

Pertussis Report
8/24/2010

- To date (8/24/2010), there have been **3,311** confirmed, probable and suspect cases of pertussis reported in 2010 for a state rate of **8.5 cases/100,000**. This is a **7-fold increase** from the number of reported cases during the same time period in 2009 when **454** cases were reported (Figure 1).
- This is the most cases reported in 52 years since there were 3,837 cases reported in 1958. Previously, the peak was in 2005 when there were 3,182 cases reported. (Figure 2).
- 169 (12%) cases have been hospitalized (of the 1,393 cases with known hospitalization information). 101 (60%) of hospitalized cases were infants <3 months of age and 127 (75%) were infants <6 months of age.
- 8 deaths have been reported, 7 were in infants <2 months of age at time of disease onset and had not received any doses of pertussis-containing vaccine. One was an ex-28 week preemie that was 2 months of age and had received the first dose of DTaP 11 days prior to disease onset. The majority of infant cases in 2010 have occurred in infants <3 months of age.
- The median case rate by county is 6.9 cases per 100,000 (range 0-114) (Table 1).
- Rates are highest in infants <6 months of age (158 cases/100,000), in adolescents aged 7-9 years (26 cases/100,000) and 10-18 years (20 cases/100,000) (Figure 3).
- Overall rates by race/ethnicity are highest in whites (7.7/100,000), however age-specific rates indicate that the highest rates are seen in Hispanic infants <6 months of age (199/100,000) (Table 2).

Figure 1. Epidemic curve of reported pertussis cases and deaths by month of onset -- California, 2005, 2009-2010*

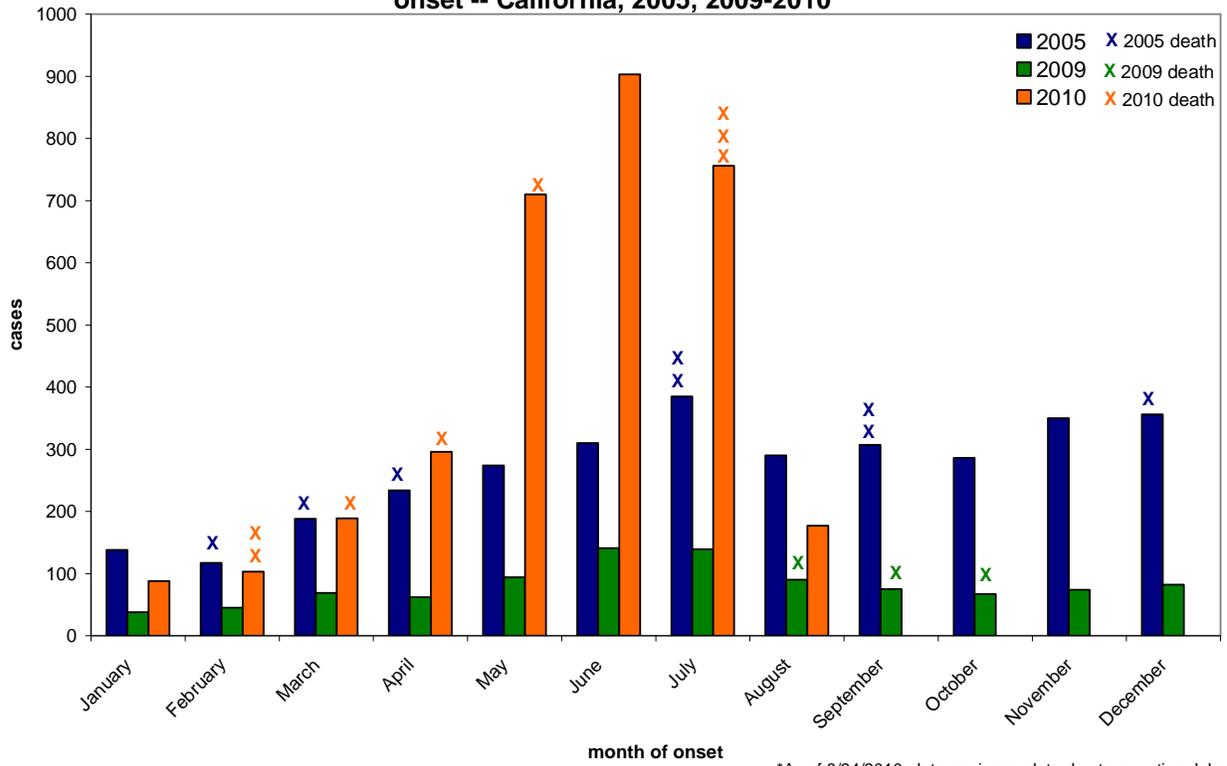


Figure 2. Number of reported pertussis cases by year of onset -- California 1950-2010*

