



California HIV Surveillance Report — 2016

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 2012–2016
- Number and rate of all persons living with diagnosed HIV infection during 2012–2016
- Number and rate of deaths among persons with diagnosed HIV infection during 2012–2016

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 2012 through 2016, both the annual number and rate of new diagnoses of HIV infection in California declined. The number of new diagnoses declined by 2.8% — from 5,208 in 2012 to 5,061 in 2016, while the rate of new diagnoses per 100,000 population declined by 5.8%, from 13.7 to 12.9 during the same time period.
- From 2012 through 2016, the number of persons in California living with diagnosed HIV infection increased from approximately 121,000 to over 132,000. In 2016, the prevalence rate of diagnosed HIV infection was 336.4 per 100,000 population, compared to 319.1 in 2012— an increase of 5.4%.
- From 2012 through 2016, the annual number of deaths of persons with diagnosed HIV infection in California increased from 1,683 to 1,718. In 2016, the crude death rate of persons with diagnosed HIV infection was 4.4 per 100,000 population — the same as in 2012. 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 January 26, 2018, 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: The designation “adults and adolescents” refers to persons aged 12 years and older; “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 January 26, 2018. Otherwise individuals were classified according to their sex-at-birth.

Race and ethnicity: Hispanic/Latino(a) 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 (MSM) *and* injection drug use (IDU), MSM 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-high-risk heterosexual contact was added by OA, and is last in the hierarchy. Classification is based on sex-at-birth.

Gay, bisexual, and other men who have sex with men are in the transmission category of male-to-male sexual contact (MSM); transgender women who have sex with men are also placed by CDC in this transmission category. Persons who inject drugs are in the transmission category of injection drug use (IDU). Persons whose transmission category is classified as high-risk heterosexual (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., MSM, IDU). The transmission category heterosexual contact non-high-risk (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 MSM. 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, December 2014). For rates at the city level we used the *State of California, Department of Finance, E-4 Population Estimates for Cities, Counties, and the State, 2011-2016, with 2010 Census Benchmark. Sacramento, California, May 2016*. 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, 2012–2016 — California

Characteristic	2012			2013			2014			2015			2016			
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	
Age at diagnosis (in years)	0 to 11	14	0.3%	0.2	19	0.4%	0.3	15	0.3%	0.2	8	0.2%	0.1	10	0.2%	0.2
	12 to 14	5	0.1%	0.3	6	0.1%	0.4	7	0.1%	0.5	1	0.0%	0.1	3	0.1%	0.2
	15 to 17	39	0.7%	2.5	26	0.6%	1.6	30	0.6%	1.9	28	0.6%	1.8	27	0.5%	1.7
	18 to 19	136	2.6%	10.7	119	2.5%	9.5	110	2.1%	8.7	130	2.6%	10.3	124	2.5%	9.9
	20 to 24	800	15.4%	28.3	707	15.0%	24.4	848	16.3%	28.6	875	17.3%	29.2	823	16.3%	27.1
	25 to 29	897	17.2%	33.7	816	17.3%	31.3	970	18.7%	38.0	976	19.3%	38.7	1,019	20.1%	40.3
	30 to 34	784	15.1%	29.1	724	15.3%	26.4	798	15.3%	28.7	753	14.9%	27.2	755	14.9%	27.6
	35 to 39	569	10.9%	22.6	539	11.4%	21.4	595	11.4%	23.4	572	11.3%	22.2	602	11.9%	22.9
	40 to 44	594	11.4%	22.4	527	11.2%	19.9	541	10.4%	20.7	475	9.4%	18.5	458	9.0%	18.1
	45 to 49	594	11.4%	22.7	493	10.4%	19.0	474	9.1%	18.3	464	9.2%	17.8	420	8.3%	15.9
	50 to 54	396	7.6%	15.1	330	7.0%	12.5	372	7.2%	14.0	367	7.2%	13.9	401	7.9%	15.4
	55 to 59	212	4.1%	9.0	222	4.7%	9.2	236	4.5%	9.6	206	4.1%	8.2	222	4.4%	8.8
	60 to 64	94	1.8%	4.8	108	2.3%	5.4	119	2.3%	5.7	116	2.3%	5.4	105	2.1%	4.7
	65 to 74	61	1.2%	2.4	75	1.6%	2.8	74	1.4%	2.6	80	1.6%	2.7	81	1.6%	2.6
	≥ 75	13	0.2%	0.6	13	0.3%	0.6	11	0.2%	0.5	16	0.3%	0.7	11	0.2%	0.5
Race/ethnicity	Hispanic/Latino	2,229	42.8%	15.3	2,007	42.5%	13.6	2,326	44.7%	15.5	2,222	43.9%	14.6	2,269	44.8%	14.7
	American Indian/Alaska Native	17	0.3%	10.3	13	0.3%	7.9	11	0.2%	6.7	16	0.3%	9.7	23	0.5%	13.9
	Asian	321	6.2%	6.5	293	6.2%	5.9	359	6.9%	7.1	320	6.3%	6.3	335	6.6%	6.5
	Black/African American	886	17.0%	40.1	817	17.3%	36.8	851	16.4%	38.1	895	17.7%	39.8	955	18.9%	42.2
	Native Hawaiian/Other Pacific Islander	17	0.3%	12.8	13	0.3%	9.8	5	0.1%	3.8	14	0.3%	10.6	11	0.2%	8.4
	White	1,601	30.7%	10.6	1,436	30.4%	9.5	1,498	28.8%	9.9	1,461	28.8%	9.7	1,347	26.6%	8.9
	Multiple races	137	2.6%	14.0	145	3.1%	14.3	150	2.9%	14.3	139	2.7%	12.9	121	2.4%	10.9
	Gender	Male	4,558	87.5%	24.1	4,128	87.4%	21.6	4,531	87.1%	23.5	4,466	88.1%	23.0	4,392	86.8%
Female	566	10.9%	3.0	527	11.2%	2.7	604	11.6%	3.1	534	10.5%	2.7	587	11.6%	3.0	
Transgender: Male-to-Female	82	1.6%	-	67	1.4%	-	63	1.2%	-	62	1.2%	-	77	1.5%	-	
Transgender: Female-to-Male	2	0.04%	-	2	0.04%	-	2	0.0%	-	5	0.1%	-	5	0.1%	-	
Alternative Gender Identity	0	0.00%	-	0	0.00%	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	
Total	5,208		13.7	4,724		12.3	5,200		13.4	5,067		13.0	5,061		12.9	

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 1b. Persons newly diagnosed with HIV infection, by year of diagnosis and transmission category, 2012–2016 — California

