Behavioral and Clinical Characteristics of People Living with Diagnosed HIV in California 2015-2017

California Department of Public Health Center for Infectious Diseases Office of AIDS Medical Monitoring Project





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Acknowledgments

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Note: The <u>appendix for this report</u> is a separate document and can be found at: https://www.cdph.ca.gov/Programs/CID/DOA/Pages/OAsre.aspx



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1. Background

The California Medical Monitoring Project (MMP) is an HIV surveillance activity that collects information about behavioral and clinical characteristics from Californians living with diagnosed HIV. The California MMP is part of a cross-sectional, nationally representative, complex sample survey that the Centers for Disease Control and Prevention (CDC) funds in multiple project areas throughout the United States and Puerto Rico [1]. Los Angeles and San Francisco Counties conduct MMP surveillance separately in their jurisdictions and the California Department of Public Health Office of AIDS (OA) conducts MMP surveillance throughout the rest of California.

In 2009, the CDC recognized that there was a lack of representative data about people living with HIV and implemented MMP. Through 2014, MMP used a probability sample of people living with HIV who were receiving HIV medical care [1]. The CDC revised the sampling method in 2015 to include all people living with diagnosed HIV, regardless of whether they were in care. Using the revised sampling method, OA behavioral and clinical surveillance staff collected the data presented in this report between June 2015 and May 2018. The OA MMP staff locate, recruit, and conduct interviews by phone or in-person with sampled participants and abstract information from their medical records from the two years prior to the interview date.

At the national level, MMP data complement National HIV Surveillance System (NHSS) data by providing detailed information about demographics, general health, HIV care, ancillary services use, sexual behaviors, mental health, substance use, discrimination, and HIV stigma among people living with diagnosed HIV (PLWDH). The MMP estimate of percentage of PLWDH who experienced homelessness in the past year serves as a progress indicator for the National HIV/ AIDS Strategy (NHAS) for the United States [2]. Experience of HIV stigma among PLWDH, which MMP measures, is under development as an NHAS progress indicator [3].

In California, OA uses MMP data to monitor progress towards goals described in "Laying a Foundation for Getting to Zero: California's Integrated Surveillance, Prevention, and Care Plan" of 1) increasing the percentage of sexually active PLWDH in care who are tested at least once a year for syphilis, gonorrhea, and chlamydia to at least seventy-five percent and 2) reducing the percentage of Californians living with diagnosed HIV infection who are homeless to less than five percent [4]. California MMP data also help to inform planning and decision-making for HIV and AIDS prevention and care programs and will guide development of OA's "Ending the Epidemics Strategic Plan."

As of December 31, 2017, 135,082 PLWDH were residing in California, a prevalence of 340.3 per 100,000 population [5]. The rate of new HIV diagnoses was 12.1 per 100,000 population, reflecting a 2.4% decrease from 12.4 per 100,000 population in 2013. About 74% of PLWDH in California were receiving HIV care in 2017 and 63% had achieved viral suppression. California's Integrated Plan objectives include increasing the percentage of PLWHD in care to a minimum of 90% and the rate of viral suppression to at least 80% [4].



2. Methods

MMP is a cross-sectional survey that, since 2015, has used stratified, 2-stage sampling to achieve a nationally representative sample of PLWDH in the United States and Puerto Rico [1]. In the first sampling stage, 23 project areas from 16 states and Puerto Rico were selected, including Los Angeles, San Francisco, and the California Project Area. The second sampling stage is carried out annually to select adults ages 18+ with diagnosed HIV infection from the NHSS. This report includes California Project Area MMP data from three annual cycles: 2015, 2016, and 2017. The sample for each annual cycle is drawn on December 31 of the prior year, data collection begins on June 1, and all cycle activities are completed by May 31 of the following year. For example, the sample for the 2015 cycle was drawn on December 31, 2014, data collection began on June 1, 2015, and the cycle ended on May 31, 2016.

Eligibility

People living in California (excluding Los Angeles and San Francisco) who, as of December 31 of the prior year, had received an HIV diagnosis and were at least 18 years old were eligible to be sampled for the California Project Area MMP.

Recruitment and Informed Consent

Staff contacted sampled people by phone and mailed letters. At both the national and local levels, MMP operated as a surveillance activity under a non-research determination. All MMP participants provided informed consent prior to the interview and signed a release of information granting access to their medical records.

Interviews

Trained Behavioral and Clinical Surveillance (BCS) staff conducted computer-assisted, structured interviews with participants either in-person or by phone. Interviews lasted approximately 1 hour and gathered information on participant demographics, clinical characteristics, health care and auxiliary services use, sexual behaviors,

mental health, and substance use. In-person interviews took place at participants' homes, private areas of clinics and doctor's offices, and private spaces within community-based settings such as public library conference rooms. Participants who completed interviews received tokens of appreciation in the form of \$50 chain store gift cards.

Medical Record Abstraction

Staff obtained interview participants' medical records for the two years prior to the interview. Trained BCS staff abstracted information on participant demographics, HIV diagnosis and clinical care, AIDS-related diagnoses, antiretroviral and other medication prescriptions, comorbidities, health care use, and HIV-related laboratory test results.

Data Management and Analysis

BCS staff encrypted computer-assisted interview files and transferred them to CDC using a secure data portal. BCS staff entered medical record abstraction (MRA) data into a secure, encrypted online database accessible to CDC. Staff at CDC cleaned the data and developed statistical weighting variables before returning interview and MRA datasets to OA through secure file transfer.

Estimates presented in this report are weighted to account for probability of selection, non-response, and multiplicity (rare instances in which a sampled participant has one or more duplicate NHSS records) [1]. Estimates with a coefficient of variation ≥0.30, a denominator sample size <30, an absolute CI width ≥0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. Percentages may not sum to 100 and frequency numbers may not sum to the total N due to rounding and missing data in some categories.



Participant Response Rates

For each annual cycle, the California Project Area received a sample of 500 PLWDH. In 2015, 176 (35.2%) sampled persons completed interviews (Table 2.1). In 2016, 221 (44.2%) sampled persons completed interviews. In 2017, 229 (45.8%) sampled persons completed interviews. The

combined 2015-2017 estimates reflect data from 626 participants out of 1500 sampled persons, resulting in an overall response rate of 41.7%. Tables and text in this report refer to combined 2015-2017 MMP data unless otherwise noted. Appendix tables contain estimates for 2015, 2016, and 2017 data individually.

2.1. Participant Response Rates - Medical Monitoring Project, CA, 2015-2017			
Year	# Sampled	# Participating	% Participating
2015	500	176	35.2%
2016	500	221	44.2%
2017	500	229	45.8%
TOTAL	1,500	626	41.7%



3. Population Characteristics

Most California Project Area PLWHD were men (86%), 13% were women, and less than 1% were transgender (Table 3.1). More than half reported being lesbian or gay (58%), 28% heterosexual or straight, and 10% bisexual. About 40% were

of non-Lantinx white race/ethnicity, 34% were Latinx, 16% were black/African-American and 7% reported multiple racial identities. About 3% were Asian, American Indian/Alaska Native or Native Hawaiian/other Pacific Islander. About two

3.1. Demographics - Medical Monitoring Project, CA, 2015-2017			
	Numbera	Percentage ^b	95% Cl ^c
Gender			
Male Female Transgender ^d	524 98 <5 obs.	86.1% 13.4% 0.5%*	83.2-89.0 10.5-16.2 0.0-1.1
Sexual Orientation			
Lesbian or gay Heterosexual or straight Bisexual Other	357 180 59 23	57.6% 28.2% 10.1% 4.1%	53.0-62.1 24.2-32.3 7.3-12.9 2.1-6.1
Race/Ethnicity	'		'
American Indian/Alaska Native Asian Black/African American Latinx ^e Native Hawaiian/Other Pacific Islander White Multiple races	7 13 104 208 <5 obs. 250 42	1.1%* 2.3%* 16.1% 33.9% 0.2%* 39.9% 6.6%	0.1-2.0 0.9-3.6 12.8-19.3 29.5-38.3 0.0-0.4 35.4-44.5 4.4-8.9
Age at Time of Interview (yr)			
18-24 25-34 35-44 45-54 ≥55	10 77 107 207 225	1.6%* 12.9% 18.1% 32.9% 34.5%	0.4-2.7 9.7-16.2 14.4-21.8 28.6-37.1 30.2-38.8
Education			
Less than high school High school diploma or GED More than high school	82 129 413	12.6% 20.5% 66.9%	9.7-15.5 16.9-24.2 62.6-71.1



3.1. Demographics - Medical Monitoring Project, CA, 2015-2017 (cont.)

	Number ^a	Percentage ^b	95% Cl ^c
Country or Territory of Birth			
United States or U.S. territory	480	77.0%	73.2-80.8
Foreign born	143	23.0%	19.2-26.8
Time Since HIV Diagnosis (yr)			
<5	106	18.4%	14.7-22.1
5–9	124	20.4%	16.6-24.2
≥10	395	61.2%	56.6-65.7
TOTAL	626	100.0%	

Abbreviations: CI, confidence interval; GED, general educational development. Note: Estimates with a coefficient of variation ≥0.30, a denominator sample size <30, an absolute CI width ≥0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages. ^d People were classified as transgender if sex at birth and gender reported by the person were different, or if the person chose "transgender" in response to the question about self-identified gender. ^e Latinx people might be of any race. Persons are classified in only one race/ethnicity category.

thirds (67%) were ages 45 and older and about 15% were under the age of 35. Nearly one quarter (23%) reported having been born in a country other than the United States. The majority (61%) had been living with diagnosed HIV for 10 or more years at the time of the interview, 20% for five to nine years, and 18% for fewer than five years.

In the 12 months prior to the interview, 12% of PLWDH had experienced homelessness, 22% had gone without food due to lack of money, and 28% were living at or below the federal poverty threshold (Table 3.2). Thirty-nine percent reported any disability and about one quarter (27%) received social security disability insurance (SSDI).

More than half (58%) were employed or retired and 40% were unemployed. Two thirds reported a combined yearly household income below \$40,000.

