



California HIV Surveillance Report — 2021

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 2017–2021
- Number and rate of all persons living with diagnosed HIV infection during 2017–2021
- Number and rate of deaths among persons with diagnosed HIV infection during 2017–2021

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 2017 through 2021, both the annual number and rate of new HIV diagnoses declined in California. The number of new diagnoses declined by 9.4% — from 4,905 in 2017 to 4,444 in 2021, while the rate of new diagnoses per 100,000 population declined by 10.5%, from 12.4 to 11.1 during the same time period.
- From 2017 through 2021, the number of persons in California living with diagnosed HIV infection increased from approximately 135,468 to over 141,000. In 2021, the prevalence rate of diagnosed HIV infection was 352.9 per 100,000 population, compared to 343.1 in 2017— an increase of 2.9%.
- Of the 141,001 people living with diagnosed HIV infection in 2021, 73.0% were in HIV care and 64.4% achieved viral suppression. The *Ending the HIV Epidemic in the U.S. (EHE)* goals are to increase linkage to care and viral suppression to 95% by 2025.
- From 2017 through 2021, the annual number of deaths of persons with diagnosed HIV infection in California increased from 1,840 to 2,224. In 2021, the crude death rate of persons with diagnosed HIV infection was 5.6 per 100,000 population — a 19.1% increase since 2017. 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, 2022, 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, 2022. 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 2021). For rates at the city level we used the U.S. Census Bureau; American Community Survey 1-Year Estimates for 2017-2019 and 2021, Table DP05, and Decennial Census for 2020, Table P1. Retrieved March 7, 2023. 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, 2017–2021 — California

Characteristic	2017			2018			2019			2020			2021			
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	
Age at diagnosis (in years)	0 to 11	8	0.2%	0.1	6	0.1%	0.1	6	0.1%	0.1	6	0.1%	0.1	6	0.1%	0.1
	12 to 14	4	0.1%	0.3	2	0.0%	0.1	2	0.0%	0.1	1	0.0%	0.1	3	0.1%	0.2
	15 to 17	34	0.7%	2.1	33	0.7%	2.1	29	0.6%	1.8	29	0.7%	1.8	35	0.8%	2.2
	18 to 19	131	2.7%	11.2	140	2.9%	11.9	112	2.5%	9.5	80	2.0%	6.9	120	2.7%	10.3
	20 to 24	807	16.5%	26.6	766	15.9%	25.5	666	14.6%	22.4	561	13.9%	19.0	568	12.8%	19.4
	25 to 29	994	20.3%	39.1	990	20.6%	38.0	905	19.8%	34.1	859	21.3%	32.0	835	18.8%	30.7
	30 to 34	765	15.6%	28.7	797	16.6%	30.7	767	16.8%	30.3	725	18.0%	29.3	811	18.2%	32.7
	35 to 39	582	11.9%	21.8	567	11.8%	20.9	603	13.2%	22.0	481	11.9%	17.7	624	14.0%	23.3
	40 to 44	431	8.8%	17.2	392	8.2%	15.6	397	8.7%	15.8	363	9.0%	14.3	404	9.1%	15.6
	45 to 49	383	7.8%	14.5	383	8.0%	14.6	333	7.3%	12.9	295	7.3%	11.7	295	6.6%	11.9
	50 to 54	331	6.7%	12.8	267	5.6%	10.5	297	6.5%	11.8	249	6.2%	9.8	281	6.3%	11.0
	55 to 59	218	4.4%	8.5	217	4.5%	8.5	227	5.0%	8.9	178	4.4%	7.0	231	5.2%	9.3
	60 to 64	125	2.5%	5.5	122	2.5%	5.2	125	2.7%	5.3	117	2.9%	4.9	135	3.0%	5.6
	65 to 74	78	1.6%	2.4	105	2.2%	3.1	77	1.7%	2.2	72	1.8%	2.0	86	1.9%	2.3
≥ 75	14	0.3%	0.6	17	0.4%	0.7	14	0.3%	0.6	12	0.3%	0.5	10	0.2%	0.4	
Race/ethnicity	Latinx	2,299	46.9%	14.9	2,342	48.8%	15.1	2,287	50.2%	14.6	2,042	50.7%	13.0	2,307	51.9%	14.6
	American Indian/Alaska Native	16	0.3%	9.3	13	0.3%	7.6	17	0.4%	9.9	9	0.2%	5.2	21	0.5%	12.1
	Asian	356	7.3%	6.9	276	5.7%	5.3	253	5.5%	4.8	213	5.3%	4.1	227	5.1%	4.3
	Black/African American	811	16.5%	35.8	820	17.1%	36.2	774	17.0%	34.0	679	16.9%	29.7	777	17.5%	33.8
	Native Hawaiian/Other Pacific Islander	12	0.2%	8.4	17	0.4%	11.9	12	0.3%	8.4	12	0.3%	8.4	16	0.4%	11.1
	White	1,226	25.0%	8.0	1,175	24.5%	7.7	1,088	23.9%	7.1	963	23.9%	6.3	1,009	22.7%	6.6
	Multiple races	185	3.8%	17.6	161	3.4%	15.1	129	2.8%	11.9	110	2.7%	10.0	87	2.0%	7.8
Gender	Cisgender men	4,269	87.0%	21.7	4,140	86.2%	20.9	3,886	85.2%	19.6	3,405	84.5%	17.2	3,753	84.5%	18.8
	Cisgender women	549	11.2%	2.8	567	11.8%	2.9	544	11.9%	2.7	503	12.5%	2.5	552	12.4%	2.8
	Trans women	82	1.7%	-	85	1.8%	-	120	2.6%	-	114	2.8%	-	125	2.8%	-
	Trans men	4	0.1%	-	12	0.2%	-	9	0.2%	-	4	0.1%	-	8	0.2%	-
	Alternative gender identity	1	0.0%	-	0	0.0%	-	1	0.0%	-	2	0.0%	-	6	0.1%	-
Total	4,905		12.4	4,804		12.1	4,560		11.5	4,028		10.1	4,444		11.1	