Demographic group	Transmission category	2012		2013		2014		2015		2016	
		N	%	N	%	N	%	N	%	N	%
Male adult or adolescent (≥12 years old at diagnosis)	Male-to-male sexual contact (MSM)	3,429	74.0%	3,137	74.9%	3,392	73.9%	3,350	74.0%	3,212	72.0%
	Injection drug use (IDU)	146	3.2%	140	3.3%	149	3.2%	135	3.0%	128	2.9%
	MSM and IDU	219	4.7%	170	4.1%	175	3.8%	163	3.6%	155	3.5%
	High-risk heterosexual contact (HRH)	112	2.4%	142	3.4%	139	3.0%	107	2.4%	130	2.9%
	Heterosexual contact (Non-HRH)	269	5.8%	286	6.8%	302	6.6%	325	7.2%	371	8.3%
	Perinatal	0	0.0%	0	0.0%	2	0.0%	1	0.0%	0	0.0%
	Unknown risk	458	9.9%	314	7.5%	428	9.3%	445	9.8%	468	10.5%
	Subtotal	4,633	89.0%	4,189	88.7%	4,587	88.2%	4,526	89.3%	4,464	88.2%
Female adult or adolescent (≥12 years old at diagnosis)	Injection drug use	58	10.3%	54	10.5%	62	10.4%	60	11.3%	60	10.2%
	High-risk heterosexual contact (HRH)	259	46.2%	224	43.4%	232	38.8%	197	37.0%	193	32.9%
	Heterosexual contact (Non-HRH)	168	29.9%	171	33.1%	240	40.1%	220	41.3%	259	44.1%
	Perinatal	2	0.4%	1	0.2%	2	0.3%	0	0.0%	2	0.3%
	Unknown risk	74	13.2%	66	12.8%	62	10.4%	56	10.5%	73	12.4%
	Subtotal	561	10.8%	516	10.9%	598	11.5%	533	10.5%	587	11.6%
Child (<12 years old at diagnosis)	Perinatal (born in CA)	1	7.1%	2	10.5%	4	26.7%	3	37.5%	4	40.0%
	Perinatal (born in other US states)	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Perinatal (Foreign-born)	10	71.4%	11	57.9%	7	46.7%	4	50.0%	3	30.0%
	Perinatal (Unrecorded birth country)	1	7.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Unknown risk	2	14.3%	6	31.6%	4	26.7%	1	12.5%	2	20.0%
	Other	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	10.0%
	Subtotal	14	0.3%	19	0.4%	15	0.3%	8	0.2%	10	0.2%
	Total	5,208		4,724		5,200		5,067		5,061	

Note: Transmission category classified by sex-at-birth. High-risk heterosexual contact (HRH): heterosexual intercourse with a person of the opposite sex-at-birth who has a high risk of HIV (e.g., MSM, IDU). Heterosexual contact (non-high-risk, Non-HRH): heterosexual intercourse with a person of the opposite sex-at-birth who does not have a high risk for HIV. 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. Perinatal children who were less than 12 years old at diagnosis and were exposed to HIV perinatally are further categorized by the country of birth.

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Table 1c. Persons newly diagnosed with HIV infection, by year of diagnosis and local health jurisdiction, 2012–2016 — California

County of residence at diagnosis	2012			2013			2014			2015			2016		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	236	4.5%	15.2	215	4.6%	13.6	213	4.1%	13.3	263	5.2%	16.2	268	5.3%	16.4
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	4	0.1%	10.6	2	0.0%	5.3	0	0.0%	0.0	1	0.0%	2.7	2	0.0%	5.4
Butte	9	0.2%	4.1	8	0.2%	3.6	8	0.2%	3.6	8	0.2%	3.6	14	0.3%	6.2
Calaveras	0	0.0%	0.0	3	0.1%	6.6	3	0.1%	6.7	1	0.0%	2.2	1	0.0%	2.2
Colusa	2	0.0%	9.2	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	4.5	1	0.0%	4.5
Contra Costa	92	1.8%	8.6	72	1.5%	6.6	106	2.0%	9.6	92	1.8%	8.2	117	2.3%	10.4
Del Norte	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	3.7	0	0.0%	0.0
El Dorado	3	0.1%	1.7	4	0.1%	2.2	4	0.1%	2.2	7	0.1%	3.8	3	0.1%	1.6
Fresno	103	2.0%	10.8	89	1.9%	9.3	112	2.2%	11.6	102	2.0%	10.4	135	2.7%	13.6
Glenn	1	0.0%	3.5	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	3.5	2	0.0%	6.9
Humboldt	4	0.1%	3.0	4	0.1%	3.0	6	0.1%	4.5	10	0.2%	7.4	6	0.1%	4.4
Imperial	16	0.3%	8.9	20	0.4%	11.1	19	0.4%	10.4	18	0.4%	9.7	13	0.3%	6.9
Inyo	0	0.0%	0.0	0	0.0%	0.0	3	0.1%	16.1	1	0.0%	5.4	2	0.0%	10.7
Kern	96	1.8%	11.2	109	2.3%	12.5	109	2.1%	12.4	120	2.4%	13.6	107	2.1%	12.0
Kings	8	0.2%	5.3	12	0.3%	8.0	8	0.2%	5.4	8	0.2%	5.3	9	0.2%	6.0
Lake	2	0.0%	3.1	1	0.0%	1.5	2	0.0%	3.1	2	0.0%	3.1	1	0.0%	1.5
Lassen	3	0.1%	9.1	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	3.2	1	0.0%	3.3
Los Angeles	2,141	41.1%	21.4	1,790	37.9%	17.8	2,114	40.7%	20.9	2,024	40.0%	19.9	1,894	37.4%	18.5
Madera	11	0.2%	7.3	7	0.1%	4.6	13	0.3%	8.4	6	0.1%	3.9	7	0.1%	4.5
Marin	11	0.2%	4.3	14	0.3%	5.4	24	0.5%	9.2	23	0.5%	8.8	29	0.6%	11.0
Mariposa	3	0.1%	16.5	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	5.5
Mendocino	3	0.1%	3.4	2	0.0%	2.3	5	0.1%	5.6	3	0.1%	3.4	3	0.1%	3.4
Merced	15	0.3%	5.7	13	0.3%	4.9	15	0.3%	5.6	22	0.4%	8.2	21	0.4%	7.7
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	0	0.0%	0.0
Monterey	26	0.5%	6.1	29	0.6%	6.8	25	0.5%	5.8	31	0.6%	7.1	40	0.8%	9.1
Napa	3	0.1%	2.2	5	0.1%	3.6	10	0.2%	7.1	4	0.1%	2.8	12	0.2%	8.4
Nevada	6	0.1%	6.1	6	0.1%	6.1	5	0.1%	5.1	2	0.0%	2.0	2	0.0%	2.0
Orange	269	5.2%	8.7	307	6.5%	9.9	286	5.5%	9.1	330	6.5%	10.4	346	6.8%	10.9
Placer	17	0.3%	4.7	13	0.3%	3.6	13	0.3%	3.5	11	0.2%	3.0	19	0.4%	5.1
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	257	4.9%	11.4	237	5.0%	10.4	264	5.1%	11.4	267	5.3%	11.5	300	5.9%	12.7
Sacramento	185	3.6%	12.8	170	3.6%	11.7	184	3.5%	12.5	156	3.1%	10.5	195	3.9%	12.9
San Benito	0	0.0%	0.0	1	0.0%	1.8	1	0.0%	1.7	4	0.1%	6.9	1	0.0%	1.7
San Bernardino	200	3.8%	9.6	190	4.0%	9.1	220	4.2%	10.4	194	3.8%	9.1	217	4.3%	10.1
San Diego	483	9.3%	15.2	487	10.3%	15.2	499	9.6%	15.4	498	9.8%	15.2	503	9.9%	15.2
San Francisco	456	8.8%	54.8	396	8.4%	46.9	330	6.3%	38.7	294	5.8%	34.1	264	5.2%	30.3
San Joaquin	48	0.9%	6.9	80	1.7%	11.3	72	1.4%	10.0	71	1.4%	9.8	53	1.0%	7.2
San Luis Obispo	18	0.3%	6.6	17	0.4%	6.2	11	0.2%	4.0	17	0.3%	6.1	18	0.4%	6.5
San Mateo	66	1.3%	8.9	50	1.1%	6.7	69	1.3%	9.1	63	1.2%	8.2	59	1.2%	7.7
Santa Barbara	30	0.6%	7.0	19	0.4%	4.4	25	0.5%	5.7	23	0.5%	5.2	29	0.6%	6.5
Santa Clara	138	2.6%	7.5	134	2.8%	7.2	164	3.2%	8.7	159	3.1%	8.3	136	2.7%	7.0
Santa Cruz	21	0.4%	7.8	13	0.3%	4.8	22	0.4%	8.1	12	0.2%	4.4	19	0.4%	6.9
Shasta	3	0.1%	1.7	10	0.2%	5.6	8	0.2%	4.5	3	0.1%	1.7	7	0.1%	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	3	0.1%	6.7	0	0.0%	0.0	2	0.0%	4.5	2	0.0%	4.5	3	0.1%	6.8
Solano	42	0.8%	10.1	27	0.6%	6.4	54	1.0%	12.7	35	0.7%	8.2	27	0.5%	6.2
Sonoma	41	0.8%	8.4	37	0.8%	7.5	30	0.6%	6.0	30	0.6%	6.0	37	0.7%	7.3
Stanislaus	33	0.6%	6.3	37	0.8%	7.0	40	0.8%	7.5	32	0.6%	5.9	28	0.6%	5.1
Sutter	2	0.0%	2.1	6	0.1%	6.2	1	0.0%	1.0	1	0.0%	1.0	8	0.2%	8.1
Tehama	2	0.0%	3.1	1	0.0%	1.6	0	0.0%	0.0	1	0.0%	1.6	1	0.0%	1.6
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	29	0.6%	6.4	30	0.6%	6.6	35	0.7%	7.6	32	0.6%	6.9	33	0.7%	7.0
Tuolumne	2	0.0%	3.6	1	0.0%	1.8	0	0.0%	0.0	2	0.0%	3.7	1	0.0%	1.8
Ventura	49	0.9%	5.9	47	1.0%	5.6	54	1.0%	6.4	51	1.0%	6.0	45	0.9%	5.3
Yolo	13	0.2%	6.3	6	0.1%	2.9	10	0.2%	4.8	22	0.4%	10.3	18	0.4%	8.3
Yuba	3	0.1%	4.1	3	0.1%	4.0	2	0.0%	2.7	4	0.1%	5.3	3	0.1%	3.9
Total	5,208		13.7	4,724		12.3	5,200		13.4	5,066		13.0	5,061		12.9
Berkeley city	15	0.3%	13.0	13	0.3%	11.1	21	0.4%	17.7	24	0.5%	19.9	23	0.5%	19.0
Long Beach city	198	3.8%	42.3	136	2.9%	29.0	124	2.4%	26.4	137	2.7%	29.1	129	2.5%	27.4
Pasadena city	30	0.6%	21.7	27	0.6%	19.3	23	0.4%	16.4	31	0.6%	21.9	20	0.4%	14.1

