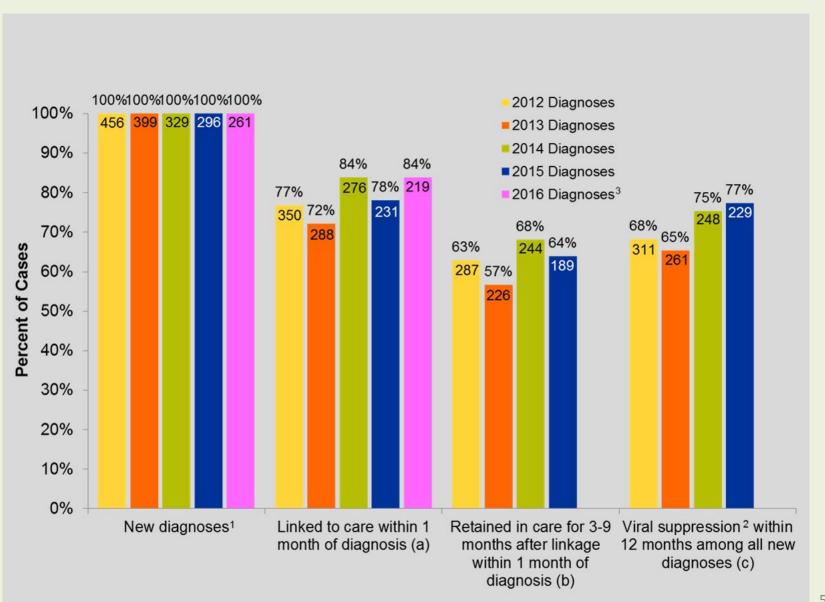


- Overall 93% of PLWH are aware of their HIV status
- New diagnoses decreased 16% between 2015-2016
- Number of deaths is leveling
- Survival is improving; 63% of PLWH >50yrs
- Late diagnoses declined from 21% in 2012 to 16% in 2016

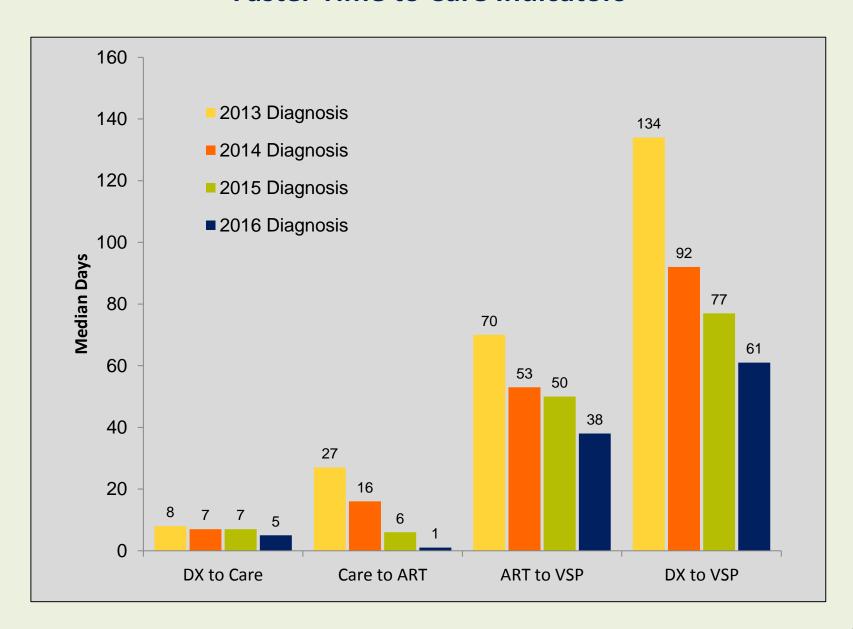
# No Perinatal or Pediatric Cases (age<13) diagnosed since 2005