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, 2017–2021 — California

Demographic group	Transmission category	2017	%	2018	%	2019	%	2020	%	2021	%
Cisgender men (age ≥12 at diagnosis)	Male-to-male sexual contact (MMSC)	3,146	73.7%	3,051	73.7%	2,783	71.7%	2,327	68.4%	2,526	67.4%
	Injection drug use (IDU)	151	3.5%	161	3.9%	145	3.7%	125	3.7%	160	4.3%
	MMSC and IDU	197	4.6%	193	4.7%	180	4.6%	128	3.8%	141	3.8%
	High-risk heterosexual contact	111	2.6%	115	2.8%	75	1.9%	66	1.9%	83	2.2%
	Heterosexual contact (non-high-risk)	302	7.1%	339	8.2%	336	8.7%	322	9.5%	386	10.3%
	Perinatal/Unknown risk/Other	359	8.4%	278	6.7%	363	9.4%	433	12.7%	454	12.1%
	Subtotal		4,266	87.0%	4,137	86.1%	3,882	85.1%	3,401	84.4%	3,750
Cisgender women (age ≥12 at diagnosis)	Injection drug use (IDU)	86	15.8%	74	13.1%	76	14.0%	73	14.6%	80	14.6%
	High-risk heterosexual contact	180	33.1%	182	32.3%	153	28.2%	122	24.4%	124	22.6%
	Heterosexual contact (non-high-risk)	219	40.3%	255	45.2%	253	46.7%	232	46.3%	279	50.8%
	Perinatal/Unknown risk/Other	59	10.8%	53	9.4%	60	11.1%	74	14.8%	66	12.0%
Subtotal		544	11.1%	564	11.7%	542	11.9%	501	12.4%	549	12.4%
Trans women (age ≥12 at diagnosis)	Sexual contact	76	92.7%	82	96.5%	116	96.7%	111	97.4%	115	92.0%
	Injection drug use (IDU)	0	0.0%	2	2.4%	1	0.8%	0	0.0%	3	2.4%
	Perinatal/Unknown risk/Other	6	7.3%	1	1.2%	3	2.5%	3	2.6%	7	5.6%
Subtotal		82	1.7%	85	1.8%	120	2.6%	114	2.8%	125	2.8%
Trans men (age ≥12 at diagnosis)	Sexual contact	2	50.0%	8	66.7%	7	77.8%	2	50.0%	7	87.5%
	Injection drug use (IDU)	1	25.0%	2	16.7%	1	11.1%	2	50.0%	0	0.0%
	Perinatal/Unknown risk/Other	1	25.0%	2	16.7%	1	11.1%	0	0.0%	1	12.5%
Subtotal		4	0.1%	12	0.2%	9	0.2%	4	0.1%	8	0.2%
Alternative gender (age ≥12 at diagnosis)	Sexual contact	1	100.0%	0	0.0%	1	100.0%	1	50.0%	5	83.3%
	Perinatal/Unknown risk/Other	0	0.0%	0	0.0%	0	0.0%	1	50.0%	1	16.7%
Subtotal		1	0.0%	0	0.0%	1	0.0%	2	0.0%	6	0.1%
Child (age <12 at diagnosis)	Perinatal	6	75.0%	5	83.3%	6	100.0%	6	100.0%	6	100.0%
	Unknown risk	2	25.0%	1	16.7%	0	0.0%	0	0.0%	0	0.0%
	Other	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Subtotal		8	0.2%	6	0.1%	6	0.1%	6	0.1%	6
Total		4,905		4,804		4,560		4,028		4,444	

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, 2017–2021 — California

County of residence at diagnosis	2017			2018			2019			2020			2021		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	208	4.2%	12.6	203	4.2%	12.2	222	4.9%	13.3	160	4.0%	9.6	187	4.2%	11.1
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	3	0.1%	7.9	0	0.0%	0.0	1	0.0%	2.7	0	0.0%	0.0
Butte	7	0.1%	3.1	10	0.2%	4.4	10	0.2%	4.7	12	0.3%	5.8	10	0.2%	4.4
Calaveras	2	0.0%	4.5	2	0.0%	4.5	2	0.0%	4.5	1	0.0%	2.3	1	0.0%	2.3
Colusa	2	0.0%	9.1	2	0.0%	9.1	5	0.1%	22.7	1	0.0%	4.5	2	0.0%	8.8
Contra Costa	108	2.2%	9.5	113	2.4%	9.9	99	2.2%	8.6	74	1.8%	6.4	108	2.4%	9.3
Del Norte	1	0.0%	3.8	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	3.7
El Dorado	9	0.2%	4.9	5	0.1%	2.7	5	0.1%	2.6	6	0.1%	3.1	8	0.2%	4.2
Fresno	157	3.2%	15.7	110	2.3%	10.9	115	2.5%	11.3	124	3.1%	12.1	147	3.3%	14.4
Glenn	2	0.0%	7.0	1	0.0%	3.5	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Humboldt	4	0.1%	3.0	15	0.3%	11.1	6	0.1%	4.5	4	0.1%	3.0	8	0.2%	6.0
Imperial	41	0.8%	21.9	34	0.7%	18.1	33	0.7%	17.5	25	0.6%	13.3	17	0.4%	8.9
Inyo	2	0.0%	10.8	1	0.0%	5.4	0	0.0%	0.0	1	0.0%	5.4	1	0.0%	5.5
Kern	152	3.1%	17.0	154	3.2%	17.1	181	4.0%	19.9	164	4.1%	18.0	184	4.1%	20.0
Kings	20	0.4%	13.3	9	0.2%	5.9	9	0.2%	5.9	8	0.2%	5.2	10	0.2%	6.4
Lake	4	0.1%	6.2	4	0.1%	6.2	4	0.1%	6.2	3	0.1%	4.7	1	0.0%	1.6
Lassen	2	0.0%	6.7	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Los Angeles	1,777	36.2%	17.4	1,727	36.0%	16.9	1,566	34.4%	15.3	1,410	35.0%	13.9	1,506	33.9%	14.8
Madera	13	0.3%	8.3	15	0.3%	9.5	7	0.2%	4.4	8	0.2%	5.0	13	0.3%	8.1
Marin	17	0.3%	6.5	21	0.4%	8.0	14	0.3%	5.4	14	0.3%	5.4	13	0.3%	5.0
Mariposa	1	0.0%	5.6	2	0.0%	11.2	0	0.0%	0.0	1	0.0%	5.6	0	0.0%	0.0
Mendocino	4	0.1%	4.5	5	0.1%	5.7	4	0.1%	4.5	5	0.1%	5.7	4	0.1%	4.5
Merced	26	0.5%	9.4	28	0.6%	10.1	27	0.6%	9.6	31	0.8%	10.9	39	0.9%	13.6
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	1	0.0%	7.3	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Monterey	47	1.0%	10.7	43	0.9%	9.7	29	0.6%	6.5	18	0.4%	4.1	31	0.7%	7.0
Napa	7	0.1%	5.0	7	0.1%	5.0	10	0.2%	7.1	6	0.1%	4.3	11	0.2%	7.9
Nevada	3	0.1%	3.1	3	0.1%	3.1	6	0.1%	6.1	3	0.1%	3.1	4	0.1%	4.1
Orange	316	6.4%	9.9	287	6.0%	9.0	245	5.4%	7.7	264	6.6%	8.3	270	6.1%	8.4
Placer	19	0.4%	5.0	11	0.2%	2.8	13	0.3%	3.3	17	0.4%	4.3	14	0.3%	3.5
Plumas	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	5.4	1	0.0%	5.5	1	0.0%	5.2
Riverside	277	5.6%	11.6	264	5.5%	11.0	270	5.9%	11.1	240	6.0%	9.8	259	5.8%	10.5
Sacramento	185	3.8%	12.2	180	3.7%	11.7	166	3.6%	10.7	153	3.8%	9.8	178	4.0%	11.4
San Benito	8	0.2%	13.4	3	0.1%	4.9	1	0.0%	1.6	4	0.1%	6.4	2	0.0%	3.2
San Bernardino	258	5.3%	12.0	267	5.6%	12.4	303	6.6%	13.9	267	6.6%	12.2	305	6.9%	13.9
San Diego	423	8.6%	12.8	390	8.1%	11.7	415	9.1%	12.4	329	8.2%	9.8	379	8.5%	11.3
San Francisco	242	4.9%	27.3	241	5.0%	27.0	209	4.6%	23.3	155	3.8%	17.2	185	4.2%	20.7
San Joaquin	68	1.4%	9.1	69	1.4%	9.1	75	1.6%	9.8	88	2.2%	11.3	100	2.3%	12.9
San Luis Obispo	9	0.2%	3.2	16	0.3%	5.8	14	0.3%	5.0	11	0.3%	4.0	10	0.2%	3.6
San Mateo	60	1.2%	7.8	61	1.3%	7.9	55	1.2%	7.1	46	1.1%	5.9	47	1.1%	6.1
Santa Barbara	27	0.6%	6.0	31	0.6%	6.9	38	0.8%	8.4	24	0.6%	5.3	27	0.6%	6.0
Santa Clara	158	3.2%	8.1	166	3.5%	8.5	162	3.6%	8.3	109	2.7%	5.6	122	2.7%	6.2
Santa Cruz	7	0.1%	2.5	11	0.2%	4.0	11	0.2%	4.0	13	0.3%	4.8	18	0.4%	6.5
Shasta	2	0.0%	1.1	7	0.1%	3.9	6	0.1%	3.4	2	0.0%	1.1	1	0.0%	0.6
Sierra	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	32.3
Siskiyou	0	0.0%	0.0	3	0.1%	6.8	0	0.0%	0.0	3	0.1%	6.9	0	0.0%	0.0
Solano	36	0.7%	8.3	45	0.9%	10.3	41	0.9%	9.3	50	1.2%	11.4	38	0.9%	8.5
Sonoma	30	0.6%	6.0	33	0.7%	6.6	24	0.5%	4.8	37	0.9%	7.5	29	0.7%	5.8
Stanislaus	52	1.1%	9.5	60	1.2%	10.9	40	0.9%	7.2	28	0.7%	5.0	46	1.0%	8.2
Sutter	6	0.1%	6.1	9	0.2%	8.9	8	0.2%	7.8	7	0.2%	6.9	2	0.0%	2.0
Tehama	3	0.1%	4.7	4	0.1%	6.2	0	0.0%	0.0	1	0.0%	1.5	4	0.1%	6.3
Trinity	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	7.5	0	0.0%	0.0	0	0.0%	0.0
Tulare	17	0.3%	3.6	50	1.0%	10.6	33	0.7%	6.9	29	0.7%	6.0	35	0.8%	7.3
Tuolumne	0	0.0%	0.0	1	0.0%	1.9	1	0.0%	1.9	0	0.0%	0.0	1	0.0%	1.9
Ventura	71	1.4%	8.4	54	1.1%	6.4	47	1.0%	5.6	57	1.4%	6.8	50	1.1%	5.9
Yolo	10	0.2%	4.6	20	0.4%	9.1	21	0.5%	9.5	10	0.2%	4.5	12	0.3%	5.3
Yuba	3	0.1%	3.9	3	0.1%	3.9	4	0.1%	5.1	3	0.1%	3.8	2	0.0%	2.6
Total	4,905		12.4	4,803		12.1	4,558		11.5	4,028		10.1	4,444		11.1
Berkeley city	15	0.3%	12.3	9	0.2%	7.4	8	0.2%	6.6	9	0.2%	7.2	8	0.2%	6.8
Long Beach city	112	2.3%	23.9	107	2.2%	22.9	108	2.4%	23.3	96	2.4%	20.6	94	2.1%	20.6
Pasadena city	21	0.4%	14.7	19	0.4%	13.4	16	0.4%	11.3	16	0.4%	11.5	12	0.3%	8.8

