

# Surveillance of Hepatitis A and Acute Hepatitis B in Colorado, 2005

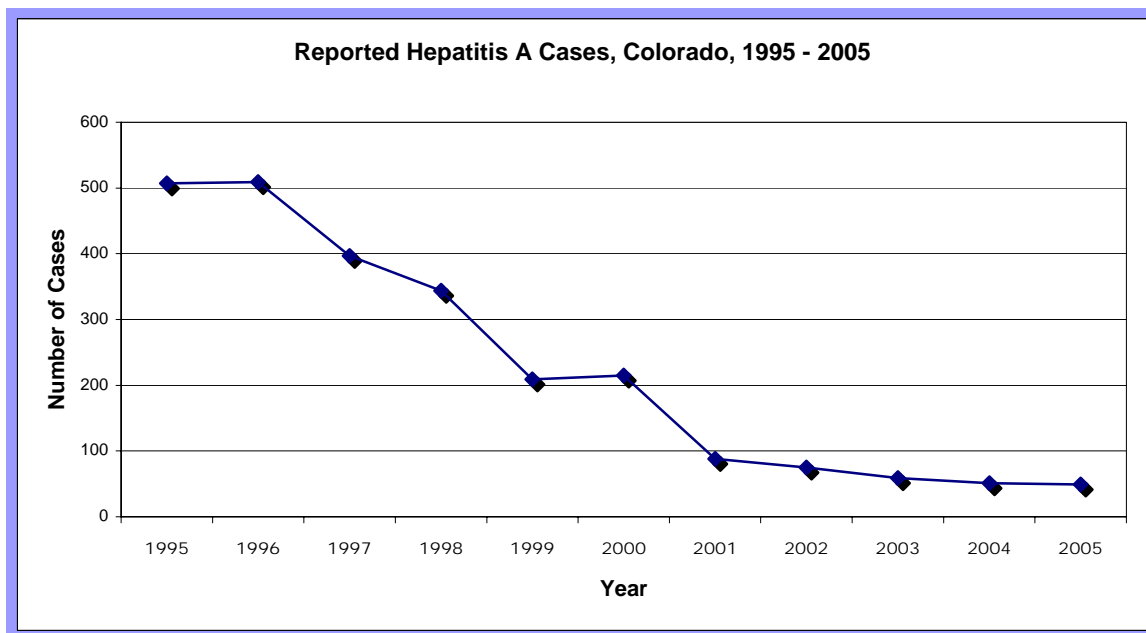
## Introduction

This report highlights 2005 surveillance data for acute hepatitis A and B in Colorado. Colorado rates in this report were calculated as cases per 100,000 population using 2005 - based population projections from the Demography Section, Colorado Division of Local Government. National rates are from the August 18, 2006 Morbidity and Mortality Weekly Report (MMWR), "Reported cases of notifiable diseases, United States, 2005."

## Hepatitis A

A total of 49 hepatitis A cases were reported in Colorado during 2005, which is similar to the number of cases reported in 2004 (51 cases). Hepatitis A has decreased steadily since 1995 in Colorado with an incidence rate of 1.0/100,000 in 2005. The United States 2005 hepatitis A incidence rate was 1.5/100,000, based on 4,488 cases reported. Figure 1 displays reported cases of hepatitis A in Colorado since 1995.

Figure 1:



Hepatitis A cases and rates by age group and gender (Table 1) and by year and county of residence (Table 2) are presented in the following two tables.

<b>Table 1. Reported Hepatitis A Cases and Rates by Age Group &amp; Gender, Colorado 2005 *</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>0-1</b>	1	1.4	0	0.0	1	0.7
<b>2-4</b>	0	0.0	2	2.0	2	1.0
<b>5-9</b>	2	1.2	1	0.6	3	0.9
<b>10-14</b>	1	0.6	2	1.3	3	0.9
<b>15-19</b>	2	1.1	3	1.8	5	1.4
<b>20-39</b>	7	1.0	11	1.7	18	1.3
<b>40+</b>	8	0.8	9	0.9	17	0.8
<b>Total</b>	<b>21</b>	<b>0.9</b>	<b>28</b>	<b>1.2</b>	<b>49</b>	<b>1.0</b>

\* Rates were calculated using 2005 - based population projections from the Demography Section, Colorado Division of Local Government.