### Improvements in the HIV Care Continuum



### **Faster Time to Care Indicators**

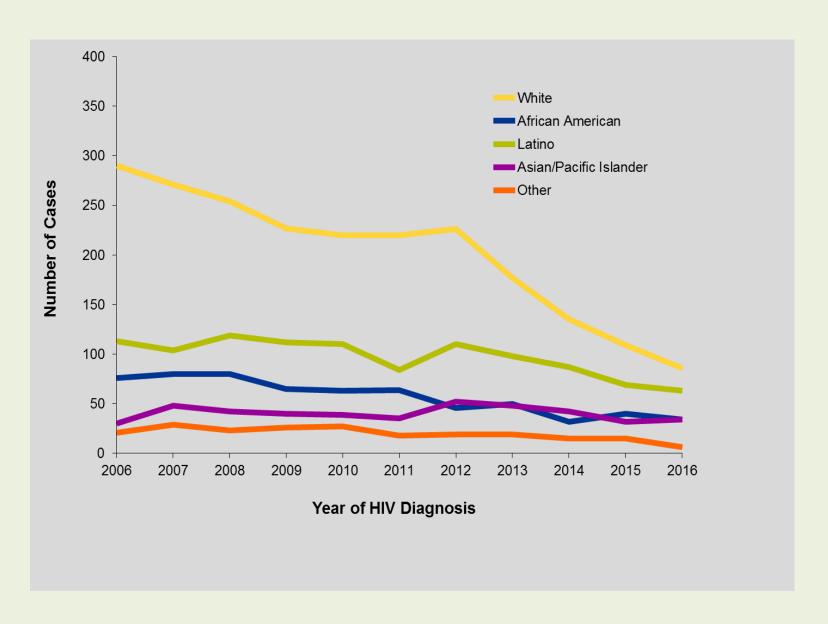


## Underlying causes of death 3 time periods, 2004-2015

Year of Death				
2004-2007 N=1,310		2008-2011	2012-2015	
Number	(%)	Number (%)	Number (%)	<b></b>
756	( 57.7 )	462 (47.6)	392 (40.3)	
132	(10.1)	117 (12.0)	133 (13.7)	HIV-related causes of
43	(3.3)	35 ( 3.6 )	37 ( 3.8 )	death declining
		` '		acath accining
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	` ,	` ,	` '	Drug overdoses 3 <sup>rd</sup>
	` ,	` ,	` ,	leading cause of
	` '	` ,	,	death
	` '	` '	` ,	
		` '		
	` '	` '	, ,	
10	` '	11 ( 1.1 )	` '	
24	(1.8)	17 ( 1.8)	21 ( 2.2)	
8	(0.6)	5 ( 0.5 )	13 ( 1.3 )	
6	(0.5)	5 ( 0.5 )	12 ( 1.2 )	
8	(0.6)	10 ( 1.0 )	11 ( 1.1 )	
37	(2.8)	14 ( 1.4 )	11 ( 1.1 )	
14	(1.1)	9 ( 0.9 )	8 (0.8)	
5	(0.4)	5 ( 0.5 )	7 ( 0.7 )	
3	(0.2)	4 ( 0.4 )	4 ( 0.4 )	
4	(0.3)	3 ( 0.3 )	3 ( 0.3 )	7
	N=1,; Number  756 132 43 26 ath 5 6 7 1 8 102 71 89 52 10 2 45 27 15 10 24 8 6 8 37 14 5 3	N=1,310   Number	2004-2007 N=1,310         2008-2011 N=971           Number         (%)         Number         (%)           756         (57.7)         462         (47.6)           132         (10.1)         117         (12.0)           43         (3.3)         35         (3.6)           26         (2.0)         18         (1.9)           ath         5         (0.4)         7         (0.7)           6         (0.5)         3         (0.3)           7         (0.5)         8         (0.8)           1         (0.1)         2         (0.2)           1         (0.1)         1         (0.1)           8         (0.6)         3         (0.3)           102         (7.8)         116         (11.9)           71         (5.4)         95         (9.8)           89         (6.8)         86         (8.9)           52         (4.0)         39         (4.0)           10         (0.8)         2         (0.2)           2         (0.2)         4         (0.4)           45         (3.4)         38         (3.9)	2008-2011 N=1,310         N=1,310         Number (%)         133 (13.7)         33 (2.8)         Number (%)         133 (13.7)         33 (2.8)         133 (13.7)         33 (2.8)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7)         133 (13.7) </td