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).

Table 2a. Persons living with diagnosed HIV infection, by year and selected demographic characteristics, 2017–2021 — California

Characteristic	2017			2018			2019			2020			2021			
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	
Age at year end (years)	0 to11	117	0.1%	1.9	106	0.1%	1.8	91	0.1%	1.5	79	0.1%	1.4	75	0.1%	1.3
	12 to 14	77	0.1%	5.0	63	0.0%	4.1	57	0.0%	3.6	55	0.0%	3.5	49	0.0%	3.1
	15 to 17	100	0.1%	6.3	103	0.1%	6.5	113	0.1%	7.1	108	0.1%	6.8	106	0.1%	6.6
	18 to 19	252	0.2%	21.6	243	0.2%	20.7	223	0.2%	19.0	186	0.1%	16.0	211	0.1%	18.2
	20 to 24	3,060	2.3%	101.0	2,955	2.2%	98.5	2,764	2.0%	93.1	2,515	1.8%	85.3	2,332	1.7%	79.6
	25 to 29	8,023	5.9%	315.8	8,049	5.9%	309.2	7,918	5.7%	298.2	7,742	5.5%	288.4	7,385	5.2%	271.7
	30 to 34	10,900	8.0%	408.9	11,244	8.3%	433.3	11,677	8.5%	462.0	11,767	8.4%	475.0	11,992	8.5%	483.5
	35 to 39	12,255	9.0%	458.1	12,447	9.1%	457.8	12,582	9.1%	459.0	12,912	9.3%	475.8	13,249	9.4%	495.5
	40 to 44	12,861	9.5%	511.9	12,677	9.3%	505.0	12,880	9.3%	511.9	13,158	9.4%	518.1	13,511	9.6%	523.1
	45 to 49	17,963	13.3%	680.4	16,561	12.2%	631.4	15,506	11.2%	600.7	14,368	10.3%	570.0	13,718	9.7%	553.5
	50 to 54	22,978	17.0%	890.9	21,772	16.0%	854.6	20,619	14.9%	816.7	19,712	14.1%	779.4	18,790	13.3%	737.1
	55 to 59	20,447	15.1%	799.8	21,261	15.6%	828.4	22,147	16.1%	863.6	22,491	16.1%	888.4	22,075	15.7%	885.0
	60 to 64	13,290	9.8%	584.2	14,084	10.3%	605.8	15,080	10.9%	640.4	16,246	11.6%	681.9	17,387	12.3%	721.8
65 to 74	11,042	8.2%	335.4	12,189	9.0%	356.8	13,563	9.8%	383.4	15,002	10.8%	409.6	16,516	11.7%	435.7	
≥ 75	2,103	1.6%	89.6	2,389	1.8%	98.3	2,742	2.0%	108.5	3,165	2.3%	120.6	3,605	2.6%	131.7	
Race/ethnicity	Latinx	49,617	36.6%	321.9	50,995	37.5%	328.0	52,660	38.2%	336.9	54,076	38.8%	344.8	55,629	39.5%	352.2
	American Indian/Alaska Native	307	0.2%	178.8	300	0.2%	174.3	312	0.2%	180.8	315	0.2%	182.1	326	0.2%	187.2
	Asian	5,340	3.9%	102.9	5,536	4.1%	106.0	5,773	4.2%	110.5	5,970	4.3%	114.4	6,152	4.4%	117.8
	Black/African American	22,792	16.8%	1,007.1	22,890	16.8%	1,009.3	23,190	16.8%	1,018.0	23,403	16.8%	1,024.9	23,683	16.8%	1,031.6
	Native Hawaiian/Other Pacific Islander	223	0.2%	156.6	232	0.2%	162.1	240	0.2%	167.3	252	0.2%	175.7	268	0.2%	186.3
	White	51,894	38.3%	340.1	50,887	37.4%	333.7	50,471	36.6%	331.4	50,203	36.0%	330.6	49,740	35.3%	327.1
	Multiple races	5,291	3.9%	503.6	5,299	3.9%	496.0	5,312	3.9%	490.3	5,283	3.8%	481.5	5,199	3.7%	466.7
Unknown race	4	0.0%	-	4	0.0%	-	4	0.0%	-	4	0.0%	-	4	0.0%	-	
Gender	Cisgender men	117,621	86.8%	597.0	118,136	86.8%	596.7	119,602	86.7%	602.6	120,854	86.6%	608.8	122,021	86.5%	612.0
	Cisgender women	15,821	11.7%	80.0	15,921	11.7%	80.1	16,155	11.7%	81.1	16,364	11.7%	82.1	16,580	11.8%	82.8
	Trans women	1,964	1.4%	-	2,013	1.5%	-	2,125	1.5%	-	2,204	1.6%	-	2,302	1.6%	-
	Trans men	53	0.0%	-	65	0.0%	-	72	0.1%	-	74	0.1%	-	80	0.1%	-
	Alternative gender identity	9	0.0%	-	8	0.0%	-	8	0.0%	-	10	0.0%	-	18	0.0%	-
Total	135,468		343.1	136,143		343.2	137,962		347.0	139,506		350.7	141,001		352.9	