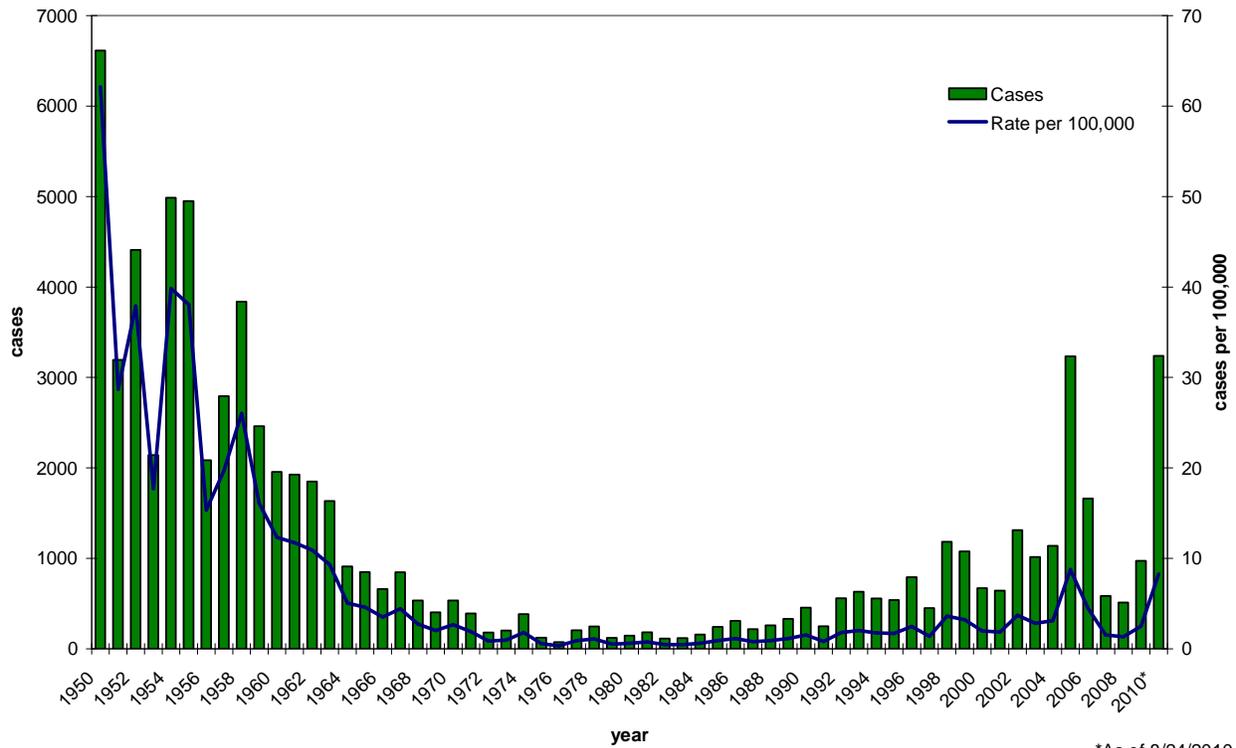


Table 1. Pertussis cases reported to CDPH from January 1 through August 24 by local health jurisdiction -- California, 2009, 2010

	2009		2010	
	Cases	Rate	Cases	Rate
CALIFORNIA	454	1.16	3311	8.46
ALAMEDA	11	0.77	133	9.28
City of Berkeley*	0	0.00	4	3.73
ALPINE	0	0.00	0	0.00
AMADOR	1	2.51	0	0.00
BUTTE	2	0.88	8	3.53
CALAVERAS	7	14.83	6	12.71
COLUSA	0	0.00	7	30.04
CONTRA COSTA	12	1.13	87	8.17
DEL NORTE	0	0.00	16	52.23
EL DORADO	2	1.07	38	20.39
FRESNO	16	1.66	337	34.93
GLENN	0	0.00	0	0.00
HUMBOLDT	12	8.95	12	8.95
IMPERIAL	0	0.00	7	3.79
INYO	0	0.00	2	10.48
KERN	1	0.12	190	22.27
KINGS	3	1.86	16	9.94
LAKE	0	0.00	2	3.00
LA SEN	0	0.00	0	0.00
LOS ANGELES	82	0.84	76	0.78
City of Long Beach*	7	1.42	40	8.12
City of Pasadena*	0	0.00	6	4.00
MADERA	5	3.16	91	57.50
MARIN	8	3.16	280	110.45
MARIPOSA	0	0.00	3	15.84
MENDOCINO	4	4.33	13	14.06
MERCED	4	1.49	67	25.03
MODOC	0	0.00	0	0.00
MONO	0	0.00	1	6.85
MONTEREY	1	0.23	18	4.18
NAPA	3	2.13	14	9.94
NEVADA	0	0.00	4	3.93
ORANGE	10	0.31	220	6.90
PLACER	7	2.05	39	11.45
PLUMAS	0	0.00	2	9.20
RIVERSIDE	25	1.15	123	5.65
SACRAMENTO	16	1.11	61	4.24
SAN BENITO	2	3.20	1	1.60
SAN BERNARDINO	6	0.28	31	1.45
SAN DIEGO	78	2.46	297	9.37
SAN FRANCISCO	20	2.46	56	6.88
SAN JOAQUIN	5	0.69	39	5.39
SAN LUIS OBISPO	0	0.00	306	114.20
SAN MATEO	8	1.09	73	9.94
SANTA BARBARA	17	3.95	28	6.50
SANTA CLARA	10	0.55	152	8.33
SANTA CRUZ	25	9.37	46	17.24
SHASTA	0	0.00	7	3.70
SIERRA	0	0.00	0	0.00
SISKIYOU	1	2.13	7	14.94
SOLANO	2	0.46	4	0.92
SONOMA	12	2.44	149	30.32
STANISLAUS	11	2.00	92	16.75
SUTTER	2	2.00	4	4.00
TEHAMA	1	1.55	1	1.55
TRINITY	0	0.00	0	0.00
TULARE	8	1.75	58	12.70
TUOLUMNE	0	0.00	8	13.69
VENTURA	3	0.35	20	2.36
YOLO	3	1.48	5	2.47
YUBA	1	1.27	4	5.10

