

# **Vaccine Preventable Diseases in Colorado**

## **Surveillance Report: 2006**



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## INTRODUCTION

This report highlights 2006 surveillance data for vaccine preventable diseases in Colorado. Colorado rates in this report were calculated as cases per 100,000 population using 2006-based population final estimates from the Demography Section, Colorado Division of Local Government.

**Table 1. Reported Cases of Vaccine Preventable Diseases\*, Colorado, 2001 - 2006**

Report Year	Invasive H. flu	Hepatitis A	Acute Hepatitis B	Meningococcal Disease	Mumps	Pertussis	Invasive Pneumococcal Disease	Tetanus	Varicella <sup>§</sup>
2001	38	88	99	38	3	389	317	1	NA
2002	36	75	81	24	2	464	391	0	NA
2003	39	59	80	27	1	368	366	0	NA
2004	44	51	59	15	3	1185	332	3	2040 <sup>§</sup>
2005	42	49	63	19	6	1383	421	1	1797
5-Year Average	39.8	64.4	76.4	24.6	3.0	757.8	365.4	1.0	1918.5
2006	51	44	35	22	51	710	422	0	1503

\* During 2002-2006 one case of rubella (2003) and two cases of measles (2004 and 2006) were reported. No congenital rubella, diphtheria, or polio cases were reported during 2002-2006.

<sup>§</sup> Varicella became a reportable disease January 30, 2004.

**Table 2. Reported Cases and Rates of Selected Vaccine Preventable Diseases<sup>¶</sup>, Colorado and United States, 2006**

Disease	Colorado		United States*	
	Cases	Rate <sup>§</sup>	Cases	Rate
Invasive <i>Haemophilus influenzae</i>	51	1.1	2,436	0.8
Hepatitis A	44	0.9	3,579	1.2
Acute Hepatitis B	35	0.7	4,713	1.6
Measles	1	0.02	55	0.02
Meningococcal Disease	22	0.5	1,194	0.4
Mumps	51	1.1	6,584	2.2
Pertussis	710	14.8	15,632	5.3

<sup>¶</sup> National rates of invasive pneumococcal disease and varicella are not available.

<sup>§</sup> Per 100,000 population.

\*Source, MMWR 2007;56:857-860. Rate per 100,000. Rates calculated using the US population from MMWR 2007;56:853.

**DIPHTHERIA**

No diphtheria cases were reported in Colorado or the United States during 2006. The last case of diphtheria reported in Colorado was in 1985.