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, 2017–2021 — California

Demographic group	Transmission category	2017	%	2018	%	2019	%	2020	%	2021	%
Cisgender men (age ≥12 at year end)	Male-to-male sexual contact (MMSC)	90,791	77.2%	91,273	77.3%	92,327	77.2%	93,222	77.2%	94,001	77.1%
	Injection drug use (IDU)	5,150	4.4%	5,050	4.3%	5,011	4.2%	4,987	4.1%	4,923	4.0%
	MMSC and IDU	9,384	8.0%	9,136	7.7%	9,020	7.5%	8,839	7.3%	8,671	7.1%
	High-risk heterosexual contact	3,615	3.1%	3,624	3.1%	3,632	3.0%	3,611	3.0%	3,603	3.0%
	Heterosexual contact (non-high-risk)	4,063	3.5%	4,287	3.6%	4,575	3.8%	4,804	4.0%	5,097	4.2%
	Perinatal/Unknown risk/Other	4,563	3.9%	4,719	4.0%	4,993	4.2%	5,351	4.4%	5,690	4.7%
	Subtotal		117,566	86.8%	118,089	86.7%	119,558	86.7%	120,814	86.6%	121,985
Cisgender women (age ≥12 at year end)	Injection drug use (IDU)	2,807	17.8%	2,734	17.2%	2,695	16.7%	2,671	16.4%	2,664	16.1%
	High-risk heterosexual contact	8,155	51.7%	8,112	51.1%	8,120	50.4%	8,120	49.7%	8,080	48.8%
	Heterosexual contact (non-high-risk)	3,353	21.3%	3,545	22.3%	3,769	23.4%	3,940	24.1%	4,160	25.1%
	Perinatal/Unknown risk/Other	1,444	9.2%	1,471	9.3%	1,524	9.5%	1,594	9.8%	1,637	9.9%
Subtotal		15,759	11.6%	15,862	11.7%	16,108	11.7%	16,325	11.7%	16,541	11.7%
Trans women (age ≥12 at year end)	Sexual contact	1930	98.3%	1976	98.2%	2083	98.0%	2162	98.1%	2248	97.7%
	Injection drug use (IDU)	11	0.6%	13	0.6%	13	0.6%	11	0.5%	14	0.6%
	Perinatal/Unknown risk/Other	23	1.2%	24	1.2%	29	1.4%	31	1.4%	40	1.7%
Subtotal		1,964	1.4%	2,013	1.5%	2,125	1.5%	2,204	1.6%	2,302	1.6%
Trans men (age ≥12 at year end)	Sexual contact	35	66.0%	44	67.7%	49	68.1%	51	68.9%	56	70.0%
	Injection drug use (IDU)	12	22.6%	12	18.5%	13	18.1%	14	18.9%	14	17.5%
	Perinatal/Unknown risk/Other	6	11.3%	9	13.8%	10	13.9%	9	12.2%	10	12.5%
Subtotal		53	0.0%	65	0.0%	72	0.1%	74	0.1%	80	0.1%
Alternative gender (age ≥12 at year end)	Sexual contact	8	88.9%	8	100.0%	8	100.0%	9	90.0%	16	88.9%
	Injection drug use (IDU)	1	11.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Perinatal/Unknown risk/Other	0	0.0%	0	0.0%	0	0.0%	1	10.0%	2	11.1%
Subtotal		9	0.0%	8	0.0%	8	0.0%	10	0.0%	18	0.0%
Child (age <12 at year end)	Perinatal	96	82.1%	88	83.0%	76	83.5%	66	83.5%	63	84.0%
	Unknown risk	19	16.2%	16	15.1%	13	14.3%	11	13.9%	10	13.3%
	Other	2	1.7%	2	1.9%	2	2.2%	2	2.5%	2	2.7%
	Subtotal		117	0.1%	106	0.1%	91	0.1%	79	0.1%	75
Total		135,468		136,143		137,962		139,506		141,001	

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 2c. Persons living with diagnosed HIV infection, by year and current local health jurisdiction, 2017–2021 — California

