
Chronic Hepatitis B, California, 2016

❖ Chronic Hepatitis B in California

- Cases and Rates of Newly Reported Cases, 1989-2016
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Chronic Hepatitis B - Cases and Rates of Newly Reported Cases, California, 1989–2016*

Year	N	Rate
1989	687	2.4
1990	4,410	14.8
1991	7,584	24.9
1992	9,415	30.4
1993	1,391	4.4
1994	3,960	12.6
1995	8,170	25.8
1996	9,002	28.2
1997	11,268	34.7
1998	11,629	35.4
1999	14,027	42.0
2000	15,787	46.4
2001	17,284	50.1
2002	16,101	46.1
2003	14,527	41.0
2004	12,690	35.5
2005	11,932	33.2
2006	13,622	37.6
2007	11,977	32.8
2008	11,281	30.6
2009	11,377	30.7
2010	9,335	25.0
2011	8,842	23.5
2012	8,542	22.5
2013	9,663	25.2
2014	12,418	32.1
2015	10,388	26.6
2016	9,778	24.8

*Cases with a report date of December 31, 2016 or earlier, and reported to California Department of Public Health as of June 30, 2017.

Notes: • Rates are per 100,000 population.

• A total of 287,087 *confirmed and probable* chronic hepatitis B infections were reported from 1989-2016. This does not represent the total number of people living with chronic hepatitis B in California. Additional analysis is needed to determine how many reported chronic hepatitis B cases are currently living.

Source: California Department of Public Health, Sexually Transmitted Diseases (STD) Control Branch, Office of Viral Hepatitis Prevention

Chronic Hepatitis B - Cases and Rates of Newly Reported Cases by Gender and Age, and by Race, California, 2012 - 2016

TOTAL	California Chronic Hepatitis B										Change in Rate from 2012 to 2016 ⁴
	2012		2013		2014		2015		2016		
	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	
	8,542	22.5	9,663	25.2	12,418	32.1	10,388	26.6	9,778	24.8	10%

BY GENDER & AGE	California Chronic Hepatitis B										Change in Rate from 2012 to 2016 ⁴
	2012		2013		2014		2015		2016		
	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	
Female Total	4,227	22.1	4,966	25.7	6,014	30.9	5,103	26.0	4,890	24.7	12%
Ages <5	21	1.7	26	2.1	19	1.6	21	1.7	12	1.0	-41%
5-13	18	0.8	17	0.8	17	0.8	10	0.4	15	0.7	-13%
14-17	41	3.9	34	3.2	36	3.5	34	3.3	39	3.8	-3%
Ages <18	80	1.8	77	1.7	72	1.6	65	1.4	66	1.5	-17%
18-24	285	14.7	286	14.5	307	15.3	255	12.6	241	11.8	-20%
25-34	1,332	51.0	1,443	55.5	1,623	62.6	1,430	55.7	1,390	54.6	7%
35-44	858	33.4	1,060	41.3	1,212	47.3	1,031	40.3	1,038	40.6	22%
45-54	596	22.6	747	28.4	909	34.6	868	33.0	730	27.8	23%
55-64	557	24.9	757	33.0	1,055	45.0	811	33.8	732	29.9	20%
65+	498	19.2	568	21.1	805	28.7	610	20.8	673	22.1	15%
Not Specified	21	-	28	-	31	-	33	-	20	-	-
Male Total	4,284	22.6	4,622	24.2	6,274	32.6	5,247	27.0	4,813	24.6	9%
Ages <5	11	0.9	19	1.5	28	2.2	18	1.4	20	1.6	78%
5-13	25	1.1	21	0.9	22	0.9	16	0.7	18	0.8	-27%
14-17	28	2.5	21	1.9	24	2.2	28	2.6	22	2.0	-20%
Ages <18	64	1.3	61	1.3	74	1.6	62	1.3	60	1.3	0%
18-24	159	7.6	151	7.1	184	8.5	148	6.8	185	8.5	12%
25-34	769	28.0	768	28.0	900	32.8	789	29.0	743	27.4	-2%
35-44	1,077	41.5	1,015	39.1	1,274	49.1	1,160	44.7	1,000	38.4	-7%
45-54	943	36.1	1,087	41.7	1,474	56.4	1,202	45.9	1,101	42.1	17%
55-64	773	37.0	901	42.1	1,357	61.8	1,107	49.1	947	41.1	11%
65+	479	23.6	616	29.0	968	43.6	755	32.5	757	31.3	33%
Not Specified	20	-	23	-	43	-	24	-	20	-	-
Gender Not Specified	30	-	74	-	128	-	37	-	75	-	-

