Hepatitis B in Colorado **2011** Surveillance Report

Cases of Acute and Chronic Hepatitis B in Colorado

Note: This report is published by the Viral Hepatitis Program (VHP), Disease Control and Environmental Epidemiology Division, Colorado Department of Public Health and Environment, Denver Colorado. Data are presented for acute and chronic hepatitis B cases newly reported to CDPHE in 2011



Colorado Department of Public Health and Environment

Hepatitis B

Hepatitis B is a disease that results from an infection with the hepatitis B virus (HBV). HBV is spread through contact with infected blood. This occurs primarily through sex with an infected person or from mother to child during childbirth (perinatal). However, a large proportion of people do not know how they became infected.

HBV infection can range in severity, from a mild illness lasting a few weeks to a serious, lifelong illness. The number of new and chronic infections is on the decline. Data from the National Health and Nutrition Examination Survey indicates that the prevalence of HBV infection is 4.3-5.6% of the population. In Colorado, 4.3% of the population translates to 220,022 residents who have ever been infected with hepatitis B.

Viral hepatitis surveillance in Colorado is primarily based on laboratory reporting of serologic results. Laboratory-based reporting enables the identification of asymptomatic persons infected by the virus as well as those displaying symptoms. In Colorado, the Board of Health requires physicians and other health care providers to report suspected cases of hepatitis B within 7 days, and it requires laboratories to report positive HBV serologic tests within 7 days. Upon receipt of these reports, either electronically, by fax, or via another reporting system, the Viral Hepatitis Program (VHP) uses established case definitions to assign a diagnosis and case status for each patient.. Data is entered into the Colorado Electronic Disease Reporting System where it is available to local or state public health personnel for further investigation of cases.

Acute Hepatitis B

Acute hepatitis B is a short-term illness that occurs within the first six months of infection with HBV. Symptoms are usually mild to moderate, and include fatigue, nausea, vomiting, abdominal pain, jaundice and abnormal liver function tests. Older children and adults are more likely to develop symptoms than younger children. The hepatitis B Igm can be detected in sera and used as a marker of acute infection.

Chronic Hepatitis B

Chronic hepatitis B results when HBV remains in the body after the acute phase of illness. People with a chronic infection do not develop protective antibodies to the hepatitis B surface antigen. Approximately 5% of older children and adults, 25-50% of younger children (aged 1-5 years), and up to 90% of infants will develop chronic hepatitis B. Over time, chronic hepatitis B can result in liver disease, cirrhosis, or cancer. Each year approximately 2,000 to 4,000 people die from diseases related to hepatitis B in the U.S.

Vaccine is available to prevent hepatitis B infection. Hepatitis B vaccination became a school entry requirement in 1997. At that time, the Colorado Board of Health required all day care students age fifteen months through four years of age, kindergarten and seventh grade students to have had three doses of hepatitis B vaccine to attend school. A 12 year old student entering seventh grade in 1997 would have been born in 1985 and be 27 years of age in 2011.

Surveillance Summary

In 2011, a total of 27 cases of acute hepatitis B were reported in Colorado. Table 1 describes the reported cases by gender, age, race/ethnicity, risk factors, and county of residence. Rates include acute and chronic case reports even though up to 10% of acute cases may also be included in the chronic cases. This occurs when an individual retests positive six months following the initial acute diagnosis, and the person is reported as a chronic case following the second test.