**Table 2. Reported Hepatitis A Cases and Rates by County, Colorado  
2000 – 2005**

County	Number of Cases by Year of Report					Average Annual # of cases	Average Rate for 5 Years*
	2001	2002	2003	2004	2005		
Adams	12	12	5	1	5	7.0	1.8
Alamosa	0	0	1	0	1	0.4	*
Arapahoe	7	7	9	3	7	6.6	1.3
Archuleta	1	0	0	0	0	0.2	*
Boulder	3	3	5	5	5	4.2	1.5
Broomfield**	0**	0	0	1	0	NA	NA
Chaffee	0	0	0	2	0	0.4	*
Delta	0	1	0	1	0	0.4	*
Denver	23	14	7	3	9	11.2	2.0
Douglas	1	2	3	4	7	3.4	1.5
Eagle	8	2	2	0	1	2.6	5.5
El Paso	1	3	4	6	6	4.0	0.7
Elbert	0	0	0	1	0	0.2	*
Fremont	0	2	0	0	0	0.4	*
Garfield	1	0	8	1	2	2.4	5.0
Gilpin	0	1	0	0	0	0.2	*
Grand	0	0	1	0	0	0.2	*
Gunnison	0	0	2	1	0	0.6	4.3
Jefferson	4	11	2	1	2	4.0	0.8
La Plata	4	0	0	2	0	1.2	2.6
Larimer	7	3	2	1	1	2.8	1.1
Logan	1	0	0	0	0	0.2	*
Mesa	1	2	0	1	0	0.8	0.6
Moffat	0	0	0	4	0	0.8	6.0
Montrose	0	0	1	0	0	0.2	*
Morgan	0	0	2	2	1	0.8	2.8
Otero	0	0	1	0	0	0.2	*
Pitkin	1	0	0	1	0	0.2	*
Pueblo	3	2	0	1	0	1.2	0.8
Routt	0	2	1	6	0	1.8	8.4
San Miguel	0	0	1	0	0	0.2	*
Teller	0	1	0	0	0	0.2	*
Weld	10	7	4	3	2	5.2	2.5
<b>TOTAL</b>	<b>88</b>	<b>75</b>	<b>59</b>	<b>51</b>	<b>49</b>	<b>64.4</b>	<b>1.4</b>

\*Average annual rates were not calculated for counties with <3 hepatitis A cases during the five-year period. Caution should be used when interpreting rates based on small numbers of cases. Rates were calculated using 2003 population figures from the 2005-based population projections, from the Demography Section, Colorado Division of Local Government.

\*\*Broomfield became a county 11/15/01.

