



California HIV Surveillance Report — 2022

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 2018–2022
- Number and rate of all persons living with diagnosed HIV infection during 2018–2022
- Number and rate of deaths among persons with diagnosed HIV infection during 2018–2022

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 2018 through 2022, both the annual number and rate of new HIV diagnoses remained relatively the same in California. The number of new diagnoses increased by 0.4% — from 4,863 in 2018 to 4,882 in 2022, while the rate of new diagnoses per 100,000 population declined by 0.8%, from 12.3 to 12.2 during the same time period.
- From 2018 through 2022, the number of persons in California living with diagnosed HIV infection increased from approximately 136,100 to over 142,700. In 2022, the prevalence rate of diagnosed HIV infection was 355.6 per 100,000 population, compared to 343.1 in 2018— an increase of 3.7%.
- Of the 142,772 people living with diagnosed HIV infection in 2022, 73.7% were in HIV care and 64.7% 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 2018 through 2022, the annual number of deaths of persons with diagnosed HIV infection in California increased from 1,824 to 2,169. In 2022, the crude death rate of persons with diagnosed HIV infection was 5.4 per 100,000 population — a 17.5% increase since 2018. Data on deaths of persons with diagnosed HIV infection represent all causes of death, and may or may not be related to HIV infection.

Suggested citation: [California Department of Public Health, Office of AIDS, California HIV Surveillance Report — 2022](#).

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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, 2023, 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, 2023. 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 5-Year Estimates (V2022) for 2022, American Community Survey 1-Year Estimates for 2018, 2019 and 2021, Table DP05, and Decennial Census for 2020, Table P1. Retrieved January 30, 2024. 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.

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Table 1a. Persons newly diagnosed with HIV infection, by year of diagnosis and selected demographic characteristics, 2018–2022 — California

Characteristic	2018			2019			2020			2021			2022			
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	
Age at diagnosis (in years)	0 to11	6	0.1%	0.1	6	0.1%	0.1	6	0.1%	0.1	6	0.1%	0.1	5	0.1%	0.1
	12 to 14	2	0.0%	0.1	2	0.0%	0.1	1	0.0%	0.1	3	0.1%	0.2	3	0.1%	0.2
	15 to 17	33	0.7%	2.1	29	0.6%	1.8	34	0.8%	2.1	35	0.8%	2.2	35	0.7%	2.2
	18 to 19	142	2.9%	12.1	113	2.4%	9.6	82	2.0%	7.1	122	2.7%	10.5	91	1.9%	7.8
	20 to 24	782	16.1%	26.1	679	14.7%	22.9	576	13.9%	19.5	589	12.9%	20.1	632	12.9%	21.6
	25 to 29	1,004	20.6%	38.6	934	20.2%	35.2	884	21.4%	32.9	862	18.9%	31.7	980	20.1%	36.1
	30 to 34	804	16.5%	31.0	781	16.9%	30.9	747	18.1%	30.2	832	18.2%	33.5	872	17.9%	34.6
	35 to 39	577	11.9%	21.2	605	13.1%	22.1	488	11.8%	18.0	639	14.0%	23.9	679	13.9%	25.9
	40 to 44	391	8.0%	15.6	403	8.7%	16.0	370	9.0%	14.6	415	9.1%	16.1	499	10.2%	19.0
	45 to 49	384	7.9%	14.6	337	7.3%	13.1	300	7.3%	11.9	307	6.7%	12.4	349	7.1%	14.2
	50 to 54	273	5.6%	10.7	298	6.4%	11.8	252	6.1%	10.0	285	6.2%	11.2	240	4.9%	9.4
	55 to 59	218	4.5%	8.5	228	4.9%	8.9	182	4.4%	7.2	238	5.2%	9.5	262	5.4%	10.6
	60 to 64	123	2.5%	5.3	125	2.7%	5.3	124	3.0%	5.2	140	3.1%	5.8	132	2.7%	5.4
65 to 74	107	2.2%	3.1	78	1.7%	2.2	74	1.8%	2.0	89	1.9%	2.3	83	1.7%	2.1	
≥ 75	17	0.3%	0.7	14	0.3%	0.6	13	0.3%	0.5	10	0.2%	0.4	20	0.4%	0.7	
Race/ethnicity	Latinx	2,382	49.0%	15.3	2,346	50.6%	15.0	2,120	51.3%	13.5	2,398	52.4%	15.2	2,767	56.7%	17.4
	American Indian/Alaska Native	12	0.2%	7.0	16	0.3%	9.3	8	0.2%	4.6	20	0.4%	11.5	21	0.4%	12.0
	Asian	280	5.8%	5.4	251	5.4%	4.8	213	5.2%	4.1	235	5.1%	4.5	249	5.1%	4.8
	Black/African American	813	16.7%	35.8	766	16.5%	33.6	682	16.5%	29.9	781	17.1%	34.0	717	14.7%	31.0
	Native Hawaiian/Other Pacific Islander	17	0.3%	11.9	12	0.3%	8.4	11	0.3%	7.7	17	0.4%	11.8	17	0.3%	11.8
	White	1,168	24.0%	7.7	1,088	23.5%	7.1	966	23.4%	6.4	1,014	22.2%	6.7	1,013	20.7%	6.7
	Multiple races	191	3.9%	17.9	153	3.3%	14.1	133	3.2%	12.1	107	2.3%	9.6	98	2.0%	8.7
Gender	Cisgender men	4,177	85.9%	21.1	3,945	85.2%	19.9	3,483	84.3%	17.5	3,850	84.2%	19.3	4,075	83.5%	20.3
	Cisgender women	573	11.8%	2.9	549	11.9%	2.8	512	12.4%	2.6	563	12.3%	2.8	637	13.0%	3.2
	Trans women	99	2.0%	-	128	2.8%	-	131	3.2%	-	144	3.1%	-	156	3.2%	-
	Trans men	13	0.3%	-	9	0.2%	-	5	0.1%	-	10	0.2%	-	3	0.1%	-
	Alternative gender identity	1	0.0%	-	1	0.0%	-	2	0.0%	-	5	0.0%	-	11	0.2%	-
Total	4,863		12.3	4,632		11.6	4,133		10.4	4,572		11.4	4,882		12.2	

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.