<u>Gender</u>

Of these, 18 (67%) were reported in men, and 9 (33%) in women. For chronic infections over half of the total 492 reported cases were among men (n=290; 59%), while 201 (40%) were reported in women. Surveillance cannot determine the number of men and women tested in Colorado. However, Colorado birth certificate data for 2011 reported that 96% (64,259) of women were screened for hepatitis B during pregnancy as recommended by the Advisory Committee on Immunization practices of the U.S. Centers for Disease Control and Prevention and the U.S. Preventive Services Taskforce. There is no recommendation to routinely test men. *Age*

Table 1 represents the age distribution of acute and chronic hepatitis B cases. Most reported acute infections occurred among persons >27 years of age. Persons >27 years of age are less likely to be immunized for hepatitis B based on a school-entry requirement that began in 1997. The higher incidence of acute infections in people over 27 suggests that individuals in these age groups continue to engage in high risk behavior and could benefit from vaccine. For chronic hepatitis B infection, persons 20-39 years of age had the most reported cases (n=238; 48%). Chronic infections are more likely to be diagnosed later in the course of infection when symptoms commonly appear or among women screened during pregnancy.

Race/ethnicity

The majority of acute cases of hepatitis B were reported among White non-Hispanics (n=17; 63%). The highest number of chronic HBV infections were reported among Asian/Pacific Islanders (n=171; 35%). Rates per 100,000 were done using the 2011 estimates from the US Census Bureau, Population Division.² Data from Colorado's Perinatal Hepatitis B Unit indicate that foreign-born pregnant women are significantly more likely to be reported with hepatitis B infection than pregnant women born in the U.S. National data also describes significant disparities in chronic hepatitis B infections by race (McQuillan)

Risk Factors

A subset of risk factor data was added to the 2011 statistics. These data include: injection drug use (IDU), household contact, sex contact, men who have sex with men (MSM), born in endemic country, and perinatal transmission. Others risk factors are collected, but only those reported in the yearly progress report for CDC are included in Table 1. These data were obtained through patient interviews, medical record reviews, or from information provided by a physician, hospital, or other healthcare provider. The VHP collected risk factor information on 17 (63%) acute HBV cases and 247 (50%) chronic cases.

Perinatal Cases

There was one hepatitis B perinatal case reported in Colorado in 2011. Hepatitis B perinatal cases are those who are <2 years of age and were born in the US to HBV infected mothers.

County Distribution

Acute HBV cases were reported in 10 of the 64 Colorado counties. Chronic hepatitis B cases were reported in 24 of the 64 Colorado counties. Counties without reported cases were more likely to be frontier counties (rural areas sparsely populated that are isolated from population centers and services). Incarcerated HBV chronic cases are counted in the "Unspecified" section under Colorado Department of Corrections (CDOC) and Federal Correctional Institute (FCI).

Figure 1 is a map describing the rate distribution of hepatitis B per 100,000 county populations in Colorado. The rate is calculated using the Estimated 2011 Census figures from the Colorado Division of Local Government, Demography section.

Table 1: Reported Hepatitis B Cases by Case Status, Sex, Age, and Race, Colorado, 2011

| | Acute HBV | | | | | |
|------------------------|-----------|------|--------------------|------|----------|-------------------------------|
| | Cases | | Chronic HBV Cases* | | | |
| | | | | | Total | Rate of Reported Cases/ |
| | Number | %** | Number | %** | Number | 100,000*** |
| Total | 27 | | 492 | | 519 | 10.1 |
| Case Status | | | | | | |
| Confirmed | 23 | 85% | 146 | 30% | 169 | 3.3 |
| Probable | 4 | 15% | 345 | 70% | 349 | 6.8 |
| Suspect | 0 | 0% | 1 | 0% | 1 | 0.02 |
| Sex | | | | | | |
| Male | 18 | 67% | 290 | 59% | 308 | 11.9 |
| Female | 9 | 33% | 201 | 41% | 210 | 8.2 |
| Unknown | 0 | 0% | 1 | 0% | 1 | |
| Age | | | | | | |
| 0-4 | 0 | 0% | 5 | 1% | 5 | 1.4 |
| 5-9 | 0 | 0% | 4 | 1% | 4 | 1.1 |
| 10-19 | 0 | 0% | 26 | 5% | 26 | 3.8 |
| 20-29 | 1 | 4% | 111 | 23% | 112 | 15.1 |
| 30-39 | 5 | 19% | 127 | 26% | 132 | 18.5 |
| 40-49 | 9 | 33% | 101 | 21% | 110 | 15.3 |
| 50-59 | 5 | 19% | 75 | 15% | 80 | 11.2 |
| 60+ | 7 | 26% | 42 | 9% | 49 | 5.6 |
| Unknown | 0 | 0% | 1 | 0% | 1 | |
| Race/Ethnicity | | | | | | |
| Hispanic | 3 | 11% | 18 | 4% | 21 | 1.9 |
| White non- | | | | | | |
| Hispanic | 17 | 63% | 71 | 14% | 88 | 2.4 |
| Black non- | | *** | | 4=04 | | |
| Hispanic | 1 | 4% | 85 | 17% | 86 | 43.9 |
| American Indian | 0 | 0% | 2 | 0% | 2 | 6 |
| Asian/Pacific Islander | 0 | 0% | 171 | 35% | 171 | 115.7 |
| Multiple | 0 | 0% | 3 | 1% | 3 | 2.9 |
| | 0 | 070 | <u> </u> | 1/0 | <u> </u> | 2.9 |
| Other/Missing/ | _ | 220/ | 142 | 200/ | 1.40 | |
| * Chronic cases may in | 6 | 22% | 142 | 29% | 148 | |