Nearly all PLWDH reported having health insurance or coverage for medications in the 12 months prior to the interview (Table 3.3). Half (49%) received medication coverage through the Ryan White or AIDS Drug Assistance Programs, 54% through Medicaid, 37% through private health insurance, 32% through Medicare, 11% through other public insurance, and 6% through Tricare/CHAMPUS or the Veterans Administration.

3.2. Characteristics, Past 12 Months - Medical Monitoring Project, CA, 2015-2017

	Numbera	Percentage ^b	95% CI ^c
Homeless at Any Time, Past 12 Months ^d			
Yes	59	11.5%	8.2-14.8
No	565	88.5%	85.2-91.8



3.2. Characteristics, Past 12 Months - Medical Monitoring Project, CA, 2015-2017 (cont.)

Number				
Yes 21 4.0% 2.1-6.0 No 603 96.0% 94.0-97.9 Any Disability* 261 38.5% 34.1-42.9 No 362 61.5% 57.1-65.9 Received Supplemental Security Income (SSI) V Yes 113 17.8% 14.4-21.3 No 507 82.2% 78.7-85.6 Received Social Security Disability Insurance (SSDI) V 26.9% 22.9-30.9 No 451 73.1% 69.1-77.1 Went Without Food Due to Lack of Money V 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 17.7-25.6 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 18.3% 74.4-82.3 1		Number	Percentage ^b	95% Cl ^c
No 603 96.0% 94.0-97.9 Any Disability* Yes 261 38.5% 34.1-42.9 No 362 61.5% 57.1-65.9 Received Supplemental Security Income (SSI) Yes 113 17.8% 14.4-21.3 No 507 82.2% 78.7-85.6 Received Social Security Disability Insurance (SSDI) Yes 172 26.9% 22.9-30.9 No 451 73.1% 69.1-77.1 Went Without Food Due to Lack of Money Yes 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 Employment Status' Employed 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 12-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)* Combined Yearly Household Income (U.S.\$)* 0-19,999 260 <td< td=""><td>Incarcerated > 24 Hours, Past 12 Months</td><td></td><td></td><td></td></td<>	Incarcerated > 24 Hours, Past 12 Months			
Any Disability* Yes 261 38.5% 34.1-42.9 No 362 61.5% 57.1-65.9 Received Supplemental Security Income (SSI) Yes 113 17.8% 14.4-21.3 No 507 82.2% 78.7-85.6 Received Social Security Disability Insurance (SSDI) Yes 172 26.9% 22.9-30.9 No 451 73.1% 69.1-77.1 Went Without Food Due to Lack of Money Yes 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 Employment Status* Employed 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 12-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)* 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6%	Yes	21	4.0%	2.1-6.0
Yes 261 38.5% 34.1-42.9 No 362 61.5% 57.1-65.9 Received Supplemental Security Income (SSI) Yes 113 17.8% 14.4-21.3 No 507 82.2% 78.7-85.6 Received Social Security Disability Insurance (SSDI) Yes 172 26.9% 22.9-30.9 No 451 73.1% 69.1-77.1 Went Without Food Due to Lack of Money Yes 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 Employment Status' Employment Status' 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)* 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 <	No	603	96.0%	94.0-97.9
No 362 61.5% 57.1-65.9 Received Supplemental Security Income (SSI) Yes 113 17.8% 14.4-21.3 No 507 82.2% 78.7-85.6 Received Social Security Disability Insurance (SSDI) Yes 172 26.9% 22.9-30.9 No 451 73.1% 69.1-77.1 Went Without Food Due to Lack of Money Yes 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 Employment Status¹ Employment Status¹ 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)* 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1%	Any Disability ^e			
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Yes 113 17.8% 14.4-21.3 No 507 82.2% 78.7-85.6 Received Social Security Disability Insurance (SSDI) Yes 172 26.9% 22.9-30.9 No 451 73.1% 69.1-77.1 Went Without Food Due to Lack of Money Yes 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 Employment Status¹ Employed 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)* 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines* Above poverty threshold 437 72.3% 68.2-76.4	No	362	61.5%	57.1-65.9
No 507 82.2% 78.7-85.6 Received Social Security Disability Insurance (SSDI) Yes 172 26.9% 22.9-30.9 No 451 73.1% 69.1-77.1 Went Without Food Due to Lack of Money Yes 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 Employment Status' Employed 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)* 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines* Above poverty threshold 437 72.3% 68.2-76.4	Received Supplemental Security Income	(SSI)		
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Yes 172 26.9% 22.9-30.9 No 451 73.1% 69.1-77.1 Went Without Food Due to Lack of Money Yes 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 Employment Status¹ Employed 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)* 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines* Above poverty threshold 437 72.3% 68.2-76.4	No	507	82.2%	78.7-85.6
No 451 73.1% 69.1-77.1 Went Without Food Due to Lack of Money Yes 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 Employment Status¹ Employed 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)* 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines* Above poverty threshold 437 72.3% 68.2-76.4	Received Social Security Disability Insur	ance (SSDI)	,	
Went Without Food Due to Lack of Money Yes 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 Employment Status¹ Employed 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)² 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines¹¹ Above poverty threshold 437 72.3% 68.2-76.4	Yes	172	26.9%	22.9-30.9
Yes 128 21.7% 17.7-25.6 No 496 78.3% 74.4-82.3 Employment Status¹ Employed 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)** 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines* Above poverty threshold 437 72.3% 68.2-76.4	No	451	73.1%	69.1-77.1
No 496 78.3% 74.4-82.3 Employment Status¹ Employed Employed 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)* 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines* Above poverty threshold 437 72.3% 68.2-76.4	Went Without Food Due to Lack of Money			'
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Employed 288 46.4% 41.8-51.0 Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)³ 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines ^h Above poverty threshold 437 72.3% 68.2-76.4	No	496	78.3%	74.4-82.3
Unemployed 252 39.5% 35.0-43.9 Student 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$)* 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines* Above poverty threshold 437 72.3% 68.2-76.4	Employment Status ^f			
Student Retired 15 2.5% 1.2-3.7 Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$) ⁹ 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines ^h Above poverty threshold 437 72.3% 68.2-76.4	Employed	288	46.4%	41.8-51.0
Retired 68 11.7% 8.7-14.7 Combined Yearly Household Income (U.S.\$) ^g 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelinesh Above poverty threshold 437 72.3% 68.2-76.4				
Combined Yearly Household Income (U.S.\$)g 0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelinesh Above poverty threshold 437 72.3% 68.2-76.4				
0-19,999 260 42.0% 37.4-46.6 20,000-39,999 147 25.4% 21.2-29.5 40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelinesh Above poverty threshold 437 72.3% 68.2-76.4			11.7%	8.7-14.7
20,000–39,999 147 25.4% 21.2-29.5 40,000–74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelinesh Above poverty threshold 437 72.3% 68.2-76.4	Combined Yearly Household Income (U.S.	.\$) ⁹		l
40,000-74,999 107 17.6% 14.0-21.1 ≥75,000 98 15.1% 11.9-18.2 Poverty Guidelinesh Above poverty threshold 437 72.3% 68.2-76.4	,			
≥75,000 98 15.1% 11.9-18.2 Poverty Guidelines ^h Above poverty threshold 437 72.3% 68.2-76.4				
Poverty Guidelines ^h Above poverty threshold 437 72.3% 68.2-76.4				
Above poverty threshold 437 72.3% 68.2-76.4		90	13.170	11.9-10.2
	•	427	72.20/	602.764
At of below poverty threshold 1/5 27.7% 23.0-31.8				
	· ·			23.0-31.0
TOTAL 626 100.0%	TOTAL	626	100.0%	

Abbreviations: CI, confidence interval; U.S.\$, U.S. dollar. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages. ^d Living on the street, in a shelter, in a single-room–occupancy hotel, or in a car. ^e Includes physical, mental, and emotional disabilities. ^f Employed includes employed for wages, self-employed, or homemaker. ^g Income from all sources, before taxes, in the last calendar year. ^h Poverty guidelines as defined by Federal Health and Human Services.



3.3. Health Insurance Coverage, Past 12 Months - Medical Monitoring Project, CA, 2015-2017

	Numbera	Percentage ^b	95% Cl ^c
Health Insurance or Coverage for Medica	tions ^d		
Yes	621	99.1%	97.9-100.0
No	<5 obs.	0.9%*	0.0-2.1
Type of Health Insurance or Coverage fo	r Medications:		
Ryan White or ADAP			
Yes	316	48.7%	44.1-53.4
No	299	51.3%	46.6-55.9
Medicaid			
Yes	343	53.5%	48.8-58.1
No	279	46.5%	41.9-51.2
Private Health Insurance	ı	l	
Yes	240	37.1%	32.7-41.5
No	377	62.9%	58.5-67.3
Medicare	ı	l	
Yes	205	32.0%	27.8-36.3
No	410	68.0%	63.7-72.2
Other Public Insurance	ı	I	
Yes	59	11.2%	8.0-14.5
No	553	88.8%	85.5-92.0
Tricare/CHAMPUS or Veterans Administration			
Yes	26	5.7%	3.2-8.2
No	589	94.3%	91.8-96.8
Insurance Type Unknown ^e			
Yes	<5 obs.	0.5%*	0.0-1.1
No	612	99.5%	98.9-100.0
TOTAL	626	100.0%	

Abbreviations: CI, confidence interval; CHAMPUS, Civilian Health and Medical Program of the Uniformed Services; ADAP, AIDS Drug Assistance Program. Note: Estimates with a coefficient of variation ≥0.30, a denominator sample size <30, an absolute CI width ≥0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages. ^d Persons could select more than 1 response for health insurance or coverage for medications (including antiretroviral medications). ^e Unknown insurance type means that the person had insurance or coverage for medications (including antiretroviral medications), but the type of insurance or coverage could not be determined.