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). All counts are based on the availability of resident county in the database at the time of diagnosis.

Table 2a. Persons living with diagnosed HIV infection, by year and selected demographic characteristics, 2012–2016 — California

Characteristic	2012			2013			2014			2015			2016			
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	
Age at year end (years)	0 to11	150	0.1%	2.5	151	0.1%	2.5	146	0.1%	2.4	132	0.1%	2.2	116	0.1%	1.9
	12 to 14	80	0.1%	5.2	73	0.1%	4.7	72	0.1%	4.7	68	0.1%	4.5	81	0.1%	5.3
	15 to 17	164	0.1%	10.3	146	0.1%	9.2	132	0.1%	8.5	124	0.1%	8.0	108	0.1%	7.0
	18 to 19	313	0.3%	24.7	284	0.2%	22.6	249	0.2%	19.7	258	0.2%	20.4	245	0.2%	19.6
	20 to 24	2,991	2.5%	105.7	2,971	2.4%	102.6	3,028	2.4%	102.3	3,045	2.4%	101.6	3,013	2.3%	99.3
	25 to 29	6,738	5.6%	253.0	6,905	5.6%	265.0	7,212	5.7%	282.2	7,355	5.7%	291.8	7,650	5.8%	302.4
	30 to 34	9,302	7.7%	345.7	9,492	7.7%	346.3	9,744	7.7%	350.8	9,967	7.7%	360.4	10,312	7.8%	377.5
	35 to 39	10,953	9.0%	435.6	10,921	8.8%	433.2	11,094	8.8%	436.6	11,350	8.8%	440.0	11,848	8.9%	450.6
	40 to 44	16,952	14.0%	639.2	15,822	12.8%	598.9	14,692	11.7%	561.8	13,571	10.5%	528.3	12,968	9.8%	512.5
	45 to 49	23,003	19.0%	877.8	22,183	17.9%	855.1	20,847	16.5%	805.7	19,939	15.5%	764.1	19,142	14.5%	726.2
	50 to 54	21,268	17.5%	810.6	22,492	18.1%	852.1	23,344	18.5%	879.0	23,838	18.5%	902.5	23,737	17.9%	910.3
	55 to 59	14,371	11.8%	609.5	15,509	12.5%	642.5	16,488	13.1%	670.2	17,764	13.8%	708.7	19,214	14.5%	757.3
	60 to 64	8,426	6.9%	427.3	9,313	7.5%	461.4	10,199	8.1%	490.3	11,122	8.6%	518.0	12,277	9.3%	554.9
	65 to 74	5,697	4.7%	222.4	6,609	5.3%	243.5	7,520	6.0%	262.5	8,678	6.7%	287.6	9,857	7.4%	312.4
≥ 75	978	0.8%	47.4	1,131	0.9%	53.7	1,328	1.1%	61.4	1,572	1.2%	70.4	1,837	1.4%	79.7	
Race/ethnicity	Hispanic/Latino	40,169	33.1%	276.0	41,637	33.6%	281.8	43,286	34.3%	288.4	44,843	34.8%	294.7	46,746	35.3%	303.3
	American Indian/Alaska Native	385	0.3%	233.6	384	0.3%	232.6	381	0.3%	230.3	383	0.3%	231.4	405	0.3%	244.5
	Asian	4,076	3.4%	82.6	4,333	3.5%	86.9	4,643	3.7%	92.0	4,905	3.8%	96.4	5,211	3.9%	101.7
	Black/African American	21,462	17.7%	971.7	21,895	17.7%	986.2	22,196	17.6%	993.8	22,542	17.5%	1,003.1	23,124	17.5%	1,022.9
	Native Hawaiian/Other Pacific Islander	244	0.2%	184.2	251	0.2%	189.7	254	0.2%	192.0	263	0.2%	199.4	272	0.2%	206.9
	White	51,918	42.8%	344.5	52,299	42.2%	346.8	52,079	41.3%	344.6	52,548	40.8%	347.3	53,310	40.3%	351.9
	Multiple races	3,127	2.6%	319.2	3,198	2.6%	316.1	3,251	2.6%	310.9	3,294	2.6%	305.2	3,332	2.5%	299.6
	Unknown race	5	0.0%	-	5	0.0%	-	5	0.0%	-	5	0.0%	-	5	0.0%	-
Gender	Male	105,550	87.0%	558.0	107,854	87.0%	565.2	109,628	86.9%	568.8	112,021	87.0%	576.4	115,193	87.0%	588.2
	Female	14,313	11.8%	74.8	14,580	11.8%	75.6	14,876	11.8%	76.4	15,126	11.7%	77.1	15,528	11.7%	78.5
	Transgender: Male-to-Female	1,480	1.2%	-	1,525	1.2%	-	1,546	1.2%	-	1,589	1.2%	-	1,632	1.2%	-
	Transgender: Female-to-Male	38	0.03%	-	38	0.03%	-	40	0.0%	-	43	0.0%	-	48	0.0%	-
	Alternative Gender Identity	5	0.00%	-	5	0.00%	-	5	0.0%	-	4	0.0%	-	4	0.0%	-
	Total	121,386		319.1	124,002		323.1	126,095		325.5	128,783		329.7	132,405		336.4