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Table 1b. Persons newly diagnosed with HIV infection, by year of diagnosis and transmission category, 2018–2022 — California

Demographic group	Transmission category	2018	%	2019	%	2020	%	2021	%	2022	%
Cisgender men (age ≥12 at diagnosis)	Male-to-male sexual contact (MMSC)	3,095	74.1%	2,827	71.7%	2,381	68.4%	2,603	67.7%	2,663	65.4%
	Injection drug use (IDU)	163	3.9%	144	3.7%	126	3.6%	157	4.1%	151	3.7%
	MMSC and IDU	193	4.6%	186	4.7%	137	3.9%	153	4.0%	160	3.9%
	High-risk heterosexual contact	114	2.7%	77	2.0%	69	2.0%	82	2.1%	67	1.6%
	Heterosexual contact (non-high-risk)	337	8.1%	334	8.5%	323	9.3%	388	10.1%	422	10.4%
	Perinatal/Unknown risk/Other	272	6.5%	373	9.5%	443	12.7%	464	12.1%	608	14.9%
	Subtotal		4,174	85.8%	3,941	85.1%	3,479	84.2%	3,847	84.1%	4,071
Cisgender women (age ≥12 at diagnosis)	Injection drug use (IDU)	76	13.3%	77	14.1%	73	14.3%	82	14.6%	82	12.9%
	High-risk heterosexual contact	184	32.3%	156	28.5%	122	23.9%	126	22.5%	134	21.1%
	Heterosexual contact (non-high-risk)	258	45.3%	252	46.1%	237	46.5%	279	49.8%	333	52.4%
	Perinatal/Unknown risk/Other	52	9.1%	62	11.3%	78	15.3%	73	13.0%	87	13.7%
Subtotal		570	11.7%	547	11.8%	510	12.3%	560	12.2%	636	13.0%
Trans women (age ≥12 at diagnosis)	Sexual contact	96	97.0%	124	96.9%	128	97.7%	135	93.8%	152	97.4%
	Injection drug use (IDU)	2	2.0%	1	0.8%	0	0.0%	3	2.1%	1	0.6%
	Perinatal/Unknown risk/Other	1	1.0%	3	2.3%	3	2.3%	6	4.2%	3	1.9%
Subtotal		99	2.0%	128	2.8%	131	3.2%	144	3.1%	156	3.2%
Trans men (age ≥12 at diagnosis)	Sexual contact	8	61.5%	8	88.9%	3	60.0%	9	90.0%	3	100.0%
	Injection drug use (IDU)	3	23.1%	1	11.1%	2	40.0%	0	0.0%	0	0.0%
	Perinatal/Unknown risk/Other	2	15.4%	0	0.0%	0	0.0%	1	10.0%	0	0.0%
Subtotal		13	0.3%	9	0.2%	5	0.1%	10	0.2%	3	0.1%
Alternative gender (age ≥12 at diagnosis)	Sexual contact	1	100.0%	1	100.0%	1	50.0%	4	80.0%	11	100.0%
	Perinatal/Unknown risk/Other	0	0.0%	0	0.0%	1	50.0%	1	20.0%	0	0.0%
Subtotal		1	0.0%	1	0.0%	2	0.0%	5	0.1%	11	0.2%
Child (age <12 at diagnosis)	Perinatal	5	83.3%	6	100.0%	6	100.0%	6	100.0%	5	100.0%
	Unknown risk	1	16.7%	0	0.0%	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		6	0.1%	6	0.1%	6	0.1%	6	0.1%	5	0.1%
Total		4,863		4,632		4,133		4,572		4,882	