4. Clinical Characteristics and Health Care Services Use

More than half (57%) had clinical characteristics consistent with HIV infection, stage 3 (AIDS) in the 12 months prior to the interview, defined as documentation of an AIDS-defining condition

or either a CD4 count of <200 cells/ μ L or a CD4 percentage of total lymphocytes of <14 (Table 4.1). Two-thirds (66%) had achieved sustained viral suppression (all past 12-month viral load

4.1. HIV Disease Stage, CD4+ Lymphocyte Counts, and Viral Suppression, Past 12 Months - Medical Monitoring Project, CA, 2015-2017

	Numbera	Percentage ^b	95% Cl ^c
HIV Infection Stage 3 (AIDS) ^d			
Yes No	363 263	57.1% 42.9%	52.6-61.7 38.3-47.4
Geometric Mean CD4 Count (cells/μL)			
0–199 200–349 350–499 ≥500	37 54 97 313	7.8% 9.6% 19.6% 63.0%	5.1-10.5 7.0-12.3 15.6-23.5 58.2-67.8
Lowest CD4 Count (cells/µL), Past 12 Months	5		
0-49 50-199 200-349 350-499 ≥500	14 42 66 99 287	2.9% 8.6% 11.3% 19.6% 57.5%	1.3-4.5 5.8-11.5 8.5-14.1 15.7-23.5 52.7-62.4
Viral Suppression			
Most recent viral load documented Most recent viral load documented detectable, ≥200 copies/mL, or missing/unknown	456 170	71.3% 28.7%	67.0-75.6 24.4-33.0
Sustained Viral Suppression			
All viral load measurements documented Any viral load ≥200 copies/mL or missing unknown	425 201	65.8% 34.2%	61.3-70.3 29.7-38.7
TOTAL	626	100.0%	

Abbreviations: CD4, CD4 T-lymphocyte count (cells/µL); CI, confidence interval. Source of disease stage information: CDC. Revised surveillance case definition for HIV infection—United States, 2014. MMWR 2014;63(RR-03):1–10. https://www.cdc.gov/mmwr/indrr-2014.html. Accessed August 21, 2019. Note: CD4 counts and viral load measurements are from medical record abstraction.
^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c Cls incorporate weighted percentages. ^d HIV infection, stage 3 (AIDS): documentation of an AIDS-defining condition or either a CD4 count of <200 cells/µL or a CD4 percentage of total lymphocytes of <14. Documentation of an AIDS-defining condition supersedes a CD4 count or percentage that would not, by itself, be the basis for a stage 3 (AIDS) classification.



measurements documented undetectable or <200 copies/mL). Past 12-month HIV care retention was seen in 84% of PLWDH and 63% had been

retained in HIV care for 24 months prior to the interview (Table 4.2).

4.2. Receipt and Quality of HIV Care, Past 12 Months - Medical Monitoring Project, CA, 2015-2017

Number	CA, 2015-2017				
Yes 626 100.0% 100.0-100.0 Received Outpatient HIV Care, Past 12 Months ^d Yes 623 99.0% 97.8-100.0 No <5 obs.		Numbera	Percentage ^b	95% Cl ^c	
No	Ever Received Outpatient HIV Care ^d				
Yes 623 99.0% 97.8-100.0 No <5 obs.	Yes	626	100.0%	100.0-100.0	
No <5 obs. 1.0%* 0.0-2.2 Received Outpatient HIV Care, Past 24 Months ^d Yes 623 99.0% 97.8-100.0 No <5 obs.	Received Outpatient HIV Care, Past 12 Mo	onths ^d			
Yes 623 99.0% 97.8-100.0 No <5 obs.					
No	Received Outpatient HIV Care, Past 24 Mo	onthsd			
Yes 515 84.0% 80.3-87.7 No 89 16.0% 12.3-19.7 Retained in Care, Past 24 Months* Yes 387 62.6% 58.0-67.2 No 216 37.4% 32.8-42.0 Prescribed ART, Past 12 Months* Yes 543 84.7% 81.1-88.3 No 83 15.3% 11.7-18.9 Prescribed PCP Prophylaxis, Past 12 Months* Yes 19 31.9% 18.3-45.4 No 30 68.1% 54.6-81.7 Prescribed MAC Prophylaxis, Past 12 Months* Yes <5 obs.					
No 89 16.0% 12.3-19.7 Retained in Care, Past 24 Monthse Yes 387 62.6% 58.0-67.2 No 216 37.4% 32.8-42.0 Prescribed ART, Past 12 Monthsf Yes 543 84.7% 81.1-88.3 No 83 15.3% 11.7-18.9 Prescribed PCP Prophylaxis, Past 12 Monthsg Yes 19 31.9% 18.3-45.4 No 30 68.1% 54.6-81.7 Prescribed MAC Prophylaxis, Past 12 Monthsh Yes <5 obs.	Retained in Care, Past 12 Months ^e				
Yes 387 62.6% 58.0-67.2 No 216 37.4% 32.8-42.0 Prescribed ART, Past 12 Monthsf Yes 543 84.7% 81.1-88.3 No 83 15.3% 11.7-18.9 Prescribed PCP Prophylaxis, Past 12 Monthsf Yes 19 31.9% 18.3-45.4 No 30 68.1% 54.6-81.7 Prescribed MAC Prophylaxis, Past 12 Monthsf Yes <5 obs.					
No 216 37.4% 32.8-42.0 Prescribed ART, Past 12 Months⁴ Yes 543 84.7% 81.1-88.3 No 83 15.3% 11.7-18.9 Prescribed PCP Prophylaxis, Past 12 Months⁴ Yes 19 31.9% 18.3-45.4 No 30 68.1% 54.6-81.7 Prescribed MAC Prophylaxis, Past 12 Months⁴ Yes <5 obs.	Retained in Care, Past 24 Months ^e				
Yes 543 84.7% 81.1-88.3 No 83 15.3% 11.7-18.9 Prescribed PCP Prophylaxis, Past 12 Months ⁹ Yes 19 31.9% 18.3-45.4 No 30 68.1% 54.6-81.7 Prescribed MAC Prophylaxis, Past 12 Months ^h Yes <5 obs.					
No 83 15.3% 11.7-18.9 Prescribed PCP Prophylaxis, Past 12 Months ⁹ Yes 19 31.9% 18.3-45.4 No 30 68.1% 54.6-81.7 Prescribed MAC Prophylaxis, Past 12 Months ^h Yes <5 obs.	Prescribed ART, Past 12 Months ^f				
Yes 19 31.9% 18.3-45.4 No 30 68.1% 54.6-81.7 Prescribed MAC Prophylaxis, Past 12 Monthsh Yes <5 obs.					
No 30 68.1% 54.6-81.7 Prescribed MAC Prophylaxis, Past 12 Monthsh Yes <5 obs.	Prescribed PCP Prophylaxis, Past 12 Mon	ths ^g			
Yes <5 obs. 12.2%* 0.0-34.4 No 10 87.8%* 65.6-100.0 Received Influenza Vaccination, Past 12 Months Yes 490 78.5% 74.6-82.3 No 132 21.5% 17.7-25.4					
No 10 87.8%* 65.6-100.0 Received Influenza Vaccination, Past 12 Months Yes 490 78.5% 74.6-82.3 No 132 21.5% 17.7-25.4	Prescribed MAC Prophylaxis, Past 12 Months ^h				
Yes 490 78.5% 74.6-82.3 No 132 21.5% 17.7-25.4					
No 132 21.5% 17.7-25.4	Received Influenza Vaccination, Past 12 Months				
TOTAL 626 100.0%					
	TOTAL	626	100.0%		

Abbreviations: CI, confidence interval; ART, antiretroviral therapy; PCP, Pneumocystis pneumonia; MAC, Mycobacterium avium complex; CD4, CD4 T-lymphocyte count (cells/µL). Note: CD4 counts, viral load measurements, prophylaxes, and vaccinations are from medical record abstraction. Measurement period is the 12 months before the interview unless otherwise noted. Note: Estimates with a coefficient of variation ≥0.30, a denominator sample size <30, an absolute CI width ≥0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages. ^d Outpatient HIV care was defined as any documentation of the following: encounter with an HIV care provider, viral load test result, CD4 test result, HIV resistance test or tropism assay, ART prescription, PCP prophylaxis, or MAC prophylaxis. ^e Two elements of outpatient HIV care at least 90 days apart in each 12-month period. ^f ART prescription documented in medical record; persons with no medical record abstraction were considered to have no documentation of ART prescription. ^g Among persons with CD4 cell count <200 cells/µL. ^h Among persons with CD4 cell count <50 cells/µL.



Nearly all (98%) had ever taken antiretroviral medications (ART) and 94% were currently on ART (Table 4.3). Among those who been on ART in the

past but were not currently taking it, the most commonly cited reasons were money or insurance problems and not believing they needed ART.

4.3. Antiretroviral Therapy (ART) Use - Medical Monitoring Project, CA, 2015-2017			
	Numbera	Percentage ^b	95% Cl ^c
Ever Taken ART			
Yes No	616 8	98.3% 1.7%*	96.9-99.6 0.4-3.1
Currently Taking ART			
Yes No	595 29	93.5% 6.5%	90.9-96.1 3.9-9.1
Reasons for Never Taking ART ^d :			
Health care provider never discussed t	aking ART with pe	rson	
Yes No	0 8	0.0%* 100.0%*	
Health care provider said person shou	ld not start taking	ART	
Yes No	6 <5 obs.	68.1%* 31.9%*	29.9-100.0 0.0-70.1
Money or insurance problems			
Yes No	<5 obs. 7	10.8%* 89.2%*	0.0-31.5 68.5-100.0
Person doesn't believe he/she needs A	RT		
Yes No	<5 obs. <5 obs.	26.6%* 73.4%*	0.0-59.1 40.9-100.0
Person thinks ART would make him/he	er feel sick or harm	him/her	
Yes No	<5 obs. <5 obs.	26.1%* 73.9%*	0.0-59.3 40.7-100.0
Person decided not to take ART for son	ne other reason		
Yes No	<5 obs. <5 obs.	33.8%* 66.2%*	0.0-72.0 28.0-100.0
Reasons for Not Currently Taking ART, Among Those with a History of ART Used:			
Health care provider never discussed r	restarting ART with	person	
Yes No	<5 obs. 17	34.9%* 65.1%*	9.3-60.6 39.4-90.7
Health care provider said person should not take ART			
Yes No	<5 obs. 19	5.0%* 95.0%*	0.0-13.0 87.0-100.0



4.3. Antiretroviral Therapy (ART) Use - Medical Monitoring Project, CA, 2015-2017 *(cont.)*

	Numbera	Percentage ^b	95% Cl ^c
Money or insurance problems			
Yes No	10 11	47.7%* 52.3%*	22.8-72.5 27.5-77.2
Person doesn't believe he/she needs A	IRT		
Yes No	9 12	48.5%* 51.5%*	23.5-73.4 26.6-76.5
Person thinks ART would make him/he	er feel sick or harm	him/her	
Yes No	<5 obs. 16	26.6%* 73.4%*	4.4-48.8 51.2-95.6
Person decided not to take ART for son	ne other reason		
Yes No	8 13	44.3%* 55.7%*	19.6-69.1 30.9-80.4
TOTAL	626	100.0%	

Abbreviation: CI, confidence interval. Note: Estimates with a coefficient of variation ≥0.30, a denominator sample size <30, an absolute CI width ≥0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages. ^d Persons could select more than one response for reasons not taking ART.