County of current residence	2017			2018			2019			2020			2021		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	6,373	4.7%	386.1	6,331	4.7%	381.4	6,328	4.6%	379.2	6,250	4.5%	373.8	6,217	4.4%	370.4
Alpine	2	0.0%	174.5	2	0.0%	176.2	2	0.0%	178.1	2	0.0%	179.4	2	0.0%	176.5
Amador	219	0.2%	589.9	213	0.2%	563.9	190	0.1%	503.7	187	0.1%	497.6	180	0.1%	473.9
Butte	274	0.2%	121.3	275	0.2%	121.4	263	0.2%	122.6	270	0.2%	130.8	260	0.2%	114.6
Calaveras	47	0.0%	105.2	46	0.0%	103.2	51	0.0%	114.9	54	0.0%	121.9	54	0.0%	122.3
Colusa	11	0.0%	50.0	17	0.0%	77.4	18	0.0%	81.7	19	0.0%	86.1	19	0.0%	83.4
Contra Costa	2,627	1.9%	231.0	2,748	2.0%	240.1	2,769	2.0%	241.4	2,810	2.0%	244.4	2,816	2.0%	242.9
Del Norte	29	0.0%	109.2	31	0.0%	114.3	35	0.0%	128.6	40	0.0%	147.1	46	0.0%	171.4
El Dorado	198	0.1%	106.8	218	0.2%	116.0	226	0.2%	119.7	221	0.2%	115.1	233	0.2%	123.2
Fresno	1,970	1.5%	197.4	2,033	1.5%	201.5	2,104	1.5%	206.6	2,183	1.6%	212.7	2,246	1.6%	219.8
Glenn	22	0.0%	77.2	24	0.0%	83.9	22	0.0%	75.7	24	0.0%	81.3	20	0.0%	68.5
Humboldt	229	0.2%	169.5	230	0.2%	170.6	235	0.2%	175.6	228	0.2%	171.8	249	0.2%	185.5
Imperial	330	0.2%	176.5	338	0.2%	179.8	361	0.3%	191.0	371	0.3%	197.2	399	0.3%	208.2
Inyo	21	0.0%	113.1	19	0.0%	102.6	20	0.0%	108.3	21	0.0%	114.0	21	0.0%	115.6
Kern	1,677	1.2%	187.8	1,771	1.3%	196.5	1,854	1.3%	203.8	2,009	1.4%	220.0	2,178	1.5%	236.6
Kings	181	0.1%	120.4	200	0.1%	131.0	204	0.1%	132.9	206	0.1%	133.1	195	0.1%	125.7
Lake	145	0.1%	224.4	151	0.1%	233.8	150	0.1%	234.1	145	0.1%	227.4	143	0.1%	222.8
Lassen	26	0.0%	87.4	29	0.0%	97.7	29	0.0%	100.1	23	0.0%	79.7	27	0.0%	90.1
Los Angeles	51,970	38.4%	508.4	51,914	38.1%	507.6	52,519	38.1%	514.3	52,886	37.9%	519.9	53,060	37.6%	520.3
Madera	194	0.1%	124.3	193	0.1%	122.5	190	0.1%	120.5	219	0.2%	137.9	244	0.2%	151.4
Marin	809	0.6%	308.4	827	0.6%	315.4	833	0.6%	319.2	812	0.6%	313.6	805	0.6%	311.8
Mariposa	18	0.0%	100.0	20	0.0%	111.7	22	0.0%	123.3	18	0.0%	101.2	21	0.0%	119.5
Mendocino	179	0.1%	201.7	176	0.1%	198.9	173	0.1%	196.3	178	0.1%	203.4	182	0.1%	206.1
Merced	295	0.2%	107.2	304	0.2%	109.4	319	0.2%	113.3	354	0.3%	124.3	404	0.3%	141.4
Modoc	1	0.0%	10.5	4	0.0%	42.2	3	0.0%	31.7	4	0.0%	42.5	3	0.0%	32.0
Mono	8	0.0%	58.7	9	0.0%	66.4	9	0.0%	66.2	8	0.0%	59.5	8	0.0%	57.8
Monterey	725	0.5%	164.8	749	0.6%	169.5	771	0.6%	173.9	775	0.6%	175.6	780	0.6%	175.2
Napa	272	0.2%	192.9	270	0.2%	192.4	274	0.2%	195.9	292	0.2%	210.5	293	0.2%	210.2
Nevada	127	0.1%	129.8	129	0.1%	131.8	142	0.1%	145.2	144	0.1%	147.8	144	0.1%	146.9
Orange	7,281	5.4%	228.3	7,243	5.3%	226.7	7,299	5.3%	228.4	7,446	5.3%	233.4	7,595	5.4%	236.7
Placer	349	0.3%	91.1	359	0.3%	92.2	377	0.3%	95.5	385	0.3%	96.9	421	0.3%	106.2
Plumas	21	0.0%	114.3	20	0.0%	109.2	20	0.0%	108.4	22	0.0%	120.6	24	0.0%	125.5
Riverside	9,001	6.6%	377.8	9,423	6.9%	391.2	9,765	7.1%	402.1	10,185	7.3%	415.8	10,541	7.5%	425.4
Sacramento	4,456	3.3%	293.5	4,506	3.3%	293.7	4,585	3.3%	296.0	4,714	3.4%	301.7	4,791	3.4%	307.4
San Benito	51	0.0%	85.4	50	0.0%	82.3	51	0.0%	82.2	57	0.0%	90.8	60	0.0%	97.2
San Bernardino	4,408	3.3%	205.3	4,656	3.4%	215.5	4,910	3.6%	225.6	5,041	3.6%	230.8	5,263	3.7%	239.2
San Diego	13,828	10.2%	417.1	13,761	10.1%	412.1	13,855	10.0%	414.0	13,942	10.0%	415.9	14,133	10.0%	422.7
San Francisco	13,061	9.6%	1471.9	12,734	9.4%	1424.8	12,535	9.1%	1397.3	12,211	8.8%	1356.9	11,906	8.4%	1334.1
San Joaquin	1,338	1.0%	179.0	1,359	1.0%	179.6	1,401	1.0%	182.4	1,470	1.1%	189.4	1,546	1.1%	199.4
San Luis Obispo	420	0.3%	151.2	360	0.3%	129.4	392	0.3%	141.4	389	0.3%	140.9	404	0.3%	145.0
San Mateo	1,663	1.2%	215.3	1,648	1.2%	212.7	1,655	1.2%	213.3	1,636	1.2%	211.1	1,624	1.2%	209.6
Santa Barbara	555	0.4%	123.9	560	0.4%	124.3	593	0.4%	131.2	608	0.4%	134.7	628	0.4%	138.5
Santa Clara	3,499	2.6%	179.5	3,538	2.6%	180.6	3,647	2.6%	186.0	3,713	2.7%	189.2	3,765	2.7%	190.6
Santa Cruz	529	0.4%	192.7	526	0.4%	192.4	538	0.4%	197.7	551	0.4%	204.0	550	0.4%	200.0
Shasta	222	0.2%	124.7	221	0.2%	124.2	227	0.2%	127.8	226	0.2%	127.2	220	0.2%	124.7
Sierra	5	0.0%	158.8	6	0.0%	191.3	5	0.0%	159.9	4	0.0%	128.3	3	0.0%	96.8
Siskiyou	65	0.0%	146.9	71	0.1%	160.9	64	0.0%	145.5	65	0.0%	148.4	61	0.0%	140.8
Solano	1,319	1.0%	302.3	1,315	1.0%	299.9	1,329	1.0%	302.1	1,366	1.0%	310.3	1,413	1.0%	317.3
Sonoma	1,484	1.1%	295.2	1,476	1.1%	295.9	1,448	1.0%	292.5	1,474	1.1%	300.1	1,446	1.0%	288.7
Stanislaus	774	0.6%	141.2	815	0.6%	147.7	851	0.6%	153.6	855	0.6%	153.8	880	0.6%	156.6
Sutter	90	0.1%	90.8	100	0.1%	99.1	110	0.1%	107.0	119	0.1%	117.6	121	0.1%	122.0
Tehama	51	0.0%	79.7	50	0.0%	77.6	46	0.0%	70.6	46	0.0%	70.5	45	0.0%	70.4
Trinity	18	0.0%	133.8	15	0.0%	112.1	16	0.0%	119.6	15	0.0%	112.9	13	0.0%	98.6
Tulare	444	0.3%	94.3	475	0.3%	100.2	496	0.4%	103.8	517	0.4%	107.5	543	0.4%	112.7
Tuolumne	47	0.0%	88.9	50	0.0%	94.6	54	0.0%	102.7	61	0.0%	116.5	56	0.0%	108.3
Ventura	1,132	0.8%	133.4	1,143	0.8%	134.8	1,165	0.8%	138.0	1,213	0.9%	144.2	1,265	0.9%	148.8
Yolo	286	0.2%	130.8	302	0.2%	136.9	321	0.2%	145.4	325	0.2%	146.6	332	0.2%	147.0
Yuba	92	0.1%	120.4	90	0.1%	116.7	91	0.1%	116.6	97	0.1%	122.6	103	0.1%	131.8
Total	135,468		343.1	136,143		343.2	137,962		347.0	139,506		350.7	141,001		352.9
Berkeley city	486	0.4%	397.3	478	0.4%	392.9	465	0.3%	383.2	483	0.3%	388.5	469	0.3%	400.4
Long Beach city	4,514	3.3%	961.5	4,330	3.2%	926.5	4,354	3.2%	941.1	4,342	3.1%	930.3	4,292	3.0%	941.1
Pasadena city	591	0.4%	414.4	611	0.4%	432.2	615	0.4%	436.0	627	0.4%	452.1	632	0.4%	465.6