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, 2018–2022 — California

County of residence at diagnosis	2018			2019			2020			2021			2022		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	205	4.2%	12.3	224	4.8%	13.4	163	3.9%	9.7	192	4.2%	11.4	208	4.3%	12.3
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	3	0.1%	7.9	0	0.0%	0.0	1	0.0%	2.7	0	0.0%	0.0	1	0.0%	2.6
Butte	10	0.2%	4.4	10	0.2%	4.7	12	0.3%	5.8	12	0.3%	5.3	16	0.3%	7.0
Calaveras	2	0.0%	4.5	2	0.0%	4.5	1	0.0%	2.3	1	0.0%	2.3	0	0.0%	0.0
Colusa	2	0.0%	9.1	5	0.1%	22.7	1	0.0%	4.5	3	0.1%	13.2	1	0.0%	4.4
Contra Costa	113	2.3%	9.9	99	2.1%	8.6	74	1.8%	6.4	109	2.4%	9.4	121	2.5%	10.4
Del Norte	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	3.7	2	0.0%	7.5
El Dorado	5	0.1%	2.7	6	0.1%	3.2	6	0.1%	3.1	8	0.2%	4.2	6	0.1%	3.2
Fresno	110	2.3%	10.9	116	2.5%	11.4	129	3.1%	12.6	151	3.3%	14.8	171	3.5%	16.6
Glenn	1	0.0%	3.5	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Humboldt	15	0.3%	11.1	6	0.1%	4.5	4	0.1%	3.0	8	0.2%	6.0	10	0.2%	7.5
Imperial	34	0.7%	18.1	32	0.7%	16.9	26	0.6%	13.8	22	0.5%	11.5	16	0.3%	8.3
Inyo	1	0.0%	5.4	0	0.0%	0.0	1	0.0%	5.4	1	0.0%	5.5	0	0.0%	0.0
Kern	155	3.2%	17.2	181	3.9%	19.9	166	4.0%	18.2	184	4.0%	20.0	203	4.2%	21.8
Kings	10	0.2%	6.6	9	0.2%	5.9	8	0.2%	5.2	10	0.2%	6.4	11	0.2%	7.0
Lake	4	0.1%	6.2	4	0.1%	6.2	3	0.1%	4.7	1	0.0%	1.6	4	0.1%	6.2
Lassen	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	3.3	2	0.0%	6.7
Los Angeles	1766	36.3%	17.3	1619	35.0%	15.9	1453	35.2%	14.3	1542	33.7%	15.1	1619	33.2%	15.9
Madera	15	0.3%	9.5	7	0.2%	4.4	9	0.2%	5.7	13	0.3%	8.1	17	0.3%	10.4
Marin	21	0.4%	8.0	13	0.3%	5.0	14	0.3%	5.4	11	0.2%	4.3	18	0.4%	7.0
Mariposa	2	0.0%	11.2	0	0.0%	0.0	1	0.0%	5.6	0	0.0%	0.0	0	0.0%	0.0
Mendocino	5	0.1%	5.7	4	0.1%	4.5	5	0.1%	5.7	4	0.1%	4.5	3	0.1%	3.4
Merced	28	0.6%	10.1	27	0.6%	9.6	31	0.8%	10.9	39	0.9%	13.6	24	0.5%	8.3
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	0	0.0%	0.0	0	0.0%	0.0	2	0.0%	14.4
Monterey	43	0.9%	9.7	29	0.6%	6.5	28	0.7%	6.3	37	0.8%	8.3	25	0.5%	5.6
Napa	7	0.1%	5.0	11	0.2%	7.9	6	0.1%	4.3	11	0.2%	7.9	16	0.3%	11.5
Nevada	3	0.1%	3.1	7	0.2%	7.2	3	0.1%	3.1	4	0.1%	4.1	2	0.0%	2.0
Orange	287	5.9%	9.0	245	5.3%	7.7	265	6.4%	8.3	268	5.9%	8.4	256	5.2%	8.0
Placer	11	0.2%	2.8	13	0.3%	3.3	17	0.4%	4.3	14	0.3%	3.5	9	0.2%	2.2
Plumas	0	0.0%	0.0	1	0.0%	5.4	1	0.0%	5.5	1	0.0%	5.2	0	0.0%	0.0
Riverside	264	5.4%	11.0	271	5.9%	11.2	241	5.8%	9.8	272	5.9%	11.0	323	6.6%	12.9
Sacramento	182	3.7%	11.9	168	3.6%	10.8	157	3.8%	10.0	184	4.0%	11.8	192	3.9%	12.2
San Benito	3	0.1%	4.9	2	0.0%	3.2	5	0.1%	8.0	2	0.0%	3.2	1	0.0%	1.6
San Bernardino	269	5.5%	12.4	304	6.6%	14.0	266	6.4%	12.2	304	6.6%	13.8	291	6.0%	13.1
San Diego	399	8.2%	12.0	419	9.0%	12.5	338	8.2%	10.1	399	8.7%	11.9	406	8.3%	12.1
San Francisco	240	4.9%	26.9	210	4.5%	23.4	157	3.8%	17.4	190	4.2%	21.3	216	4.4%	24.1
San Joaquin	69	1.4%	9.1	75	1.6%	9.8	88	2.1%	11.3	101	2.2%	13.0	101	2.1%	12.9
San Luis Obispo	15	0.3%	5.4	15	0.3%	5.4	11	0.3%	4.0	10	0.2%	3.6	12	0.2%	4.3
San Mateo	61	1.3%	7.9	54	1.2%	7.0	47	1.1%	6.1	49	1.1%	6.3	64	1.3%	8.2
Santa Barbara	31	0.6%	6.9	38	0.8%	8.4	25	0.6%	5.5	27	0.6%	6.0	32	0.7%	7.0
Santa Clara	167	3.4%	8.5	165	3.6%	8.4	116	2.8%	5.9	129	2.8%	6.5	161	3.3%	8.1
Santa Cruz	13	0.3%	4.8	14	0.3%	5.1	16	0.4%	5.9	20	0.4%	7.3	21	0.4%	7.6
Shasta	7	0.1%	3.9	7	0.2%	3.9	3	0.1%	1.7	2	0.0%	1.1	2	0.0%	1.1
Sierra	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	32.3	0	0.0%	0.0
Siskiyou	3	0.1%	6.8	0	0.0%	0.0	4	0.1%	9.1	0	0.0%	0.0	2	0.0%	4.6
Solano	46	0.9%	10.5	41	0.9%	9.3	52	1.3%	11.8	43	0.9%	9.7	70	1.4%	15.6
Sonoma	33	0.7%	6.6	24	0.5%	4.8	37	0.9%	7.5	30	0.7%	6.0	42	0.9%	8.4
Stanislaus	60	1.2%	10.9	40	0.9%	7.2	28	0.7%	5.0	47	1.0%	8.4	57	1.2%	10.1
Sutter	9	0.2%	8.9	8	0.2%	7.8	8	0.2%	7.9	4	0.1%	4.0	3	0.1%	3.0
Tehama	4	0.1%	6.2	0	0.0%	0.0	2	0.0%	3.1	4	0.1%	6.3	4	0.1%	6.2
Trinity	0	0.0%	0.0	1	0.0%	7.5	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	7.6
Tulare	50	1.0%	10.6	33	0.7%	6.9	32	0.8%	6.7	39	0.9%	8.1	45	0.9%	9.3
Tuolumne	1	0.0%	1.9	1	0.0%	1.9	0	0.0%	0.0	2	0.0%	3.9	3	0.1%	5.8
Ventura	54	1.1%	6.4	47	1.0%	5.6	59	1.4%	7.0	49	1.1%	5.8	55	1.1%	6.5
Yolo	21	0.4%	9.5	21	0.5%	9.5	10	0.2%	4.5	13	0.3%	5.8	13	0.3%	5.7
Yuba	4	0.1%	5.2	4	0.1%	5.1	3	0.1%	3.8	3	0.1%	3.8	2	0.0%	2.5
Total	4,863		12.3	4,632		11.6	4,133		10.4	4,572		11.4	4,882		12.2
Berkeley city	9	0.2%	7.4	8	0.2%	6.6	10	0.2%	8.0	9	0.2%	7.7	6	0.1%	5.0
Long Beach city	107	2.2%	22.9	109	2.4%	23.6	96	2.3%	20.6	94	2.1%	20.6	88	1.8%	19.5
Pasadena city	20	0.4%	14.1	17	0.4%	12.1	16	0.4%	11.5	12	0.3%	8.8	10	0.2%	7.5

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 2a. Persons living with diagnosed HIV infection, by year and selected demographic characteristics, 2018–2022 — California

Characteristic	2018			2019			2020			2021			2022			
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	
Age at year end (years)	0 to11	107	0.1%	1.8	92	0.1%	1.5	80	0.1%	1.4	76	0.1%	1.3	66	0.0%	1.2
	12 to 14	64	0.0%	4.1	57	0.0%	3.6	55	0.0%	3.5	49	0.0%	3.1	44	0.0%	2.9
	15 to 17	104	0.1%	6.6	116	0.1%	7.3	113	0.1%	7.1	110	0.1%	6.8	84	0.1%	5.2
	18 to 19	244	0.2%	20.8	223	0.2%	19.0	190	0.1%	16.4	218	0.2%	18.8	215	0.2%	18.4
	20 to 24	3,005	2.2%	100.2	2,813	2.0%	94.7	2,572	1.8%	87.2	2,395	1.7%	81.7	2,301	1.6%	78.7
	25 to 29	8,145	6.0%	312.9	8,039	5.8%	302.7	7,867	5.6%	293.0	7,535	5.3%	277.2	7,283	5.1%	268.2
	30 to 34	11,301	8.3%	435.5	11,738	8.5%	464.4	11,855	8.5%	478.6	12,108	8.6%	488.2	12,336	8.6%	489.5
	35 to 39	12,464	9.2%	458.4	12,596	9.1%	459.5	12,929	9.3%	476.5	13,303	9.4%	497.6	13,659	9.6%	522.0
	40 to 44	12,664	9.3%	504.4	12,868	9.3%	511.4	13,161	9.4%	518.2	13,493	9.6%	522.4	13,767	9.6%	523.0
	45 to 49	16,519	12.1%	629.8	15,468	11.2%	599.2	14,317	10.3%	568.0	13,676	9.7%	551.9	13,507	9.5%	548.3
	50 to 54	21,711	16.0%	852.2	20,533	14.9%	813.3	19,624	14.1%	775.9	18,713	13.3%	734.1	17,587	12.3%	689.1
	55 to 59	21,194	15.6%	825.8	22,065	16.0%	860.4	22,399	16.1%	884.8	21,949	15.6%	880.0	21,364	15.0%	867.9
	60 to 64	14,041	10.3%	603.9	15,032	10.9%	638.4	16,186	11.6%	679.4	17,315	12.3%	718.8	18,341	12.8%	757.1
	65 to 74	12,157	8.9%	355.9	13,514	9.8%	382.0	14,938	10.7%	407.8	16,441	11.7%	433.7	17,986	12.6%	463.9
≥ 75	2,380	1.7%	98.0	2,732	2.0%	108.1	3,152	2.3%	120.1	3,586	2.5%	131.0	4,232	3.0%	146.1	
Race/ethnicity	Latinx	51,359	37.7%	330.4	53,043	38.5%	339.4	54,505	39.1%	347.6	56,097	39.8%	355.1	58,067	40.7%	364.8
	American Indian/Alaska Native	272	0.2%	158.0	282	0.2%	163.4	283	0.2%	163.6	293	0.2%	168.3	309	0.2%	176.3
	Asian	5,483	4.0%	105.0	5,708	4.1%	109.3	5,896	4.2%	113.0	6,073	4.3%	116.3	6,291	4.4%	120.1
	Black/African American	22,498	16.5%	992.0	22,776	16.5%	999.8	22,954	16.5%	1,005.2	23,241	16.5%	1,012.4	23,393	16.4%	1,012.3
	Islander	218	0.2%	152.3	225	0.2%	156.8	237	0.2%	165.2	254	0.2%	176.6	272	0.2%	188.4
	White	50,302	37.0%	329.9	49,858	36.2%	327.4	49,582	35.6%	326.5	49,102	34.8%	322.9	48,656	34.1%	319.5
	Multiple races	5,964	4.4%	558.3	5,990	4.3%	552.9	5,977	4.3%	544.8	5,903	4.2%	529.9	5,780	4.0%	510.4
	Unknown race	4	0.0%	-	4	0.0%	-	4	0.0%	-	4	0.0%	-	4	0.0%	-
Gender	Cisgender men	117,863	86.6%	595.3	119,298	86.5%	601.1	120,551	86.5%	607.3	121,746	86.4%	610.6	123,109	86.2%	614.3
	Cisgender women	15,920	11.7%	80.1	16,144	11.7%	81.1	16,347	11.7%	82.0	16,558	11.7%	82.7	16,864	11.8%	83.9
	Trans women	2,245	1.6%	-	2,364	1.7%	-	2,457	1.8%	-	2,563	1.8%	-	2,685	1.9%	-
	Trans men	69	0.1%	-	76	0.1%	-	78	0.1%	-	87	0.1%	-	90	0.1%	-
	Alternative gender identity	3	0.0%	-	4	0.0%	-	5	0.0%	-	13	0.0%	-	24	0.0%	-
Total	136,100		343.1	137,886		346.8	139,438		350.5	140,967		352.8	142,772		355.6	