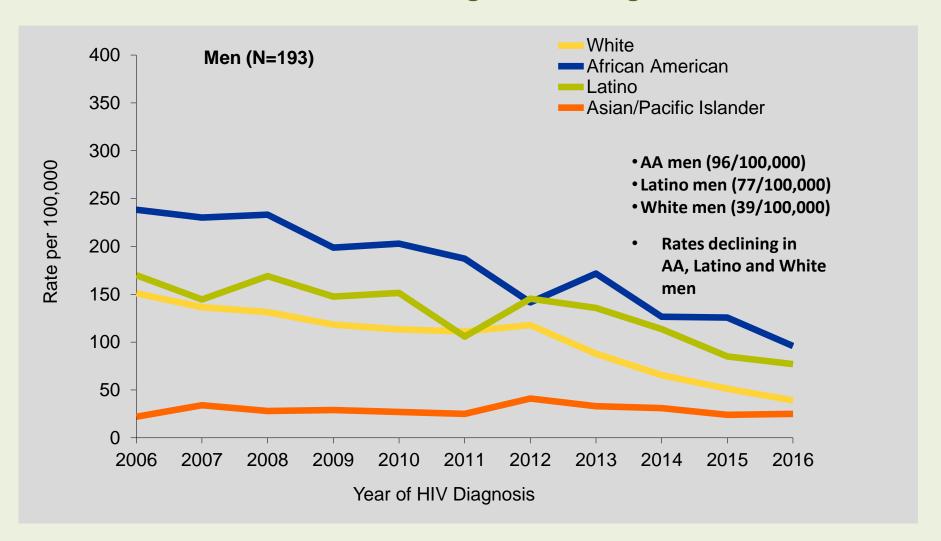
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### **Trends in New HIV Diagnoses by Race**

