



California HIV Surveillance Report — 2019

The California HIV Surveillance Report is published annually by the California Department of Public Health, Center for Infectious Diseases, Office of AIDS, Sacramento, California.

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Background

The California Department of Public Health (CDPH), Office of AIDS (OA) works with local health jurisdictions to collect, analyze, and disseminate surveillance data on people living with HIV in California. Providers and clinical laboratories provide HIV surveillance data to local health jurisdictions as a routine public health activity required by state law. More information about HIV surveillance in California can be found at the [Office of AIDS website](#).

This annual surveillance report summarizes information about people diagnosed with HIV infection in California. Information is also presented for the 61 California local health jurisdictions, including 58 counties and the three city-level health jurisdictions of Berkeley, Long Beach and Pasadena. There are three categories of data included in this report:

- Number and rate of new diagnoses of HIV infection during 2015–2019
- Number and rate of all persons living with diagnosed HIV infection during 2015–2019
- Number and rate of deaths among persons with diagnosed HIV infection during 2015–2019

Readers interested in HIV surveillance data at the national level are directed to the [Centers for Disease Control and Prevention \(CDC\) HIV Surveillance Reports](#).

Summary

- From 2015 through 2019, both the annual number and rate of new HIV diagnoses declined in California. The number of new diagnoses declined by 13.3% — from 5,068 in 2015 to 4,396 in 2019, while the rate of new diagnoses per 100,000 population declined by 15.4%, from 13.0 to 11.0 during the same time period.
- From 2015 through 2019, the number of persons in California living with diagnosed HIV infection increased from approximately 129,430 to over 137,000. In 2019, the prevalence rate of diagnosed HIV infection was 344.8 per 100,000 population, compared to 331.4 in 2015— an increase of 4.0%.
- Of the 137,785 people living with diagnosed HIV infection in 2019, 75.0% were in HIV care and 65.3% achieved viral suppression. California's Integrated Plan objectives are to increase the percentage of Californians with diagnosed HIV infection who are in HIV medical care to at least 90% and increase viral suppression to 80% by 2021.
- From 2015 through 2019, the annual number of deaths of persons with diagnosed HIV infection in California increased from 1,846 to 1,912. In 2019, the crude death rate of persons with diagnosed HIV infection was 4.8 per 100,000 population — a 2.1% increase since 2015. Data on deaths of persons with diagnosed HIV infection represent all causes of death, and may or may not be related to HIV infection.

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Technical Notes

The information presented in this report is based on HIV surveillance data reported to the OA through December 31, 2020, allowing for a minimum of 12 months' reporting delay. Persons are presumed to reside in California if the most recent available address is located in the state.

The term HIV infection is defined as any diagnosis of HIV infection that met the CDC surveillance case definition, regardless of the stage of disease (stage 0, 1, 2, 3 [AIDS], or unknown) at time of initial diagnosis. This report does not include estimates of the number of persons who are infected with HIV, but not yet diagnosed. Because persons test at differing times after becoming infected, the number of persons with newly diagnosed HIV infection is not necessarily representative of persons newly infected with HIV (HIV incidence).

Please use caution when interpreting data on trends for groups with fewer than 20 cases. Small fluctuations from year to year can lead to dramatic changes in rates, which may not be indicative of changes in the epidemiology of HIV in these populations.

Age: Children refers to persons aged less than 12 years. For newly diagnosed persons, the age group is based on the date of diagnosis. For persons living with HIV, the age group is based on the age at the end of the specified calendar year. For deaths, the age group is based on the age at death.

Gender: Persons were classified as being transgender if a case report form affirming their transgender status was present in HIV surveillance data by December 31, 2020. Otherwise individuals were classified according to their sex-at-birth.

Race and ethnicity: Latinx persons can be of any race. Race/ethnicity data were collected using Asian/Native Hawaiian/Pacific Islander as a single category until 2003; therefore persons who were classified as Asian/Native Hawaiian/Pacific Islander prior to 2003 and for whom no subsequent race/ethnicity information is available are classified as Asian, because they cannot be disaggregated. Although California Government Code Section 8310.5 requires CDPH to tabulate information by expanded ethnicities for each major Asian and Pacific Islander group, the data shown here are not disaggregated into those groups in order to maintain the confidentiality of these persons.

Geography: Jurisdiction of residence was determined at the time of diagnosis for newly diagnosed persons. For all living and deceased cases, jurisdiction of residence was based on the most recent available address.

Transmission category: Transmission category is the term for classifying cases based on a person's reported HIV risk factors. The classification is based on the CDC algorithm and results from selecting the single risk factor most likely to have been responsible for transmission, even if multiple risk factors were reported. The CDC hierarchy of risk factors, from most likely to lead to HIV

transmission, to least likely, is as follows: male-to-male sexual contact (MMSC) *and* injection drug use (IDU), MMSC alone, IDU alone, receipt of clotting factor blood product for treatment of hemophilia or other chronic coagulation disorder, and high-risk-heterosexual (HRH) contact. Non-HRH contact was added by OA, and is last in the hierarchy.

Gay, bisexual, and other men who have sex with men are in the transmission category of MMSC. Transgender persons who report sexual contact are placed in the transmission category of sexual contact, regardless of IDU. Persons who inject drugs are in the transmission category IDU. Persons whose transmission category is classified as HRH contact are persons who reported engaging in heterosexual intercourse with a person of the opposite sex-at-birth, and that partner was known to be HIV positive or engaged in an activity that put them at high risk for HIV (i.e., MMSC, IDU). The transmission category heterosexual contact non-HRH includes persons with no other identified risk, who reported engaging in heterosexual intercourse with a person of the opposite sex of their sex-at-birth. The heterosexual categories exclude men who report ever having had sexual contact with both men and women— these persons are classified as MMSC. Perinatal includes persons who were exposed immediately before or during birth, or by breastfeeding. Cases of HIV infection reported without a risk factor listed in the hierarchy of transmission categories are classified as “unknown risk.” Other includes exposure to blood transfusion or blood products, receiving a transplant, and other unspecified risks.

Deaths: Persons living with diagnosed HIV infection are presumed to be alive, unless a date of death is available in the California HIV surveillance data system. Tables 1a to 1c contain data on newly diagnosed persons, including persons who died during the year they were diagnosed. Tables 2a to 2d include all persons living with HIV who were alive at the end of the specified calendar year, regardless of when they were diagnosed. Tables 3a to 3c include all persons who died during the calendar year if they resided in California as of the last known address. Deaths from any cause were included.

Rates: Rates per 100,000 persons are based on population estimates from the State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060 (Sacramento, California, Jan 2020). For rates at the city level we used the *U.S. Census Bureau, QuickFacts, Annual Estimates of the Resident Population: July 2019*. Dashes (—) indicate where rates could not be calculated due to unknown population denominators.

In Care: Persons who had at least one CD4, viral load, or HIV-1 genotype test during the calendar year were considered to be in care.

Viral Suppression: Persons whose most recent HIV viral load test result during the calendar year was ≤ 200 copies/ml were considered to be virally suppressed.