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.

Table 2b. Persons living with diagnosed HIV infection, by year and transmission category, 2012–2016 — California

Demographic group	Transmission category	2012		2013		2014		2015		2016	
		N	%	N	%	N	%	N	%	N	%
Male adult or adolescent (≥12 years old at year end)	Male-to-male sexual contact (MSM)	80,498	75.3%	82,428	75.4%	83,811	75.4%	85,791	75.6%	88,251	75.6%
	Injection drug use (IDU)	5,359	5.0%	5,306	4.9%	5,259	4.7%	5,212	4.6%	5,207	4.5%
	MSM and IDU	9,694	9.1%	9,591	8.8%	9,372	8.4%	9,226	8.1%	9,218	7.9%
	High-risk heterosexual contact (HRH)	3,409	3.2%	3,477	3.2%	3,552	3.2%	3,581	3.2%	3,661	3.1%
	Heterosexual contact (Non-HRH)	3,535	3.3%	3,767	3.4%	4,015	3.6%	4,274	3.8%	4,586	3.9%
	Perinatal	264	0.2%	272	0.2%	282	0.3%	289	0.3%	295	0.3%
	Unknown risk	3,925	3.7%	4,202	3.8%	4,554	4.1%	4,929	4.3%	5,310	4.5%
	Other	280	0.3%	272	0.2%	267	0.2%	253	0.2%	248	0.2%
	Subtotal	106,964	88.1%	109,315	88.2%	111,112	88.1%	113,555	88.2%	116,776	88.2%
Female adult or adolescent (≥12 years old at year end)	Injection drug use	2,951	20.7%	2,890	19.9%	2,838	19.1%	2,781	18.4%	2,772	17.9%
	High-risk heterosexual contact (HRH)	7,584	53.1%	7,691	52.9%	7,800	52.6%	7,886	52.2%	8,011	51.6%
	Heterosexual contact (Non-HRH)	2,510	17.6%	2,662	18.3%	2,864	19.3%	3,041	20.1%	3,271	21.1%
	Perinatal	303	2.1%	315	2.2%	321	2.2%	336	2.2%	352	2.3%
	Unknown risk	774	5.4%	828	5.7%	869	5.9%	912	6.0%	969	6.2%
	Other	150	1.1%	150	1.0%	145	1.0%	140	0.9%	138	0.9%
	Subtotal	14,272	11.8%	14,536	11.7%	14,837	11.8%	15,096	11.7%	15,513	11.7%
Child (<12 years old at year end)	Perinatal	133	88.7%	127	84.1%	121	82.9%	111	84.1%	99	85.3%
	Unknown risk	16	10.7%	23	15.2%	24	16.4%	20	15.2%	15	12.9%
	Other	1	0.0%	1	0.0%	1	0.0%	1	0.0%	2	1.7%
	Subtotal	150	0.1%	151	0.1%	146	0.1%	132	0.1%	116	0.1%
	Total	121,386		124,002		126,095		128,783		132,405	

Note: Transmission category classified by sex-at-birth. High-risk heterosexual contact (HRH): heterosexual intercourse with a person of the opposite sex-at-birth who has a high risk of HIV (e.g., MSM, IDU). Heterosexual contact (non-high-risk, Non-HRH): heterosexual intercourse with a person of the opposite sex-at-birth who does not have a high risk for HIV. 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, 2012–2016 — California