**HAEMOPHILUS INFLUENZAE**

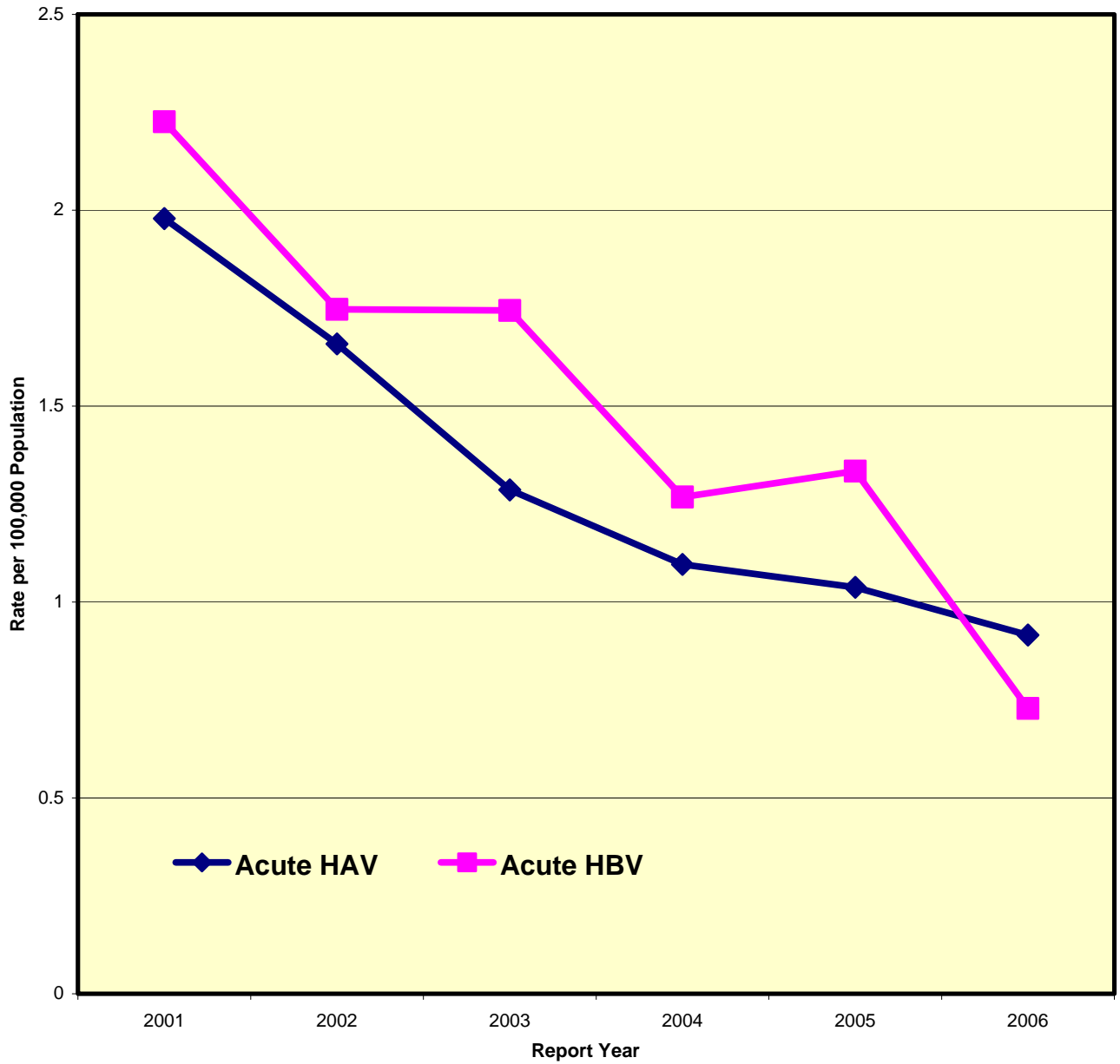
<b>Table 3. Reported Invasive <i>Haemophilus influenzae</i> Cases<sup>§</sup>, Rates and Case Fatality by Age Group, Colorado, 2006</b>				
<b>AGE GROUP (Years)</b>	<b>CASES<sup>§</sup></b>	<b>RATE*</b>	<b>DEATHS</b>	
			<b>Number</b>	<b>Percent of Cases</b>
<b>&lt; 1</b>	3	4.3	1	33.3
<b>1 – 4</b>	5	1.8	0	0
<b>5 – 9</b>	0	0.0	0	0
<b>10 – 14d</b>	2	0.6	0	0
<b>15 – 19</b>	2	0.6	0	0
<b>20 – 39</b>	7	0.5	0	0
<b>40 – 59</b>	10	0.7	2	20.0
<b>60 – 79</b>	12	2.2	0	0
<b>≥ 80</b>	10	8.4	7	70.0
<b>TOTAL</b>	51	1.1	10	19.6

<sup>§</sup> None of the cases were serotype b (i.e., Hib).  
<sup>\*</sup> Per 100,000 population.

Additional invasive *H. flu* disease statistics are available on the CDPHE web page at: [www.cdphe.state.co.us/dc/eip/index.html](http://www.cdphe.state.co.us/dc/eip/index.html).

# HEPATITIS

Figure 1. Rates of Acute Hepatitis A and B, Colorado, 2001 - 2006



## HEPATITIS A

<b>Table 4. Reported Hepatitis A Cases and Rates* by Age Group &amp; Gender, Colorado 2006</b>						
<b>Age Group (years)</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>	
	<b>Cases</b>	<b>Rate</b>	<b>Cases</b>	<b>Rate</b>	<b>Cases</b>	<b>Rate</b>
<b>&lt; 1</b>	0	0.0	0	0.0	0	0.0
<b>1-4</b>	2	1.4	0	0.0	2	0.7
<b>5-9</b>	1	0.6	0	0.0	1	0.3
<b>10-14</b>	0	0.0	1	0.6	1	0.3
<b>15-19</b>	2	1.1	0	0.0	2	0.6
<b>20-39</b>	19	2.6	5	0.8	24	1.7
<b>≥ 40</b>	5	0.5	9	0.8	14	0.7
<b>Total</b>	29	1.2	15	0.6	44	0.9

\* Per 100,000 population.

## ACUTE HEPATITIS B

<b>Table 5. Reported Acute Hepatitis B Cases and Rates* by Age Group &amp; Gender, Colorado, 2006</b>						
<b>Age Group (years)</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>	
	<b>Cases</b>	<b>Rate</b>	<b>Cases</b>	<b>Rate</b>	<b>Cases</b>	<b>Rate</b>
<b>&lt; 15</b>	0	0.0	0	0.0	0	0.0
<b>15-19</b>	0	0.0	0	0.0	0	0.0
<b>20-29</b>	5	1.5	3	1.0	8	1.2
<b>30-39</b>	9	2.5	2	0.6	11	1.6
<b>40-49</b>	6	1.6	1	0.3	7	0.9
<b>50-59</b>	5	1.6	1	0.3	6	1.0
<b>≥ 60</b>	0	0.0	3	0.8	3	0.5
<b>Total</b>	25	1.1	10	0.4	35	0.7

\* Per 100,000 population.