Table 1a. Persons newly diagnosed with HIV infection, by year of diagnosis and selected demographic characteristics, 2015–2019 — California

Characteristic	2015			2016			2017			2018			2019			
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	
Age at diagnosis (in years)	0 to 11	10	0.2%	0.2	11	0.2%	0.2	6	0.1%	0.1	5	0.1%	0.1	4	0.1%	0.1
	12 to 14	1	0.0%	0.1	3	0.1%	0.2	4	0.1%	0.3	2	0.0%	0.1	2	0.0%	0.1
	15 to 17	31	0.6%	2.0	30	0.6%	1.9	32	0.7%	2.1	30	0.6%	1.9	29	0.7%	1.9
	18 to 19	134	2.6%	10.5	132	2.6%	10.5	129	2.7%	10.3	138	2.9%	11.0	106	2.4%	8.5
	20 to 24	882	17.4%	29.0	868	17.0%	28.1	795	16.4%	25.6	763	16.0%	24.8	645	14.7%	21.1
	25 to 29	965	19.0%	36.8	1,042	20.4%	39.8	995	20.5%	37.5	987	20.7%	36.3	873	19.9%	31.5
	30 to 34	752	14.8%	27.0	760	14.9%	27.4	752	15.5%	27.4	787	16.5%	29.1	750	17.1%	28.2
	35 to 39	564	11.1%	21.8	589	11.5%	22.3	583	12.0%	21.6	560	11.8%	20.4	579	13.2%	20.9
	40 to 44	462	9.1%	18.3	450	8.8%	18.1	424	8.7%	17.2	389	8.2%	15.7	380	8.6%	15.3
	45 to 49	463	9.1%	18.0	409	8.0%	15.8	376	7.7%	14.5	379	8.0%	14.8	331	7.5%	13.2
	50 to 54	375	7.4%	14.3	389	7.6%	15.1	328	6.8%	12.9	270	5.7%	10.8	282	6.4%	11.4
	55 to 59	218	4.3%	8.7	224	4.4%	8.9	217	4.5%	8.6	216	4.5%	8.5	216	4.9%	8.5
	60 to 64	115	2.3%	5.4	108	2.1%	4.9	122	2.5%	5.4	119	2.5%	5.2	117	2.7%	5.0
	65 to 74	80	1.6%	2.7	83	1.6%	2.7	76	1.6%	2.3	102	2.1%	3.0	69	1.6%	2.0
	≥ 75	16	0.3%	0.7	17	0.3%	0.7	14	0.3%	0.6	17	0.4%	0.7	13	0.3%	0.5
Race/ethnicity	Latinx	2,221	43.8%	14.8	2,350	45.9%	15.5	2,253	46.4%	14.7	2,281	47.9%	14.8	2,183	49.7%	14.1
	American Indian/Alaska Native	10	0.2%	5.4	14	0.3%	7.4	17	0.4%	8.7	15	0.3%	7.4	19	0.4%	9.3
	Asian	321	6.3%	5.8	333	6.5%	5.8	353	7.3%	6.0	273	5.7%	4.6	241	5.5%	4.0
	Black/African American	867	17.1%	37.2	895	17.5%	38.2	812	16.7%	34.4	834	17.5%	35.1	764	17.4%	32.1
	Native Hawaiian/Other Pacific Islander	12	0.2%	8.8	12	0.2%	8.8	11	0.2%	8.0	17	0.4%	12.4	12	0.3%	8.8
	White	1,433	28.3%	9.6	1,325	25.9%	8.9	1,251	25.8%	8.4	1,214	25.5%	8.2	1,087	24.7%	7.4
	Multiple races	204	4.0%	23.6	186	3.6%	21.4	156	3.2%	17.8	130	2.7%	14.7	90	2.0%	10.2
Gender	Cisgender men	4,458	88.0%	22.9	4,415	86.3%	22.6	4,234	87.2%	21.5	4,112	86.3%	20.8	3,753	85.4%	18.9
	Cisgender women	526	10.4%	2.7	603	11.8%	3.1	539	11.1%	2.7	561	11.8%	2.8	522	11.9%	2.6
	Trans women	79	1.6%	-	92	1.8%	-	74	1.5%	-	79	1.7%	-	111	2.5%	-
	Trans men	5	0.1%	-	5	0.1%	-	5	0.1%	-	12	0.3%	-	9	0.2%	-
	Alternative gender identity	0	0.0%	-	0	0.0%	-	1	0.0%	-	0	0.0%	-	1	0.0%	-
Total	5,068		13.0	5,115		12.8	4,853		12.3	4,764		12.0	4,396		11.0	

Note: Rates are per 100,000 population. Dash (—) indicates rates not calculated due to unknown population denominators. Until 2003, Asian/Native Hawaiian/Pacific Islander was classified as a single category; therefore persons with race/ethnicity data only available prior to 2003 are classified as Asian because they cannot be disaggregated.

Table 1b. Persons newly diagnosed with HIV infection, by year of diagnosis and transmission category, 2015–2019 — California

Demographic group	Transmission category	2015	%	2016	%	2017	%	2018	%	2019	%
Cisgender men (age ≥12 at diagnosis)	Male-to-male sexual contact (MMSC)	3,400	76.3%	3,293	74.7%	3,050	72.1%	2,969	72.3%	2,655	70.8%
	Injection drug use (IDU)	141	3.2%	144	3.3%	152	3.6%	158	3.8%	138	3.7%
	MMSC and IDU	176	4.0%	178	4.0%	186	4.4%	180	4.4%	166	4.4%
	High-risk heterosexual contact	107	2.4%	134	3.0%	112	2.6%	108	2.6%	73	1.9%
	Heterosexual contact (non-high-risk)	274	6.2%	303	6.9%	310	7.3%	358	8.7%	339	9.0%
	Perinatal/Unknown risk/Other	357	8.0%	358	8.1%	421	10.0%	336	8.2%	379	10.1%
	Subtotal	4,455	87.9%	4,410	86.2%	4,231	87.2%	4,109	86.3%	3,750	85.3%
Cisgender women (age ≥12 at diagnosis)	Injection drug use	63	12.1%	61	10.2%	82	15.3%	74	13.2%	70	13.4%
	High-risk heterosexual contact	205	39.5%	207	34.7%	181	33.8%	176	31.5%	146	28.0%
	Heterosexual contact (non-high-risk)	202	38.9%	255	42.7%	214	39.9%	257	46.0%	245	47.0%
	Perinatal/Unknown risk/Other	49	9.4%	74	12.4%	59	11.0%	52	9.3%	60	11.5%
	Subtotal	519	10.2%	597	11.7%	536	11.0%	559	11.7%	521	11.9%
Trans women (age ≥12 at diagnosis)	Sexual contact	74	93.7%	88	95.7%	67	90.5%	77	97.5%	105	94.6%
	Injection drug use (IDU)	0	0.0%	0	0.0%	0	0.0%	1	1.3%	1	0.9%
	Perinatal/Unknown risk/Other	5	6.3%	4	4.3%	7	9.5%	1	1.3%	5	4.5%
	Subtotal	79	1.6%	92	1.8%	74	1.5%	79	1.7%	111	2.5%
Trans men (age ≥12 at diagnosis)	Sexual contact	3	60.0%	4	80.0%	3	60.0%	9	75.0%	7	77.8%
	Injection drug use	1	20.0%	1	20.0%	1	20.0%	1	8.3%	1	11.1%
	Perinatal/Unknown risk/Other	1	20.0%	0	0.0%	1	20.0%	2	16.7%	1	11.1%
	Subtotal	5	0.1%	5	0.1%	5	0.1%	12	0.3%	9	0.2%
Alternative gender (age ≥12 at diagnosis)	Sexual contact	0	0.0%	0	0.0%	1	100.0%	0	0.0%	1	100.0%
	Injection drug use	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Subtotal	0	0.0%	0	0.0%	1	0.0%	0	0.0%	1	0.0%
Child (age <12 at diagnosis)	Perinatal	7	70.0%	8	72.7%	6	100.0%	3	60.0%	4	100.0%
	Unknown risk	3	30.0%	2	18.2%	0	0.0%	2	40.0%	0	0.0%
	Other	0	0.0%	1	9.1%	0	0.0%	0	0.0%	0	0.0%
	Subtotal	10	0.2%	11	0.2%	6	0.1%	5	0.1%	4	0.1%
Total		5,068		5,115		4,853		4,764		4,396	

Note: High-risk heterosexual contact: heterosexual intercourse with a person of the opposite sex-at-birth who has a high risk for HIV (e.g., MMSC, IDU). Heterosexual contact (non-high-risk): heterosexual intercourse with a person of the opposite sex-at-birth who does not have a high risk for HIV. Transgender persons who report sexual contact are placed in the transmission category of sexual contact, regardless of IDU. Other includes hemophilia, blood transfusion, and risk factor not reported or not identified. The number of perinatal diagnoses in a given year do not reflect the number of transmissions during that year since some cases are not diagnosed at birth.