County of current residence	2012			2013			2014			2015			2016		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	5,718	4.7%	367.8	5,866	4.7%	372.3	6,041	4.8%	377.6	6,191	4.8%	382.2	6,333	4.8%	386.7
Alpine	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.0%	87.1
Amador	57	0.0%	151.0	53	0.0%	141.0	49	0.0%	130.9	48	0.0%	128.6	196	0.1%	527.0
Butte	219	0.2%	98.7	222	0.2%	99.9	231	0.2%	103.2	229	0.2%	102.1	264	0.2%	117.3
Calaveras	28	0.0%	61.8	31	0.0%	68.7	34	0.0%	75.5	39	0.0%	86.9	45	0.0%	100.5
Colusa	4	0.0%	18.4	4	0.0%	18.2	4	0.0%	18.1	4	0.0%	18.0	5	0.0%	22.3
Contra Costa	2,161	1.8%	200.9	2,248	1.8%	206.3	2,302	1.8%	208.7	2,352	1.8%	210.6	2,590	2.0%	229.2
Del Norte	21	0.0%	75.0	19	0.0%	69.0	17	0.0%	62.4	20	0.0%	73.7	22	0.0%	81.4
El Dorado	163	0.1%	90.0	161	0.1%	88.3	164	0.1%	89.8	166	0.1%	90.6	192	0.1%	104.2
Fresno	1,573	1.3%	165.5	1,662	1.3%	173.2	1,731	1.4%	178.6	1,787	1.4%	182.5	1,891	1.4%	191.2
Glenn	12	0.0%	42.1	12	0.0%	41.8	12	0.0%	41.6	13	0.0%	44.9	18	0.0%	61.9
Humboldt	179	0.1%	132.7	181	0.1%	134.2	188	0.1%	139.5	219	0.2%	162.1	238	0.2%	174.9
Imperial	241	0.2%	134.3	248	0.2%	137.5	259	0.2%	141.4	270	0.2%	145.7	288	0.2%	153.9
Inyo	14	0.0%	75.4	13	0.0%	69.9	18	0.0%	96.6	17	0.0%	91.2	25	0.0%	134.1
Kern	1,572	1.3%	183.2	1,540	1.2%	177.3	1,588	1.3%	181.1	1,651	1.3%	186.9	1,607	1.2%	180.8
Kings	160	0.1%	106.7	169	0.1%	112.5	166	0.1%	111.1	166	0.1%	110.9	172	0.1%	115.1
Lake	91	0.1%	140.3	95	0.1%	146.6	101	0.1%	154.9	136	0.1%	208.7	147	0.1%	225.7
Lassen	26	0.0%	78.8	23	0.0%	71.2	22	0.0%	69.1	25	0.0%	80.7	24	0.0%	78.3
Los Angeles	47,650	39.3%	477.1	49,259	39.7%	489.9	50,550	40.1%	499.3	51,013	39.6%	500.8	50,700	38.3%	495.6
Madera	162	0.1%	107.4	154	0.1%	101.2	180	0.1%	116.7	179	0.1%	115.5	188	0.1%	120.8
Marin	782	0.6%	305.7	794	0.6%	307.1	903	0.7%	345.9	863	0.7%	329.3	863	0.7%	327.8
Mariposa	21	0.0%	115.2	19	0.0%	104.7	18	0.0%	99.3	19	0.0%	105.0	20	0.0%	110.8
Mendocino	172	0.1%	195.5	169	0.1%	191.9	180	0.1%	203.3	176	0.1%	199.0	182	0.1%	204.5
Merced	178	0.1%	67.7	180	0.1%	68.0	186	0.1%	69.5	204	0.2%	75.6	267	0.2%	97.9
Modoc	1	0.0%	10.4	1	0.0%	10.4	2	0.0%	20.9	2	0.0%	21.0	2	0.0%	21.1
Mono	6	0.0%	42.5	3	0.0%	21.6	2	0.0%	14.4	5	0.0%	36.2	7	0.0%	50.8
Monterey	632	0.5%	149.1	642	0.5%	150.5	669	0.5%	155.7	669	0.5%	153.4	698	0.5%	158.2
Napa	181	0.1%	130.5	183	0.1%	131.4	194	0.2%	137.9	242	0.2%	171.0	267	0.2%	187.7
Nevada	74	0.1%	75.5	79	0.1%	80.8	82	0.1%	83.4	90	0.1%	91.7	118	0.1%	119.7
Orange	6,927	5.7%	224.6	6,968	5.6%	224.0	7,112	5.6%	226.7	7,232	5.6%	228.8	7,245	5.5%	227.7
Placer	223	0.2%	62.0	230	0.2%	63.1	239	0.2%	64.9	237	0.2%	63.9	330	0.2%	87.7
Plumas	8	0.0%	40.2	8	0.0%	40.5	8	0.0%	40.6	13	0.0%	66.4	16	0.0%	82.1
Riverside	5,522	4.5%	245.1	5,733	4.6%	251.8	5,957	4.7%	258.3	6,661	5.2%	286.0	8,096	6.1%	342.9
Sacramento	3,648	3.0%	252.4	3,747	3.0%	257.4	3,821	3.0%	259.3	3,785	2.9%	254.0	4,344	3.3%	288.3
San Benito	41	0.0%	72.8	39	0.0%	68.7	38	0.0%	66.5	39	0.0%	67.7	40	0.0%	68.9
San Bernardino	3,238	2.7%	155.9	3,276	2.6%	156.6	3,399	2.7%	160.9	3,519	2.7%	165.2	4,161	3.1%	193.7
San Diego	12,420	10.2%	391.2	12,574	10.1%	391.8	12,872	10.2%	396.2	12,951	10.1%	395.4	13,725	10.4%	415.8
San Francisco	14,748	12.1%	1771.3	14,653	11.8%	1736.7	13,608	10.8%	1593.9	14,149	11.0%	1639.3	13,400	10.1%	1538.1
San Joaquin	1,131	0.9%	161.5	1,211	1.0%	171.6	1,328	1.1%	185.2	1,369	1.1%	188.2	1,352	1.0%	183.0
San Luis Obispo	646	0.5%	237.0	654	0.5%	239.1	605	0.5%	219.1	526	0.4%	190.0	426	0.3%	152.7
San Mateo	1,437	1.2%	194.0	1,457	1.2%	194.6	1,492	1.2%	197.3	1,504	1.2%	196.8	1,530	1.2%	199.2
Santa Barbara	560	0.5%	130.1	572	0.5%	131.4	605	0.5%	137.5	613	0.5%	137.8	618	0.5%	137.8
Santa Clara	3,422	2.8%	186.0	3,430	2.8%	183.8	3,487	2.8%	184.4	3,510	2.7%	183.3	3,370	2.5%	174.6
Santa Cruz	445	0.4%	166.2	445	0.4%	164.6	463	0.4%	170.4	501	0.4%	182.4	520	0.4%	188.2
Shasta	204	0.2%	114.6	207	0.2%	115.8	211	0.2%	117.7	203	0.2%	113.5	211	0.2%	118.4
Sierra	1	0.0%	31.2	1	0.0%	31.4	2	0.0%	63.3	4	0.0%	127.1	6	0.0%	191.1
Siskiyou	37	0.0%	82.7	37	0.0%	82.9	38	0.0%	85.2	45	0.0%	101.1	60	0.0%	135.2
Solano	1,137	0.9%	272.4	1,159	0.9%	275.5	1,200	1.0%	282.1	1,273	1.0%	296.6	1,327	1.0%	305.7
Sonoma	1,249	1.0%	255.0	1,265	1.0%	255.9	1,299	1.0%	260.9	1,312	1.0%	261.8	1,523	1.2%	302.2
Stanislaus	556	0.5%	106.2	561	0.5%	106.3	602	0.5%	113.2	636	0.5%	118.1	707	0.5%	129.7
Sutter	76	0.1%	79.1	79	0.1%	81.8	79	0.1%	81.4	77	0.1%	78.9	85	0.1%	86.6
Tehama	41	0.0%	64.4	42	0.0%	65.9	39	0.0%	61.1	37	0.0%	57.8	47	0.0%	73.3
Trinity	13	0.0%	94.9	14	0.0%	102.4	15	0.0%	110.2	16	0.0%	118.0	18	0.0%	133.5
Tulare	292	0.2%	64.6	310	0.2%	68.0	332	0.3%	72.2	368	0.3%	79.4	429	0.3%	91.6
Tuolumne	38	0.0%	69.0	36	0.0%	65.6	38	0.0%	69.5	39	0.0%	71.5	44	0.0%	81.1
Ventura	947	0.8%	113.2	970	0.8%	115.1	1,004	0.8%	118.4	1,045	0.8%	122.7	1,033	0.8%	120.9
Yolo	222	0.2%	108.1	232	0.2%	111.4	245	0.2%	116.8	257	0.2%	120.8	282	0.2%	130.0
Yuba	59	0.0%	80.0	62	0.0%	83.4	64	0.1%	85.4	67	0.1%	88.6	90	0.1%	118.2
Total	121,386		319.1	124,002		323.1	126,095		325.5	128,783		329.7	132,405		336.4
Berkeley city	441	0.4%	382.1	455	0.4%	388.7	479	0.4%	403.4	495	0.4%	410.4	503	0.4%	414.9
Long Beach city	4,601	3.8%	983.5	4,668	3.8%	995.0	4,677	3.7%	994.2	4,674	3.6%	991.4	4,581	3.5%	974.4
Pasadena city	563	0.5%	406.9	588	0.5%	421.1	604	0.5%	431.7	597	0.5%	422.1	582	0.4%	409.7