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).

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Table 2d. Continuum of HIV care for persons living with diagnosed HIV infection, 2021 — California

Jurisdiction of residence (by name)	No. people living and diagnosed with HIV		In care		Virally suppressed	
	N	%	N	%	N	%
2025 National EHE Goals				95.0%		95.0%
California	141,001		102,949	73.0%	90,813	64.4%
Alameda	6,217		4,844	77.9%	4,326	69.6%
Alpine	-		-	-	-	-
Amador	180		163	90.6%	162	90.0%
Butte	260		199	76.5%	34	13.1%
Calaveras	54		37	68.5%	30	55.6%
Colusa	19		14	73.7%	7	36.8%
Contra Costa	2,816		2,224	79.0%	1,928	68.5%
Del Norte	46		36	78.3%	35	76.1%
El Dorado	233		192	82.4%	172	73.8%
Fresno	2,246		1,817	80.9%	1,567	69.8%
Glenn	20		15	75.0%	4	20.0%
Humboldt	249		198	79.5%	181	72.7%
Imperial	399		249	62.4%	221	55.4%
Inyo	21		17	81.0%	17	81.0%
Kern	2,178		1,301	59.7%	1,038	47.7%
Kings	195		125	64.1%	115	59.0%
Lake	143		120	83.9%	111	77.6%
Lassen	27		16	59.3%	14	51.9%
Los Angeles	53,060		37,154	70.0%	32,973	62.1%
Madera	244		180	73.8%	157	64.3%
Marin	805		590	73.3%	556	69.1%
Mariposa	21		19	90.5%	16	76.2%
Mendocino	182		146	80.2%	142	78.0%
Merced	404		319	79.0%	270	66.8%
Modoc	3		2	66.7%	1	33.3%
Mono	8		7	87.5%	7	87.5%
Monterey	780		558	71.5%	505	64.7%
Napa	293		235	80.2%	220	75.1%
Nevada	144		109	75.7%	98	68.1%
Orange	7,595		5,140	67.7%	4,773	62.8%
Placer	421		333	79.1%	298	70.8%
Plumas	24		18	75.0%	16	66.7%
Riverside	10,541		8,517	80.8%	7,928	75.2%
Sacramento	4,791		3,725	77.7%	3,251	67.9%
San Benito	60		45	75.0%	44	73.3%
San Bernardino	5,263		3,528	67.0%	3,080	58.5%
San Diego	14,133		9,893	70.0%	8,017	56.7%
San Francisco	11,906		9,437	79.3%	8,526	71.6%
San Joaquin	1,546		1,142	73.9%	961	62.2%
San Luis Obispo	404		253	62.6%	226	55.9%
San Mateo	1,624		1,210	74.5%	877	54.0%
Santa Barbara	628		404	64.3%	357	56.8%
Santa Clara	3,765		2,930	77.8%	2,634	70.0%
Santa Cruz	550		423	76.9%	385	70.0%
Shasta	220		173	78.6%	156	70.9%

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Table 2d. Continuum of HIV care for persons living with diagnosed HIV infection, 2021 — California (continued)

Jurisdiction of residence (by name)	No. people living and diagnosed with HIV		In care		Virally suppressed	
	N	%	N	%	N	%
2025 National EHE Goals				95.0%		95.0%
Sierra	-	-	-	-	-	-
Siskiyou	61	46	75.4%	41	67.2%	
Solano	1,413	1,049	74.2%	936	66.2%	
Sonoma	1,446	1,248	86.3%	1,187	82.1%	
Stanislaus	880	687	78.1%	616	70.0%	
Sutter	121	87	71.9%	44	36.4%	
Tehama	45	36	80.0%	16	35.6%	
Trinity	13	11	84.6%	10	76.9%	
Tulare	543	399	73.5%	336	61.9%	
Tuolumne	56	42	75.0%	37	66.1%	
Ventura	1,265	938	74.2%	862	68.1%	
Yolo	332	267	80.4%	243	73.2%	
Yuba	103	77	74.8%	44	42.7%	
Berkeley	469	368	78.5%	339	72.3%	
Long Beach	4,292	3,075	71.6%	2,817	65.6%	
Pasadena	632	478	75.6%	429	67.9%	

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. Some 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, 2017–2021 — California