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Table 1c. Persons newly diagnosed with HIV infection, by year of diagnosis and local health jurisdiction, 2015–2019 — California

County of residence at diagnosis	2015			2016			2017			2018			2019		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	263	5.2%	16.2	272	5.3%	16.6	206	4.2%	12.5	201	4.2%	12.1	222	5.1%	13.3
Alpine	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Amador	1	0.0%	2.7	2	0.0%	5.4	1	0.0%	2.7	3	0.1%	7.9	0	0.0%	0.0
Butte	8	0.2%	3.6	14	0.3%	6.2	7	0.1%	3.1	10	0.2%	4.4	10	0.2%	4.6
Calaveras	1	0.0%	2.2	1	0.0%	2.2	2	0.0%	4.5	2	0.0%	4.5	2	0.0%	4.5
Colusa	1	0.0%	4.6	1	0.0%	4.5	2	0.0%	9.0	2	0.0%	9.0	4	0.1%	17.8
Contra Costa	92	1.8%	8.2	118	2.3%	10.4	108	2.2%	9.5	113	2.4%	9.8	97	2.2%	8.4
Del Norte	2	0.0%	7.4	0	0.0%	0.0	1	0.0%	3.7	0	0.0%	0.0	0	0.0%	0.0
El Dorado	7	0.1%	3.8	4	0.1%	2.2	9	0.2%	4.8	5	0.1%	2.6	3	0.1%	1.6
Fresno	102	2.0%	10.4	135	2.6%	13.7	156	3.2%	15.6	110	2.3%	10.9	116	2.6%	11.4
Glenn	1	0.0%	3.5	2	0.0%	7.0	2	0.0%	7.0	1	0.0%	3.5	0	0.0%	0.0
Humboldt	9	0.2%	6.7	6	0.1%	4.4	4	0.1%	2.9	15	0.3%	11.0	6	0.1%	4.4
Imperial	18	0.4%	9.7	14	0.3%	7.5	41	0.8%	21.8	35	0.7%	18.5	33	0.8%	17.4
Inyo	1	0.0%	5.4	2	0.0%	10.7	2	0.0%	10.8	1	0.0%	5.4	0	0.0%	0.0
Kern	122	2.4%	13.8	101	2.0%	11.4	152	3.1%	16.9	155	3.3%	17.1	179	4.1%	19.5
Kings	8	0.2%	5.3	9	0.2%	6.0	20	0.4%	13.3	9	0.2%	5.9	8	0.2%	5.2
Lake	2	0.0%	3.1	1	0.0%	1.6	4	0.1%	6.2	4	0.1%	6.2	4	0.1%	6.2
Lassen	3	0.1%	9.7	1	0.0%	3.3	2	0.0%	6.5	0	0.0%	0.0	0	0.0%	0.0
Los Angeles	1,988	39.2%	19.5	1,891	37.0%	18.5	1,751	36.1%	17.1	1,712	35.9%	16.7	1,501	34.2%	14.6
Madera	6	0.1%	3.9	7	0.1%	4.5	13	0.3%	8.3	15	0.3%	9.5	7	0.2%	4.4
Marin	25	0.5%	9.6	29	0.6%	11.0	17	0.4%	6.5	21	0.4%	8.0	13	0.3%	5.0
Mariposa	0	0.0%	0.0	1	0.0%	5.5	1	0.0%	5.6	2	0.0%	11.2	0	0.0%	0.0
Mendocino	4	0.1%	4.5	3	0.1%	3.4	4	0.1%	4.5	5	0.1%	5.6	3	0.1%	3.4
Merced	21	0.4%	7.8	21	0.4%	7.7	26	0.5%	9.4	28	0.6%	10.0	28	0.6%	9.9
Modoc	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Mono	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	7.2	0	0.0%	0.0	0	0.0%	0.0
Monterey	33	0.7%	7.6	42	0.8%	9.5	47	1.0%	10.6	44	0.9%	9.9	29	0.7%	6.5
Napa	4	0.1%	2.8	12	0.2%	8.5	7	0.1%	5.0	7	0.1%	5.0	11	0.3%	7.9
Nevada	2	0.0%	2.0	6	0.1%	6.1	3	0.1%	3.0	3	0.1%	3.0	4	0.1%	4.1
Orange	334	6.6%	10.6	352	6.9%	11.1	316	6.5%	9.9	287	6.0%	8.9	246	5.6%	7.6
Placer	13	0.3%	3.5	20	0.4%	5.3	19	0.4%	5.0	11	0.2%	2.8	12	0.3%	3.0
Plumas	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Riverside	275	5.4%	11.8	297	5.8%	12.6	279	5.7%	11.7	264	5.5%	10.9	272	6.2%	11.1
Sacramento	164	3.2%	11.0	193	3.8%	12.8	172	3.5%	11.3	158	3.3%	10.3	142	3.2%	9.1
San Benito	4	0.1%	6.8	1	0.0%	1.7	8	0.2%	13.3	3	0.1%	4.9	2	0.0%	3.2
San Bernardino	196	3.9%	9.2	223	4.4%	10.4	254	5.2%	11.7	268	5.6%	12.3	293	6.7%	13.3
San Diego	496	9.8%	15.1	521	10.2%	15.8	420	8.7%	12.7	387	8.1%	11.6	370	8.5%	11.1
San Francisco	297	5.9%	34.4	265	5.2%	30.4	243	5.0%	27.6	241	5.1%	27.2	206	4.7%	23.2
San Joaquin	75	1.5%	10.3	55	1.1%	7.4	65	1.3%	8.7	68	1.4%	8.9	74	1.7%	9.6
San Luis Obispo	17	0.3%	6.1	17	0.3%	6.1	9	0.2%	3.2	16	0.3%	5.7	13	0.3%	4.7
San Mateo	65	1.3%	8.5	59	1.2%	7.7	59	1.2%	7.6	62	1.3%	8.0	55	1.3%	7.1
Santa Barbara	23	0.5%	5.2	29	0.6%	6.5	28	0.6%	6.2	31	0.7%	6.8	37	0.8%	8.1
Santa Clara	158	3.1%	8.2	138	2.7%	7.1	156	3.2%	8.0	167	3.5%	8.5	162	3.7%	8.3
Santa Cruz	12	0.2%	4.4	21	0.4%	7.6	7	0.1%	2.5	10	0.2%	3.6	7	0.2%	2.5
Shasta	3	0.1%	1.7	7	0.1%	3.9	2	0.0%	1.1	7	0.1%	3.9	5	0.1%	2.8
Sierra	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Siskiyou	2	0.0%	4.5	3	0.1%	6.8	0	0.0%	0.0	3	0.1%	6.8	0	0.0%	0.0
Solano	35	0.7%	8.2	33	0.6%	7.6	35	0.7%	8.0	45	0.9%	10.2	39	0.9%	8.8
Sonoma	30	0.6%	6.0	40	0.8%	8.0	30	0.6%	6.0	33	0.7%	6.6	24	0.5%	4.8
Stanislaus	32	0.6%	6.0	32	0.6%	5.9	52	1.1%	9.4	60	1.3%	10.8	43	1.0%	7.7
Sutter	1	0.0%	1.0	10	0.2%	10.2	6	0.1%	6.0	9	0.2%	8.9	7	0.2%	6.8
Tehama	1	0.0%	1.6	1	0.0%	1.6	3	0.1%	4.7	4	0.1%	6.2	0	0.0%	0.0
Trinity	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	7.5
Tulare	33	0.7%	7.1	33	0.6%	7.1	17	0.4%	3.6	50	1.0%	10.5	33	0.8%	6.9
Tuolumne	2	0.0%	3.7	1	0.0%	1.9	0	0.0%	0.0	1	0.0%	1.9	1	0.0%	1.9
Ventura	50	1.0%	5.9	48	0.9%	5.6	71	1.5%	8.3	53	1.1%	6.2	45	1.0%	5.3
Yolo	22	0.4%	10.3	17	0.3%	7.8	10	0.2%	4.6	19	0.4%	8.6	20	0.5%	9.0
Yuba	4	0.1%	5.4	3	0.1%	4.0	3	0.1%	3.9	3	0.1%	3.9	4	0.1%	5.1
Total	5,068		13.0	5,114		13.0	4,853		12.3	4,763		12.0	4,396		11.0
Berkeley city	23	0.5%	19.0	22	0.4%	18.1	14	0.3%	11.5	9	0.2%	7.4	8	0.2%	6.6
Long Beach city	137	2.7%	29.1	128	2.5%	27.3	111	2.3%	23.8	105	2.2%	22.5	103	2.3%	22.3
Pasadena city	29	0.6%	20.7	20	0.4%	14.3	21	0.4%	14.9	18	0.4%	12.7	15	0.3%	10.6

Note: Rates are per 100,000 population. Numbers for the city health jurisdictions of Berkeley, Long Beach and Pasadena are subsets of the numbers for the counties in which they are located (numbers on Alameda, and Los Angeles counties (above) include the respective city LHJ numbers).

