

Surveillance of Hepatitis A and Acute Hepatitis B in Colorado, 2004

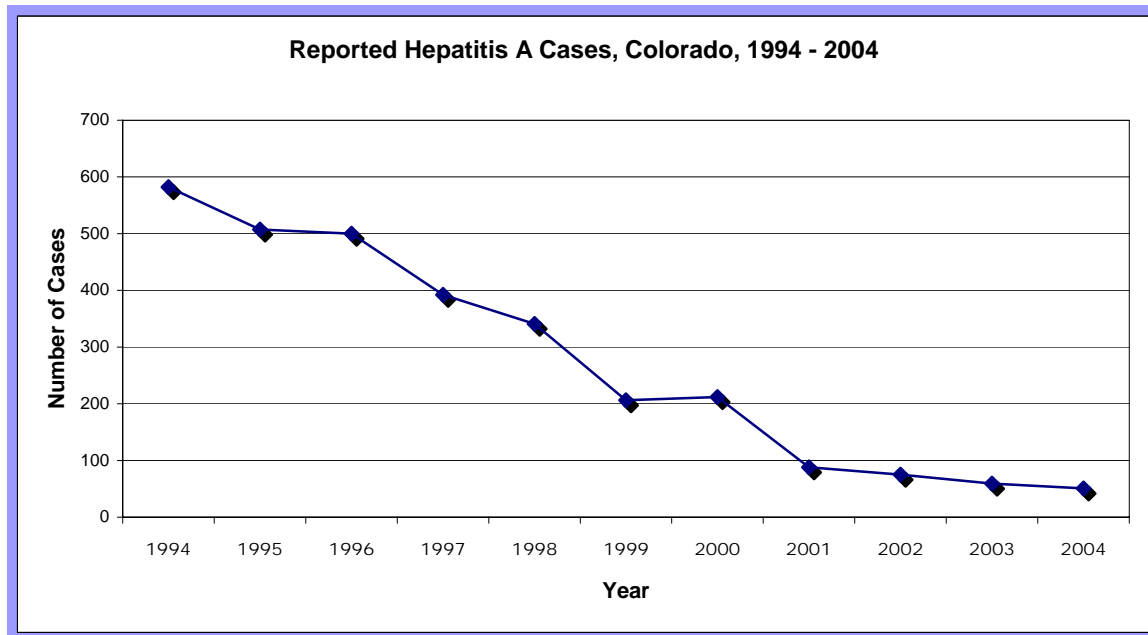
Introduction

This report highlights 2004 surveillance data for acute hepatitis A and B in Colorado. Colorado rates in this report were calculated as cases per 100,000 population using 2004-based population projections from the Demography Section, Colorado Division of Local Government. National rates are from the June 16, 2006 Morbidity and Mortality Weekly Report (MMWR) “Summary of Notifiable Diseases – 2004.”

Hepatitis A

A total of 51 hepatitis A cases were reported in Colorado during 2004, which represents a 13.6 % decrease from the 59 cases reported in 2003. Hepatitis A has decreased steadily since 1994 in Colorado with an incidence rate of 1.1/100,000 in 2004. The United States 2004 hepatitis A incidence rate was 1.9/100,000, based on 5,683 cases reported. Figure 1 displays reported cases of hepatitis A in Colorado since 1994.

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.

Table 1. Reported Hepatitis A Cases and Rates by Age Group & Gender, Colorado 2004*						
Age Group (years)	Male		Female		Total	
	Cases	Rate	Cases	Rate	Cases	Rate
0-1	0	0.0	0	0.0	0	0.0
2-4	1	1.0	1	1.0	2	1.0
5-9	3	0.6	0	0.0	3	1.0
10-14	3	1.8	1	0.6	4	1.2
15-19	0	0.0	3	1.8	3	0.9
20-39	6	0.9	11	1.7	17	1.3
40+	13	1.4	9	0.9	22	1.1
Total	26	1.1	25	1.1	51	1.1

* Rates were calculated using 2004 - based population projections from the Demography Section, Colorado Division of Local Government.