## INFLUENZA

See “Influenza Surveillance Summary, Colorado 2006 - 2007” at:  
[http://www.cdphe.state.co.us/dc/Influenza/Summary\\_Season0607.pdf](http://www.cdphe.state.co.us/dc/Influenza/Summary_Season0607.pdf).

## MEASLES

There was one measles case reported in Colorado during 2006. The case, an unimmunized 13-month-old child, had traveled to India during their exposure period. During the previous five years (2001 – 2005), one measles case was reported (2004).

## MENINGOCOCCAL DISEASE

<b>Table 6. Reported Meningococcal Disease Cases, Rates and Case Fatality by Age Group, Colorado, 2006</b>				
<b>AGE GROUP (Years)</b>	<b>CASES</b>	<b>RATE*</b>	<b>DEATHS</b>	
			<b>Number</b>	<b>Percent of Cases</b>
< 1	3	4.3	0	0
1 – 4	1	0.4	0	0
5 – 9	0	0.0	0	0
10 – 14	0	0.0	0	0
15 – 19	4	1.1	0	0
20 – 29	5	0.7	0	0
30 – 39	1	0.1	1 <sup>§</sup>	100.0
40 – 59	1	0.1	0	0
60 – 79	6	1.1	0	0
≥ 80	1	0.8	0	0
<b>TOTAL</b>	<b>22</b>	<b>0.5</b>	<b>1</b>	<b>4.5</b>

\* Per 100, 000 population.  
 § The one reported meningococcal fatality had serogroup Y.



<b>Table 7. Reported Meningococcal Disease Cases by Serogroup*, Colorado, 2006</b>		
<b>Serogroup</b>	<b>Cases</b>	<b>Percent of cases</b>
<b>B</b>	2	10.5
<b>C</b>	3	15.8
<b>Y</b>	13	68.4
<b>W-135</b>	0	0
<b>Not Groupable</b>	1	5.3
<b>Total</b>	19	100

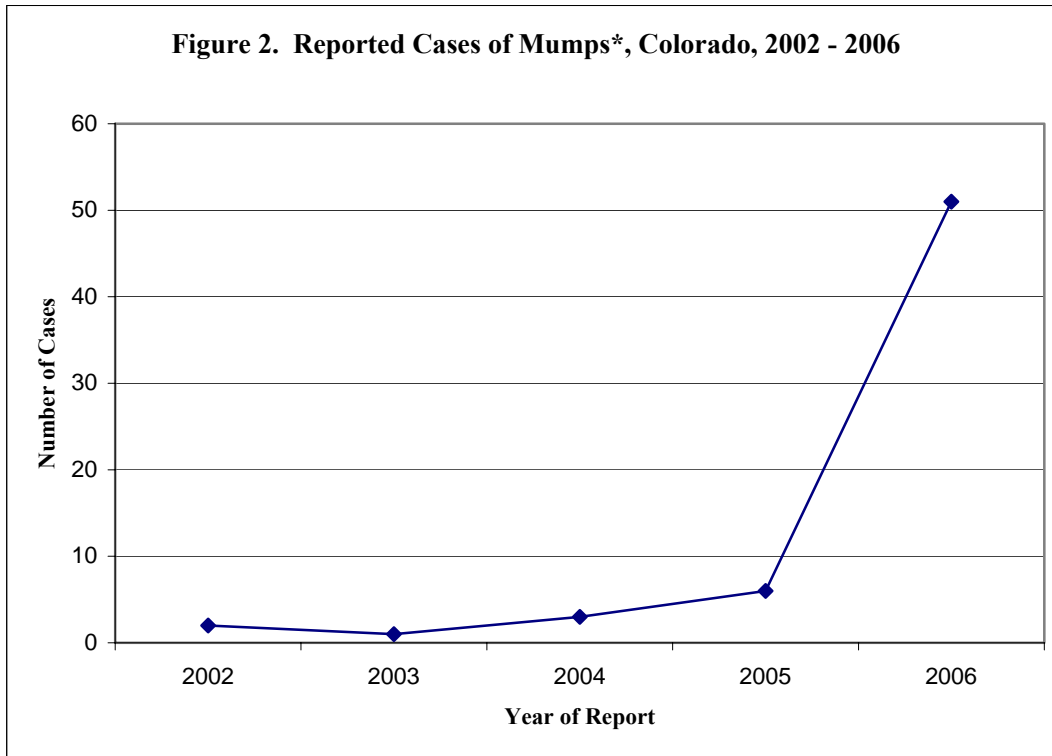
\*Serogroup was unknown for 3 (13.6%) of cases.

<b>Table 8. Reported Meningococcal Cases 11 – 21 Years of Age by Immunization Status* and Serogroup, Colorado, 2006</b>			
<b>Age Group (Years)</b>	<b>Immunization Status</b>		
	<b>Immunized (Serogroup)</b>	<b>Unimmunized (Serogroup)</b>	<b>Unknown (Serogroup)</b>
<b>11 – 18</b>	0	2 (2 Y)	1 (Not tested)
<b>19 – 21</b>	1 (C)	3 (2 Y, 1 C)	0
<b>TOTAL</b>	1 (C)	5 (4 Y, 1C)	1 (Not tested)

\*Meningococcal vaccine contains serogroups A, C, Y and W-135.