Table 2a. Persons living with diagnosed HIV infection, by year and selected demographic characteristics, 2015–2019 — California

Characteristic	2015			2016			2017			2018			2019			
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	
Age at year end (years)	0 to11	141	0.1%	2.3	126	0.1%	2.1	113	0.1%	1.9	103	0.1%	1.7	85	0.1%	1.4
	12 to 14	68	0.1%	4.5	81	0.1%	5.4	77	0.1%	5.0	63	0.0%	4.1	56	0.0%	3.6
	15 to 17	122	0.1%	7.8	111	0.1%	7.1	98	0.1%	6.3	101	0.1%	6.6	112	0.1%	7.3
	18 to 19	257	0.2%	20.2	255	0.2%	20.3	243	0.2%	19.4	234	0.2%	18.6	211	0.2%	16.9
	20 to 24	3,147	2.4%	103.3	3,140	2.4%	101.7	3,009	2.2%	96.9	2,895	2.1%	93.9	2,694	2.0%	88.1
	25 to 29	7,560	5.8%	288.1	7,896	5.9%	301.4	7,950	5.9%	299.5	7,961	5.8%	292.9	7,781	5.6%	281.2
	30 to 34	10,115	7.8%	362.6	10,490	7.9%	378.5	10,829	8.0%	395.3	11,170	8.2%	413.6	11,548	8.4%	433.5
	35 to 39	11,466	8.9%	444.0	11,971	9.0%	453.7	12,212	9.0%	453.0	12,396	9.1%	451.6	12,500	9.1%	452.1
	40 to 44	13,628	10.5%	538.8	13,020	9.8%	524.8	12,842	9.5%	519.9	12,686	9.3%	512.6	12,855	9.3%	515.9
	45 to 49	19,960	15.4%	775.6	19,124	14.4%	737.6	17,958	13.3%	693.6	16,600	12.2%	647.4	15,525	11.3%	617.5
	50 to 54	23,873	18.4%	909.2	23,707	17.8%	917.8	22,983	17.0%	903.2	21,847	16.0%	871.1	20,682	15.0%	832.6
	55 to 59	17,761	13.7%	712.6	19,194	14.4%	761.5	20,445	15.1%	805.9	21,342	15.7%	837.6	22,234	16.1%	871.6
	60 to 64	11,100	8.6%	522.2	12,222	9.2%	558.3	13,303	9.8%	591.1	14,134	10.4%	614.5	15,112	11.0%	648.0
	65 to 74	8,664	6.7%	290.3	9,811	7.4%	315.3	11,056	8.2%	341.7	12,236	9.0%	364.8	13,626	9.9%	391.7
≥ 75	1,568	1.2%	70.2	1,839	1.4%	80.2	2,115	1.6%	89.5	2,405	1.8%	98.1	2,764	2.0%	108.7	
Race/ethnicity	Latinx	45,480	35.1%	303.6	47,448	35.7%	313.7	49,062	36.3%	320.8	50,450	37.0%	326.8	51,981	37.7%	334.9
	American Indian/Alaska Native	325	0.3%	176.9	337	0.3%	178.7	341	0.3%	174.6	339	0.2%	168.0	353	0.3%	173.2
	Asian	4,750	3.7%	85.5	5,056	3.8%	88.8	5,383	4.0%	92.0	5,572	4.1%	93.1	5,796	4.2%	95.2
	Black/African American	22,090	17.1%	948.4	22,625	17.0%	964.6	23,004	17.0%	973.4	23,185	17.0%	977.1	23,456	17.0%	984.5
	Native Hawaiian/Other Pacific Islander	228	0.2%	167.0	240	0.2%	175.7	243	0.2%	177.1	252	0.2%	183.6	261	0.2%	191.2
	White	51,935	40.1%	346.2	52,560	39.5%	351.7	52,467	38.8%	352.8	51,662	37.9%	349.1	51,280	37.2%	347.8
	Multiple races	4,618	3.6%	533.3	4,717	3.5%	542.4	4,729	3.5%	539.4	4,709	3.5%	531.6	4,654	3.4%	526.2
Unknown race	4	0.0%	-	4	0.0%	-	4	0.0%	0.0	4	0.0%	-	4	0.0%	-	
Gender	Cisgender men	112,429	86.9%	578.5	115,538	86.9%	590.8	117,473	86.9%	590.5	118,233	86.8%	597.1	119,528	86.7%	601.6
	Cisgender women	15,152	11.7%	77.2	15,547	11.7%	78.7	15,804	11.7%	39.9	15,927	11.7%	79.6	16,137	11.7%	80.3
	Trans women	1,801	1.4%	-	1,849	1.4%	-	1,895	1.4%	-	1,941	1.4%	-	2,041	1.5%	-
	Trans men	43	0.0%	-	48	0.0%	-	54	0.0%	-	66	0.0%	-	73	0.1%	-
	Alternative gender identity	5	0.0%	-	5	0.0%	-	7	0.0%	-	6	0.0%	-	6	0.0%	-
Total	129,430		331.4	132,987		338.3	135,233		341.6	136,173		342.0	137,785		344.8	

Note: Rates are per 100,000 population. Dash (—) indicates rates not calculated due to unknown population denominators. Until 2003, Asian/Native Hawaiian/Pacific Islander was classified as a single category; therefore persons with race/ethnicity data only available prior to 2003 are classified as Asian because they cannot be disaggregated.

Table 2b. Persons living with diagnosed HIV infection, by year and transmission category, 2015–2019 — California

Demographic group	Transmission category	2015	%	2016	%	2017	%	2018	%	2019	%
Cisgender men (age ≥12 at year end)	Male-to-male sexual contact (MMSM)	86,161	76.7%	88,648	76.8%	90,221	76.8%	90,837	76.9%	91,729	76.8%
	Injection drug use (IDU)	5,196	4.6%	5,192	4.5%	5,144	4.4%	5,047	4.3%	5,004	4.2%
	MMSM and IDU	9,348	8.3%	9,357	8.1%	9,197	7.8%	8,971	7.6%	8,838	7.4%
	High-risk heterosexual contact	3,528	3.1%	3,605	3.1%	3,637	3.1%	3,648	3.1%	3,652	3.1%
	Heterosexual contact (non-high-risk)	3,758	3.3%	4,011	3.5%	4,240	3.6%	4,482	3.8%	4,773	4.0%
	Perinatal/Unknown risk/Other	4,375	3.9%	4,668	4.0%	4,981	4.2%	5,201	4.4%	5,490	4.6%
	Subtotal		112,366	86.8%	115,481	86.8%	117,420	86.8%	118,186	86.8%	119,486
Cisgender women (age ≥12 at year end)	Injection drug use	2,827	18.8%	2,810	18.2%	2,798	17.8%	2,732	17.2%	2,685	16.7%
	High-risk heterosexual contact	7,930	52.6%	8,057	52.1%	8,125	51.6%	8,091	51.0%	8,094	50.3%
	Heterosexual contact (non-high-risk)	2,975	19.7%	3,201	20.7%	3,367	21.4%	3,563	22.4%	3,779	23.5%
	Perinatal/Unknown risk/Other	1,342	8.9%	1,410	9.1%	1,454	9.2%	1,485	9.4%	1,536	9.5%
	Subtotal		15,074	11.6%	15,478	11.6%	15,744	11.6%	15,871	11.7%	16,094
Trans women (age ≥12 at year end)	Sexual contact	1770	98.3%	1814	98.1%	1854	97.8%	1898	97.8%	1992	97.6%
	Injection drug use (IDU)	11	0.6%	10	0.5%	10	0.5%	11	0.6%	11	0.5%
	Perinatal/Unknown risk/Other	20	1.1%	25	1.4%	31	1.6%	32	1.6%	38	1.9%
	Subtotal		1,801	1.4%	1,849	1.4%	1,895	1.4%	1,941	1.4%	2,041
Trans men (age ≥12 at year end)	Sexual contact	29	67.4%	33	68.8%	37	68.5%	47	71.2%	52	71.2%
	Injection drug use	10	23.3%	11	22.9%	12	22.2%	11	16.7%	12	16.4%
	Perinatal/Unknown risk/Other	4	9.3%	4	8.3%	5	9.3%	8	12.1%	9	12.3%
	Subtotal		43	0.0%	48	0.0%	54	0.0%	66	0.0%	73
Alternative gender (age ≥12 at year end)	Sexual contact	4	80.0%	4	80.0%	6	85.7%	6	100.0%	6	100.0%
	Injection drug use	1	20.0%	1	20.0%	1	14.3%	0	0.0%	0	0.0%
	Subtotal		5	0.0%	5	0.0%	7	0.0%	6	0.0%	6
Child (age <12 at year end)	Perinatal	115	81.6%	104	82.5%	94	83.2%	85	82.5%	70	82.4%
	Unknown risk	25	17.7%	20	15.9%	17	15.0%	16	15.5%	13	15.3%
	Other	1	0.7%	2	1.6%	2	1.8%	2	1.9%	2	2.4%
	Subtotal		141	0.1%	126	0.1%	113	0.1%	103	0.1%	85
Total		129,430		132,987		135,233		136,173		137,785	