BY RACE/ETHNICITY	California Chronic Hepatitis B									
	2012		2013		2014		2015		2016	
	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³
American Indian/Alaska	12	0.4%	8	0.3%	15	0.3%	15	0.5%	20	0.5%
Asian/Pacific Islander	2,054	71.4%	1,952	69.6%	3,181	72.7%	1,969	65.0%	2,559	65.3%
African American/Black	212	7.4%	174	6.2%	247	5.6%	212	7.0%	250	6.4%
Hispanic/Latino	254	8.8%	251	9.0%	317	7.2%	288	9.5%	437	11.1%
White	344	12.0%	419	14.9%	615	14.1%	545	18.0%	654	16.7%
Other/Multi/Not Specified	5,666	66.3%	6,859	71.0%	8,043	64.8%	7,359	70.8%	5,858	59.9%
California Population										
	Number	Percent ³	Number	Percent ³	Number	Percent ³	Number	Percent ³	Number	Percent ³
American Indian/Alaska	164,836	0.4%	165,083	0.4%	165,401	0.4%	165,508	0.4%	165,634	0.4%
Asian/Pacific Islander	5,067,311	13.7%	5,120,966	13.7%	5,177,252	13.7%	5,221,475	13.7%	5,256,234	13.7%
African American/Black	2,208,790	6.0%	2,220,038	5.9%	2,233,425	5.9%	2,247,328	5.9%	2,260,738	5.9%
Hispanic/Latino	14,551,933	39.3%	14,774,620	39.5%	15,007,149	39.8%	15,214,091	40.1%	15,412,728	40.3%
White	15,069,166	40.7%	15,081,142	40.4%	15,110,702	40.1%	15,132,564	39.8%	15,147,499	39.6%
Other/Multi/Not Specified	979,611	2.6%	1,011,826	2.6%	1,045,796	2.7%	1,079,243	2.8%	1,112,098	2.8%

¹ Overall county rates were calculated using mid-year (July 1) California Department of Finance county population estimates for each year.

² Case counts include five transgender chronic hepatitis B cases newly reported during 2012-2016. Transgender cases are not reflected in totals for male cases, female cases or cases for which gender was unknown. Rates were not calculated for transgender persons because information on transgender identity was not consistently collected during 2012-2016.

³ Percent calculations for race/ethnicity exclude individuals for whom age or race/ethnicity was "Other/Multi/Not Specified" from the denominator. Caution should be used when interpreting percentages by race/ethnicity, since race/ethnicity information was not reported for the majority of chronic viral hepatitis cases during 2012-2016.

⁴ Positive percent changes in rates of newly reported chronic hepatitis B from 2012-2016 are highlighted red.

Notes: • Rates are per 100,000 population.

• Dash (-) indicates when a rate or percentage was not calculated. Rates by race/ethnicity were not calculated because race/ethnicity was not known for the majority of cases.

• These data do NOT measure prevalence or incidence of chronic viral hepatitis infections in California due to the asymptomatic nature of chronic hepatitis B infections, varied levels of completeness of surveillance reporting, and because it remains unknown how many of the cases described in this report are currently living.

Source: California Department of Public Health, Sexually Transmitted Diseases (STD) Control Branch, Office of Viral Hepatitis Prevention

Chronic Hepatitis B - Cases and Rates of Newly Reported Cases by Local Health Jurisdiction, California, 2012-2016