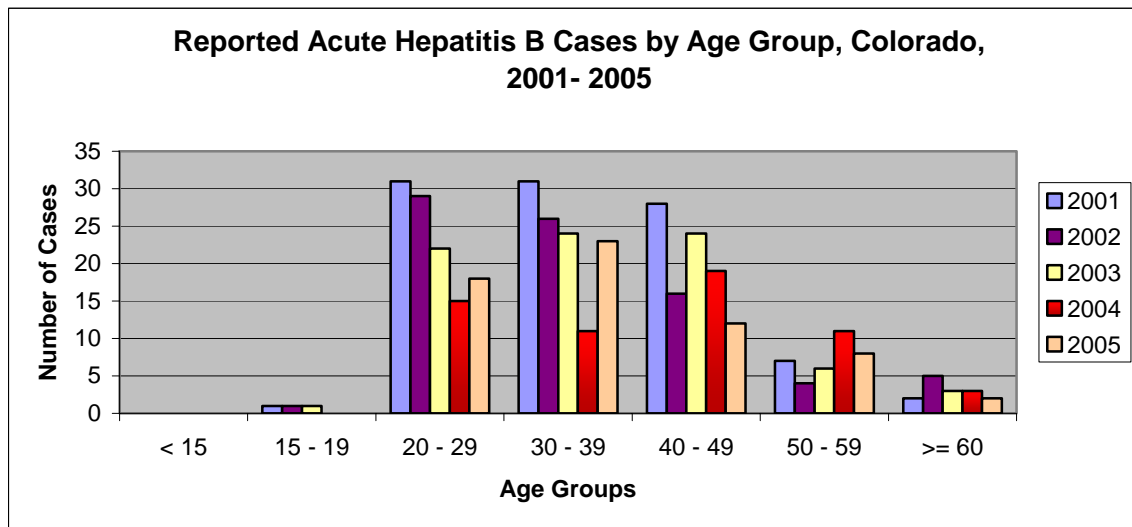
## Acute Hepatitis B

During 2005, there were 63 acute hepatitis B cases reported in Colorado, which is similar to the number of cases reported in 2004 (59 cases). The incidence rate of acute hepatitis B cases in Colorado was 1.3/100,000 in 2005, compared to the United States incidence rate of 1.7/100,000 (5,119 cases). In Colorado, 84% of 2005 hepatitis B cases were 20-49 years of age; of these, 83% were male. Hepatitis B data are displayed by rates, age group, and county of residence in Table 3, Figure 2, and Table 4.

<b>Table 3. Reported Acute Hepatitis B Cases and Rates by Age Group &amp; Gender, Colorado, 2005</b>						
Age Group (years)	Male		Female		Total	
	Cases	Rate	Cases	Rate	Cases	Rate
< 15	0	0.0	0	0.0	0	0.0
15-19	0	0.0	0	0.0	0	0.0
20-29	14	4.0	4	1.3	18	2.7
30-39	21	5.7	2	0.6	23	3.3
40-49	9	2.4	3	0.8	12	1.6
50-59	3	1.0	5	1.6	8	1.3
≥ 60	1	0.3	1	0.3	2	0.3
<b>Total</b>	<b>48</b>	<b>2.0</b>	<b>15</b>	<b>0.6</b>	<b>63</b>	<b>1.3</b>

\* Rates were calculated using 2005 – based population projections from the Demography Section, Colorado Division of Local Government.

Figure 2:



**Table 4. Reported Acute Hepatitis B Cases and Rates by County, Colorado  
2001 – 2005**

County	Number of Cases by Year of Report					Average Annual # of cases	Average Rate for 5 Years*
	2001	2002	2003	2004	2005		
Adams	12	4	6	4	10	7.2	1.9
Alamosa	1	0	0	0	0	0.2	*
Arapahoe	15	9	13	5	5	9.4	1.8
Boulder	0	4	1	4	3	2.4	0.8
Broomfield**	0**	1	0	0	0	NA	NA
Crowley	1	0	0	0	0	0.2	*
Chaffee	0	0	0	1	1	0.4	*
Denver	34	33	29	17	23	27.2	4.8
Dolores	0	0	0	1	0	0.2	*
Douglas	3	3	1	0	1	1.6	0.7
Eagle	1	0	1	0	0	0.4	*
El Paso	8	7	12	8	4	7.8	1.4
Fremont	1	1	0	0	1	0.6	1.3
Garfield	0	0	0	0	1	0.2	*
Gunnison	0	1	0	0	0	0.2	*
Huerfano	0	1	0	0	0	0.2	*
Jefferson	10	6	4	6	4	6.0	1.1
La Plata	0	0	0	1	0	0.2	*
Larimer	2	2	3	4	4	3.0	1.1
Las Animas	0	0	1	0	1	0.4	*
Logan	1	1	0	1	0	0.6	2.7
Mesa	1	3	0	0	0	0.8	0.6
Montezuma	0	0	0	1	0	0.2	*
Morgan	0	0	1	0	1	0.4	*
Pitkin	1	1	0	0	0	0.4	*
Pueblo	4	2	4	3	2	3.0	2.0
Rio Grande	0	0	2	0	0	0.4	*
Routt	1	0	0	0	0	0.2	*
Saguache	0	0	0	1	0	0.2	*
Unknown	2	0	0	0	0	0.4	NA
Weld	2	2	2	1	2	1.8	0.9
<b>TOTAL</b>	100	81	80	59	63	77.0	1.7

\* Average annual rates were not calculated for counties with <3 hepatitis B cases during the five-year period. Caution should be used when interpreting rates based on small numbers of cases. Rates were calculated using 2003 population figures from the 2005-based population projections, from the Demography Section, Colorado Division of Local Government.

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