Self-reported number of missed ART doses in the past 30 days ranged from 0 to eleven or more, with most (86%) reporting 0, 1, or 2 missed doses (Table 4.4). The most commonly cited reasons for the most recent missed ART dose were forgetting

to take HIV medicine (56%); change in daily routine or being out of town (35%); falling asleep early or oversleeping (34%); and having trouble getting a prescription, a refill, insurance coverage, or paying for HIV medicines (21%).

4.4. Antiretroviral Therapy (ART) Adherence - Medical Monitoring Project, CA, 2015-2017

2013 2017			
	Numbera	Percentage ^b	95% CI ^c
ART Adherence in the Past 30 Days:			
How many days did you miss at least 1	dose of any of you	r HIV medicines?	
0	356	60.2%	55.6-64.9
1–2	154	26.2%	22.1-30.3
3–5	61	9.5%	6.8-12.2
6–10	18	3.1%*	1.2-5.0
11+	6	1.0%*	0.2-1.8



4.4. Antiretroviral Therapy (ART) Adherence - Medical Monitoring Project, CA, 2015-2017 *(cont.)*

	Numbera	Percentage ^b	95% Cl ^c
How well did you do at taking your HIV	medicines in the v	vay you were supp	osed to?
Very poor Poor Fair Good Very good Excellent	6 11 35 82 152 309	0.8%* 2.0%* 7.1% 12.3% 24.6% 53.2%	0.1-1.4 0.5-3.5 4.3-9.9 9.4-15.1 20.7-28.5 48.5-57.9
How often did you take your HIV medic	cines in the way yo	u were supposed to	?
Never Rarely Sometimes Usually Almost always Always	<5 obs. <5 obs. 14 29 168 377	0.8%* 0.7%* 2.1%* 4.4% 27.4% 64.6%	0.0-1.7 0.0-1.3 0.7-3.5 2.7-6.2 23.2-31.6 60.1-69.1
How often were you troubled by ART si	ide effects?		
Never Rarely About half the time Most of the time Always	375 118 43 28 24	64.4% 19.1% 7.0% 5.3% 4.2%	59.9-68.8 15.5-22.6 4.6-9.4 3.1-7.5 2.4-6.1
Reasons for Last Missed ART Dosed:			
Had a problem getting a prescription, a	refill, insurance co	verage, or paying t	for HIV medicines
Yes No	119 473	20.6% 79.4%	16.7-24.4 75.6-83.3
In the hospital or too sick to take HIV n	nedicines		
Yes No	52 540	7.9% 92.1%	5.3-10.5 89.5-94.7
Fell asleep early or overslept			
Yes No	203 389	34.4% 65.6%	29.9-38.9 61.1-70.1
Change in your daily routine or were o	ut of town		
Yes No	212 378	34.7% 65.3%	30.3-39.1 60.9-69.7



4.4. Antiretroviral Therapy (ART) Adherence - Medical Monitoring Project, CA, 2015-2017 *(cont.)*

	Numbera	Percentage ^b	95% Cl ^c				
Had side effects from your HIV medicines							
Yes No	55 537	8.6% 91.4%	6.1-11.0 89.0-93.9				
Felt depressed or overwhelmed							
Yes No	98 494	15.4% 84.6%	12.1-18.8 81.2-87.9				
Was drinking or using drugs							
Yes No	46 546	7.4% 92.6%	5.0-9.9 90.1-95.0				
Forgot to take HIV medicines							
Yes No	328 264	56.3% 43.7%	51.6-60.9 39.1-48.4				
Did not feel like taking HIV medicines							
Yes No	82 510	13.3% 86.7%	10.1-16.5 83.5-89.9				
TOTAL	595	100.0%					

Abbreviation: CI, confidence interval. Note: Estimates with a coefficient of variation ≥0.30, a denominator sample size <30, an absolute CI width ≥0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages. ^d People could report more than one reason for last missed ART dose.



No statistically significant differences in ART prescription, dose adherence, and sustained viral

suppression rates were seen by gender, sexual orientation, race/ethnicity, or age group (Table 4.5).

4.5												otion stics -												
Viral	95% CIe		8.69-0.09	60.9-82.3	16.7-100.0		62.9-74.5	55.0-71.5	44.5-74.4	35.5-85.0		0.0-74.7	15.3-74.4	52.5-74.1	57.6-72.8		61.1-75.5	54.5-87.6		36.9-74.5	48.5-72.5	57.5-76.7	62.0-73.7	61.3-70.3
Sustained Viral Suppression ^b	p%		64.9%	71.6%	*%0.79		68.7%	63.3%	86.5%	60.3%*		35.8%*	44.9%*	63.3%	65.2%	100.0%	68.3%	71.1%*		55.7%*	60.5%	67.1%	%6′.29	65.8%
S	#		350	72	<5 obs.		248	119	39	15		<5 obs.	7	89	137	<5 obs.	178	30		21	28	102	244	425
ART Dose Adherence ^a	95% Cle		54.9-65.1	51.8-73.4	0.0-94.6*		54.7-67.0	57.0-72.6	33.3-64.4	20.0-68.6		2.8-89.2	66.6-100.0	44.6-67.0	50.1-66.2	ļ	54.9-69.6	44.5-78.6		53.5-86.9	42.9-67.1	50.0-70.1	54.6-66.7	55.6-64.9
ose Adl	p%		%0.09	62.6%	45.3%		%8.09	64.8%	48.8%*	44.3%*		46.0%	85.7%*	55.8%	58.2%	100.0%	62.3%	61.5%*		70.2%*	55.0%	%0.09	%2'09	60.2%
ARTC	#		297	57	<5 obs.		210	106	27	10		<5 obs.	10	57	112	<5 obs.	148	24		21	46	84	205	356
of ART	95% Cle		80.5-88.3	77.6-94.9	-		80.7-90.1	77.1-90.7	66.2-91.5	80.7-100.0		5.0-95.0	31.3-94.4	72.4-92.9	77.0-89.4	!	82.5-92.6	85.6-100.0		70.1-98.2	69.1-90.2	75.7-91.3	82.3-91.1	81.1-88.3
Prescription of ART	p%		84.4%	86.3%	100.0%		85.4%	83.9%	78.9%	91.4%		*%0.03	62.9%*	82.6%	83.2%	100.0%	87.6%	95.9%		84.2%	79.7%	83.5%	%2'98	84.7%
Pres	#		453	98	<5 obs.		312	155	49	20		<5 obs.	6	92	179	<5 obs.	219	38	(yr)	34	77	125	307	543
		Gender	Male	Female	Transgender ^f	Sexual Orientation	Lesbian or gay	Heterosexual or straight	Bisexual	Other	Race/Ethnicity	American Indian/Alaska Native	Asian	Black/African American	Latinx ⁹	Native Hawaiian/Other Pacific Islander	White	Multiple Races	Age at Time of Interview	18–29	30–39	40–49	>50	TOTAL

Abbreviations: CI, confidence interval. Note: Estimates with a coefficient of variation \geq 0.30, a denominator sample size <30, an absolute CI width \geq 0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. In past 30 days, 100% adherence to ART doses. In All viral load measurements in the 12 months before the interview documented undetectable or <200 copies/mL. Numbers are unweighted. Percentages are weighted percentages. CIs incorporate weighted percentages. People were classified as transgender if sex at birth and gender reported by the person were different, or if the person chose "transgender" in response to the question about self-identified gender. Latinx people might be of any race. Persons are classified in only one race/ethnicity category.



About half received a syphilis test in 12 months prior to the interview, 39% received a test for

chlamydia, 38% received a test for gonorrhea, and 34% received all three tests (Table 4.6).

4.6. Sexually Transmitted Infections Testing - Medical Monitoring Project, CA, 2015-2017

	Total Population		Sexually	Active ^a Pe	ople Only	
	#b	% ^c	95% Cl ^d	#b	% ^c	95% Cl ^d
Gonorrheae						
Yes, received test	223	37.6%	33.0-42.2	151	42.2%	36.0-48.4
No test documented	363	62.4%	57.8-67.0	195	57.8%	51.6-64.0
Chlamydia ^f						
Yes, received test	227	38.6%	34.0-43.2	155	43.8%	37.5-50.0
No test documented	359	61.4%	56.8-66.0	191	56.2%	50.0-62.5
Syphilis ⁹						
Yes, received test	337	56.0%	51.2-60.7	212	59.0%	52.7-65.3
No test documented	249	44.0%	39.3-48.8	134	41.0%	34.7-47.3
Gonorrhea, Chlamydia, and Sypl	nilis					
Yes, received all 3 tests	203	33.9%	29.5-38.3	212	59.0%	52.7-65.3
Fewer than 3 tests documented	383	66.1%	61.7-70.5	134	41.0%	34.7-47.3
TOTAL	626	100.0%		368	100.0%	

Abbreviations: CI, confidence interval; DFA, direct fluorescent antibody; EIA, enzyme immunoassay; ELISA, enzyme-linked immunoassay; FTA-ABS, fluorescent treponemal antibody absorbed; MHA-TP, microhemagglutination assay for antibody to Treponema pallidum; NAAT, nucleic acid amplification test; RPR, rapid plasma reagin; TP-PA, T. pallidum particle agglutination; TPHA, T. pallidum hemagglutination assay; VDRL, Venereal Disease Research Laboratory. Note: Information on laboratory testing for sexually transmitted diseases was based on medical record abstraction. ^a Sexual activity was reported in the interview component of the Medical Monitoring Project and was defined as anal or vaginal intercourse. ^b Numbers are unweighted. ^c Percentages are weighted percentages. ^d CIs incorporate weighted percentages. ^e Testing for Neisseria gonorrhoeae was defined as documentation of a result from culture, gram stain, EIA, NAAT, or nucleic acid probe. ^f Chlamydia trachomatis testing was defined as a result from culture, DFA, EIA or ELISA, NAAT, or nucleic acid probe. ^g Syphilis testing was defined as a result from nontreponemal syphilis tests (RPR or VDRL), treponemal syphilis tests (TPHA, TP-PA, MHA-TP, or FTA-ABS tests), or dark-field microscopy.