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 LHM numbers). All counts are based on the availability of resident county in the database at the end of evaluation year.

California HIV Surveillance Report — 2016

Table 2d. Continuum of HIV care for persons living with diagnosed HIV infection, 2016 — California

Jurisdiction of residence (by name)	No. people living and diagnosed with HIV		Virally suppressed		
	N	%	N	%	
2021 California Integrated Plan Objective		90.0%		80.0%	
California	132,405	96,860	73.2%	82,863	62.6%
Alameda	6,333	5,011	79.1%	4,377	69.1%
Alpine	1	1	100.0%	1	100.0%
Amador	196	187	95.4%	179	91.3%
Berkeley	503	407	80.9%	368	73.2%
Butte	264	219	83.0%	199	75.4%
Calaveras	45	36	80.0%	25	55.6%
Colusa	5	4	80.0%	4	80.0%
Contra Costa	2,590	2,129	82.2%	1,886	72.8%
Del Norte	22	17	77.3%	17	77.3%
El Dorado	192	156	81.3%	141	73.4%
Fresno	1,891	1,488	78.7%	1,213	64.1%
Glenn	18	16	88.9%	15	83.3%
Humboldt	238	183	76.9%	159	66.8%
Imperial	288	179	62.2%	151	52.4%
Inyo	25	18	72.0%	16	64.0%
Kern	1,607	915	56.9%	706	43.9%
Kings	172	111	64.5%	100	58.1%
Lake	147	131	89.1%	118	80.3%
Lassen	24	14	58.3%	14	58.3%
Long Beach	4,581	3,220	70.3%	2,775	60.6%
Los Angeles	50,700	35,351	69.7%	30,358	59.9%
Madera	188	132	70.2%	108	57.4%
Marin	863	642	74.4%	591	68.5%
Mariposa	20	18	90.0%	14	70.0%
Mendocino	182	146	80.2%	131	72.0%
Merced	267	214	80.1%	164	61.4%
Modoc	2	2	100.0%	2	100.0%
Mono	7	6	85.7%	6	85.7%
Monterey	698	513	73.5%	428	61.3%
Napa	267	214	80.1%	195	73.0%
Nevada	118	100	84.7%	79	66.9%
Orange	7,245	4,830	66.7%	4,214	58.2%
Pasadena	582	450	77.3%	400	68.7%
Placer	330	284	86.1%	257	77.9%
Plumas	16	14	87.5%	11	68.8%
Riverside	8,096	6,605	81.6%	5,724	70.7%
Sacramento	4,344	3,510	80.8%	2,977	68.5%
San Benito	40	25	62.5%	23	57.5%
San Bernardino	4,161	2,799	67.3%	2,136	51.3%
San Diego	13,725	9,450	68.9%	7,754	56.5%
San Francisco	13,400	10,934	81.6%	9,872	73.7%
San Joaquin	1,352	962	71.2%	684	50.6%
San Luis Obispo	426	246	57.7%	126	29.6%
San Mateo	1,530	1,123	73.4%	873	57.1%
Santa Barbara	618	456	73.8%	400	64.7%

Table 2d. Continuum of HIV care for persons living with diagnosed HIV infection, 2016 — California (continued)

Jurisdiction of residence (by name)	No. people living and diagnosed with HIV		In care		Virally suppressed	
	N	%	N	%	N	%
Santa Clara	3,370		2,428	72.0%	2,044	60.7%
Santa Cruz	520		422	81.2%	338	65.0%
Shasta	211		173	82.0%	148	70.1%
Sierra	6		6	100.0%	6	100.0%
Siskiyou	60		52	86.7%	43	71.7%
Solano	1,327		1,012	76.3%	903	68.0%
Sonoma	1,523		1,279	84.0%	1,175	77.2%
Stanislaus	707		567	80.2%	465	65.8%
Sutter	85		63	74.1%	51	60.0%
Tehama	47		39	83.0%	32	68.1%
Trinity	18		13	72.2%	13	72.2%
Tulare	429		321	74.8%	253	59.0%
Tuolumne	44		29	65.9%	23	52.3%
Ventura	1,033		766	74.2%	674	65.2%
Yolo	282		223	79.1%	187	66.3%
Yuba	90		76	84.4%	60	66.7%

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 \leq 200 copies/ml were considered to be virally suppressed.

Table 3a. Deaths among persons with diagnosed HIV infection, by year and selected demographic characteristics, 2012–2016 — California