Additional invasive meningococcal disease statistics are available on the CDPHE web page at: [www.cdphe.state.co.us/dc/eip/index.html](http://www.cdphe.state.co.us/dc/eip/index.html).

**MUMPS**



\* There were 6,584 mumps cases reported in the United States during 2006. Many of the US cases were part of a multistate mumps outbreak centered in the Midwest. Mumps surveillance in CO was increased as a result of the multistate outbreak.

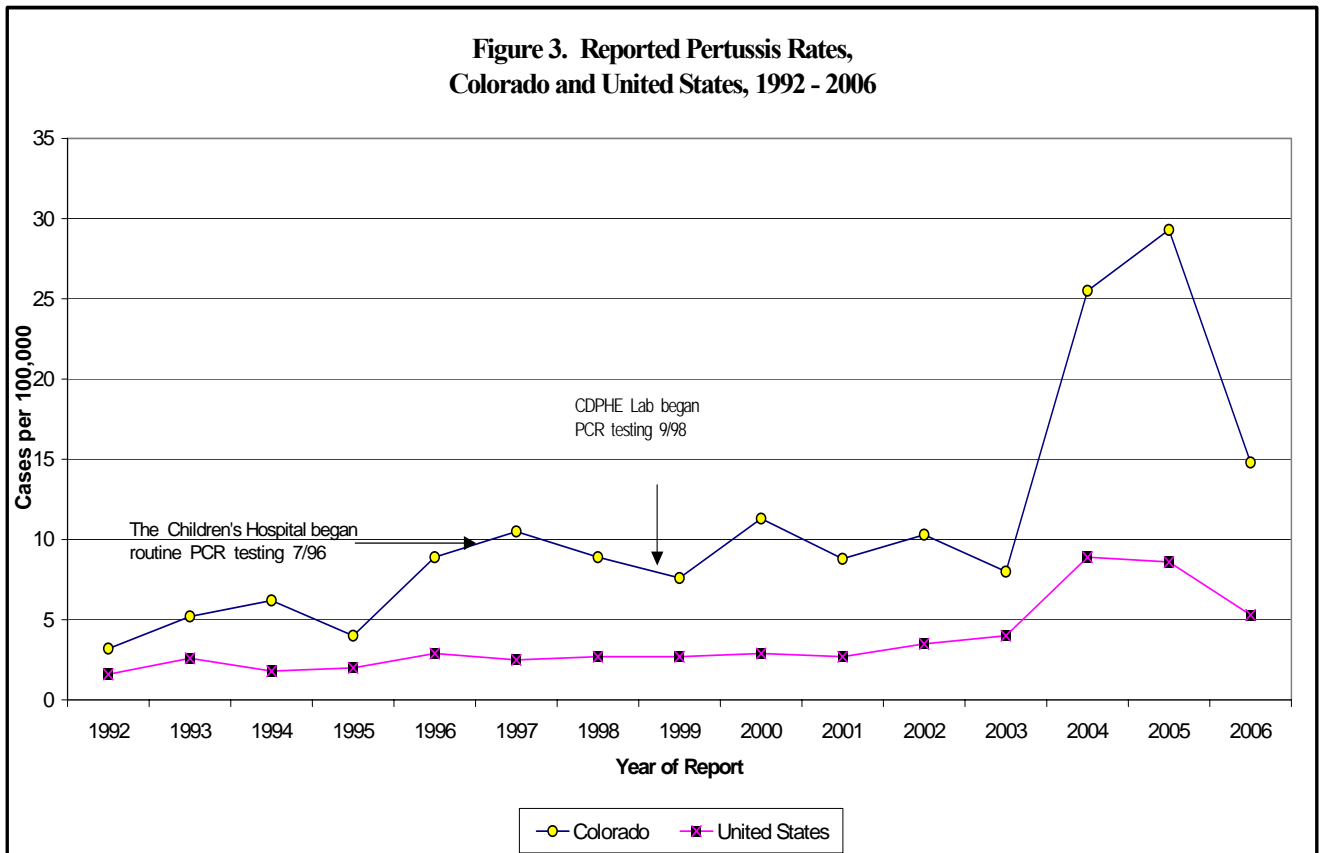
**Table 9. Reported Mumps Cases and Rates by Age Group, Colorado, 2006**

Age Group (Years)	Cases	Percent	Rate *
<1	0	0	0.0
1 - 4	7	13.7	2.5
5 - 9	10	19.6	3.1
10 - 14	4	7.8	1.2
15 - 19	3	5.9	0.9
20 - 29	6	11.8	0.9
30 - 39	3	5.9	1.3
40 - 59	15	29.4	1.1
60+	3	5.9	0.4
<b>TOTAL</b>	<b>51</b>	<b>100.0</b>	<b>1.1</b>

\* Per 100,000 population.