Characteristic	2017			2018			2019			2020			2021			
	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	1	0.0%	0.1	0	0.0%	0.0
	15 to 17	1	0.1%	0.1	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
	18 to 19	1	0.1%	0.1	1	0.1%	0.1	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
	20 to 24	10	0.5%	0.3	8	0.4%	0.3	12	0.7%	0.4	11	0.5%	0.4	6	0.3%	0.2
	25 to 29	47	2.6%	1.8	29	1.6%	1.1	44	2.4%	1.7	34	1.6%	1.3	52	2.3%	1.9
	30 to 34	64	3.5%	2.4	73	4.0%	2.8	61	3.3%	2.4	74	3.6%	3.0	108	4.9%	4.4
	35 to 39	95	5.2%	3.6	81	4.4%	3.0	101	5.5%	3.7	89	4.3%	3.3	128	5.8%	4.8
	40 to 44	91	4.9%	3.6	98	5.3%	3.9	107	5.8%	4.3	106	5.1%	4.2	133	6.0%	5.1
	45 to 49	181	9.8%	6.9	152	8.3%	5.8	123	6.7%	4.8	157	7.6%	6.2	147	6.6%	5.9
	50 to 54	289	15.7%	11.2	266	14.5%	10.4	236	12.9%	9.3	248	12.0%	9.8	229	10.3%	9.0
	55 to 59	349	19.0%	13.7	293	15.9%	11.4	328	17.9%	12.8	367	17.8%	14.5	394	17.7%	15.8
	60 to 64	274	14.9%	12.0	306	16.6%	13.2	313	17.1%	13.3	347	16.8%	14.6	350	15.7%	14.5
	65 to 74	297	16.1%	9.0	372	20.2%	10.9	342	18.6%	9.7	430	20.8%	11.7	471	21.2%	12.4
	≥ 75	141	7.7%	6.0	159	8.7%	6.5	167	9.1%	6.6	199	9.6%	7.6	206	9.3%	7.5
Race/ethnicity	Latinx	514	27.9%	3.3	514	28.0%	3.3	508	27.7%	3.3	610	29.6%	3.9	685	30.8%	4.3
	American Indian/Alaska Native	4	0.2%	2.3	3	0.2%	1.7	2	0.1%	1.2	1	0.0%	0.6	7	0.3%	4.0
	Asian	28	1.5%	0.5	36	2.0%	0.7	32	1.7%	0.6	39	1.9%	0.7	42	1.9%	0.8
	Black/African American	364	19.8%	16.1	378	20.6%	16.7	360	19.6%	15.8	419	20.3%	18.3	445	20.0%	19.4
	Native Hawaiian/Other Pacific Islander	0	0.0%	0.0	4	0.2%	2.8	2	0.1%	1.4	2	0.1%	1.4	2	0.1%	1.4
	White	811	44.1%	5.3	784	42.7%	5.1	827	45.1%	5.4	861	41.7%	5.7	882	39.7%	5.8
	Multiple races	119	6.5%	11.3	119	6.5%	11.1	103	5.6%	9.5	131	6.3%	11.9	161	7.2%	14.5
Gender	Cisgender men	1,606	87.3%	8.2	1,581	86.0%	8.0	1,578	86.0%	8.0	1,785	86.5%	9.0	1,890	85.0%	9.5
	Cisgender women	211	11.5%	1.1	235	12.8%	1.2	236	12.9%	1.2	248	12.0%	1.2	290	13.0%	1.4
	Trans women	22	1.2%	-	20	1.1%	-	20	1.1%	-	28	1.4%	-	44	2.0%	-
	Trans men	1	0.1%	-	1	0.1%	-	0	0.0%	-	2	0.1%	-	0	0.0%	-
	Alternative gender identity	0	0.0%	-	1	0.1%	-	0	0.0%	-	0	0.0%	-	0	0.0%	-
Total	1,840		4.7	1,838		4.6	1,834		4.6	2,063		5.2	2,224		5.6	

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, 2017–2021 — California

Demographic group	Transmission category	2017	%	2018	%	2019	%	2020	%	2021	%
Cisgender men (age ≥12 at death)	Male-to-male sexual contact (MMSC)	1,015	63.2%	1,008	63.8%	1,039	65.8%	1,127	63.1%	1,190	63.0%
	Injection drug use (IDU)	148	9.2%	149	9.4%	131	8.3%	143	8.0%	183	9.7%
	MMSC and IDU	232	14.4%	226	14.3%	204	12.9%	258	14.5%	252	13.3%
	High-risk heterosexual contact	62	3.9%	46	2.9%	57	3.6%	73	4.1%	73	3.9%
	Heterosexual contact (non-high-risk)	59	3.7%	68	4.3%	56	3.5%	84	4.7%	78	4.1%
	Perinatal/Unknown risk/Other	90	5.6%	84	5.3%	91	5.8%	100	5.6%	114	6.0%
	Subtotal	1,606	87.3%	1,581	86.0%	1,578	86.0%	1,785	86.5%	1,890	85.0%
Cisgender women (age ≥12 at death)	Injection drug use (IDU)	80	37.9%	88	37.4%	90	38.1%	81	32.7%	89	30.7%
	High-risk heterosexual contact	70	33.2%	88	37.4%	94	39.8%	92	37.1%	118	40.7%
	Heterosexual contact (non-high-risk)	43	20.4%	43	18.3%	36	15.3%	51	20.6%	58	20.0%
	Perinatal/Unknown risk/Other	18	8.5%	16	6.8%	16	6.8%	24	9.7%	25	8.6%
	Subtotal	211	11.5%	235	12.8%	236	12.9%	248	12.0%	290	13.0%
Trans women (age ≥12 at death)	Sexual contact	22	100.0%	20	100.0%	19	95.0%	27	96.4%	43	97.7%
	Injection drug use (IDU)	0	0.0%	0	0.0%	1	5.0%	1	3.6%	0	0.0%
	Perinatal/Unknown risk/Other	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	2.3%
	Subtotal	22	1.2%	20	1.1%	20	1.1%	28	1.4%	44	2.0%
Trans men (age ≥12 at death)	Sexual contact	0	0.0%	0	0.0%	0	0.0%	1	50.0%	0	0.0%
	Injection drug use (IDU)	1	100.0%	1	100.0%	0	0.0%	1	50.0%	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%	1	0.1%	0	0.0%	2	0.1%	0	0.0%
Alternative gender (age ≥12 at death)	Sexual contact	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Injection drug use (IDU)	0	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%
	Subtotal	0	0.0%	1	0.1%	0	0.0%	0	0.0%	0	0.0%
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	0.0%
	Total	1,840		1,838		1,834		2,063		2,224	