Note: High-risk heterosexual contact: heterosexual intercourse with a person of the opposite sex-at-birth who has a high risk for HIV (e.g., MMSM, IDU). Heterosexual contact (non-high-risk): heterosexual intercourse with a person of the opposite sex-at-birth who does not have a high risk for HIV. Transgender persons who report sexual contact are placed in the transmission category of sexual contact, regardless of IDU. Other includes hemophilia, blood transfusion, and risk factor not reported or not identified.

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Table 2c. Persons living with diagnosed HIV infection, by year and current local health jurisdiction, 2015–2019 — California

County of current residence	2015			2016			2017			2018			2019		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	6,208	4.8%	382.9	6,330	4.8%	386.5	6,404	4.7%	387.8	6,358	4.7%	382.4	6,354	4.6%	379.5
Alpine	0	0.0%	0.0	2	0.0%	173.8	2	0.0%	174.5	2	0.0%	176.4	2	0.0%	177.3
Amador	80	0.1%	219.9	195	0.1%	529.3	219	0.2%	585.7	213	0.2%	558.4	190	0.1%	497.1
Butte	233	0.2%	103.9	264	0.2%	117.4	274	0.2%	121.0	275	0.2%	121.0	263	0.2%	121.2
Calaveras	38	0.0%	84.6	45	0.0%	100.5	47	0.0%	105.2	46	0.0%	103.2	50	0.0%	112.6
Colusa	5	0.0%	22.9	6	0.0%	27.2	11	0.0%	49.4	17	0.0%	76.4	17	0.0%	75.6
Contra Costa	2,362	1.8%	211.3	2,585	1.9%	228.8	2,635	1.9%	231.5	2,757	2.0%	240.3	2,772	2.0%	240.4
Del Norte	24	0.0%	88.6	31	0.0%	115.0	30	0.0%	112.1	32	0.0%	116.7	36	0.0%	130.8
El Dorado	165	0.1%	90.0	195	0.1%	105.8	199	0.1%	106.7	217	0.2%	114.6	221	0.2%	115.6
Fresno	1,778	1.4%	181.5	1,877	1.4%	189.8	1,971	1.5%	197.2	2,034	1.5%	201.2	2,105	1.5%	206.0
Glenn	13	0.0%	45.8	19	0.0%	66.8	22	0.0%	76.9	24	0.0%	83.5	22	0.0%	75.4
Humboldt	220	0.2%	162.9	237	0.2%	174.5	229	0.2%	168.6	230	0.2%	169.4	235	0.2%	174.2
Imperial	274	0.2%	148.2	294	0.2%	157.8	329	0.2%	175.2	337	0.2%	178.4	360	0.3%	189.4
Inyo	17	0.0%	91.2	23	0.0%	123.5	21	0.0%	113.1	19	0.0%	102.6	20	0.0%	108.3
Kern	1,614	1.2%	182.7	1,584	1.2%	178.5	1,674	1.2%	186.5	1,769	1.3%	195.0	1,847	1.3%	201.3
Kings	165	0.1%	110.1	172	0.1%	115.2	182	0.1%	120.6	201	0.1%	131.1	205	0.1%	132.7
Lake	140	0.1%	216.1	149	0.1%	231.1	145	0.1%	223.5	151	0.1%	232.2	150	0.1%	231.2
Lassen	24	0.0%	77.6	26	0.0%	85.3	26	0.0%	85.1	29	0.0%	95.0	29	0.0%	97.1
Los Angeles	51,440	39.7%	505.5	51,188	38.5%	501.3	51,654	38.2%	503.7	51,872	38.1%	505.1	52,409	38.0%	510.8
Madera	179	0.1%	115.8	184	0.1%	118.6	193	0.1%	123.1	192	0.1%	121.1	189	0.1%	118.9
Marin	850	0.7%	324.9	848	0.6%	323.1	813	0.6%	310.2	832	0.6%	317.2	832	0.6%	318.0
Mariposa	19	0.0%	105.1	20	0.0%	110.7	18	0.0%	100.0	20	0.0%	111.7	22	0.0%	123.2
Mendocino	180	0.1%	204.0	183	0.1%	206.3	180	0.1%	202.3	177	0.1%	199.2	173	0.1%	195.3
Merced	211	0.2%	78.3	272	0.2%	100.1	296	0.2%	107.1	305	0.2%	109.1	321	0.2%	113.3
Modoc	2	0.0%	21.0	2	0.0%	21.0	1	0.0%	10.5	4	0.0%	42.2	3	0.0%	31.6
Mono	5	0.0%	35.9	8	0.0%	57.8	8	0.0%	57.6	9	0.0%	65.1	9	0.0%	64.8
Monterey	668	0.5%	153.3	700	0.5%	159.1	727	0.5%	164.5	751	0.6%	169.0	773	0.6%	173.1
Napa	245	0.2%	173.5	268	0.2%	189.4	272	0.2%	192.9	270	0.2%	192.1	273	0.2%	194.9
Nevada	92	0.1%	93.7	124	0.1%	126.2	126	0.1%	128.0	129	0.1%	130.8	141	0.1%	143.0
Orange	7,159	5.5%	226.4	7,182	5.4%	225.9	7,286	5.4%	227.4	7,250	5.3%	225.5	7,302	5.3%	226.7
Placer	249	0.2%	67.0	344	0.3%	91.4	355	0.3%	92.8	364	0.3%	93.5	378	0.3%	95.8
Plumas	15	0.0%	80.5	18	0.0%	95.9	21	0.0%	112.1	20	0.0%	106.9	19	0.0%	100.8
Riverside	6,784	5.2%	290.8	8,180	6.2%	346.5	9,008	6.7%	376.6	9,431	6.9%	389.6	9,772	7.1%	399.9
Sacramento	3,960	3.1%	265.8	4,390	3.3%	291.7	4,442	3.3%	292.2	4,469	3.3%	290.7	4,507	3.3%	290.2
San Benito	38	0.0%	64.7	42	0.0%	70.5	50	0.0%	82.9	49	0.0%	79.8	51	0.0%	81.2
San Bernardino	3,573	2.8%	167.9	4,186	3.1%	195.3	4,411	3.3%	204.0	4,668	3.4%	214.2	4,907	3.6%	223.3
San Diego	12,941	10.0%	395.2	13,687	10.3%	415.3	13,858	10.2%	417.6	13,794	10.1%	412.4	13,844	10.0%	412.3
San Francisco	14,040	10.8%	1624.2	13,352	10.0%	1530.7	13,056	9.7%	1483.1	12,724	9.3%	1435.1	12,550	9.1%	1411.1
San Joaquin	1,333	1.0%	183.0	1,333	1.0%	180.4	1,337	1.0%	178.2	1,357	1.0%	178.5	1,395	1.0%	180.8
San Luis Obispo	498	0.4%	180.0	412	0.3%	148.1	422	0.3%	151.5	361	0.3%	129.2	393	0.3%	140.9
San Mateo	1,525	1.2%	199.5	1,597	1.2%	207.9	1,662	1.2%	215.4	1,651	1.2%	213.2	1,657	1.2%	213.5
Santa Barbara	612	0.5%	137.7	617	0.5%	137.9	552	0.4%	122.7	558	0.4%	123.2	589	0.4%	129.6
Santa Clara	3,493	2.7%	182.0	3,390	2.5%	175.3	3,503	2.6%	180.0	3,545	2.6%	181.2	3,651	2.6%	186.2
Santa Cruz	500	0.4%	182.0	518	0.4%	187.8	528	0.4%	191.5	524	0.4%	190.4	526	0.4%	191.6
Shasta	205	0.2%	114.9	216	0.2%	121.6	223	0.2%	125.2	222	0.2%	124.6	227	0.2%	127.5
Sierra	4	0.0%	126.9	6	0.0%	190.7	5	0.0%	158.8	6	0.0%	191.3	5	0.0%	160.2
Siskiyou	48	0.0%	107.8	62	0.0%	139.6	65	0.0%	146.9	71	0.1%	160.9	64	0.0%	145.3
Solano	1,287	1.0%	299.8	1,333	1.0%	307.6	1,320	1.0%	301.9	1,321	1.0%	300.2	1,334	1.0%	301.7
Sonoma	1,343	1.0%	268.0	1,512	1.1%	300.5	1,487	1.1%	295.5	1,479	1.1%	295.5	1,455	1.1%	291.9
Stanislaus	652	0.5%	121.3	712	0.5%	131.0	774	0.6%	140.6	815	0.6%	146.9	848	0.6%	151.9
Sutter	77	0.1%	79.4	89	0.1%	90.9	92	0.1%	92.5	103	0.1%	101.6	111	0.1%	107.2
Tehama	40	0.0%	62.9	48	0.0%	75.0	51	0.0%	79.5	49	0.0%	75.7	44	0.0%	67.2
Trinity	18	0.0%	132.8	19	0.0%	140.9	19	0.0%	141.2	16	0.0%	119.5	17	0.0%	127.0
Tulare	368	0.3%	79.2	427	0.3%	91.3	445	0.3%	94.3	476	0.3%	100.0	496	0.4%	103.3
Tuolumne	38	0.0%	71.0	45	0.0%	84.4	47	0.0%	88.9	50	0.0%	94.6	54	0.0%	102.7
Ventura	1,053	0.8%	123.6	1,069	0.8%	125.3	1,127	0.8%	131.9	1,137	0.8%	132.9	1,157	0.8%	135.5
Yolo	257	0.2%	120.7	280	0.2%	129.0	286	0.2%	130.2	301	0.2%	135.6	318	0.2%	142.7
Yuba	69	0.1%	92.7	90	0.1%	119.4	93	0.1%	121.2	90	0.1%	116.2	91	0.1%	116.2
Total	129,430		331.4	132,987		338.3	135,233		341.6	136,173		342.0	137,785		344.8
Berkeley city	491	0.4%	406.7	503	0.4%	414.0	489	0.4%	400.8	480	0.4%	394.6	466	0.3%	384.0
Long Beach city	4,679	3.6%	994.0	4,588	3.4%	977.1	4,513	3.3%	965.6	4,379	3.2%	937.0	4,400	3.2%	951.1
Pasadena city	599	0.5%	428.2	585	0.4%	417.1	588	0.4%	416.3	608	0.4%	430.5	609	0.4%	431.8