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.

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Table 2b. Persons living with diagnosed HIV infection, by year and transmission category, 2018–2022 — California

Demographic group	Transmission category	2018	%	2019	%	2020	%	2021	%	2022	%
Cisgender men (age ≥12 at year end)	Male-to-male sexual contact (MMSC)	91,119	77.3%	92,141	77.3%	93,032	77.2%	93,842	77.1%	94,628	76.9%
	Injection drug use (IDU)	5,033	4.3%	4,990	4.2%	4,966	4.1%	4,900	4.0%	4,855	3.9%
	MMSC and IDU	9,234	7.8%	9,115	7.6%	8,928	7.4%	8,749	7.2%	8,545	6.9%
	High-risk heterosexual contact	3,613	3.1%	3,620	3.0%	3,600	3.0%	3,592	3.0%	3,600	2.9%
	Heterosexual contact (non-high-risk)	4,234	3.6%	4,521	3.8%	4,751	3.9%	5,049	4.1%	5,363	4.4%
	Perinatal/Unknown risk/Other	4,583	3.9%	4,867	4.1%	5,233	4.3%	5,577	4.6%	6,085	4.9%
	Subtotal		117,816	86.6%	119,254	86.5%	120,510	86.4%	121,709	86.3%	123,076
Cisgender women (age ≥12 at year end)	Injection drug use (IDU)	2,742	17.3%	2,701	16.8%	2,674	16.4%	2,666	16.1%	2,640	15.7%
	High-risk heterosexual contact	8,119	51.2%	8,122	50.5%	8,114	49.8%	8,064	48.8%	8,065	47.9%
	Heterosexual contact (non-high-risk)	3,542	22.3%	3,761	23.4%	3,934	24.1%	4,157	25.2%	4,436	26.4%
	Perinatal/Unknown risk/Other	1,457	9.2%	1,512	9.4%	1,586	9.7%	1,632	9.9%	1,690	10.0%
	Subtotal		15,860	11.7%	16,096	11.7%	16,308	11.7%	16,519	11.7%	16,831
Trans women (age ≥12 at year end)	Sexual contact	2209	98.4%	2322	98.2%	2415	98.3%	2512	98.0%	2628	97.9%
	Injection drug use (IDU)	13	0.6%	13	0.5%	11	0.4%	13	0.5%	16	0.6%
	Perinatal/Unknown risk/Other	23	1.0%	29	1.2%	31	1.3%	38	1.5%	41	1.5%
	Subtotal		2,245	1.6%	2,364	1.7%	2,457	1.8%	2,563	1.8%	2,685
Trans men (age ≥12 at year end)	Sexual contact	46	66.7%	52	68.4%	53	67.9%	61	70.1%	65	72.2%
	Injection drug use (IDU)	13	18.8%	14	18.4%	15	19.2%	15	17.2%	13	14.4%
	Perinatal/Unknown risk/Other	10	14.5%	10	13.2%	10	12.8%	11	12.6%	12	13.3%
	Subtotal		69	0.1%	76	0.1%	78	0.1%	87	0.1%	90
Alternative gender (age ≥12 at year end)	Sexual contact	2	66.7%	3	75.0%	4	80.0%	10	76.9%	21	87.5%
	MMSC and IDU	1	33.3%	1	25.0%	0	0.0%	1	7.7%	1	4.2%
	Perinatal/Unknown risk/Other	0	0.0%	0	0.0%	1	20.0%	2	15.4%	2	8.3%
	Subtotal		3	0.0%	4	0.0%	5	0.0%	13	0.0%	24
Child (age <12 at year end)	Perinatal	88	82.2%	76	82.6%	67	83.8%	65	85.5%	59	89.4%
	Unknown risk	17	15.9%	14	15.2%	11	13.8%	9	11.8%	6	9.1%
	Other	2	1.9%	2	2.2%	2	2.5%	2	2.6%	1	1.5%
	Subtotal		107	0.1%	92	0.1%	80	0.1%	76	0.1%	66
Total		136,100		137,886		139,438		140,967		142,772	