One or more past-year emergency department visits were reported by 35% of PLWDH (Table 4.7). Sixteen percent of PLWDH reported being admitted to the hospital at least once. One-third

(33%) of women had been pregnant since being diagnosed with HIV and 74% received a pap test in the past year (Table 4.8).

4.7. Emergency Department Visits and Hospital Admissions - Medical Monitoring Project, CA, 2015-2017

	Numbera	Percentage ^b	95% Cl ^c				
Number of Visits to Emergency Department							
0	401	64.7%	60.3-69.1				
1	128	20.6%	17.0-24.2				
2–4	75	11.6%	8.7-14.6				
≥5	20	3.1%	1.6-4.5				
Number of Hospital Admissions							
0	521	83.9%	80.5-87.2				
1	66	9.6%	7.1-12.1				
2–4	31	5.0%	2.9-7.2				
≥5	6	1.5%*	0.2-2.7				
TOTAL	626	100.0%					

Abbreviation: CI, confidence interval. Note: Estimates with a coefficient of variation \geq 0.30, a denominator sample size <30, an absolute CI width \geq 0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages.

4.8. Gynecological Care and Reproductive Health Among Women - Medical Monitoring Project, CA, 2015-2017

	Numbera	Percentage ^b	95% Cl ^c
Papanicolaou (Pap) Test, Past 12 Months			
Yes No	72 24	73.6% 26.4%	63.5-83.7 16.3-36.5
Pregnant Since HIV Diagnosis			
Yes No	34 63	33.0% 67.0%	22.6-43.4 56.6-77.4
TOTAL	98	100.0%	

Abbreviation: CI, confidence interval. Note. Measures are self-reported. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages.



5. Mental Health and Substance Use

Eighteen percent of PLWDH had Patient Health Questionnaire 8-item scale (PHQ-8) scores (range 0-24) consistent with moderate or severe depression (score ≥ 10) and 15% had Generalized Anxiety Disorder 7-item scale (GAD-7) scores (range 0-21) consistent with moderate or severe anxiety (Table 5.1).

5.1. Depression and Anxiety - Medical Monitoring Project, CA, 2015-2017										
	Numbera	Percentage ^b	95% CI ^c							
Moderate or Severe Depression (PHQ-8 score ≥10)										
Yes	115	17.9%	14.5-21.3							
No	503	82.1%	78.7-85.5							
Anxiety ^d										
Severe anxiety	44	6.2%	4.1-8.2							
Moderate anxiety	57	8.5%	6.1-11.0							
Mild anxiety	45	8.3%	5.6-11.1							
No anxiety	473	77.0%	73.1-80.8							
TOTAL	626	100.0%								

Abbreviations: CI, confidence interval; DSM-IV, Diagnostic and Statistical Manual of Mental Disorders, 4th edition; GAD-7, Generalized Anxiety Disorder 7-item Scale; PHQ-8, Patient Health Questionnaire. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages. ^d Responses to the GAD−7 were used to define "mild anxiety", "moderate anxiety" and "severe anxiety," according to criteria from the DSM-IV. "Severe anxiety" was defined as having a score of ≥15; "moderate anxiety" was defined as having a score of 10–14; and "mild anxiety" was defined as having a score of 5–9.



About one quarter (28%) of PLWDH were current cigarette smokers, with 19% reporting daily

cigarette smoking (Table 5.2). While 29% had ever used electronic cigarettes, just 5% of PLWDH

5.2. Tobacco and Electronic Cigarette Use - Medical Monitoring Project, CA, 2015-2017

Number* Percentageb 95% CIF Smoked ≥100 Cigarettes (lifetime) Yes 361 58.5% 53.9-63.0 No 262 41.5% 37.0-46.1 Cigarette Smoking Status Current smoker 169 27.6% 23.4-31.7 Former smoker 192 30.9% 26.7-35.2 Never smoked 262 41.5% 37.0-46.1 Frequency of Current Cigarette Smoking Less than monthly 15 2.7%* 1.0-4.4 Monthly 6 1.1%* 0.2-2.1 Weekly 30 5.0% 3.1-6.9 Daily 118 18.7% 15.1-22.3 Never 454 72.4% 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigarillos, or Little Filtered Cigars Smoking <td cols<="" th=""><th>2015-2017</th><th></th><th></th><th></th></td>	<th>2015-2017</th> <th></th> <th></th> <th></th>	2015-2017			
Yes 361 58.5% 53.9-63.0 No 262 41.5% 37.0-46.1 Cigarette Smoking Status Current smoker 169 27.6% 23.4-31.7 Former smoker 192 30.9% 26.7-35.2 Never smoked 262 41.5% 37.0-46.1 Frequency of Current Cigarette Smoking Less than monthly 15 2.7%** 1.0-4.4 Monthly 6 1.1%* 0.2-2.1 Weekly 30 5.0% 3.1-6.9 Daily 118 18.7% 15.1-22.3 Never 454 72.4% 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% <th></th> <th>Numbera</th> <th>Percentage^b</th> <th>95% Cl^c</th>		Numbera	Percentage ^b	95% Cl ^c	
No 262 41.5% 37.0-46.1 Cigarette Smoking Status Current smoker 169 27.6% 23.4-31.7 Former smoker 192 30.9% 26.7-35.2 Never smoked 262 41.5% 37.0-46.1 Frequency of Current Cigarette Smoking Less than monthly 15 2.7%* 1.0-4.4 Monthly 6 1.1%* 0.2-2.1 Weekly 30 5.0% 31-6.9 Daily 118 18.7% 15.1-22.3 Never 454 72.4% 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.	Smoked ≥100 Cigarettes (lifetime)				
Cigarette Smoking Status Current smoker 169 27.6% 23.4-31.7 Former smoker 192 30.9% 26.7-35.2 Never smoked 262 41.5% 37.0-46.1 Frequency of Current Cigarette Smoking Less than monthly 15 2.7%* 1.0-4.4 Monthly 6 1.1%* 0.2-2.1 Weekly 30 5.0% 3.1-6.9 Daily 118 18.7% 15.1-22.3 Never 454 72.4% 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes No 547 88.8% 86.1-91.4 Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.	Yes	361	58.5%	53.9-63.0	
Current smoker 169 27.6% 23.4-31.7 Former smoker 192 30.9% 26.7-35.2 Never smoked 262 41.5% 37.0-46.1 Frequency of Current Cigarette Smoking Less than monthly 15 2.7%* 1.0-4.4 Monthly 6 1.19%* 0.2-2.1 Weekly 30 5.0% 3.1-6.9 Daily 118 18.7% 15.1-22.3 Never 454 72.4% 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.	No	262	41.5%	37.0-46.1	
Former smoker Never smoked 262 41.5% 37.0-46.1 Frequency of Current Cigarette Smoking Less than monthly 15 2.7%* Monthly 6 1.1%* 0.2-2.1 Weekly 30 5.0% 3.1-6.9 Daily 118 118,7% 15.1-22.3 Never 454 72.4% 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days 5 obs. 0.6%* 0.0-1.3 Daily 13 2.0% 0.9-3.1 Never 588 95.1% 93.4-96.8 Electronic Cigarettes in the past 30 days Used electronic cigarettes, but not in the past 30 days Never used electronic cigarettes Never used electronic cigarettes 453 72.2% 68.1-76.3	Cigarette Smoking Status				
Never smoked 262 41.5% 37.0-46.1	Current smoker	169	27.6%	23.4-31.7	
Less than monthly Less than monthly Monthly 6 1.1%* 0.2-2.1 Weekly 30 5.0% 3.1-6.9 Daily 118 18.7% 15.1-22.3 Never 454 72.4% 68.3-76.6 Smoked≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes No 547 88.8% 86.1-91.4 Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker Former smoker 41 6.4% 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely Rarely Some days <5 obs. 0.6%* 0.0-1.3 Daily 13 2.0% 0.9-3.1 Never 588 95.1% 93.4-96.8 Electronic Cigarettes Smoking Status Used electronic cigarettes, but not in the past 30 days Never used electronic cigarettes Never used electronic cigarettes 453 72.2% 68.1-76.3					
Less than monthly 15 2.7%* 1.0-4.4 Monthly 6 1.1%* 0.2-2.1 Weekly 30 5.0% 3.1-6.9 Daily 118 18.7% 15.1-22.3 Never 454 72.4% 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.	Never smoked	262	41.5%	37.0-46.1	
Monthly 6 1.1%* 0.2-2.1 Weekly 30 5.0% 3.1-6.9 Daily 118 18.7% 15.1-22.3 Never 454 72.4% 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.	Frequency of Current Cigarette Smoking				
Weekly 30 5.0% 3.1-6.9 Daily 118 18.7% 15.1-22.3 Never 454 72.4% 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.	•				
Daily Never 118 454 72.4% 15.1-22.3 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) 8.6-13.9 88.6 86.1-3.9 86.1-91.4 Yes No 547 88.8% 86.1-91.4 Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 70.0 88.8% Former smoker 41 6.4% 4.2-8.5 88.0 86.1-91.4 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking 88.8% 86.1-91.4 Rarely Some days <5 obs.	•				
Never 454 72.4% 68.3-76.6 Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs. 0.6%* 0.0-1.3 Daily 13 2.0% 0.9-3.1 Never 588 95.1% 93.4-96.8 Electronic Cigarette Smoking Status Used electronic cigarettes in the past 30 days 28 5.4% 3.2-7.6 Used electronic cigarettes, but not in the past 30 days 143 22.4% 18.6-26.2 Never used electronic cigarettes 453 72.2% 68.1-76.3	•				
Smoked ≥50 Cigars, Cigarillos, or Little Filtered Cigars (lifetime) Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.					
Yes 76 11.2% 8.6-13.9 No 547 88.8% 86.1-91.4 Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.				00.5 7 0.0	
No 547 88.8% 86.1-91.4 Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.		_		0.6.12.0	
Cigars, Cigarillos, or Little Filtered Cigars Smoking Status Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.					
Current smoker 35 4.9% 3.2-6.6 Former smoker 41 6.4% 4.2-8.5 Never smoked 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.			00.070	00.1 31.1	
Former smoker Never smoked 41 6.4% 547 88.8% 86.1-91.4 Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 5 obs. 0.6%* 0.0-1.3 Daily 13 2.0% 0.9-3.1 Never 588 95.1% 93.4-96.8 Electronic Cigarette Smoking Status Used electronic cigarettes in the past 30 days Used electronic cigarettes, but not in the past 30 days Never used electronic cigarettes 143 22.4% 18.6-26.2 Never used electronic cigarettes 453 72.2% 68.1-76.3		_	4.9%	3,2-6.6	
Frequency of Current Cigars, Cigarillos, or Little Filtered Cigars Smoking Rarely 18 2.2% 1.1-3.4 Some days <5 obs.	Former smoker	41			
Rarely 18 2.2% 1.1-3.4 Some days <5 obs.	Never smoked	547	88.8%	86.1-91.4	
Some days <5 obs. 0.6%* 0.0-1.3 Daily 13 2.0% 0.9-3.1 Never 588 95.1% 93.4-96.8 Electronic Cigarette Smoking Status Used electronic cigarettes in the past 30 days 28 5.4% 3.2-7.6 Used electronic cigarettes, but not in the past 30 days 143 22.4% 18.6-26.2 Never used electronic cigarettes 453 72.2% 68.1-76.3	Frequency of Current Cigars, Cigarillos, o	r Little Filtered Cig	ars Smoking		
Daily 13 2.0% 0.9-3.1 Never 588 95.1% 93.4-96.8 Electronic Cigarette Smoking Status Used electronic cigarettes in the past 30 days 28 5.4% 3.2-7.6 Used electronic cigarettes, but not in the past 30 days 143 22.4% 18.6-26.2 Never used electronic cigarettes 453 72.2% 68.1-76.3	Rarely	18	2.2%	1.1-3.4	
Never 588 95.1% 93.4-96.8 Electronic Cigarette Smoking Status Used electronic cigarettes in the past 30 days Used electronic cigarettes, but not in the past 30 days Past 30 days Never used electronic cigarettes 143 22.4% 18.6-26.2 145 72.2% 68.1-76.3	Some days	<5 obs.	0.6%*	0.0-1.3	
Used electronic cigarettes in the past 30 days Used electronic cigarettes, but not in the past 30 days Used electronic cigarettes, but not in the past 30 days Never used electronic cigarettes 453 5.4% 3.2-7.6 18.6-26.2 72.2% 68.1-76.3					
Used electronic cigarettes in the past 30 days Used electronic cigarettes, but not in the past 30 days 143 143 22.4% Never used electronic cigarettes 453 72.2% 68.1-76.3	Never	588	95.1%	93.4-96.8	
Used electronic cigarettes, but not in the past 30 days Never used electronic cigarettes 143 22.4% 18.6-26.2 68.1-76.3	Electronic Cigarette Smoking Status				
past 30 days Never used electronic cigarettes 453 72.2% 18.0-20.2 68.1-76.3		28	5.4%	3.2-7.6	
Never used electronic cigarettes 453 72.2% 68.1-76.3	Used electronic cigarettes, but not in the past 30 days	143	22.4%	18.6-26.2	
TOTAL 626 100.0%	•	453	72.2%	68.1-76.3	
	TOTAL	626	100.0%		