Table 10. Reported Mumps Cases by Age Group and Vaccination Status, Colorado, 2006					
Age Group	Number of Doses of Mumps Vaccine				Total
	0	1	2	Unknown	
< 1	0	0	0	0	0
1 – 4	3	3	0	1	7
5 – 9	2	2	5	1	10
10 – 14	1	0	3	0	4
15 – 19	0	0	3	0	3
20 – 39	1	2	1	5	9
≥ 40	6	1	0	11	18
<b>TOTAL</b>	13	8	12	18	51

## PERTUSSIS



**Table 11. Reported Pertussis Cases and Rates\* by County,  
Colorado, 2002 – 2006**

County	Number of Cases by Year of Report					Average Annual # cases	Average Annual Rate*
	2002	2003	2004	2005	2006		
Adams	44	24	128	119	69	76.8	19.7
Alamosa	1	0	6	1	1	1.8	11.5
Arapahoe	74	59	102	169	68	94.4	17.9
Archuleta	0	0	0	4	0	0.8	*
Bent	0	0	1	0	0	0.2	*
Boulder	31	47	175	115	74	88.4	31.0
Broomfield	10	6	23	16	11	13.2	29.6
Chaffee	0	2	1	9	2	2.8	16.6
Cheyenne	0	1	1	7	0	1.8	83.2
Clear Creek	0	4	3	5	2	2.8	29.5
Conejos	1	0	3	0	0	0.8	*
Costilla	0	1	2	0	0	0.6	*
Delta	6	1	26	5	17	11.0	36.6
Denver	84	39	78	175	40	83.2	14.6
Dolores	0	0	0	2	0	0.4	*
Douglas	10	27	43	55	29	32.8	13.7
Eagle	0	1	1	2	5	1.8	3.8
El Paso	6	15	35	62	18	27.2	4.9
Elbert	5	6	1	12	1	5.0	22.3
Fremont	3	1	3	5	0	2.4	5.1
Garfield	0	0	1	15	12	5.6	11.4
Gilpin	1	0	5	4	4	2.8	57.1
Grand	0	21	10	7	0	7.6	54.5
Huerfano	1	0	0	0	0	0.2	*
Jefferson	122	67	160	287	168	160.8	30.2
Kiowa	0	1	0	0	0	0.2	*
Kit Carson	0	0	1	0	1	0.4	*

Table 11. continues on next page

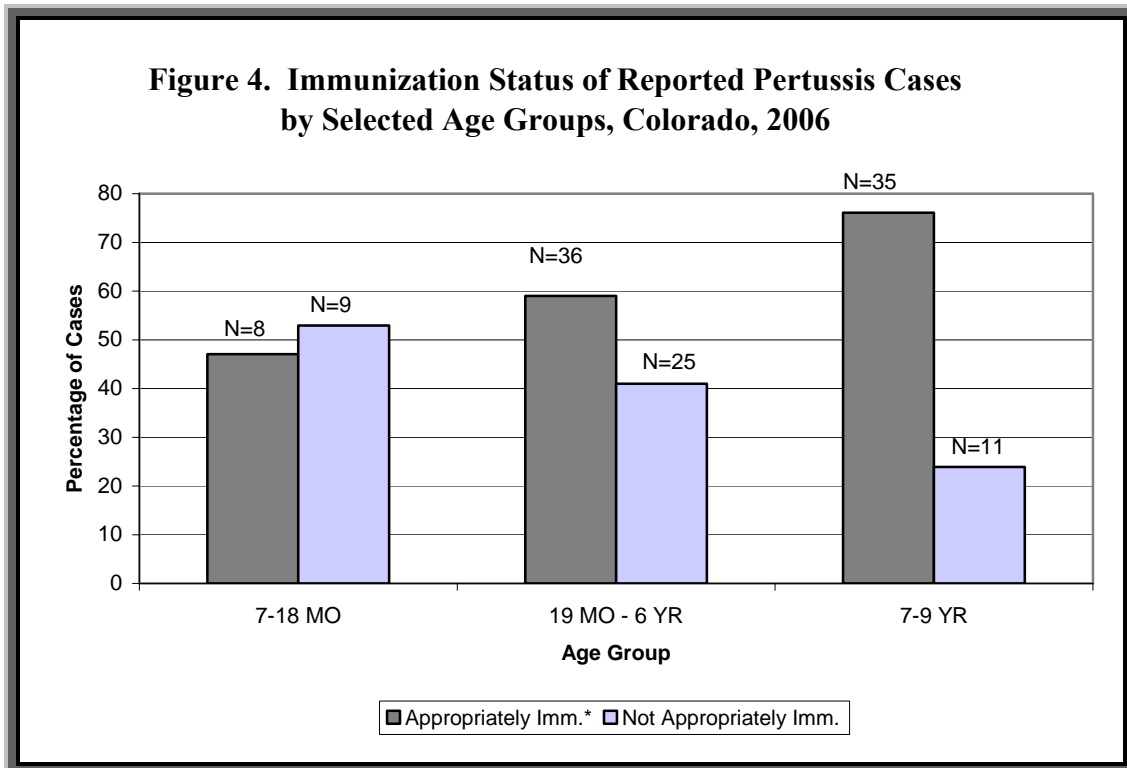
**Table 11. (Continued) Pertussis Cases and Rates\* by County, Colorado,  
2002-2006**