Note: Rates are per 100,000 population. Numbers for the city health jurisdictions of Berkeley, Long Beach and Pasadena are subsets of the numbers for the counties in which they are located (numbers on Alameda, and Los Angeles counties (above) include the respective city LHJ numbers).

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Table 2d. Continuum of HIV care for persons living with diagnosed HIV infection, 2019 — California

Jurisdiction of residence (by name)	No. people living and diagnosed with HIV		In care		Virally suppressed	
	N	%	N	%	N	%
2021 California Integrated Plan Objective				90.0%		80.0%
California	137,785		103,399	75.0%	89,981	65.3%
Alameda	6,354		5,109	80.4%	4,498	70.8%
Alpine	-		-	-	-	-
Amador	190		177	93.2%	168	88.4%
Berkeley	466		385	82.6%	357	76.6%
Butte	263		212	80.6%	51	19.4%
Calaveras	50		42	84.0%	34	68.0%
Colusa	17		14	82.4%	10	58.8%
Contra Costa	2,772		2,293	82.7%	2,053	74.1%
Del Norte	36		31	86.1%	29	80.6%
El Dorado	221		181	81.9%	169	76.5%
Fresno	2,105		1,690	80.3%	1,446	68.7%
Glenn	22		17	77.3%	5	22.7%
Humboldt	235		190	80.9%	170	72.3%
Imperial	360		238	66.1%	211	58.6%
Inyo	20		17	85.0%	15	75.0%
Kern	1,847		1,124	60.9%	899	48.7%
Kings	205		129	62.9%	115	56.1%
Lake	150		129	86.0%	117	78.0%
Lassen	29		17	58.6%	16	55.2%
Long Beach	4,400		3,174	72.1%	2,855	64.9%
Los Angeles	52,409		37,193	71.0%	32,365	61.8%
Madera	189		138	73.0%	126	66.7%
Marin	832		633	76.1%	605	72.7%
Mariposa	22		21	95.5%	19	86.4%
Mendocino	173		142	82.1%	129	74.6%
Merced	321		258	80.4%	212	66.0%
Modoc	-		-	-	-	-
Mono	-		-	-	-	-
Monterey	773		574	74.3%	504	65.2%
Napa	273		225	82.4%	210	76.9%
Nevada	141		112	79.4%	102	72.3%
Orange	7,302		5,104	69.9%	4,598	63.0%
Pasadena	609		476	78.2%	432	70.9%
Placer	378		318	84.1%	290	76.7%
Plumas	19		16	84.2%	15	78.9%
Riverside	9,772		8,143	83.3%	7,410	75.8%
Sacramento	4,507		3,594	79.7%	3,098	68.7%
San Benito	51		40	78.4%	37	72.5%
San Bernardino	4,907		3,538	72.1%	2,911	59.3%
San Diego	13,844		10,163	73.4%	8,169	59.0%
San Francisco	12,550		10,210	81.4%	9,388	74.8%
San Joaquin	1,395		998	71.5%	820	58.8%
San Luis Obispo	393		280	71.2%	230	58.5%
San Mateo	1,657		1,306	78.8%	961	58.0%
Santa Barbara	589		475	80.6%	430	73.0%

Table 2d. Continuum of HIV care for persons living with diagnosed HIV infection, 2019 — California (continued)

Jurisdiction of residence (by name)	No. people living and diagnosed with HIV	In care		Virally suppressed	
	N	N	%	N	%
2021 California Integrated Plan Objective			90.0%		80.0%
Santa Clara	3,651	2,912	79.8%	2,572	70.4%
Santa Cruz	526	434	82.5%	393	74.7%
Shasta	227	187	82.4%	168	74.0%
Sierra	-	-	-	-	-
Siskiyou	64	56	87.5%	47	73.4%
Solano	1,334	1,010	75.7%	894	67.0%
Sonoma	1,455	1,275	87.6%	1,209	83.1%
Stanislaus	848	675	79.6%	594	70.0%
Sutter	111	87	78.4%	63	56.8%
Tehama	44	34	77.3%	18	40.9%
Trinity	17	14	82.4%	13	76.5%
Tulare	496	377	76.0%	293	59.1%
Tuolumne	54	41	75.9%	34	63.0%
Ventura	1,157	861	74.4%	762	65.9%
Yolo	318	261	82.1%	220	69.2%
Yuba	91	67	73.6%	51	56.0%

Note: Data from city local health jurisdictions Berkeley, Pasadena, and Long Beach are reported as a subset of their respective counties. Persons who had at least one CD4, viral load, or HIV-1 genotype test during the calendar year were considered to be in care. Persons whose most recent HIV viral load test result during the calendar year was ≤ 200 copies/ml were considered to be virally suppressed. Small numbers were suppressed to ensure the confidentiality of personally identifiable information.