Abbreviation: CI, confidence interval. Note: Estimates with a coefficient of variation \geq 0.30, a denominator sample size <30, an absolute CI width \geq 0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages.



reported electronic cigarette use in the past 30 days. Nine percent of PLWDH reported daily

alcohol use and 15% reported binge drinking in the past 30 days (Table 5.3). In regards to

5.3. Alcohol Use - Medical Monitoring Project, CA, 2015-2017								
	Numbera	Percentage ^b	95% Cl ^c					
Any Alcohol Used								
Yes	423	67.6%	63.3-71.9					
No	201	32.4%	28.1-36.7					
Frequency of Alcohol Use								
Daily	55	8.7%	6.0-11.4					
Weekly	136	22.6%	18.7-26.4					
Monthly	96	15.2%	11.9-18.4					
Less than monthly	136	21.1%	17.4-24.9					
Never	201	32.4%	28.1-36.7					
Binge Drinking, Past 30 Days ^e								
Yes	89	14.7%	11.4-18.0					
No	534	85.3%	82.0-88.6					
TOTAL	626	100.0%						

Abbreviation: CI, confidence interval. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages. ^d Persons who drank at least 1 alcoholic beverage during the 12 months before the interview. Alcoholic beverage was defined as a 12-ounce beer, 5-ounce glass of wine, or 1.5-ounce shot of liquor. ^e Persons who drank \geq 5 alcoholic beverages in a single sitting (\geq 4 for women) during the 30 days before the interview.



non-injected substance use in the 12 months prior to the interview, 13% reported using methamphetamine, 10% amyl nitrite or poppers,

6% cocaine, 5% club drugs such as ecstasy, 4% amphetamines, and 3% prescription opioids without a prescription (Table 5.4).

5.4. Non-Injection Drug Use - Medical Monitoring Project, CA, 2015-2017								
	Numbera	Percentage ^b	95% Cl ^c					
Use of Any Non-Injection Drugs ^d								
Yes No	205 416	33.8% 66.2%	29.4-38.2 61.8-70.6					
Non-Injection Drugs Used ^d :								
Marijuana								
Yes No	181 440	30.1% 69.9%	25.8-34.4 65.6-74.2					
Crack								
Yes No	11 610	1.2%* 98.8%	0.4-2.1 97.9-99.6					
Cocaine that is smoked or snorted								
Yes No	34 587	6.1% 93.9%	3.5-8.6 91.4-96.5					
Methamphetamine (e.g., crystal meth	tina, crank, ice)							
Yes No	72 549	12.6% 87.4%	9.3-15.9 84.1-90.7					
Amphetamine (e.g., speed, bennies, u	opers)							
Yes No	19 602	3.5% 96.5%	1.6-5.3 94.7-98.4					
Club drugs (e.g., Ecstasy or X, ketamin	e or Special K, GHB	or Liquid Ecstasy)						
Yes No	36 585	5.4% 94.6%	3.3-7.5 92.5-96.7					
Amyl nitrite (poppers)								
Yes No	63 558	10.0% 90.0%	7.2-12.8 87.2-92.8					
Prescription opioids (e.g., oxycodone,	hydrocodone, Vico	din, Percocet) ^e						
Yes No	21 600	3.1% 96.9%	1.7-4.6 95.4-98.3					
Prescription tranquilizers (e.g., Valiun	n, Ativan, Xanax, de	owners, nerve pills)e					
Yes No	11 609	1.5%* 98.5%	0.6-2.4 97.6-99.4					
TOTAL	626	100.0%						



Abbreviations: CI, confidence interval; GHB, gamma hydroxybutyrate. Note: Persons could report taking more than 1 noninjection drug. Estimates with a coefficient of variation \ge 0.30, a denominator sample size <30, an absolute CI width \ge 0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages. ^d Includes all drugs that were not injected (i.e., administered by any route other than injection), including legal drugs that were not used for medical purposes. ^e Not prescribed, or prescribed but taken more than directed.

Four percent of PLWDH reported injecting drugs without a prescription in the past year, most

commonly methamphetamine (3%) (Table 5.5).

5.5. Injection Drug Use - Medical Monitoring Project, CA, 2015-2017							
	Numbera	Percentage ^b	95% Cl ^c				
Use of Any Injection Drugs							
Yes No	26 596	3.6% 96.4%	2.1-5.2 94.8-97.9				
Injection Drugs Used:							
Cocaine							
Yes No	<5 obs. 620	0.2%* 99.8%	0.0-0.5 99.5-100.0				
Heroin							
Yes No	6 615	1.0%* 99.0%	0.0-2.0 98.0-100.0				
Heroin and cocaine (speedball)							
Yes No	<5 obs. 619	0.2%* 99.8%	0.0-0.5 99.5-100.0				
Methamphetamine (e.g., crystal meth,	tina, crank, ice)						
Yes No	23 598	3.2% 96.8%	1.7-4.8 95.2-98.3				
Amphetamine (e.g., speed, bennies, up	opers)						
Yes No	8 613	1.0%* 99.0%	0.3-1.7 98.3-99.7				
Prescription opioids (e.g., OxyContin,	oxycodone, hydrod	codone)					
Yes No	<5 obs. 619	0.6%* 99.4%	0.0-1.6 98.4-100.0				
TOTAL	626	100.0%					

Abbreviation: CI, confidence interval. Note: Persons could report taking more than 1 injection drug. Estimates with a coefficient of variation \geq 0.30, a denominator sample size <30, an absolute CI width \geq 0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages.