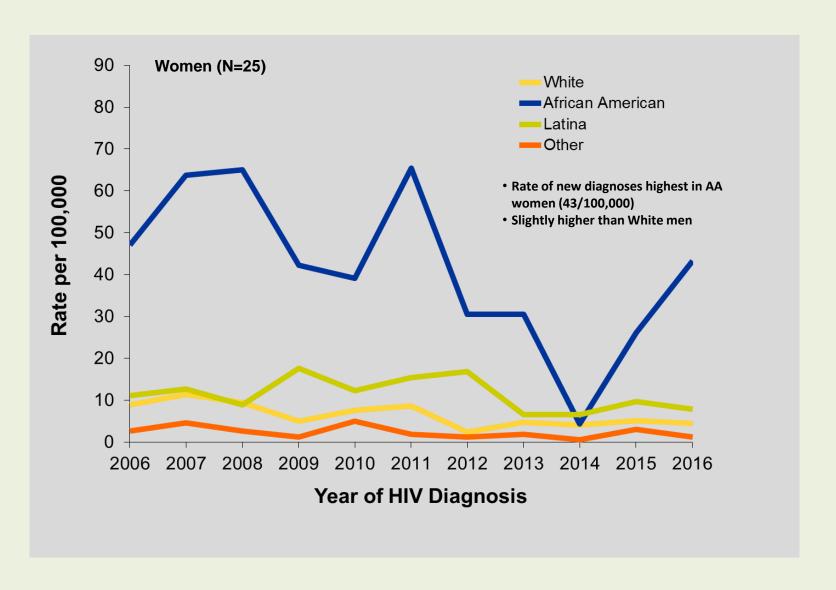


### **Health Disparities**

#### Rate of New Diagnoses among Men

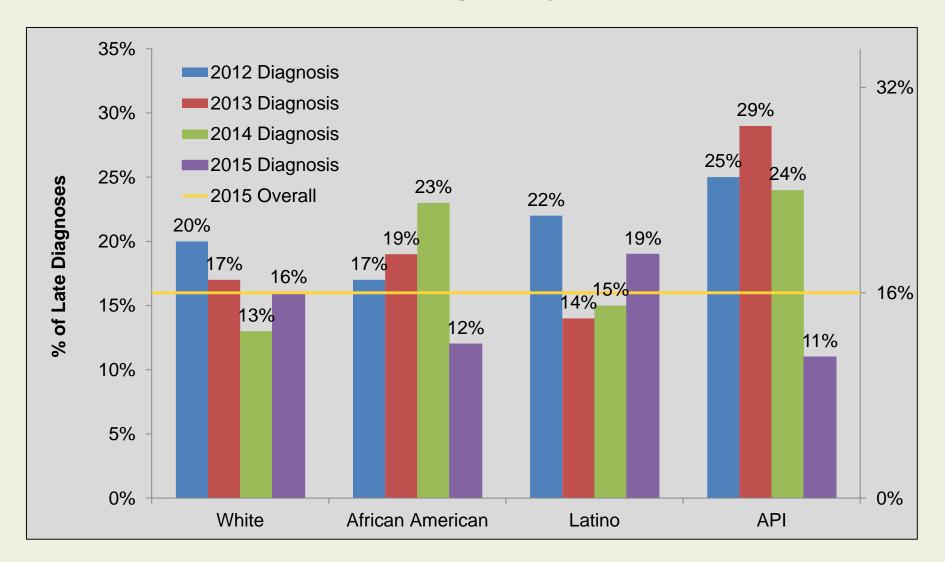


### Health Disparities Rate of New HIV Diagnoses among Women



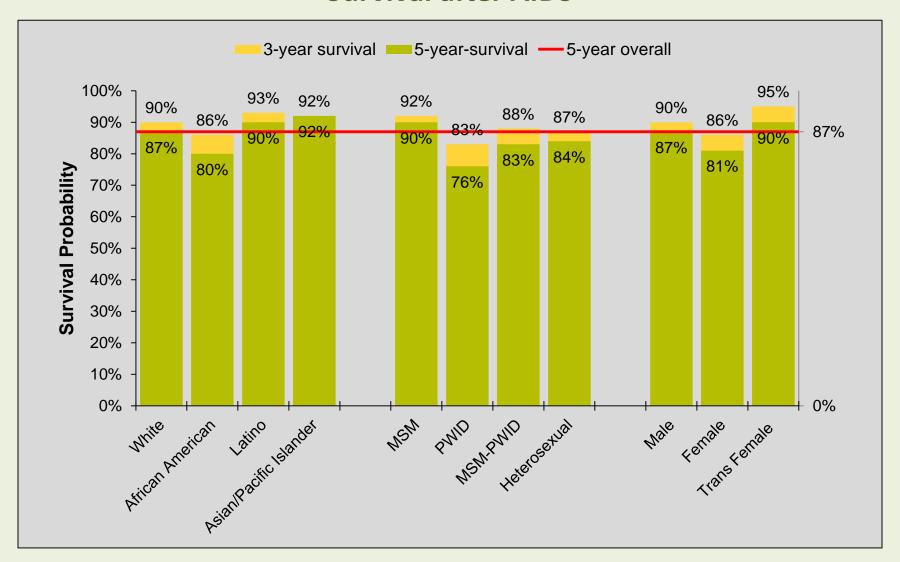
### **Health Disparities**

#### **Late HIV Diagnosis by Race**

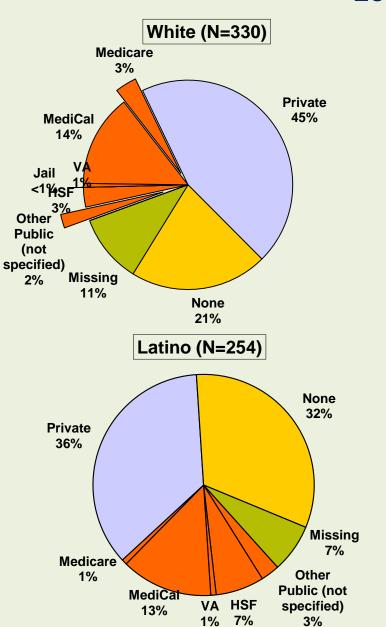


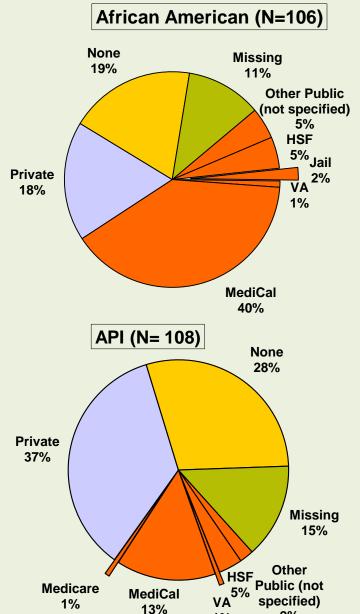
Ages 50+ have highest proportion of late diagnoses – 33% vs 16% overall