Table 3a. Deaths among persons with diagnosed HIV infection, by year and selected demographic characteristics, 2015–2019 — California

Characteristic	2015			2016			2017			2018			2019			
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	
Age at death (in years)	0 to11	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
	12 to 14	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
	15 to 17	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	0.1	0	0.0%	0.0	0	0.0%	0.0
	18 to 19	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	0.1	1	0.1%	0.1	0	0.0%	0.0
	20 to 24	12	0.7%	0.4	10	0.5%	0.3	10	0.5%	0.3	8	0.4%	0.3	13	0.7%	0.4
	25 to 29	27	1.5%	1.0	48	2.5%	1.8	49	2.6%	1.8	34	1.8%	1.3	47	2.5%	1.7
	30 to 34	70	3.8%	2.5	67	3.5%	2.4	69	3.6%	2.5	73	3.8%	2.7	61	3.2%	2.3
	35 to 39	94	5.1%	3.6	110	5.8%	4.2	102	5.3%	3.8	85	4.4%	3.1	104	5.4%	3.8
	40 to 44	140	7.6%	5.5	105	5.5%	4.2	97	5.1%	3.9	105	5.5%	4.2	118	6.2%	4.7
	45 to 49	214	11.6%	8.3	219	11.5%	8.4	187	9.8%	7.2	170	8.9%	6.6	128	6.7%	5.1
	50 to 54	329	17.8%	12.5	330	17.3%	12.8	299	15.6%	11.8	287	15.0%	11.4	255	13.3%	10.3
	55 to 59	360	19.5%	14.4	352	18.4%	14.0	367	19.2%	14.5	300	15.6%	11.8	342	17.9%	13.4
	60 to 64	240	13.0%	11.3	284	14.9%	13.0	286	14.9%	12.7	313	16.3%	13.6	323	16.9%	13.8
	65 to 74	270	14.6%	9.0	288	15.1%	9.3	306	16.0%	9.5	377	19.7%	11.2	352	18.4%	10.1
	≥ 75	90	4.9%	4.0	99	5.2%	4.3	142	7.4%	6.0	164	8.6%	6.7	169	8.8%	6.6
	Race/ethnicity	Latinx	470	25.5%	3.1	465	24.3%	3.1	522	27.2%	3.4	527	27.5%	3.4	522	27.3%
American Indian/Alaska Native		4	0.2%	2.2	4	0.2%	2.1	5	0.3%	2.6	3	0.2%	1.5	2	0.1%	1.0
Asian		38	2.1%	0.7	32	1.7%	0.6	28	1.5%	0.5	42	2.2%	0.7	34	1.8%	0.6
Black/African American		408	22.1%	17.5	446	23.3%	19.0	387	20.2%	16.4	388	20.2%	16.4	376	19.7%	15.8
Native Hawaiian/Other Pacific Islander		4	0.2%	2.9	2	0.1%	1.5	1	0.1%	0.7	4	0.2%	2.9	2	0.1%	1.5
White		816	44.2%	5.4	846	44.2%	5.7	851	44.4%	5.7	827	43.1%	5.6	867	45.3%	5.9
Multiple races		106	5.7%	12.2	117	6.1%	13.5	122	6.4%	13.9	126	6.6%	14.2	109	5.7%	12.3
Gender		Cisgender men	1,594	86.3%	8.2	1,627	85.1%	8.3	1,680	87.7%	8.5	1,652	86.2%	8.3	1,642	85.9%
Cisgender women	227	12.3%	1.2	251	13.1%	1.3	215	11.2%	1.1	240	12.5%	1.2	247	12.9%	1.2	
Trans women	23	1.2%	-	34	1.8%	-	21	1.1%	-	22	1.1%	-	23	1.2%	-	
Trans men	1	0.1%	-	0	0.0%	-	0	0.0%	-	2	0.1%	-	0	0.0%	-	
Alternative gender identity	1	0.1%	-	0	0.0%	-	0	0.0%	-	1	0.1%	-	0	0.0%	-	
Total	1,846		4.7	1,912		4.9	1,916		4.8	1,917		4.8	1,912		4.8	

Note: Rates are per 100,000 population. Dash (—) indicates rates not calculated due to unknown population denominators. Until 2003, Asian/Native Hawaiian/Pacific Islander was classified as a single category; therefore persons with race/ethnicity data only available prior to 2003 are classified as Asian because they cannot be disaggregated.

Table 3b. Deaths among persons with diagnosed HIV infection, by year and transmission category, 2015–2019 — California

Demographic group	Transmission category	2015	%	2016	%	2017	%	2018	%	2019	%
Cisgender men (age ≥12 at death)	Male-to-male sexual contact (MMSC)	998	62.6%	1,024	62.9%	1,054	62.7%	1,042	63.1%	1,080	65.8%
	Injection drug use (IDU)	168	10.5%	162	10.0%	155	9.2%	153	9.3%	138	8.4%
	MMSC and IDU	249	15.6%	229	14.1%	251	14.9%	244	14.8%	210	12.8%
	High-risk heterosexual contact	63	4.0%	61	3.7%	63	3.8%	49	3.0%	61	3.7%
	Heterosexual contact (non-high-risk)	43	2.7%	61	3.7%	63	3.8%	71	4.3%	56	3.4%
	Perinatal/Unknown risk/Other	73	4.6%	90	5.5%	94	5.6%	93	5.6%	97	5.9%
	Subtotal		1,594	86.3%	1,627	85.1%	1,680	87.7%	1,652	86.2%	1,642
Cisgender women (age ≥12 at death)	Injection drug use	101	44.5%	86	34.3%	82	38.1%	89	37.1%	98	39.7%
	High-risk heterosexual contact	80	35.2%	107	42.6%	72	33.5%	90	37.5%	96	38.9%
	Heterosexual contact (non-high-risk)	30	13.2%	36	14.3%	43	20.0%	45	18.8%	37	15.0%
	Perinatal/Unknown risk/Other	16	7.0%	22	8.8%	18	8.4%	16	6.7%	16	6.5%
Subtotal		227	12.3%	251	13.1%	215	11.2%	240	12.5%	247	12.9%
Trans women (age ≥12 at death)	Sexual contact	22	95.7%	33	97.1%	21	100.0%	22	100.0%	22	95.7%
	Injection drug use (IDU)	0	0.0%	1	2.9%	0	0.0%	0	0.0%	1	4.3%
	Perinatal/Unknown risk/Other	1	4.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Subtotal		23	1.2%	34	1.8%	21	1.1%	22	1.1%	23	1.2%
Trans men (age ≥12 at death)	Sexual contact	1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Injection drug use	0	0.0%	0	0.0%	0	0.0%	2	100.0%	0	0.0%
	Perinatal/Unknown risk/Other	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Subtotal		1	0.1%	0	0.0%	0	0.0%	2	0.1%	0	0.0%
Alternative gender (age ≥12 at death)	Sexual contact	1	100.0%	0	0.0%	0	0.0%	1	100.0%	0	0.0%
	Injection drug use	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Subtotal		1	0.1%	0	0.0%	0	0.0%	1	0.1%	0
Child (age <12 at death)	Perinatal/Unknown risk/Other	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Subtotal		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Total		1,846		1,912		1,916		1,917		1,912	

Note: High-risk heterosexual contact: heterosexual intercourse with a person of the opposite sex-at-birth who has a high risk for HIV (e.g., MMSC, IDU). Heterosexual contact (non-high-risk): heterosexual intercourse with a person of the opposite sex-at-birth who does not have a high risk for HIV. Transgender persons who report sexual contact are placed in the transmission category of sexual contact, regardless of IDU. Other includes hemophilia, blood transfusion, and risk factor not reported or not identified.