County	Number of Cases by Year of Report					Average Annual # cases	Average Annual Rate*
	2002	2003	2004	2005	2006		
La Plata	0	3	37	32	51	34.6	73.3
Lake	0	0	0	1	0	0.2	*
Larimer	35	8	140	80	29	58.4	21.7
Logan	0	0	2	21	1	4.8	22.0
Mesa	8	3	112	81	9	42.6	33.3
Moffat	0	0	2	0	0	0.4	*
Montezuma	0	0	0	12	10	4.4	17.7
Montrose	0	1	1	3	15	4.0	10.8
Morgan	1	0	4	1	1	1.4	4.9
Otero	0	0	19	1	0	4.0	20.3
Ouray	0	0	4	0	10	2.8	67.0
Park	0	0	0	2	0	0.4	*
Phillips	1	0	0	0	0	0.2	*
Pitkin	0	0	3	1	2	1.2	7.4
Prowers	0	0	3	11	0	2.8	20.0
Pueblo	5	2	27	17	5	11.2	7.5
Rio Blanco	0	0	0	4	0	0.8	*
Rio Grande	1	6	2	4	0	2.6	19.7
Routt	2	0	1	1	1	1.0	4.6
Saguache	4	1	0	0	0	1.0	15.3
San Miguel	0	0	1	0	2	0.6	*
Sedgwick	0	2	0	0	0	0.4	*
Summit	1	1	0	0	1	0.6	*
Teller	0	0	0	10	1	2.2	9.9
Washington	0	0	0	2	0	0.4	*
Weld	7	18	18	23	50	23.2	10.7
<b>TOTAL</b>	<b>464</b>	<b>368</b>	<b>1185</b>	<b>1383</b>	<b>710</b>	<b>822.0</b>	<b>17.9</b>

\* Average annual rates were not calculated for counties with < 5 pertussis cases during the five-year period. Caution should be used when interpreting rates based on small number of cases. Rates were calculated using 2004 population figures from the 2006-based population projections from the Demography Section, Colorado Division of Local Government. The following counties reported 0 pertussis cases from 2002-2006: Baca, Crowley, Custer, Gunnison, Hinsdale, Jackson, Las Animas, Lincoln, Mineral, San Juan, and Yuma.

Table 12. Reported Cases and Rates of Pertussis by Age Group, Colorado, 2006			
Age Group (Years)	Cases	Percent	Rate*
<1	43	6.1	61.7
1 – 4	51	7.2	18.1
5 – 9	67	9.4	20.4
10 – 14	145	20.4	44.7
15 – 19	104	14.6	29.5
20 – 29	59	8.3	8.8
30 – 39	52	7.3	7.3
40 – 59	149	21.0	10.6
≥ 60	40	5.6	5.9
TOTAL	710	100.0	14.8

\* Per 100,000 population.



\*Appropriately immunized was defined using ACIP recommendations; 3 doses by age 7 months, 4 doses by age 19 months, and 5 doses by age 7 years or 4 doses by age 7 years if 4<sup>th</sup> dose was given at age 4 or older.

**Table 13. Reported Pertussis-related Hospitalizations\*  
by Age Group, Colorado, 2006**

Age Group	Cases	Hospitalized	
		Number	Percent
< 6 Months	36	18	50.0
6 – 11 Months	7	2	28.6
1 – 4 Years	51	1	2.0
5 – 9 Years	67	0	0
10 – 14 Years	145	2	1.4
15 – 19 Years	104	1	1.0
20 – 29 Years	59	2	3.4
30 – 39 Years	52	1	1.9
40 – 59 Years	149	2	1.3
60+ Years	40	6	15.0
<b>TOTAL</b>	<b>710</b>	<b>35</b>	<b>4.9</b>

\* During 2006, there were 17 (2.4%) cases of x-ray-confirmed pneumonia (of which 7 [41.2%] were hospitalized) and no reported cases of pertussis-associated seizures, encephalopathy, or death in Colorado.