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, 2018–2022 — California

County of current residence	2018			2019			2020			2021			2022		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	6,334	4.7%	381.5	6,332	4.6%	379.4	6,258	4.5%	374.3	6,231	4.4%	371.3	6,239	4.4%	369.3
Alpine	2	0.0%	176.2	2	0.0%	178.1	2	0.0%	179.4	2	0.0%	176.5	2	0.0%	175.6
Amador	213	0.2%	563.9	191	0.1%	506.3	188	0.1%	500.3	182	0.1%	479.1	186	0.1%	487.4
Butte	275	0.2%	121.4	263	0.2%	122.6	270	0.2%	130.8	263	0.2%	115.9	273	0.2%	119.9
Calaveras	46	0.0%	103.2	51	0.0%	114.9	54	0.0%	121.9	54	0.0%	122.3	59	0.0%	133.6
Colusa	17	0.0%	77.4	18	0.0%	81.7	19	0.0%	86.1	19	0.0%	83.4	22	0.0%	96.2
Contra Costa	2,749	2.0%	240.2	2,771	2.0%	241.5	2,811	2.0%	244.5	2,819	2.0%	243.1	2,868	2.0%	245.5
Del Norte	31	0.0%	114.3	35	0.0%	128.6	40	0.0%	147.1	46	0.0%	171.4	50	0.0%	186.6
El Dorado	219	0.2%	116.5	227	0.2%	120.2	222	0.2%	115.6	236	0.2%	124.8	234	0.2%	123.2
Fresno	2,033	1.5%	201.5	2,105	1.5%	206.7	2,187	1.6%	213.1	2,255	1.6%	220.7	2,375	1.7%	230.8
Glenn	24	0.0%	83.9	22	0.0%	75.7	23	0.0%	77.9	19	0.0%	65.1	20	0.0%	68.5
Humboldt	230	0.2%	170.6	235	0.2%	175.6	228	0.2%	171.8	249	0.2%	185.5	260	0.2%	193.8
Imperial	338	0.2%	179.8	361	0.3%	191.0	372	0.3%	197.8	405	0.3%	211.4	419	0.3%	217.1
Inyo	19	0.0%	102.6	20	0.0%	108.3	21	0.0%	114.0	21	0.0%	115.6	24	0.0%	132.3
Kern	1,772	1.3%	196.6	1,855	1.3%	203.9	2,008	1.4%	219.9	2,178	1.5%	236.6	2,345	1.6%	252.2
Kings	202	0.1%	132.3	206	0.1%	134.2	208	0.1%	134.4	197	0.1%	127.0	213	0.1%	136.4
Lake	151	0.1%	233.8	150	0.1%	234.1	145	0.1%	227.4	143	0.1%	222.8	148	0.1%	230.8
Lassen	29	0.0%	97.7	29	0.0%	100.1	23	0.0%	79.7	30	0.0%	100.1	32	0.0%	107.2
Los Angeles	51,832	38.1%	506.8	52,387	38.0%	513.0	52,688	37.8%	518.0	52,741	37.4%	517.2	52,563	36.8%	514.9
Madera	193	0.1%	122.5	190	0.1%	120.5	220	0.2%	138.5	245	0.2%	152.1	271	0.2%	166.5
Marin	829	0.6%	316.1	835	0.6%	320.0	815	0.6%	314.7	805	0.6%	311.8	795	0.6%	308.4
Mariposa	20	0.0%	111.7	22	0.0%	123.3	18	0.0%	101.2	21	0.0%	119.5	23	0.0%	131.0
Mendocino	175	0.1%	197.8	172	0.1%	195.2	177	0.1%	202.3	180	0.1%	203.9	176	0.1%	199.2
Merced	304	0.2%	109.4	319	0.2%	113.3	352	0.3%	123.6	401	0.3%	140.3	429	0.3%	148.6
Modoc	4	0.0%	42.2	3	0.0%	31.7	4	0.0%	42.5	3	0.0%	32.0	2	0.0%	21.3
Mono	9	0.0%	66.4	9	0.0%	66.2	9	0.0%	66.9	9	0.0%	65.0	9	0.0%	64.8
Monterey	750	0.6%	169.8	773	0.6%	174.3	786	0.6%	178.1	796	0.6%	178.8	791	0.6%	176.8
Napa	270	0.2%	192.4	275	0.2%	196.6	293	0.2%	211.2	294	0.2%	211.0	297	0.2%	212.9
Nevada	129	0.1%	131.8	143	0.1%	146.2	145	0.1%	148.8	145	0.1%	147.9	142	0.1%	144.7
Orange	7,243	5.3%	226.7	7,302	5.3%	228.5	7,449	5.3%	233.5	7,599	5.4%	236.8	7,728	5.4%	240.1
Placer	360	0.3%	92.4	377	0.3%	95.5	386	0.3%	97.1	423	0.3%	106.7	429	0.3%	107.1
Plumas	20	0.0%	109.2	20	0.0%	108.4	22	0.0%	120.6	24	0.0%	125.5	29	0.0%	152.3
Riverside	9,426	6.9%	391.4	9,768	7.1%	402.2	10,200	7.3%	416.4	10,607	7.5%	428.1	11,065	7.8%	441.5
Sacramento	4,507	3.3%	293.8	4,589	3.3%	296.3	4,721	3.4%	302.2	4,810	3.4%	308.6	4,854	3.4%	308.8
San Benito	50	0.0%	82.3	52	0.0%	83.8	59	0.0%	94.0	62	0.0%	100.5	60	0.0%	96.6
San Bernardino	4,659	3.4%	215.6	4,911	3.6%	225.7	5,040	3.6%	230.8	5,263	3.7%	239.2	5,466	3.8%	246.6
San Diego	13,772	10.1%	412.5	13,869	10.1%	414.4	13,975	10.0%	416.9	14,199	10.1%	424.6	14,438	10.1%	430.2
San Francisco	12,733	9.4%	1424.7	12,531	9.1%	1396.8	12,204	8.8%	1356.2	11,901	8.4%	1333.6	11,828	8.3%	1318.0
San Joaquin	1,359	1.0%	179.6	1,403	1.0%	182.7	1,472	1.1%	189.7	1,548	1.1%	199.7	1,646	1.2%	210.0
San Luis Obispo	359	0.3%	129.1	391	0.3%	141.0	388	0.3%	140.5	402	0.3%	144.3	407	0.3%	145.7
San Mateo	1,650	1.2%	213.0	1,658	1.2%	213.7	1,644	1.2%	212.1	1,631	1.2%	210.5	1,653	1.2%	212.6
Santa Barbara	562	0.4%	124.8	594	0.4%	131.4	609	0.4%	134.9	629	0.4%	138.7	642	0.4%	141.1
Santa Clara	3,539	2.6%	180.7	3,650	2.6%	186.1	3,721	2.7%	189.6	3,776	2.7%	191.2	3,935	2.8%	197.9
Santa Cruz	528	0.4%	193.1	542	0.4%	199.1	558	0.4%	206.6	560	0.4%	203.6	556	0.4%	201.4
Shasta	220	0.2%	123.6	225	0.2%	126.7	226	0.2%	127.2	229	0.2%	129.8	230	0.2%	130.2
Sierra	6	0.0%	191.3	5	0.0%	159.9	4	0.0%	128.3	3	0.0%	96.8	3	0.0%	97.5
Siskiyou	72	0.1%	163.2	65	0.0%	147.7	67	0.0%	153.0	62	0.0%	143.1	66	0.0%	152.9
Solano	1,318	1.0%	300.5	1,332	1.0%	302.7	1,371	1.0%	311.5	1,421	1.0%	319.1	1,446	1.0%	322.1
Sonoma	1,477	1.1%	296.1	1,449	1.1%	292.7	1,476	1.1%	300.5	1,450	1.0%	289.5	1,484	1.0%	295.1
Stanislaus	815	0.6%	147.7	851	0.6%	153.6	855	0.6%	153.8	880	0.6%	156.6	924	0.6%	163.1
Sutter	100	0.1%	99.1	110	0.1%	107.0	121	0.1%	119.6	125	0.1%	126.0	126	0.1%	126.3
Tehama	50	0.0%	77.6	46	0.0%	70.6	47	0.0%	72.0	46	0.0%	71.9	54	0.0%	84.3
Trinity	15	0.0%	112.1	16	0.0%	119.6	15	0.0%	112.9	13	0.0%	98.6	14	0.0%	106.4
Tulare	475	0.3%	100.2	497	0.4%	104.0	522	0.4%	108.6	552	0.4%	114.6	586	0.4%	120.8
Tuolumne	50	0.0%	94.6	54	0.0%	102.7	61	0.0%	116.5	57	0.0%	110.2	57	0.0%	110.3
Ventura	1,139	0.8%	134.3	1,161	0.8%	137.5	1,211	0.9%	143.9	1,261	0.9%	148.3	1,306	0.9%	153.4
Yolo	304	0.2%	137.8	323	0.2%	146.3	328	0.2%	147.9	338	0.2%	149.6	360	0.3%	157.6
Yuba	93	0.1%	120.6	94	0.1%	120.4	100	0.1%	126.4	107	0.1%	137.0	113	0.1%	143.6
Total	136,100		343.1	137,886		346.8	139,438		350.5	140,967		352.8	142,772		355.6
Berkeley city	479	0.4%	393.7	466	0.3%	384.0	485	0.3%	390.1	473	0.3%	403.8	462	0.3%	388.4
Long Beach city	4,279	3.1%	915.6	4,296	3.1%	928.6	4,276	3.1%	916.1	4,212	3.0%	923.6	4,088	2.9%	905.8
Pasadena city	608	0.4%	430.1	613	0.4%	434.6	624	0.4%	449.9	628	0.4%	462.6	604	0.4%	450.0