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Table 3c. Deaths among persons with diagnosed HIV infection, by year and local health jurisdiction, 2015–2019 — California

County of residence at death	2015			2016			2017			2018			2019		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	86	4.7%	5.3	85	4.4%	5.2	74	3.9%	4.5	81	4.2%	4.9	81	4.2%	4.8
Alpine	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Amador	1	0.1%	2.7	2	0.1%	5.4	3	0.2%	8.0	0	0.0%	0.0	1	0.1%	2.6
Butte	12	0.7%	5.3	8	0.4%	3.6	9	0.5%	4.0	7	0.4%	3.1	8	0.4%	3.7
Calaveras	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	2.2	2	0.1%	4.5	2	0.1%	4.5
Colusa	0	0.0%	0.0	2	0.1%	9.1	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	4.4
Contra Costa	43	2.3%	3.8	39	2.0%	3.5	33	1.7%	2.9	41	2.1%	3.6	47	2.5%	4.1
Del Norte	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	3.7	0	0.0%	0.0	0	0.0%	0.0
El Dorado	3	0.2%	1.6	3	0.2%	1.6	4	0.2%	2.1	2	0.1%	1.1	3	0.2%	1.6
Fresno	38	2.1%	3.9	39	2.0%	3.9	46	2.4%	4.6	25	1.3%	2.5	32	1.7%	3.1
Glenn	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	3.5	0	0.0%	0.0	0	0.0%	0.0
Humboldt	11	0.6%	8.1	7	0.4%	5.2	7	0.4%	5.2	6	0.3%	4.4	3	0.2%	2.2
Imperial	4	0.2%	2.2	4	0.2%	2.1	3	0.2%	1.6	8	0.4%	4.2	3	0.2%	1.6
Inyo	1	0.1%	5.4	1	0.1%	5.4	1	0.1%	5.4	0	0.0%	0.0	0	0.0%	0.0
Kern	28	1.5%	3.2	30	1.6%	3.4	30	1.6%	3.3	39	2.0%	4.3	37	1.9%	4.0
Kings	0	0.0%	0.0	1	0.1%	0.7	4	0.2%	2.7	2	0.1%	1.3	2	0.1%	1.3
Lake	1	0.1%	1.5	4	0.2%	6.2	4	0.2%	6.2	7	0.4%	10.8	6	0.3%	9.2
Lassen	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	3.3
Los Angeles	677	36.7%	6.7	682	35.7%	6.7	697	36.4%	6.8	717	37.4%	7.0	651	34.0%	6.3
Madera	0	0.0%	0.0	3	0.2%	1.9	3	0.2%	1.9	4	0.2%	2.5	1	0.1%	0.6
Marin	10	0.5%	3.8	13	0.7%	5.0	13	0.7%	5.0	10	0.5%	3.8	9	0.5%	3.4
Mariposa	0	0.0%	0.0	1	0.1%	5.5	1	0.1%	5.6	1	0.1%	5.6	0	0.0%	0.0
Mendocino	0	0.0%	0.0	5	0.3%	5.6	3	0.2%	3.4	4	0.2%	4.5	2	0.1%	2.3
Merced	5	0.3%	1.9	8	0.4%	2.9	6	0.3%	2.2	7	0.4%	2.5	9	0.5%	3.2
Modoc	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	10.5
Mono	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	7.2	1	0.1%	7.2	0	0.0%	0.0
Monterey	10	0.5%	2.3	12	0.6%	2.7	9	0.5%	2.0	8	0.4%	1.8	14	0.7%	3.1
Napa	4	0.2%	2.8	1	0.1%	0.7	0	0.0%	0.0	0	0.0%	0.0	4	0.2%	2.9
Nevada	2	0.1%	2.0	2	0.1%	2.0	4	0.2%	4.1	3	0.2%	3.0	2	0.1%	2.0
Orange	89	4.8%	2.8	82	4.3%	2.6	93	4.9%	2.9	101	5.3%	3.1	93	4.9%	2.9
Placer	6	0.3%	1.6	4	0.2%	1.1	3	0.2%	0.8	4	0.2%	1.0	9	0.5%	2.3
Plumas	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Riverside	139	7.5%	6.0	140	7.3%	5.9	130	6.8%	5.4	159	8.3%	6.6	156	8.2%	6.4
Sacramento	52	2.8%	3.5	89	4.7%	5.9	66	3.4%	4.3	60	3.1%	3.9	77	4.0%	5.0
San Benito	1	0.1%	1.7	3	0.2%	5.0	1	0.1%	1.7	1	0.1%	1.6	0	0.0%	0.0
San Bernardino	70	3.8%	3.3	66	3.5%	3.1	75	3.9%	3.5	55	2.9%	2.5	67	3.5%	3.0
San Diego	135	7.3%	4.1	155	8.1%	4.7	147	7.7%	4.4	151	7.9%	4.5	157	8.2%	4.7
San Francisco	212	11.5%	24.5	189	9.9%	21.7	231	12.1%	26.2	215	11.2%	24.2	220	11.5%	24.7
San Joaquin	30	1.6%	4.1	35	1.8%	4.7	38	2.0%	5.1	22	1.1%	2.9	35	1.8%	4.5
San Luis Obispo	13	0.7%	4.7	9	0.5%	3.2	9	0.5%	3.2	7	0.4%	2.5	6	0.3%	2.2
San Mateo	13	0.7%	1.7	19	1.0%	2.5	10	0.5%	1.3	20	1.0%	2.6	18	0.9%	2.3
Santa Barbara	4	0.2%	0.9	9	0.5%	2.0	11	0.6%	2.4	7	0.4%	1.5	9	0.5%	2.0
Santa Clara	39	2.1%	2.0	41	2.1%	2.1	28	1.5%	1.4	37	1.9%	1.9	36	1.9%	1.8
Santa Cruz	6	0.3%	2.2	6	0.3%	2.2	9	0.5%	3.3	8	0.4%	2.9	4	0.2%	1.5
Shasta	7	0.4%	3.9	6	0.3%	3.4	1	0.1%	0.6	3	0.2%	1.7	7	0.4%	3.9
Sierra	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Siskiyou	2	0.1%	4.5	2	0.1%	4.5	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Solano	17	0.9%	4.0	15	0.8%	3.5	22	1.1%	5.0	13	0.7%	3.0	28	1.5%	6.3
Sonoma	24	1.3%	4.8	19	1.0%	3.8	36	1.9%	7.2	19	1.0%	3.8	25	1.3%	5.0
Stanislaus	18	1.0%	3.3	21	1.1%	3.9	10	0.5%	1.8	13	0.7%	2.3	14	0.7%	2.5
Sutter	2	0.1%	2.1	3	0.2%	3.1	2	0.1%	2.0	3	0.2%	3.0	0	0.0%	0.0
Tehama	1	0.1%	1.6	0	0.0%	0.0	0	0.0%	0.0	3	0.2%	4.6	2	0.1%	3.1
Trinity	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Tulare	12	0.7%	2.6	17	0.9%	3.6	11	0.6%	2.3	10	0.5%	2.1	10	0.5%	2.1
Tuolumne	0	0.0%	0.0	0	0.0%	0.0	3	0.2%	5.7	0	0.0%	0.0	1	0.1%	1.9
Ventura	12	0.7%	1.4	23	1.2%	2.7	16	0.8%	1.9	18	0.9%	2.1	16	0.8%	1.9
Yolo	5	0.3%	2.3	4	0.2%	1.8	5	0.3%	2.3	9	0.5%	4.1	1	0.1%	0.4
Yuba	1	0.1%	1.3	3	0.2%	4.0	1	0.1%	1.3	4	0.2%	5.2	1	0.1%	1.3
Total	1,846		4.7	1,912		4.9	1,916		4.8	1,917		4.8	1,912		4.8
Berkeley city	5	0.3%	4.1	8	0.4%	6.6	5	0.3%	4.1	6	0.3%	4.9	4	0.2%	3.3
Long Beach city	62	3.4%	13.2	72	3.8%	15.3	75	3.9%	16.0	82	4.3%	17.5	48	2.5%	10.4
Pasadena city	11	0.6%	7.9	14	0.7%	10.0	7	0.4%	5.0	11	0.6%	7.8	3	0.2%	2.1

Note: Rates are per 100,000 population. Numbers for the city health jurisdictions of Berkeley, Long Beach and Pasadena are subsets of the numbers for the counties in which they are located (numbers on Alameda, and Los Angeles counties (above) include the respective city LHJ numbers).