6. Sexual Behavior

About 63% of men and 53% of women living with diagnosed HIV had engaged in vaginal or anal

sex in the 12 months prior to the interview (Table 6.1). Sexually active men who had sex with men

Project, CA, 2015-2017							
	# ^a	Men % ^b	95% Cl ^c	# ^a	Women % ^b	95% CI	
ngaged in Anal Sex with Men:							
Receptive							
Yes	227	45.1%	40.0-50.2	7	7.2%*	1.6-12	
No	289	54.9%	49.8-60.0	89	92.8%	87.3-98	
Insertive							
Yes	216	42.8%	37.7-47.9				
No	300	57.2%	52.1-62.3				
ngaged in Anal Sex with Women							
Yes	11	1.7%*	0.6-2.8				
No	513	98.3%	97.2-99.4				
ngaged in Vaginal Sex							
Yes	56	10.5%	7.6-13.5	47	52.9%	41.6-6	
No	463	89.5%	86.5-92.4	48	47.1%	35.8-58	
ngaged in Vaginal or Anal Sex							
Yes	319	62.8%	58.0-67.6	47	52.9%	41.6-6	
No	198	37.2%	32.4-42.0	48	47.1%	35.8-5	
OTAL	524	100.0%		98	100.0%		

Abbreviations: CI, confidence interval. Note: Estimates with a coefficient of variation \ge 0.30, a denominator sample size <30, an absolute CI width \ge 0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages.



(MSM) had a median of 2 past-year sex partners (range 1-100) (Table 6.2) and 12% engaged in any high-risk sex. Among MSM, 68% reported having sex while sustainably virally suppressed and 13% reported having condomless sex with at least one HIV-negative partner who was on pre-exposure prophylaxis (PrEP) (Table 6.3). Men who had sex

only with women (MSW) and women who had sex with men (WSM) had a median of 1 past-year sex partner (range 1-6 among MSW, 1-3 among WSM) (Table 6.2). Eighty-one percent of WSM reported past-year sex while sustainably virally suppressed (Table 6.3).

6.2. Number (Average, Median, Range) of Vaginal or Anal Sex Partners Among Men Who Had Sex with Men (MSM), Men Who Had Sex Only with Women (MSW), and Women Who Had Sex with Men (WSM) - Medical Monitoring Project, CA, 2015-2017

	М	en	Women
	MSM ^a	MSW ^b	WSM ^c
Mean	6	1	1
Median	2	1	1
Range	1-100	1-6	1-3

Abbreviations: MSM, men who had sex with men; MSW, men who had sex only with women; WSM, women who had sex with men. ^a Among men who had anal sex with men in the 12 months before the interview. ^b Among men who had vaginal or anal sex only with women in the 12 months before the interview. ^c Among women who had vaginal or anal sex with men in the 12 months before the interview.



6.3. Sexual Behavior During the 12 Months Before the Interview Among Men Who Had Sex with Men (MSM), Men Who Had Sex Only with Women (MSW), and Women Who Had Sex with Men (WSM) - Medical Monitoring Project, CA, 2015-2017

		MSM			MSM			WSW	
	e #	9%	95% CI ^c	#	9%	95% CI ^c	#	9%	95% CI⁵
Engaged in Any High-Risk Sex ^d	p								
Yes	29	8.3%	4.8-11.9	5	4.3%*	0.2-8.4	<5 obs.	1.0%*	0.0-2.7
No	384	91.7%	88.1-95.2	88	95.7%	91.6-99.8	92	%0.66	97.3-100.0
Engaged in Any High-Risk Sex (Am	(Among S	exually A	ong Sexually Active Persons) ^d	p(St					
Yes	29	12.2%	7.1-17.3	5	8.7%*	0.7-18.7	<5 obs.	1.9%*	0.0-5.0
No	244	87.8%	82.7-92.9	39	90.3%	81.3-99.3	45	98.1%	95.0-100.0
PERCENTAGES OF SEXUALLY ACTIVE PERSONS WHO USED A PREVENTION STRATEGY WITH AT LEAST 1 PARTNER:	CTIVEPER	SONS W	HO USED A F	REVENT	ION STR	TEGY WITH	ATLEAST	1 PARTN	ER:
Sex While Sustainably Virally Suppressed ^e	Suppresse	de de							
Yes	187	68.1%	61.3-74.9	22	48.8%*	31.9-65.7	39	81.2%	67.4-95.0
No	98	31.9%	25.1-38.7	23	51.2%*	34.3-68.1	8	18.8%*	5.0-32.6
Condom-Protected Sex [†]									
Yes	162	26.7%	49.4-64.1	33	71.5%*	54.1-88.9	21	43.7%*	27.8-59.7
No	110	43.3%	35.9-50.6	11	28.5%*	11.1-45.9	26	56.3%*	40.3-72.2
Condomless Sex With a Partner on	er on PrEP								
Yes	40	13.3%	8.5-18.1	<5 obs.	2.4%*	0.0-6.4	0	%0:0	
No	233	%2'98	81.9-91.5	43	%9′.26	93.6-100.0	47	100.0%	
Sex With an HIV Positive Partner ^h	ler								
Yes	166	%6:65	52.9-66.9	6	28.2%*	10.9-45.6	17	36.2%*	20.9-51.5
No	107	40.1%	33.1-47.1	36	71.8%*	54.4-89.1	30	63.8*%	48.5-79.1
ТОТАГ	273	100.0%	-	45	100.0%	!	47	100.0%	l



Abbreviations: CI, confidence interval; PrEP, pre-exposure prophylaxis. Note: Persons who reported no anal, vaginal or oral sex in the 12 months before the interview were categorized according to self-reported sexual orientation. This table does not include information on women who had sex with women only, women who had sex with transgender people only, or men who had sex with transgender people only. Estimates with a coefficient of variation ≥0.30, a denominator sample size <30, an absolute CI width ≥0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages. ^d Vaginal or anal sex with at least 1 HIV-negative or unknown status partner while not sustainably virally suppressed, a condom was not used, and the partner was not on PrEP. PrEP use was only measured among the five most recent partners. ^e HIV viral load <200 copies/mL documented in the medical record at every measure in the past 12 months before the interview. ^f Condoms were consistently used with at least 1 vaginal or anal sex partner. ^g At least 1 HIV-negative condomless-sex partner was on PrEP. PrEP use was only measured among the five most recent partners and was reported by the HIV-positive partner. ^h Sex with at least 1 HIV-positive partner.

7. Intimate Partner Violence and Sexual Violence

About one quarter of PLWDH reported having ever experienced intimate partner violence and 5% experienced it in the past 12 months.

Seventeen percent reported having ever experienced sexual violence and 2% experienced it in the past 12 months.

7.1. Intimate Partner Violence and Sexual Violence - Medical Monitoring Project, CA, 2015-2017

	Numbera	Percentage ^b	95% Cl ^c					
Was ever slapped, punched, shoved, kicke physically hurt by a romantic or sexual po		wise						
Yes No	172 445	27.5% 72.5%	23.3-31.7 68.3-76.7					
Was slapped, punched, shoved, kicked, choked or otherwise physically hurt by a romantic or sexual partner, past 12 months								
Yes No	24 593	4.8% 95.2%	2.5-7.0 93.0-97.5					
Was ever threatened with harm or physical unwanted vaginal, anal, or oral sex	ally forced to have							
Yes No	119 498	17.3% 82.7%	13.9-20.7 79.3-86.1					
Was threatened with harm or physically f vaginal, anal, or oral sex, past 12 months		inted						
Yes No	12 605	1.9%* 98.1%	0.7-3.1 96.9-99.3					
TOTAL	626	100.0%						

Abbreviation: CI, confidence interval. Note: Estimates with a coefficient of variation \geq 0.30, a denominator sample size <30, an absolute CI width \geq 0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages.



8. Met and Unmet Ancillary Service Needs

The highest rate of unmet need for ancillary services among PLWDH was seen in dental care, with 22% reporting needing but not getting this service in the 12 months prior to the interview.

Twelve percent needed but did not receive food assistance (Supplemental Nutrition Assistance Program or the Special Supplemental Nutrition Program for Women, Infants, and Children) and 10% needed but did not receive transportation assistance. About 9% of PLWDH needed but did not receive mental health services and similar unmet need rates were seen for shelter or housing services and HIV peer group support. Eight percent needed but did not receive meal or food

services and 8% needed but did not receive HIV case management services.

Rates of unmet need were generally higher among PLWDH whose scores on the HIV stigma scale were in the top 25% (score ≥ 57.5, range 0-100), indicating high levels of HIV stigma experience. Among PLWDH with high HIV stigma scores, the rate of unmet need was 33% for dental care, 22% for transportation assistance, 21% for shelter or housing services, and 17% for HIV case management services, meal or food services, and food assistance.

8.1. Met and Unmet Need for Ancillary Services, Overall and by High HIV Stigma Score - Medical Monitoring Project, CA, 2015-2017

		Overall		High HIV Stigma ^a		
Service:	#b	% ^c	95% Cl ^d	#b	% ^c	95% Cl ^d
Dental Care						
Needed, but did not receive service	143	22.1%	18.3-25.9	44	33.4%	24.0-42.8
Received service	390	62.8%	58.3-67.2	86	55.0%	45.4-64.5
Did not need, did not receive service	91	15.1%	11.7-18.4	17	11.7%	5.7-17.6
SNAP or WIC						
Needed, but did not receive service	76	11.7%	8.7-14.7	29	16.6%	10.0-23.3
Received service	120	19.4%	15.8-23.0	45	32.6%	23.6-41.5
Did not need, did not receive service	428	69.0%	64.7-73.2	73	50.8%	41.3-60.3
Transportation Assistance						
Needed, but did not receive service	60	9.7%	6.9-12.5	28	21.6%	13.3-30.0
Received service	111	16.7%	13.5-20.0	31	22.0%	14.0-30.0
Did not need, did not receive service	453	73.5%	69.5-77.5	88	56.4%	46.9-65.9
Mental Health Services						
Needed, but did not receive service	61	9.4%	6.7-12.1	20	12.0%	6.1-17.8
Received service	205	32.1%	27.8-36.3	66	45.0%	35.6-54.4
Did not need, did not receive service	357	58.5%	54.0-63.1	61	43.0%	33.6-52.4



8.1. Met and Unmet Need for Ancillary Services, Overall and by High HIV Stigma Score - Medical Monitoring Project, CA, 2015-2017 (cont.)