*City health jurisdictions not included in county total

Figure 3. Incidence of pertussis cases by race/ethnicity and age -- California, 2010*

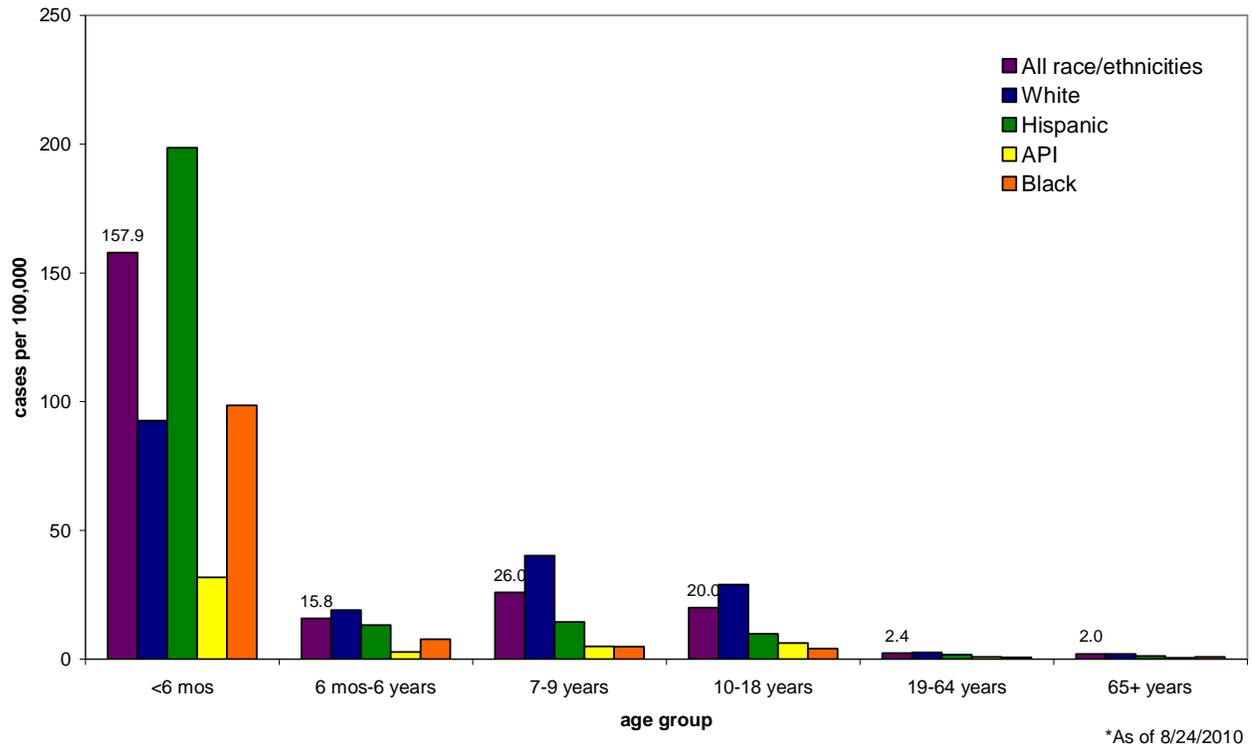


Table 2. Incidence per 100,000 population of reported pertussis cases*, by race/ethnicity and age -- California, January 1 - August 24, 2010

	<6 mos	6 mos-6 yrs	7-9 yrs	10-18 yrs	19-64 yrs	65+ yrs
White	92.6	19.0	40.2	29.0	2.6	2.0
Hispanic	198.6	13.2	14.5	9.9	1.7	1.3
API	31.8	2.8	5.0	6.3	0.9	0.5
Black	98.6	7.7	4.9	4.1	0.7	0.9

*out of 2521 cases with known information