**Table 2. Reported Hepatitis A Cases and Rates by County, Colorado
2000 – 2004**

County	Number of Cases by Year of Report					Average Annual # of cases	Average Rate for 5 Years*
	2000	2001	2002	2003	2004		
Adams	15	12	12	5	1	9.0	2.4
Alamosa	0	0	0	1	0	0.2	*
Arapahoe	21	7	7	9	3	9.4	1.8
Archuleta	0	1	0	0	0	0.2	*
Boulder	15	3	3	5	5	6.2	2.2
Broomfield	0	0	0	0	1	0.2	*
Chaffee	0	0	0	0	2	0.4	*
Cheyenne	1	0	0	0	0	0.2	*
Delta	0	0	1	0	1	0.4	*
Denver	69	23	14	7	3	23.2	4.1
Douglas	4	1	2	3	4	11.0	5.2
Eagle	3	8	2	2	0	3.0	6.5
El Paso	17	1	3	4	6	6.2	1.1
Elbert	0	0	0	0	1	0.2	*
Fremont	0	0	2	0	0	0.4	*
Garfield	1	1	0	8	1	2.2	4.6
Gilpin	1	0	1	0	0	0.4	*
Grand	4	0	0	1	0	1.0	7.5
Gunnison	6	0	0	2	1	1.8	12.9
Jefferson	11	4	11	2	1	5.8	1.1
La Plata	9	4	0	0	2	3.0	6.5
Larimer	8	7	3	2	1	4.2	1.6
Logan	1	1	0	0	0	0.4	*
Mesa	4	1	2	0	1	1.6	1.3
Moffat	0	0	0	0	4	0.8	6.0
Montrose	1	0	0	1	0	0.4	*
Morgan	0	0	0	2	2	0.8	2.9
Otero	1	0	0	1	0	0.4	*
Phillips	1	0	0	0	0	0.2	*
Pitkin	1	1	0	0	1	0.6	3.7
Prowers	1	0	0	0	0	0.2	*
Pueblo	2	3	2	0	1	1.6	1.1
Routt	0	0	2	1	6	1.8	8.6
Saguache	3	0	0	0	0	0.6	9.7
San Miguel	0	0	0	1	0	0.2	*
Summit	1	0	0	0	0	0.2	*
Teller	0	0	1	0	0	0.2	*
Weld	11	10	7	4	3	7.0	3.5
TOTAL	212	88	75	59	51	97.0	2.1

*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 2002 population figures from the 2004-based population projections, from the Demography Section, Colorado Division of Local Government.