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, 2017–2021 — California

County of residence at death	2017			2018			2019			2020			2021		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	77	4.2%	4.7	78	4.2%	4.7	77	4.2%	4.6	101	4.9%	6.0	96	4.3%	5.7
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	2	0.1%	5.4	1	0.1%	2.6	1	0.1%	2.7	0	0.0%	0.0	2	0.1%	5.3
Butte	8	0.4%	3.5	6	0.3%	2.6	9	0.5%	4.2	8	0.4%	3.9	8	0.4%	3.5
Calaveras	1	0.1%	2.2	2	0.1%	4.5	3	0.2%	6.8	1	0.0%	2.3	0	0.0%	0.0
Colusa	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	4.5	0	0.0%	0.0	0	0.0%	0.0
Contra Costa	34	1.8%	3.0	38	2.1%	3.3	45	2.5%	3.9	28	1.4%	2.4	44	2.0%	3.8
Del Norte	1	0.1%	3.8	1	0.1%	3.7	0	0.0%	0.0	1	0.0%	3.7	1	0.0%	3.7
El Dorado	3	0.2%	1.6	2	0.1%	1.1	2	0.1%	1.1	5	0.2%	2.6	2	0.1%	1.1
Fresno	47	2.6%	4.7	31	1.7%	3.1	31	1.7%	3.0	41	2.0%	4.0	66	3.0%	6.5
Glenn	1	0.1%	3.5	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Humboldt	7	0.4%	5.2	9	0.5%	6.7	3	0.2%	2.2	7	0.3%	5.3	6	0.3%	4.5
Imperial	3	0.2%	1.6	9	0.5%	4.8	3	0.2%	1.6	4	0.2%	2.1	5	0.2%	2.6
Inyo	2	0.1%	10.8	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	5.5
Kern	27	1.5%	3.0	44	2.4%	4.9	36	2.0%	4.0	38	1.8%	4.2	43	1.9%	4.7
Kings	3	0.2%	2.0	1	0.1%	0.7	2	0.1%	1.3	2	0.1%	1.3	8	0.4%	5.2
Lake	4	0.2%	6.2	7	0.4%	10.8	6	0.3%	9.4	3	0.1%	4.7	4	0.2%	6.2
Lassen	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	3.5	2	0.1%	6.9	0	0.0%	0.0
Los Angeles	642	34.9%	6.3	624	33.9%	6.1	578	31.5%	5.7	778	37.7%	7.6	784	35.3%	7.7
Madera	1	0.1%	0.6	4	0.2%	2.5	3	0.2%	1.9	3	0.1%	1.9	7	0.3%	4.3
Marin	12	0.7%	4.6	6	0.3%	2.3	9	0.5%	3.4	12	0.6%	4.6	11	0.5%	4.3
Mariposa	1	0.1%	5.6	1	0.1%	5.6	0	0.0%	0.0	2	0.1%	11.2	0	0.0%	0.0
Mendocino	4	0.2%	4.5	3	0.2%	3.4	2	0.1%	2.3	2	0.1%	2.3	6	0.3%	6.8
Merced	5	0.3%	1.8	7	0.4%	2.5	13	0.7%	4.6	7	0.3%	2.5	6	0.3%	2.1
Modoc	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	10.6	0	0.0%	0.0	0	0.0%	0.0
Mono	1	0.1%	7.3	1	0.1%	7.4	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	7.2
Monterey	11	0.6%	2.5	8	0.4%	1.8	13	0.7%	2.9	13	0.6%	2.9	13	0.6%	2.9
Napa	1	0.1%	0.7	0	0.0%	0.0	5	0.3%	3.6	1	0.0%	0.7	4	0.2%	2.9
Nevada	3	0.2%	3.1	3	0.2%	3.1	4	0.2%	4.1	2	0.1%	2.1	3	0.1%	3.1
Orange	88	4.8%	2.8	98	5.3%	3.1	88	4.8%	2.8	75	3.6%	2.4	96	4.3%	3.0
Placer	6	0.3%	1.6	6	0.3%	1.5	9	0.5%	2.3	7	0.3%	1.8	7	0.3%	1.8
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	144	7.8%	6.0	186	10.1%	7.7	182	9.9%	7.5	200	9.7%	8.2	227	10.2%	9.2
Sacramento	65	3.5%	4.3	53	2.9%	3.5	77	4.2%	5.0	67	3.2%	4.3	71	3.2%	4.6
San Benito	0	0.0%	0.0	1	0.1%	1.6	0	0.0%	0.0	1	0.0%	1.6	0	0.0%	0.0
San Bernardino	86	4.7%	4.0	64	3.5%	3.0	70	3.8%	3.2	94	4.6%	4.3	105	4.7%	4.8
San Diego	135	7.3%	4.1	150	8.2%	4.5	159	8.7%	4.8	125	6.1%	3.7	174	7.8%	5.2
San Francisco	204	11.1%	23.0	195	10.6%	21.8	193	10.5%	21.5	222	10.8%	24.7	201	9.0%	22.5
San Joaquin	38	2.1%	5.1	25	1.4%	3.3	35	1.9%	4.6	30	1.5%	3.9	37	1.7%	4.8
San Luis Obispo	11	0.6%	4.0	4	0.2%	1.4	3	0.2%	1.1	4	0.2%	1.4	6	0.3%	2.2
San Mateo	8	0.4%	1.0	20	1.1%	2.6	19	1.0%	2.4	14	0.7%	1.8	18	0.8%	2.3
Santa Barbara	10	0.5%	2.2	8	0.4%	1.8	8	0.4%	1.8	11	0.5%	2.4	7	0.3%	1.5
Santa Clara	27	1.5%	1.4	35	1.9%	1.8	27	1.5%	1.4	38	1.8%	1.9	30	1.3%	1.5
Santa Cruz	5	0.3%	1.8	7	0.4%	2.6	4	0.2%	1.5	7	0.3%	2.6	4	0.2%	1.5
Shasta	2	0.1%	1.1	6	0.3%	3.4	7	0.4%	3.9	7	0.3%	3.9	3	0.1%	1.7
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	0	0.0%	0.0	2	0.1%	4.5	0	0.0%	0.0	0	0.0%	0.0	7	0.3%	16.2
Solano	27	1.5%	6.2	13	0.7%	3.0	18	1.0%	4.1	12	0.6%	2.7	21	0.9%	4.7
Sonoma	36	2.0%	7.2	21	1.1%	4.2	29	1.6%	5.9	27	1.3%	5.5	25	1.1%	5.0
Stanislaus	9	0.5%	1.6	11	0.6%	2.0	19	1.0%	3.4	18	0.9%	3.2	18	0.8%	3.2
Sutter	2	0.1%	2.0	2	0.1%	2.0	1	0.1%	1.0	3	0.1%	3.0	1	0.0%	1.0
Tehama	0	0.0%	0.0	2	0.1%	3.1	4	0.2%	6.1	2	0.1%	3.1	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	1	0.0%	7.6
Tulare	12	0.7%	2.5	11	0.6%	2.3	10	0.5%	2.1	14	0.7%	2.9	9	0.4%	1.9
Tuolumne	3	0.2%	5.7	0	0.0%	0.0	1	0.1%	1.9	0	0.0%	0.0	1	0.0%	1.9
Ventura	15	0.8%	1.8	17	0.9%	2.0	18	1.0%	2.1	21	1.0%	2.5	23	1.0%	2.7
Yolo	4	0.2%	1.8	10	0.5%	4.5	4	0.2%	1.8	1	0.0%	0.5	5	0.2%	2.2
Yuba	2	0.1%	2.6	5	0.3%	6.5	1	0.1%	1.3	2	0.1%	2.5	4	0.2%	5.1
Total	1,840		4.7	1,838		4.6	1,834		4.6	2,063		5.2	2,224		5.6
Berkeley city	8	0.4%	6.5	7	0.4%	5.8	4	0.2%	3.3	8	0.4%	6.4	4	0.2%	3.4
Long Beach city	66	3.6%	14.1	69	3.8%	14.8	44	2.4%	9.5	55	2.7%	11.8	62	2.8%	13.6
Pasadena city	4	0.2%	2.8	10	0.5%	7.1	4	0.2%	2.8	2	0.1%	1.4	14	0.6%	10.3

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).