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 2d. Continuum of HIV care for persons living with diagnosed HIV infection, 2022 — 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	142,772		105,186	73.7%	92,405	64.7%
Alameda	6,239		4,793	76.8%	4,332	69.4%
Alpine	-		-	-	-	-
Amador	186		164	88.2%	160	86.0%
Butte	273		214	78.4%	39	14.3%
Calaveras	59		43	72.9%	34	57.6%
Colusa	22		17	77.3%	9	40.9%
Contra Costa	2,868		2,258	78.7%	1,632	56.9%
Del Norte	50		40	80.0%	37	74.0%
El Dorado	234		195	83.3%	172	73.5%
Fresno	2,375		1,907	80.3%	1,614	68.0%
Glenn	20		14	70.0%	6	30.0%
Humboldt	260		208	80.0%	191	73.5%
Imperial	419		278	66.3%	249	59.4%
Inyo	24		20	83.3%	18	75.0%
Kern	2,345		1,554	66.3%	1,239	52.8%
Kings	213		138	64.8%	120	56.3%
Lake	148		123	83.1%	116	78.4%
Lassen	32		20	62.5%	20	62.5%
Los Angeles	52,563		37,647	71.6%	33,263	63.3%
Madera	271		206	76.0%	179	66.1%
Marin	795		579	72.8%	555	69.8%
Mariposa	23		21	91.3%	17	73.9%
Mendocino	176		140	79.5%	131	74.4%
Merced	429		331	77.2%	281	65.5%
Modoc	2		1	50.0%	1	50.0%
Mono	9		8	88.9%	7	77.8%
Monterey	791		571	72.2%	519	65.6%
Napa	297		235	79.1%	219	73.7%
Nevada	142		107	75.4%	100	70.4%
Orange	7,728		5,282	68.3%	4,807	62.2%
Placer	429		333	77.6%	297	69.2%
Plumas	29		22	75.9%	20	69.0%
Riverside	11,065		8,941	80.8%	8,275	74.8%
Sacramento	4,854		3,791	78.1%	3,335	68.7%
San Benito	60		43	71.7%	39	65.0%
San Bernardino	5,466		3,660	67.0%	3,121	57.1%
San Diego	14,438		10,071	69.8%	8,304	57.5%
San Francisco	11,828		9,408	79.5%	8,697	73.5%

Table 2d. Continuum of HIV care for persons living with diagnosed HIV infection, 2022 — 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%
San Joaquin	1,646		1,231	74.8%	1,063	64.6%
San Luis Obispo	407		249	61.2%	226	55.5%
San Mateo	1,653		1,229	74.3%	917	55.5%
Santa Barbara	642		408	63.6%	368	57.3%
Santa Clara	3,935		3,006	76.4%	2,650	67.3%
Santa Cruz	556		425	76.4%	380	68.3%
Shasta	230		185	80.4%	161	70.0%
Sierra	-		-	-	-	-
Siskiyou	66		51	77.3%	47	71.2%
Solano	1,446		1,051	72.7%	930	64.3%
Sonoma	1,484		1,304	87.9%	1,236	83.3%
Stanislaus	924		723	78.2%	648	70.1%
Sutter	126		95	75.4%	48	38.1%
Tehama	54		43	79.6%	23	42.6%
Trinity	14		14	100.0%	12	85.7%
Tulare	586		439	74.9%	367	62.6%
Tuolumne	57		39	68.4%	29	50.9%
Ventura	1,306		940	72.0%	851	65.2%
Yolo	360		286	79.4%	244	67.8%
Yuba	113		80	70.8%	45	39.8%
Berkeley	462		352	76.2%	330	71.4%
Long Beach	4,088		3,040	74.4%	2,782	68.1%
Pasadena	604		458	75.8%	415	68.7%

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.