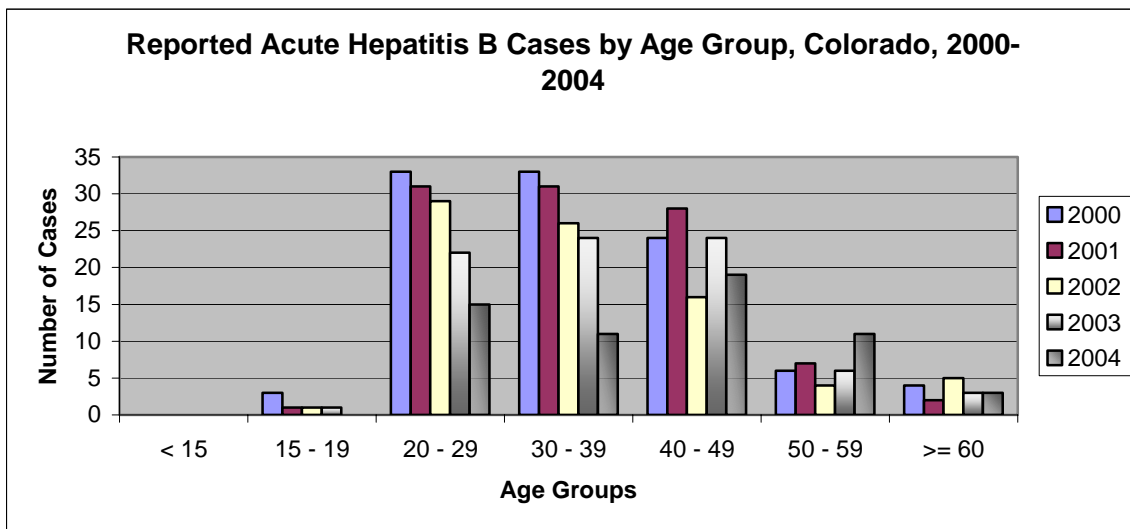
Acute Hepatitis B

During 2004, there were 59 acute hepatitis B cases reported in Colorado, compared to 80 cases reported in 2003. The incidence rate of acute hepatitis B cases in Colorado was 1.3/100,000 in 2004, compared to the United States incidence rate of 2.1/100,000 (6,212 cases). In Colorado, 76.0% of 2004 hepatitis B cases were 20-49 years of age; of these, 73% were male. Hepatitis B data are displayed by rates, age group, and county of residence in Table 3, Figure 2, and Table 4.

Table 3. Reported Acute Hepatitis B Cases and Rates by Age Group & Gender, Colorado, 2004 *						
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	12	3.5	3	1.0	15	2.3
30-39	8	2.2	3	0.9	11	1.6
40-49	13	3.5	6	1.6	19	2.5
50-59	7	2.4	4	1.4	11	1.9
≥ 60	3	1.0	0	0.0	3	0.5
Total	43	1.8	16	0.7	59	1.3

* Rates were calculated using 2004 - 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
2000 – 2004**

County	Number of Cases by Year of Report					Average Annual # of cases	Average Rate for 5 Years*
	2000	2001	2002	2003	2004		
Adams	8	12	4	6	4	6.8	1.8
Alamosa	0	1	0	0	0	0.2	*
Arapahoe	11	15	9	13	5	10.6	2.1
Boulder	5	0	4	1	4	2.8	1.0
Broomfield**	NA	0	1	0	0	0.2	*
Crowley	2	1	0	0	0	0.6	10.3
Chaffee	0	0	0	0	1	0.2	*
Denver	34	34	33	29	17	29.4	5.2
Dolores	0	0	0	0	1	0.2	*
Douglas	1	3	3	1	0	1.6	0.7
Eagle	0	1	0	1	0	0.4	*
El Paso	8	8	7	12	8	8.6	1.6
Fremont	3	1	1	0	0	1.0	2.1
Gunnison	0	0	1	0	0	0.2	*
Huerfano	0	0	1	0	0	0.2	*
Jefferson	9	10	6	4	6	7.0	1.3
La Plata	0	0	0	0	1	0.2	*
Larimer	7	2	2	3	4	3.6	1.4
Las Animas	0	0	0	1	0	0.2	*
Logan	0	1	1	0	1	0.6	2.7
Mesa	0	1	3	0	0	0.8	0.7
Montezuma	0	0	0	0	1	0.2	*
Montrose	1	0	0	0	0	0.2	*
Morgan	0	0	0	1	0	0.2	*
Pitkin	0	1	1	0	0	0.4	*
Pueblo	3	4	2	4	3	3.2	2.2
Rio Grande	0	0	0	2	0	0.4	*
Routt	0	1	0	0	0	0.2	*
Saguache	0	0	0	0	1	0.2	*
Unknown	1	2	0	0	0	0.6	NA
Weld	10	2	2	2	1	3.4	1.7
TOTAL	103	100	81	80	59	85.0	1.9

* 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 2002 population figures from the 2004-based population projections, from the Demography Section, Colorado Division of Local Government.

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