Characteristic	2012			2013			2014			2015			2016				
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate		
Age at death (in years)	0 to 11	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	1	0.1%	0.1	0	0.0%	0.0	1	0.1%	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	11	0.7%	0.4	8	0.5%	0.3	10	0.6%	0.3	11	0.6%	0.4	10	0.6%	0.3	
	25 to 29	28	1.7%	1.1	48	2.8%	1.8	27	1.5%	1.1	27	1.5%	1.1	42	2.4%	1.7	
	30 to 34	61	3.6%	2.3	59	3.4%	2.2	50	2.9%	1.8	70	3.9%	2.5	63	3.7%	2.3	
	35 to 39	97	5.8%	3.9	83	4.8%	3.3	78	4.5%	3.1	91	5.1%	3.5	103	6.0%	3.9	
	40 to 44	157	9.3%	5.9	140	8.1%	5.3	130	7.4%	5.0	136	7.6%	5.3	92	5.4%	3.6	
	45 to 49	253	15.0%	9.7	272	15.8%	10.5	254	14.5%	9.8	200	11.2%	7.7	195	11.4%	7.4	
	50 to 54	340	20.2%	13.0	294	17.1%	11.1	328	18.8%	12.4	317	17.8%	12.0	288	16.8%	11.0	
	55 to 59	266	15.8%	11.3	297	17.3%	12.3	305	17.4%	12.4	345	19.4%	13.8	313	18.2%	12.3	
	60 to 64	213	12.7%	10.8	222	12.9%	11.0	257	14.7%	12.4	237	13.3%	11.0	257	15.0%	11.6	
	65 to 74	195	11.6%	7.6	215	12.5%	7.9	239	13.7%	8.3	260	14.6%	8.6	261	15.2%	8.3	
≥ 75	60	3.6%	2.9	82	4.8%	3.9	69	3.9%	3.2	86	4.8%	3.8	94	5.5%	4.1		
Race/ethnicity	Hispanic/Latino	424	25.2%	2.9	447	26.0%	3.0	465	26.6%	3.1	452	25.4%	3.0	418	24.3%	2.7	
	American Indian/Alaska Native	3	0.2%	1.8	9	0.5%	5.5	3	0.2%	1.8	4	0.2%	2.4	4	0.2%	2.4	
	Asian	24	1.4%	0.5	21	1.2%	0.4	26	1.5%	0.5	37	2.1%	0.7	30	1.7%	0.6	
	Black/African American	352	20.9%	15.9	358	20.8%	16.1	369	21.1%	16.5	404	22.7%	18.0	406	23.6%	18.0	
	Native Hawaiian/Other Pacific Islander	1	0.1%	0.8	4	0.2%	3.0	0	0.0%	0.0	3	0.2%	2.3	2	0.1%	1.5	
	White	797	47.4%	5.3	788	45.8%	5.2	791	45.3%	5.2	785	44.1%	5.2	761	44.3%	5.0	
	Multiple races	82	4.9%	8.4	93	5.4%	9.2	94	5.4%	9.0	95	5.3%	8.8	97	5.6%	8.7	
	Gender	Male	1,420	84.4%	7.5	1,471	85.5%	7.7	1,502	85.9%	7.8	1,539	86.5%	7.9	1,464	85.2%	7.5
	Female	241	14.3%	1.3	225	13.1%	1.2	223	12.8%	1.1	217	12.2%	1.1	224	13.0%	1.1	
Transgender: Male-to-Female	22	1.3%	-	23	1.3%	-	23	1.3%	-	22	1.2%	-	30	1.7%	-		
Transgender: Female-to-Male	0	0.00%	-	1	0.06%	-	0	0.0%	-	1	0.1%	-	0	0.0%	-		
Alternative Gender Identity	0	0.00%	-	0	0.00%	-	0	0.0%	-	1	0.1%	-	0	0.0%	-		
Total	1,683		4.4	1,720		4.5	1,748		4.5	1,780		4.6	1,718		4.4		

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.

Table 3b. Deaths among persons with diagnosed HIV infection, by year and transmission category, 2012–2016 — California

Demographic group	Transmission category	2012		2013		2014		2015		2016	
		N	%	N	%	N	%	N	%	N	%
Male adult or adolescent (≥12 years old at death)	Male-to-male sexual contact (MSM)	897	62.2%	958	64.1%	981	64.3%	965	61.8%	925	61.9%
	Injection drug use (IDU)	164	11.4%	167	11.2%	143	9.4%	159	10.2%	143	9.6%
	MSM and IDU	206	14.3%	203	13.6%	234	15.3%	244	15.6%	214	14.3%
	High-risk heterosexual contact (HRH)	46	3.2%	52	3.5%	48	3.1%	60	3.8%	53	3.5%
	Heterosexual contact (Non-HRH)	42	2.9%	52	3.5%	46	3.0%	48	3.1%	61	4.1%
	Perinatal	5	0.3%	2	0.1%	2	0.1%	2	0.1%	5	0.3%
	Unknown risk	75	5.2%	54	3.6%	67	4.4%	75	4.8%	88	5.9%
	Other	7	0.5%	6	0.4%	4	0.3%	9	0.6%	5	0.3%
	Subtotal	1,442	85.7%	1,494	86.9%	1,525	87.2%	1,562	87.8%	1,494	87.0%
Female adult or adolescent (≥12 years old at death)	Injection drug use	91	37.8%	108	47.8%	95	42.6%	95	43.6%	75	33.5%
	High-risk heterosexual contact (HRH)	89	36.9%	79	35.0%	85	38.1%	75	34.4%	95	42.4%
	Heterosexual contact (Non-HRH)	37	15.4%	26	11.5%	26	11.7%	30	13.8%	34	15.2%
	Perinatal	3	1.2%	0	0.0%	0	0.0%	2	0.9%	2	0.9%
	Unknown risk	19	7.9%	13	5.8%	16	7.2%	13	6.0%	16	7.1%
	Other	2	0.8%	0	0.0%	1	0.4%	3	1.4%	2	0.9%
	Subtotal	241	14.3%	226	13.1%	223	12.8%	218	12.2%	224	13.0%
Child (<12 years old at year end)	Perinatal	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Unknown risk	0	0.0%	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	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Total	1,683		1,720		1,748		1,780		1,718	

Note: Transmission category classified by sex-at-birth. High-risk heterosexual contact (HRH): heterosexual intercourse with a person of the opposite sex-at-birth who has a high risk of HIV (e.g., MSM, IDU). Heterosexual contact (non-high-risk, Non-HRH): heterosexual intercourse with a person of the opposite sex-at-birth who does not have a high risk for HIV. Other includes hemophilia, blood transfusion, and risk factor not reported or not identified.

Table 3c. Deaths among persons with diagnosed HIV infection, by year and local health jurisdiction of residence, 2012–2016 — California