**Table 14. Classification of Reported Pertussis Cases,  
Colorado, 2006**

<b>CASE CLASSIFICATION</b>	<b>Number</b>	<b>Percent</b>
<b><u>Confirmed</u><sup>§</sup>:</b> PCR Positive	426	60.0
<b><u>Confirmed</u><sup>§</sup>:</b> Epidemiologically-linked to a PCR Positive Case	108	15.2
<b><u>Probable</u><sup>¶</sup>:</b> Physician Diagnosed Case	85	12.0
<b><u>Probable</u><sup>¶</sup>:</b> Serology Positive Only	85	12.0
<b><u>Probable</u>:</b> Outbreak Situation*	6	0.8
<b>TOTAL</b>	710	100

§ Confirmed = Laboratory confirmed cases (culture positive or PCR positive and meet clinical case definition) or epidemiologically linked to a laboratory confirmed case and meet the clinical case definition. There were no culture positive cases reported during 2006. Clinical Case Definition is a cough illness lasting at least 14 days with one of the following: paroxysms of coughing, inspiratory “whoop”, or post-tussive vomiting, without other apparent cause (as reported by a health care professional).

¶ Probable = Meets the clinical case definition, is not laboratory-confirmed, and is not epidemiologically linked to a laboratory confirmed case.

\* In outbreak settings a case may be defined as a cough illness lasting  $\geq 2$  weeks.