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Table 3a. Deaths among persons with diagnosed HIV infection, by year and selected demographic characteristics, 2018–2022 — California

Characteristic	2018			2019			2020			2021			2022			
	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	1	0.0%	0.1	0	0.0%	0.0	0	0.0%	0.0
	15 to 17	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
	18 to 19	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
	20 to 24	8	0.4%	0.3	12	0.7%	0.4	11	0.5%	0.4	7	0.3%	0.2	7	0.3%	0.2
	25 to 29	28	1.5%	1.1	44	2.4%	1.7	34	1.6%	1.3	52	2.3%	1.9	60	2.8%	2.2
	30 to 34	71	3.9%	2.7	61	3.3%	2.4	74	3.6%	3.0	110	4.9%	4.4	92	4.2%	3.7
	35 to 39	80	4.4%	2.9	101	5.5%	3.7	90	4.3%	3.3	128	5.7%	4.8	132	6.1%	5.0
	40 to 44	97	5.3%	3.9	107	5.8%	4.3	108	5.2%	4.3	135	6.0%	5.2	144	6.6%	5.5
	45 to 49	149	8.2%	5.7	122	6.7%	4.7	156	7.5%	6.2	152	6.7%	6.1	150	6.9%	6.1
	50 to 54	263	14.4%	10.3	237	13.0%	9.4	246	11.9%	9.7	232	10.3%	9.1	209	9.6%	8.2
	55 to 59	290	15.9%	11.3	325	17.8%	12.7	370	17.9%	14.6	402	17.8%	16.1	329	15.2%	13.4
	60 to 64	306	16.8%	13.2	312	17.0%	13.2	347	16.8%	14.6	356	15.8%	14.8	348	16.0%	14.4
	65 to 74	372	20.4%	10.9	343	18.7%	9.7	432	20.9%	11.8	477	21.1%	12.6	493	22.7%	12.7
	≥ 75	159	8.7%	6.5	166	9.1%	6.6	200	9.7%	7.6	209	9.2%	7.6	205	9.5%	7.1
Race/ethnicity	Latinx	509	27.9%	3.3	512	28.0%	3.3	615	29.7%	3.9	699	30.9%	4.4	700	32.3%	4.4
	American Indian/Alaska Native	3	0.2%	1.7	2	0.1%	1.2	1	0.0%	0.6	6	0.3%	3.4	5	0.2%	2.9
	Asian	36	2.0%	0.7	32	1.7%	0.6	39	1.9%	0.7	45	2.0%	0.9	42	1.9%	0.8
	Black/African American	375	20.6%	16.5	358	19.6%	15.7	419	20.3%	18.3	445	19.7%	19.4	433	20.0%	18.7
	Native Hawaiian/Other Pacific Islander	4	0.2%	2.8	2	0.1%	1.4	2	0.1%	1.4	2	0.1%	1.4	1	0.0%	0.7
	White	778	42.7%	5.1	822	44.9%	5.4	861	41.6%	5.7	898	39.7%	5.9	852	39.3%	5.6
	Multiple races	119	6.5%	11.1	102	5.6%	9.4	132	6.4%	12.0	165	7.3%	14.8	136	6.3%	12.0
Gender	Cisgender men	1,567	85.9%	7.9	1,576	86.1%	7.9	1,786	86.3%	9.0	1,915	84.7%	9.6	1,850	85.3%	9.2
	Cisgender women	233	12.8%	1.2	234	12.8%	1.2	249	12.0%	1.2	297	13.1%	1.5	277	12.8%	1.4
	Trans women	22	1.2%	-	20	1.1%	-	32	1.5%	-	48	2.1%	-	40	1.8%	-
	Trans men	1	0.1%	-	0	0.0%	-	2	0.1%	-	0	0.0%	-	2	0.1%	-
	Alternative gender identity	1	0.1%	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	-
Total	1,824		4.6	1,830		4.6	2,069		5.2	2,260		5.7	2,169		5.4	

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.

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Table 3b. Deaths among persons with diagnosed HIV infection, by year and transmission category, 2018–2022 — California

Demographic group	Transmission category	2018	%	2019	%	2020	%	2021	%	2022	%
Cisgender men (age ≥12 at death)	Male-to-male sexual contact (MMSC)	1,002	63.9%	1,038	65.9%	1,127	63.1%	1,203	62.8%	1,163	62.9%
	Injection drug use (IDU)	148	9.4%	131	8.3%	143	8.0%	186	9.7%	157	8.5%
	MMSC and IDU	221	14.1%	203	12.9%	260	14.6%	256	13.4%	257	13.9%
	High-risk heterosexual contact	46	2.9%	57	3.6%	73	4.1%	74	3.9%	66	3.6%
	Heterosexual contact (non-high-risk)	68	4.3%	57	3.6%	84	4.7%	82	4.3%	101	5.5%
	Perinatal/Unknown risk/Other	82	5.2%	90	5.7%	99	5.5%	114	6.0%	106	5.7%
	Subtotal		1,567	85.9%	1,576	86.1%	1,786	86.3%	1,915	84.7%	1,850
Cisgender women (age ≥12 at death)	Injection drug use	86	36.9%	89	38.0%	81	32.5%	92	31.0%	95	34.3%
	High-risk heterosexual contact	88	37.8%	94	40.2%	93	37.3%	122	41.1%	94	33.9%
	Heterosexual contact (non-high-risk)	43	18.5%	36	15.4%	51	20.5%	58	19.5%	56	20.2%
	Perinatal/Unknown risk/Other	16	6.9%	15	6.4%	24	9.6%	25	8.4%	32	11.6%
	Subtotal		233	12.8%	234	12.8%	249	12.0%	297	13.1%	277
Trans women (age ≥12 at death)	Sexual contact	22	100.0%	19	95.0%	31	96.9%	47	97.9%	40	100.0%
	Injection drug use (IDU)	0	0.0%	1	5.0%	1	3.1%	0	0.0%	0	0.0%
	Perinatal/Unknown risk/Other	0	0.0%	0	0.0%	0	0.0%	1	2.1%	0	0.0%
	Subtotal		22	1.2%	20	1.1%	32	1.5%	48	2.1%	40
Trans men (age ≥12 at death)	Sexual contact	0	0.0%	0	0.0%	1	50.0%	0	0.0%	1	50.0%
	Injection drug use	1	100.0%	0	0.0%	1	50.0%	0	0.0%	1	50.0%
	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%	2	0.1%	0	0.0%	2
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	1	100.0%	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
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		1,824		1,830		2,069		2,260		2,169	