County of residence at death	2012			2013			2014			2015			2016		
	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate	N	%	Rate
Alameda	75	4.5%	4.8	93	5.4%	5.9	77	4.4%	4.8	82	4.6%	5.1	74	4.3%	4.5
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	2	0.1%	5.3	1	0.1%	2.7	2	0.1%	5.4	2	0.1%	5.4
Butte	8	0.5%	3.6	5	0.3%	2.2	8	0.5%	3.6	9	0.5%	4.0	12	0.7%	5.3
Calaveras	0	0.0%	0.0	1	0.1%	2.2	1	0.1%	2.2	0	0.0%	0.0	0	0.0%	0.0
Colusa	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	4.5
Contra Costa	26	1.5%	2.4	21	1.2%	1.9	22	1.3%	2.0	40	2.2%	3.6	36	2.1%	3.2
Del Norte	1	0.1%	3.6	1	0.1%	3.6	1	0.1%	3.7	1	0.1%	3.7	1	0.1%	3.7
El Dorado	0	0.0%	0.0	4	0.2%	2.2	2	0.1%	1.1	2	0.1%	1.1	2	0.1%	1.1
Fresno	28	1.7%	2.9	40	2.3%	4.2	34	1.9%	3.5	35	2.0%	3.6	39	2.3%	3.9
Glenn	0	0.0%	0.0	0	0.0%	0.0	2	0.1%	6.9	0	0.0%	0.0	0	0.0%	0.0
Humboldt	5	0.3%	3.7	6	0.3%	4.4	2	0.1%	1.5	9	0.5%	6.7	7	0.4%	5.1
Imperial	2	0.1%	1.1	5	0.3%	2.8	7	0.4%	3.8	1	0.1%	0.5	3	0.2%	1.6
Inyo	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	5.4	0	0.0%	0.0
Kern	25	1.5%	2.9	28	1.6%	3.2	24	1.4%	2.7	23	1.3%	2.6	27	1.6%	3.0
Kings	1	0.1%	0.7	0	0.0%	0.0	2	0.1%	1.3	0	0.0%	0.0	1	0.1%	0.7
Lake	7	0.4%	10.8	0	0.0%	0.0	3	0.2%	4.6	1	0.1%	1.5	6	0.3%	9.2
Lassen	1	0.1%	3.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Los Angeles	589	35.0%	5.9	635	36.9%	6.3	664	38.0%	6.6	689	38.7%	6.8	591	34.4%	5.8
Madera	3	0.2%	2.0	7	0.4%	4.6	2	0.1%	1.3	0	0.0%	0.0	3	0.2%	1.9
Marin	15	0.9%	5.9	7	0.4%	2.7	10	0.6%	3.8	17	1.0%	6.5	12	0.7%	4.6
Mariposa	0	0.0%	0.0	2	0.1%	11.0	0	0.0%	0.0	0	0.0%	0.0	1	0.1%	5.5
Mendocino	3	0.2%	3.4	2	0.1%	2.3	3	0.2%	3.4	0	0.0%	0.0	4	0.2%	4.5
Merced	4	0.2%	1.5	2	0.1%	0.8	8	0.5%	3.0	4	0.2%	1.5	9	0.5%	3.3
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	0	0.0%	0.0
Monterey	15	0.9%	3.5	8	0.5%	1.9	7	0.4%	1.6	10	0.6%	2.3	10	0.6%	2.3
Napa	3	0.2%	2.2	4	0.2%	2.9	2	0.1%	1.4	4	0.2%	2.8	4	0.2%	2.8
Nevada	2	0.1%	2.0	1	0.1%	1.0	2	0.1%	2.0	2	0.1%	2.0	2	0.1%	2.0
Orange	86	5.1%	2.8	71	4.1%	2.3	75	4.3%	2.4	84	4.7%	2.7	73	4.2%	2.3
Placer	3	0.2%	0.8	3	0.2%	0.8	6	0.3%	1.6	6	0.3%	1.6	7	0.4%	1.9
Plumas	0	0.0%	0.0	1	0.1%	5.1	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Riverside	106	6.3%	4.7	99	5.8%	4.3	112	6.4%	4.9	111	6.2%	4.8	121	7.0%	5.1
Sacramento	61	3.6%	4.2	52	3.0%	3.6	62	3.5%	4.2	47	2.6%	3.2	84	4.9%	5.6
San Benito	2	0.1%	3.6	2	0.1%	3.5	0	0.0%	0.0	1	0.1%	1.7	2	0.1%	3.4
San Bernardino	59	3.5%	2.8	61	3.5%	2.9	72	4.1%	3.4	61	3.4%	2.9	55	3.2%	2.6
San Diego	135	8.0%	4.3	147	8.5%	4.6	119	6.8%	3.7	126	7.1%	3.8	136	7.9%	4.1
San Francisco	215	12.8%	25.8	220	12.8%	26.1	185	10.6%	21.7	217	12.2%	25.1	180	10.5%	20.7
San Joaquin	29	1.7%	4.1	28	1.6%	4.0	32	1.8%	4.5	32	1.8%	4.4	29	1.7%	3.9
San Luis Obispo	8	0.5%	2.9	10	0.6%	3.7	9	0.5%	3.3	6	0.3%	2.2	4	0.2%	1.4
San Mateo	15	0.9%	2.0	12	0.7%	1.6	20	1.1%	2.6	14	0.8%	1.8	16	0.9%	2.1
Santa Barbara	13	0.8%	3.0	8	0.5%	1.8	11	0.6%	2.5	5	0.3%	1.1	8	0.5%	1.8
Santa Clara	35	2.1%	1.9	41	2.4%	2.2	41	2.3%	2.2	46	2.6%	2.4	36	2.1%	1.9
Santa Cruz	11	0.7%	4.1	5	0.3%	1.8	6	0.3%	2.2	3	0.2%	1.1	6	0.3%	2.2
Shasta	5	0.3%	2.8	6	0.3%	3.4	7	0.4%	3.9	6	0.3%	3.4	6	0.3%	3.4
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	0	0.0%	0.0	1	0.1%	2.2	0	0.0%	0.0	1	0.1%	2.3
Solano	20	1.2%	4.8	21	1.2%	5.0	29	1.7%	6.8	12	0.7%	2.8	23	1.3%	5.3
Sonoma	14	0.8%	2.9	12	0.7%	2.4	25	1.4%	5.0	22	1.2%	4.4	17	1.0%	3.4
Stanislaus	15	0.9%	2.9	17	1.0%	3.2	18	1.0%	3.4	15	0.8%	2.8	18	1.0%	3.3
Sutter	1	0.1%	1.0	0	0.0%	0.0	2	0.1%	2.1	2	0.1%	2.0	3	0.2%	3.1
Tehama	0	0.0%	0.0	1	0.1%	1.6	1	0.1%	1.6	0	0.0%	0.0	0	0.0%	0.0
Trinity	1	0.1%	7.3	1	0.1%	7.3	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Tulare	6	0.4%	1.3	8	0.5%	1.8	8	0.5%	1.7	11	0.6%	2.4	17	1.0%	3.6
Tuolumne	2	0.1%	3.6	3	0.2%	5.5	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0
Ventura	23	1.4%	2.7	10	0.6%	1.2	20	1.1%	2.4	15	0.8%	1.8	24	1.4%	2.8
Yolo	3	0.2%	1.5	5	0.3%	2.4	2	0.1%	1.0	4	0.2%	1.9	3	0.2%	1.4
Yuba	1	0.1%	1.4	2	0.1%	2.7	1	0.1%	1.3	2	0.1%	2.6	2	0.1%	2.6
Total	1,683		4.4	1,720		4.5	1,748		4.5	1,780		4.6	1,718		4.4
Berkeley city	2	0.1%	1.7	9	0.5%	7.7	5	0.3%	4.2	5	0.3%	4.1	7	0.4%	5.8
Long Beach city	64	3.8%	13.7	75	4.4%	16.0	63	3.6%	13.4	63	3.5%	13.4	65	3.8%	13.8
Pasadena city	10	0.6%	7.2	9	0.5%	6.4	7	0.4%	5.0	12	0.7%	8.5	13	0.8%	9.2

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). All counts are based on the availability of resident county in the database at the time of diagnosis.