### **Health Disparities Survival after AIDS**



### Health insurance status at HIV diagnosis by race/ethnicity 2014-2016





1%

2%

# **Health Disparities Viral Suppression**

Table 3.4 Care indicators among persons living with HIV in 2015 who were last known to reside in San Francisco, by demographic and risk characteristics

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	Number of living cases <sup>1</sup>	% with >= 1 laboratory test in 2015 <sup>2</sup>	% with >=2 laboratory tests in 2015 <sup>2</sup>	% Virally suppressed (most recent viral load test in 2015 <200 copies/mL) <sup>2</sup>
Total	12,769	81%	61%	→ 73%
Gender				
Male	11,743	81%	61%	73%
Female	698	82%	63%	66%
Trans Female	328	84%	72%	67%
Race/Ethnicity				
White	7,294	82%	62%	75%
African American	1,600	82%	63%	67%
Latino	2,633	78%	59%	69%
Asian/Pacific Islander	756	81%	62%	75%
Other/Unknown	486	83%	59%	71%
Age in Years (as of 12/3	31/2015)			
13-24	94	81%	56%	68%
25-29	423	77%	53%	63%
30-39	1,737	75%	52%	63%
40-49	3,308	77%	56%	68%
50-59	4,522	83%	63%	76%
60-69	2,186	86%	72%	82%
70+	499	86%	74%	83%
Transmission Category	/			
MSM	9,437	81%	62%	76%
PWID	742	80%	63%	<b>→</b> 63%
MSM-PWID	1,903	80%	62%	66%
Heterosexual	447	82%	62%	69%
Other/Unidentified	240	59%	42%	55%
Housing Status, Most F	Recent			
Housed	12,468	81%	62%	74%
Homeless	301	52%	41%	<b>→</b> 31%

### **Closing the Gap**

### Populations with higher viral suppression after LINCS intervention

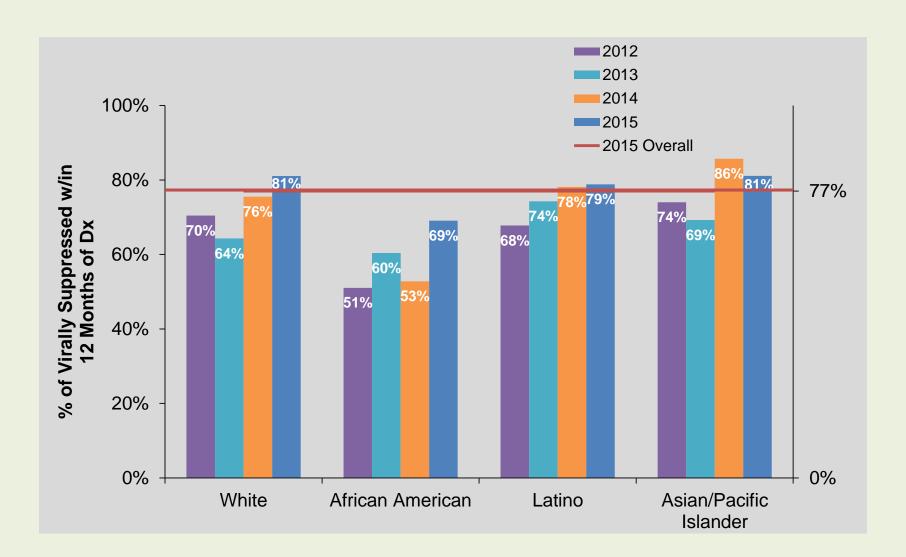
Table 3.5 Care indicators among persons who accepted and completed LINCS services in 2015 by demographic and risk characteristics, San Francisco

	Number of referred to LINCS	Number of accepted and completed LINCS	% Linked to care within 3 months of LINCS initiation <sup>1</sup>	% Retained in care 3-9 months after linkage <sup>1</sup>	%Virally suppressed at most recent test in 12 months after LINCS initiation <sup>1</sup>
Total	209	106	90%	64%	68%
Gender					
Male	172	83	89%	66%	72%
Female	23	16	94%	56%	56%
Trans Female	14	7	86%	57%	43%
Race/Ethnicity					
White	84	41	88%	59%	61%
African American	58	32	88%	59%	→ 88%
Latino	47	27	96%	78%	52%
Asian/Pacific Islander	11	3	100%	67%	67%
Other/Unknown	9	3	67%	67%	100%
Age in Years (as of 12/	31/15)				
13-24	8	5	100%	60%	100%
25-29	24	10	90%	70%	80%
30-39	55	28	79%	64%	54%
40-49	71	37	97%	62%	65%
50+	51	26	88%	65%	77%
Transmission Category	/				
MSM	98	51	92%	67%	73%
PWID	29	16	100%	69%	63%
MSM-PWID	72	32	81%	59%	63%
Heterosexual	7	5	80%	40%	60%
Other/Unidentified	3	2	100%	100%	100%
Housing Status					
Housed	158	76	89%	62%	64%
Homeless	51	30	90%	70%	<b>→</b> 77%