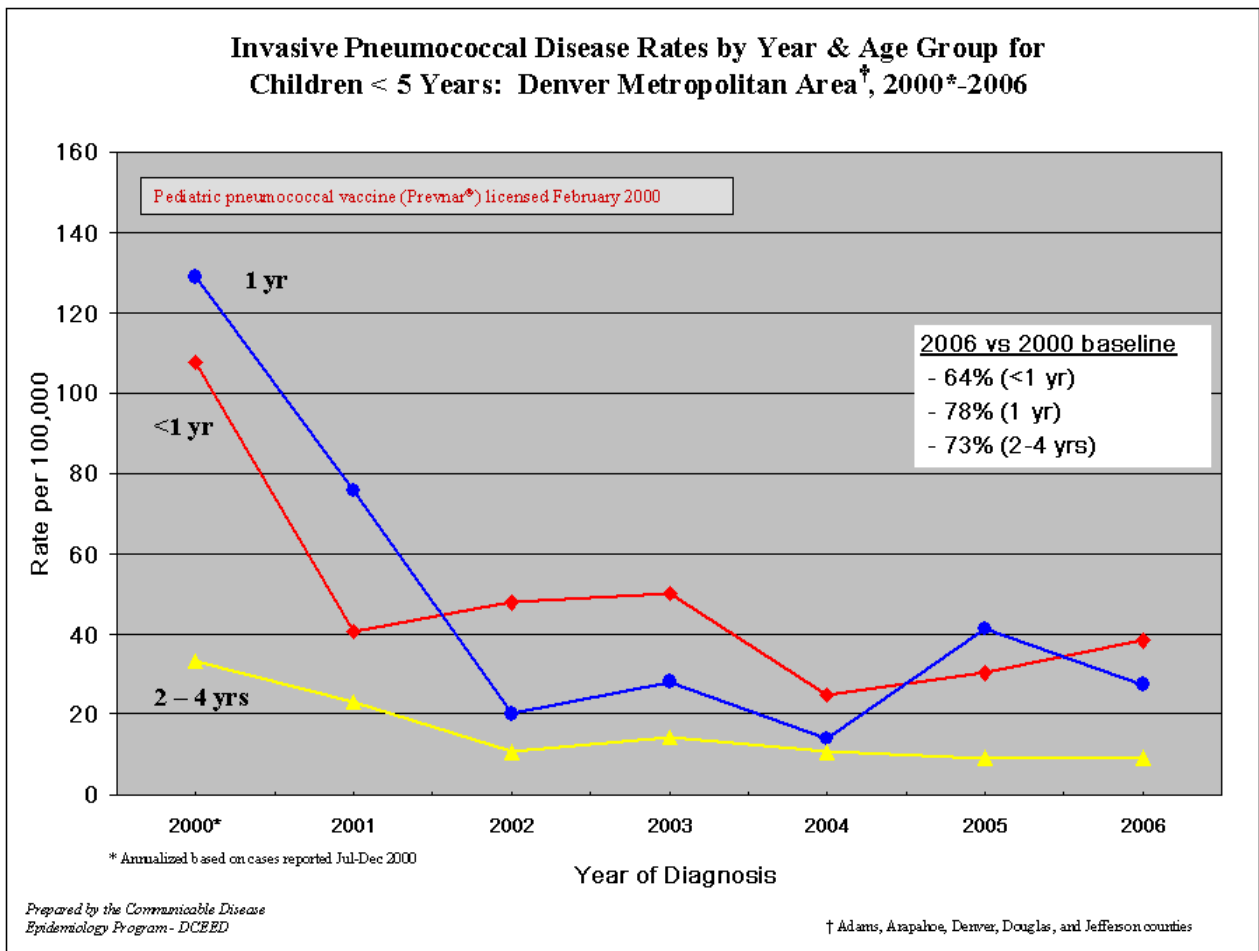
**PNEUMOCOCCAL DISEASE**

<b>Table 15. Reported Invasive Pneumococcal Disease Cases, Rates and Case Fatality by Age Group, Colorado, 2006</b>				
<b>AGE GROUP (Years)</b>	<b>CASES</b>	<b>RATE*</b>	<b>DEATHS</b>	
			<b>Number</b>	<b>Percent of Cases</b>
< 1	20	28.7	3	15.0
1 – 4	35	12.4	1	2.9
5 – 9	10	3.1	0	0
10 – 14	2	0.6	0	0
15 – 19	4	1.1	1	25.0 <sup>§</sup>
20 – 29	17	2.5	0	0
30 – 39	29	4.1	1	3.4
40 – 59	141	10.1	13	9.2
60 – 79	110	19.7	8	7.2
80 +	54	45.6	9	16.7
<b>TOTAL</b>	<b>422</b>	<b>8.8</b>	<b>36</b>	<b>8.5</b>

\*Per 100,000 population.  
<sup>§</sup> Case-fatality based on a small number of cases. There were no reported deaths in the 15-19 year old age group during 2002-2005.

<b>Table 16. Reported Invasive Pneumococcal Disease Cases Less Than 5 Years of Age by Vaccine Serotype and Immunization Status, Denver Metro Area<sup>¶</sup>, Colorado, 2006</b>				
<b>Serotype</b>	<b>Number of Cases</b>	<b>Vaccinated Prior to Onset (1+ doses)</b>	<b>Not Vaccinated Prior to Onset</b>	<b>Unknown Vaccine History</b>
<b>Vaccine Serotype*</b>	3	2	1	0
<b>Not in Vaccine<sup>†</sup></b>	25	18	3	4
<b>Not typed</b>	7	5	1	1
<b>TOTAL</b>	<b>35</b>	<b>25</b>	<b>5</b>	<b>5</b>

<sup>¶</sup> Adams, Arapahoe, Denver, Douglas, and Jefferson counties.  
\* Serotypes included in the Pneumococcal Conjugate Vaccine (4, 6B, 9V, 14, 18C, 19F, 23F)  
<sup>†</sup> Of the 25 serotypes not included in the vaccine, 12 (48%) were serotype 19A.



Additional invasive pneumococcal disease statistics are available on the CDPHE web page at: [www.cdphe.state.co.us/dc/eip/index.html](http://www.cdphe.state.co.us/dc/eip/index.html).

## POLIO

In the United States, the last polio case caused by wild poliovirus was identified in 1979. In 1994, the World Health Organization certified the Western Hemisphere as free of wild poliovirus.

## RUBELLA

There were no rubella cases reported in Colorado during 2006. During the previous five years (2001-2005), 1 rubella case was reported (2003).

## TETANUS

There were no tetanus cases reported in Colorado during 2006. The previous five-year annual average (2001 – 2005) for tetanus was one case per year.

## VARICELLA

<b>Table 17. Reported Varicella Cases<sup>§</sup> and Rates by Age Group, Colorado, 2006</b>			
<b>Age Group (Years)</b>	<b>Cases</b>	<b>Percent</b>	<b>Rate*</b>
< 1	32	2.1	45.9
1 – 4	226	15.0	80.3
5 – 9	775	51.6	236.5
10 – 14	391	26.0	120.6
15 – 19	45	3.0	12.8
20 – 29	11	0.7	1.6
30 – 39	13	0.9	1.8
40 – 59	9	0.6	0.6
≥ 60	1	0.07	0.1
<b>TOTAL</b>	<b>1503</b>	<b>100.0</b>	<b>31.2</b>

§ Of the 1,456 cases with known report sources, 893 cases (61.3%) were reported from schools.  
\* Rate per 100,000.

<b>Table 18. Reported Varicella Cases by Severity of Disease* and Vaccine Status, Colorado, 2006</b>								
<b>Severity of Disease</b>	<b>≥ 1 Dose of Vaccine</b>		<b>Unimmunized</b>		<b>Unknown Immunization Status</b>		<b>Total Cases</b>	
	<b>#</b>	<b>%</b>	<b>#</b>	<b>%</b>	<b>#</b>	<b>%</b>	<b>#</b>	<b>%</b>
<b>&lt; 50 Lesions</b>	588	63	125	33	64	33	777	52
<b>50 – 500 Lesions</b>	189	20	173	46	41	21	403	27
<b>&gt; 500 Lesions</b>	10	1	18	5	3	1	31	2
<b>Unknown</b>	145	16	59	16	88	45	292	19
<b>TOTAL</b>	<b>932</b>	<b>100</b>	<b>375</b>	<b>100</b>	<b>196</b>	<b>100</b>	<b>1503</b>	<b>100</b>

\*Of the 1503 varicella cases reported during 2006, a total of 17 (1.1%) cases were hospitalized (82% of the hospitalized cases were ≤18 years of age and 59% were 5-18 years of age). There were no varicella-associated deaths reported in 2006.