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, 2018–2022 — California

County of residence at death	2018			2019			2020			2021			2022		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	78	4.3%	4.7	77	4.2%	4.6	101	4.9%	6.0	101	4.5%	6.0	103	4.7%	6.1
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	0.1%	2.6	1	0.1%	2.7	0	0.0%	0.0	2	0.1%	5.3	0	0.0%	0.0
Butte	6	0.3%	2.6	9	0.5%	4.2	8	0.4%	3.9	8	0.4%	3.9	10	0.5%	4.4
Calaveras	2	0.1%	4.5	3	0.2%	6.8	1	0.0%	2.3	0	0.0%	0.0	1	0.0%	2.3
Colusa	0	0.0%	0.0	1	0.1%	4.5	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Contra Costa	38	2.1%	3.3	45	2.5%	3.9	28	1.4%	2.4	45	2.0%	3.9	32	1.5%	2.7
Del Norte	1	0.1%	3.7	0	0.0%	0.0	1	0.0%	3.7	1	0.0%	3.7	0	0.0%	0.0
El Dorado	2	0.1%	1.1	2	0.1%	1.1	5	0.2%	2.6	2	0.1%	1.0	5	0.2%	2.6
Fresno	31	1.7%	3.1	31	1.7%	3.0	43	2.1%	4.2	66	2.9%	6.4	35	1.6%	3.4
Glenn	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
Humboldt	9	0.5%	6.7	3	0.2%	2.2	7	0.3%	5.3	6	0.3%	4.5	7	0.3%	5.2
Imperial	9	0.5%	4.8	3	0.2%	1.6	4	0.2%	2.1	5	0.2%	2.7	8	0.4%	4.1
Inyo	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	5.4	0	0.0%	0.0
Kern	44	2.4%	4.9	35	1.9%	3.8	38	1.8%	4.2	44	1.9%	4.8	48	2.2%	5.2
Kings	1	0.1%	0.7	2	0.1%	1.3	2	0.1%	1.3	8	0.4%	5.2	3	0.1%	1.9
Lake	7	0.4%	10.8	6	0.3%	9.4	3	0.1%	4.7	4	0.2%	6.3	6	0.3%	9.4
Lassen	0	0.0%	0.0	1	0.1%	3.5	2	0.1%	6.9	0	0.0%	0.0	1	0.0%	3.4
Los Angeles	611	33.5%	6.0	575	31.4%	5.6	775	37.5%	7.6	778	34.4%	7.6	774	35.7%	7.6
Madera	4	0.2%	2.5	3	0.2%	1.9	3	0.1%	1.9	7	0.3%	4.4	2	0.1%	1.2
Marin	6	0.3%	2.3	9	0.5%	3.4	12	0.6%	4.6	12	0.5%	4.6	12	0.6%	4.7
Mariposa	1	0.1%	5.6	0	0.0%	0.0	2	0.1%	11.2	0	0.0%	0.0	2	0.1%	11.4
Mendocino	3	0.2%	3.4	2	0.1%	2.3	2	0.1%	2.3	7	0.3%	8.0	1	0.0%	1.1
Merced	7	0.4%	2.5	13	0.7%	4.6	9	0.4%	3.2	7	0.3%	2.5	8	0.4%	2.8
Modoc	0	0.0%	0.0	1	0.1%	10.6	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Mono	1	0.1%	7.4	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	7.4	1	0.0%	7.2
Monterey	8	0.4%	1.8	13	0.7%	2.9	13	0.6%	2.9	13	0.6%	2.9	8	0.4%	1.8
Napa	0	0.0%	0.0	5	0.3%	3.6	1	0.0%	0.7	4	0.2%	2.9	8	0.4%	5.7
Nevada	3	0.2%	3.1	4	0.2%	4.1	2	0.1%	2.1	3	0.1%	3.1	3	0.1%	3.1
Orange	98	5.4%	3.1	88	4.8%	2.8	76	3.7%	2.4	98	4.3%	3.1	94	4.3%	2.9
Placer	6	0.3%	1.5	9	0.5%	2.3	7	0.3%	1.8	7	0.3%	1.8	9	0.4%	2.2
Plumas	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	5.3
Riverside	186	10.2%	7.7	182	9.9%	7.5	204	9.9%	8.3	233	10.3%	9.5	186	8.6%	7.4
Sacramento	53	2.9%	3.5	77	4.2%	5.0	67	3.2%	4.3	73	3.2%	4.7	84	3.9%	5.3
San Benito	1	0.1%	1.6	0	0.0%	0.0	1	0.0%	1.6	0	0.0%	0.0	1	0.0%	1.6
San Bernardino	64	3.5%	3.0	70	3.8%	3.2	93	4.5%	4.3	105	4.6%	4.8	100	4.6%	4.5
San Diego	150	8.2%	4.5	159	8.7%	4.8	125	6.0%	3.7	183	8.1%	5.5	178	8.2%	5.3
San Francisco	195	10.7%	21.8	193	10.5%	21.5	223	10.8%	24.8	202	8.9%	22.4	215	9.9%	24.0
San Joaquin	25	1.4%	3.3	35	1.9%	4.6	30	1.4%	3.9	39	1.7%	5.0	37	1.7%	4.7
San Luis Obispo	4	0.2%	1.4	3	0.2%	1.1	4	0.2%	1.4	6	0.3%	2.2	9	0.4%	3.2
San Mateo	20	1.1%	2.6	19	1.0%	2.4	14	0.7%	1.8	19	0.8%	2.5	24	1.1%	3.1
Santa Barbara	7	0.4%	1.6	8	0.4%	1.8	11	0.5%	2.4	7	0.3%	1.6	10	0.5%	2.2
Santa Clara	35	1.9%	1.8	27	1.5%	1.4	38	1.8%	1.9	31	1.4%	1.6	38	1.8%	1.9
Santa Cruz	7	0.4%	2.6	4	0.2%	1.5	7	0.3%	2.6	4	0.2%	1.5	5	0.2%	1.8
Shasta	6	0.3%	3.4	7	0.4%	3.9	7	0.3%	3.9	3	0.1%	1.7	2	0.1%	1.1
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	0	0.0%	0.0	0	0.0%	0.0	7	0.3%	16.0	0	0.0%	0.0
Solano	13	0.7%	3.0	18	1.0%	4.1	12	0.6%	2.7	21	0.9%	4.8	19	0.9%	4.2
Sonoma	21	1.2%	4.2	29	1.6%	5.9	27	1.3%	5.5	25	1.1%	5.1	21	1.0%	4.2
Stanislaus	11	0.6%	2.0	19	1.0%	3.4	18	0.9%	3.2	20	0.9%	3.6	21	1.0%	3.7
Sutter	2	0.1%	2.0	1	0.1%	1.0	3	0.1%	3.0	2	0.1%	2.0	1	0.0%	1.0
Tehama	2	0.1%	3.1	4	0.2%	6.1	2	0.1%	3.1	2	0.1%	3.1	1	0.0%	1.6
Trinity	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	7.5	0	0.0%	0.0
Tulare	11	0.6%	2.3	10	0.5%	2.1	14	0.7%	2.9	9	0.4%	1.9	9	0.4%	1.9
Tuolumne	0	0.0%	0.0	1	0.1%	1.9	0	0.0%	0.0	1	0.0%	1.9	3	0.1%	5.8
Ventura	17	0.9%	2.0	18	1.0%	2.1	21	1.0%	2.5	27	1.2%	3.2	17	0.8%	2.0
Yolo	10	0.5%	4.5	4	0.2%	1.8	1	0.0%	0.5	6	0.3%	2.7	5	0.2%	2.2
Yuba	5	0.3%	6.5	1	0.1%	1.3	2	0.1%	2.5	4	0.2%	5.1	1	0.0%	1.3
Total	1,824		4.6	1,830		4.6	2,069		5.2	2,260		5.7	2,169		5.4
Berkeley city	7	0.4%	5.8	4	0.2%	3.3	9	0.4%	7.2	4	0.2%	3.2	6	0.3%	5.0
Long Beach city	65	3.6%	13.9	45	2.5%	9.7	75	3.6%	16.1	60	2.7%	12.9	67	3.1%	14.8
Pasadena city	11	0.6%	7.8	4	0.2%	2.8	6	0.3%	4.3	13	0.6%	9.4	10	0.5%	7.5

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).