Local Health Jurisdiction (LHJ)	2012		2014		2016		Change in rate from 2012 to 2016	Rank in 2016
	N	Rate	N	Rate	N	Rate		
CALIFORNIA	8,542	22.5	12,418	32.1	9,778	24.8	10%	-
Alameda	628	40.4	89	5.6	118	7.2	-82%	34
Berkeley *	30	25.8	21	17.7	34	28.2	9%	9
Alpine	0	-	0	-	0	-	-	-
Amador	0	-	2	-	3	-	-	-
Butte	16	7.2	12	5.4	13	5.8	-19%	39
Calaveras	2	-	2	-	13	29.0	-	8
Colusa	0	-	0	-	3	-	-	-
Contra Costa	244	22.7	209	18.9	58	5.1	-78%	41
Del Norte	1	-	0	-	0	-	-	-
El Dorado	12	6.6	15	8.2	16	8.7	32%	30
Fresno	169	17.8	140	14.4	156	15.8	-11%	17
Glenn	1	-	1	-	2	-	-	-
Humboldt	12	8.9	8	5.9	7	5.1	-43%	40
Imperial	19	10.6	17	9.3	7	3.7	-65%	42
Inyo	0	-	2	-	0	-	-	-
Kern	66	7.7	90	10.3	117	13.2	71%	24
Kings	24	16.0	25	16.7	14	9.4	-41%	29
Lake	3	-	3	-	9	13.8	-	21
Lassen	7	21.2	3	-	11	35.9	69%	4
Los Angeles	2,280	22.8	6,228	61.5	4,801	46.9	106%	2
Long Beach *	86	18.2	231	48.2	143	29.7	63%	7
Pasadena *	25	17.9	80	56.9	46	32.5	82%	6
Madera	13	8.6	30	19.5	12	7.7	-10%	32
Marin	30	11.7	66	25.3	52	19.8	69%	12
Mariposa	1	-	0	-	0	-	-	-
Mendocino	5	-	8	9.0	10	11.2	-	26
Merced	42	16.0	40	14.9	36	13.2	-18%	23
Modoc	0	-	0	-	0	-	-	-
Mono	0	-	1	-	0	-	-	-
Monterey	52	12.3	52	12.1	47	10.7	-13%	27
Napa	16	11.5	17	12.1	24	16.9	47%	15
Nevada	10	10.2	4	-	6	6.1	-40%	37
Orange	297	9.6	579	18.5	517	16.3	70%	16
Placer	44	12.2	38	10.3	58	15.4	26%	19
Plumas	1	-	2	-	0	-	-	-
Riverside	233	10.3	273	11.8	312	13.2	28%	22
Sacramento	508	35.2	563	38.2	582	38.6	10%	3
San Benito	2	-	0	-	0	-	-	-
San Bernardino	224	10.8	379	17.9	315	14.7	36%	20
San Diego	692	21.8	791	24.3	744	22.5	3%	10
San Francisco	850	102.1	793	92.9	715	82.1	-20%	1
San Joaquin	107	15.3	133	18.5	139	18.8	23%	13
San Luis Obispo	21	7.7	17	6.2	17	6.1	-21%	36
San Mateo	374	50.5	207	27.4	49	6.4	-87%	35
Santa Barbara	23	5.3	28	6.4	34	7.6	43%	33
Santa Clara	1,173	63.7	1,125	59.5	388	20.1	-68%	11
Santa Cruz	33	12.3	26	9.6	29	10.5	-15%	28
Shasta	10	5.6	12	6.7	15	8.4	50%	31
Sierra	0	-	0	-	0	-	-	-
Siskiyou	2	-	4	-	2	-	-	-
Solano	37	8.9	20	4.7	11	2.5	-72%	43
Sonoma	53	10.8	46	9.2	78	15.5	44%	18
Stanislaus	31	5.9	56	10.5	68	12.5	112%	25
Sutter	16	16.7	17	17.5	17	17.3	4%	14
Tehama	2	-	6	9.4	3	-	-	-
Trinity	0	-	0	-	0	-	-	-
Tulare	16	3.5	33	7.2	28	6.0	71%	38
Tuolumne	2	-	3	-	3	-	-	-
Ventura	48	5.7	91	10.7	10	1.2	-79%	44
Yolo	37	18.0	48	22.9	75	34.6	92%	5
Yuba	4	-	10	13.3	4	-	-	-

* City Health Department numbers are included in their respective county totals.

Notes: • Rates are per 100,000 population.

• Dash (-) indicates the rate was not calculated because the local health jurisdiction reported five or fewer cases.

• Positive percent changes in rates of newly reported chronic hepatitis B from 2012-2016 are highlighted red. Caution should be used when interpreting county-specific rates of newly reported cases for counties of population size fewer than 100,000; rates fluctuate widely due to their small population size.

• Variation in resources dedicated to hepatitis B surveillance and classification in each LHJ may affect trends over time and limit comparisons between LHJs.

Source: California Department of Public Health, Sexually Transmitted Diseases (STD) Control Branch, Office of Viral Hepatitis Prevention