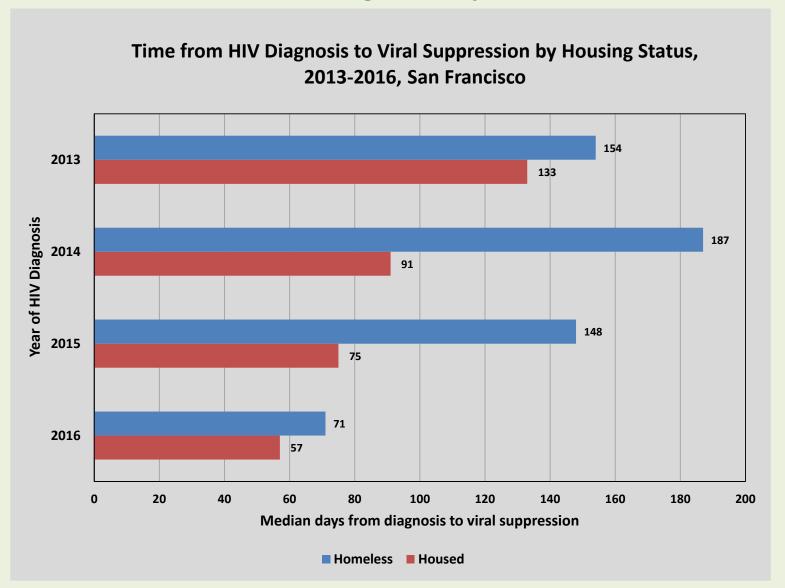
# Homeless persons diagnosed with HIV compared to all persons diagnosed with HIV 2006-2016

	Homeless l 2006-		HIV Cases 2006-2016		
	Number	(%)	Number	(%)	
Total	502		4,574		
Gender					
Male	380	( 76 )	4,090	(89)	
Female	72	(14)	340	(7)	
Trans Female	50	(10)	144	(3)	
Race/Ethnicity					
White	216	(43)	2,215	(48)	
African American	138	(27)	630	(14)	
Latino	97	( 19 )	1,069	(23)	
Asian/Pacific Islander	13	(3)	442	(10)	
Other/Unknown	38	(8)	218	(5)	
Transmission Category					
MSM	160	(32)	3,237	(71)	
PWID	126	( 25 )	302	(7)	
MSM-PWID	167	( 33 )	625	(14)	
Heterosexual	35	(7)	278	(6)	
Other/Unidentified	14	(3)	132	(3)	
Age at Diagnosis (Years)					
0 - 17	1	( <1 )	16	(<1)	
18 - 24	76	( 15 )	550	(12)	
25 - 29	97	(19)	756	(17)	
30 - 39	126	(25)	1,438	(31)	
40 - 49	122	(24)	1,204	(26)	
50+	80	( 16 )	610	(13)	

### Closing the Gap Viral Suppression Trends in Newly Diagnosed by Race/Ethnicity



### **Closing the Gap**



### **Summary**

#### Positive Trends

- Encouraging trends continued; plus new improvements
- Overall positive direction: new diagnoses, deaths, survival, late diagnoses, and HIV care continuum steps including faster time to care indicators

### Improvement Needed

- Health disparities persist. Not all San Franciscans are being reached or experiencing the same improvements
- Women, trans women, African-Americans, MSM and, in particular, the homeless experiencing many health disparities including:
  - disproportionately diagnosed
  - Poorer treatment and care outcomes
  - Poorer survival

### Gaps are Closing

- Many disparities are improving;
  - prevention and care indicators are improving even in demographic groups with relatively poor outcomes
- Number and rates of new diagnoses converging by race