		Overall		Hig	High HIV Stigma ^a		
Service:	#b	% ^c	95% Cl ^d	#b	% ^c	95% Cl ^d	
Shelter or Housing Services							
Needed, but did not receive service	64	9.3%	6.8-11.9	30	21.1%	13.2-28.9	
Received service	85	12.2%	9.5-14.9	29	17.1%	10.6-23.6	
Did not need, did not receive service	475	78.4%	74.9-82.0	88	61.8%	52.7-70.9	
HIV Peer Group Support							
Needed, but did not receive service	62	9.3%	6.8-11.9	20	13.0%	7.0-19.0	
Received service	72	10.1%	7.5-12.6	26	17.8%	10.9-24.7	
Did not need, did not receive service	489	80.6%	77.2-84.0	101	69.2%	60.8-77.7	
Meal or Food Services ^e							
Needed, but did not receive service	50	8.1%	5.6-10.6	25	16.9%	9.8-24.1	
Received service	126	20.2%	16.6-23.9	34	22.7%	15.0-30.3	
Did not need, did not receive service	447	71.7%	67.5-75.8	88	60.4%	51.2-69.6	
HIV Case Management Services							
Needed, but did not receive service	51	7.7%	5.3-10.1	23	17.4%	9.9-24.8	
Received service	300	47.3%	42.7-51.9	71	45.6%	36.2-55.0	
Did not need, did not receive service	272	45.0%	40.4-49.6	53	37.1%	27.8-46.3	
Patient Navigation Services							
Needed, but did not receive service	40	5.2%	3.5-6.9	14	9.2%	4.4-14.1	
Received service	70	9.7%	7.2-12.2	26	15.5%	8.8-22.2	
Did not need, did not receive service	513	85.1%	82.1-88.1	107	75.2%	67.4-83.0	
Medicine Through ADAP							
Needed, but did not receive service	25	4.3%	2.3-6.4	9	7.6%	2.0-13.1	
Received service	316	48.8%	44.1-53.4	80	53.8%	44.3-63.3	
Did not need, did not receive service	273	46.9%	42.2-51.5	55	38.6%	29.4-47.8	
Drug or Alcohol Counseling or Trea	tment						
Needed, but did not receive service	17	3.0%	1.4-4.6	7	4.1%	0.9-7.3	
Received service	49	7.6%	5.1-20.1	14	9.6%	3.8-15.5	
Did not need, did not receive service	557	89.4%	86.5-92.3	126	86.3%	79.8-92.8	



8.1. Met and Unmet Need for Ancillary Services, Overall and by High HIV Stigma Score - Medical Monitoring Project, CA, 2015-2017 *(cont.)*

		Overall		Hig	h HIV Stig	maª
Service:	#b	%°	95% Cl ^d	#b	% ^c	95% Cl ^d
Professional HIV Medication Adhe	rence Sup	port Servi	ices			
Needed, but did not receive service	11	1.4%*	0.5-2.2	<5 obs.	1.2%*	0.0-2.8
Received service	186	27.7%	23.7-31.7	53	33.1%	24.4-41.8
Did not need, did not receive service	426	70.9%	66.9-74.9	90	65.7%	56.9-74.5
Domestic Violence Services						
Needed, but did not receive service	6	1.2%*	0.0-2.4	<5 obs.	2.9%*	0.0-7.4
Received service	<5 obs.	0.4%*	0.0-0.9	<5 obs.	0.7%*	0.0-2.0
Did not need, did not receive service	614	98.4%	97.1-99.7	143	96.4%	91.8-100.0
Interpreter Services						
Needed, but did not receive service	<5 obs.	0.9%*	0.0-1.9	<5 obs.	2.8%*	0.0-6.7
Received service	33	4.9%	3.2-6.7	9	4.8%*	1.6-8.0
Did not need, did not receive service	587	94.1%	92.2-96.1	136	92.4%	87.5-97.4
TOTAL	626	100.0%		147	100.0%	

Abbreviations: CI, confidence interval; ADAP, AIDS Drug Assistance Program; SNAP, Supplemental Nutrition Assistance Program; WIC, Special Supplemental Nutrition Program for Women, Infants, and Children. Note: Persons could report receiving or needing more than one service. Estimates with a coefficient of variation ≥0.30, a denominator sample size <30, an absolute CI width ≥0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width >130% are marked with an asterisk and should be interpreted with caution. a Stigma scores were measured with a ten-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures four dimensions of HIV stigma: personalized stigma, disclosure concerns, negative self-image, and perceived public attitudes about people living with HIV. People were classified as having experienced high levels of HIV stigma if their score on the HIV stigma scale was in the top quartile for the 2015-2017 combined sample (score of ≥ 57.5). b Numbers are unweighted. c Percentages are weighted percentages. d CIs incorporate weighted percentages. e Includes services such as soup kitchens, food pantries, food banks, church dinners, or food delivery services.



9. Prevention Services

About half of PLWDH reported attending a oneon-one HIV/STD risk-reduction conversation with a physician, nurse, or other health care worker (51%) or receiving free condoms (50%) in the 12 months prior to the interview. About one quarter (27%) attended a one-on-one HIV/STD risk-reduction conversation with an outreach worker, counselor, or prevention program worker and 10% attended an organized HIV/STD risk-reduction session involving a small group of people.

9.1. Prevention Services - Medical M	Ionitoring Project	t, CA, 2015-2017						
	Number	Percentage ^b	95% CI ^c					
One-on-One HIV/STD Risk-Reduction Cor Physician, Nurse, or Other Health Care W								
Yes No	308 315	50.6% 49.4%	46.0-55.2 44.8-54.0					
One-on-One HIV/STD Risk-Reduction Conversation With Outreach Worker, Counselor, or Prevention Program Worker								
Yes No	163 461	26.9% 73.1%	22.8-31.0 69.0-77.2					
Attended an Organized HIV/STD Risk-Red Involving a Small Group of People	duction Session							
Yes No	62 562	10.1% 89.9%	7.4-12.9 87.1-92.6					
Received Free Condoms								
Yes No	306 318	49.7% 50.3%	45.1-54.4 45.6-54.9					
TOTAL	626	100.0%						

Abbreviation: CI, confidence interval. Note. Persons could report receiving more than one prevention service. ^a Numbers are unweighted. ^b Percentages are weighted percentages. ^c CIs incorporate weighted percentages.



10. HIV Stigma

Scores on the HIV stigma scale ranged from the minimum of zero to the maximum of one hundred (Table 10.1). Men and women had similar median HIV stigma scores and a similar percentage had scores in the top quartile (score ≥ 57.5). Median HIV stigma score and percentage with scores in the top quartile were higher among bisexual and heterosexual or straight PLWDH compared

to lesbian or gay PLWDH. About 33% of black/ African-American PLWDH and 29% of those reporting multiple racial identities had stigma scores in the top quartile compared to 21% of white PLWDH. A higher percentage of those ages 30-39 had HIV stigma scores in the top quartile (34%) compared to those ages 50 and older (22%).

10.1. HIV Stigma by Selected Cha 2015-2017	racteristics	- Medical Mo	nitoring	Project, (CA,		
	Median HIV	Stigma ^a Score	Hig	Jh HIV Stig	Jma ^b		
	Median Score	Interquartile Range	#c	% ^d	95% Cl ^e		
Gender							
Male	38.1	23.0-54.7	118	24.5%	20.0-29.0		
Female	40.1	26.6-59.7	28	26.8%	17.4-36.2		
Transgender	35.5*	10.0-48.9	<5 obs.	26.8%*	0.0-60.5		
Sexual Orientation							
Lesbian or gay	35.8	21.6-52.8	70	19.9%	14.9-24.9		
Heterosexual or straight	41.1	26.3-62.9	51	29.5%	21.7-37.4		
Bisexual	45.4	26.6-63.4	20	37.6%	23.0-52.1		
Other	46.8*	22.3-56.1	6	35.8%*	9.9-61.7		
Race/Ethnicity							
American Indian/Alaska Native	43.3	39.5-55.5	<5 obs.	25.6%*	0.0-59.5		
Asian	41.0	26.4-55.9	<5 obs.	27.8%*	0.0-56.2		
Black/African American	40.2	21.2-59.9	30	32.8%	21.9-43.6		
Latinx	39.4	26.3-54.5	53	23.8%	17.1-30.6		
Native Hawaiian/Other Pacific Islander	21.7	16.3-27.1	0	0.0%*			
White	35.7	20.6-53.2	44	21.3%	14.8-27.9		
Multiple races	42.8	22.8-60.1	15	29.4%	15.0-43.7		



10.1. HIV Stigma by Selected Characteristics - Medical Monitoring Project, CA, 2015-2017 *(cont.)*

	Median HIV	Stigma ^a Score	High HIV Stigma ^b		
	Median Score	Interquartile Range	#c	% ^d	95% Cl ^e
Age at Time of Interview (yr)					
18–29	36.0	24.5-53.2	11	22.0%*	8.2-35.9
30–39	41.2	24.9-64.5	26	33.5%	21.6-45.4
40–49	41.4	27.7-56.1	38	26.3%	17.6-35.0
≥50	36.8	19.6-53.5	72	22.2%	16.9-27.4
OVERALL	38.7	23.4-54.9	584		

Abbreviations: CI, confidence interval. ^a Stigma scores were measured with a ten-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures four dimensions of HIV stigma: personalized stigma, disclosure concerns, negative self-image, and perceived public attitudes about people living with HIV. Estimates with a coefficient of variation \geq 0.30, a denominator sample size < 30, an absolute CI width \geq 0.30, or an absolute CI width between 0.05 and 0.30 and a relative CI width > 130% are marked with an asterisk and should be interpreted with caution. ^b People were classified as having experienced high levels of HIV stigma if their score on the HIV stigma scale was in the top quartile for the 2015-2017 combined sample (score of \geq 57.5). ^c Numbers are unweighted. ^d Percentages are weighted percentages. ^e CIs incorporate weighted percentages.

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California Department of Public Health
Office of AIDS
MS 7700
P.O. Box 997426
Sacramento, CA 95899-74726
www.cdph.ca.gov/Programs/CID/DOA