^{*} Chronic cases may include 5%-10% of those cases that were also reported as acute cases in the same year

Total Number of
Pregnant Women
Reported N = 159

Previous
Newly case/new
Reported pregnancy

89

70

1 perinatal HBV Case
reported

| School Immunization | | | | |
|-----------------------------|--|--|--|--|
| Requirement 20-29 year olds | | | | |

| | 7.00 | | | | | |
|--------------|-----------------------|------------------------|--|--|--|--|
| | Born after 1986 | Born Before 1986 | | | | |
| Acute | 8 | 19 | | | | |
| Chronic | 120 | 372 | | | | |
| Total | 128 | 391 | | | | |
| Rate/100,000 | 7.47 | 11.79 | | | | |

^{**}Decimal places are rounded up or down for percentages.

^{***}Rates were calculated for everything except race and ethnicity using the 2011 Census Estimates from the Demography Section, Colorado Division of Local Government: http://www.colorado.gov/cs/Satellite/DOLA-Main/CBON/1251590805419. Rates calculated for counties with a small number of reported cases should be interpreted with caution.

Table 2: Reported Hepatitis B Cases by Risk Factor, and Percentage of Cases Reporting the Risk Factor, Colorado, 2011 ***

| | Acute HBV Cases | | Chronic HBV Cases | | |
|--|-----------------|-------------------|-------------------|-------------------|-----------------|
| Category | Number | Total/# in row | Number | Total/# in row | Total Number |
| Total | 27 | | 492 | | 519 |
| Risk Factors*** | | | | | |
| IDU | | | | | |
| No | 15 | 56% | 99 | 20% | 114 |
| Yes | 1 | 4% | 7 | 1% | 8 |
| Missing | 10 | 37% | 245 | 50% | 255 |
| Unknown | 1 | 4% | 141 | 29% | 146 |
| Household Contact | | | | | |
| No | 0 | | 0 | | 0 |
| Yes | 0 | | 7 | 1% | 7 |
| Missing | 27 | 100% | 485 | 99% | 512 |
| Unknown | 0 | | 0 | | 0 |
| Sex Contact | | | | | |
| No | 0 | | 0 | | 0 |
| Yes | 1 | 4% | 8 | 2% | 9 |
| Missing | 26 | 96% | 484 | 98% | 510 |
| Unknown | 0 | | 0 | | 0 |
| MSM | | | | | |
| No | 7 | 26% | 11 | 2% | 18 |
| Yes | 5 | 19% | 11 | 2% | 16 |
| Missing | 4 | 15% | 152 | 31% | 156 |
| Unknown | 2 | 7% | 116 | 24% | 118 |
| Born in Endemic | | | | | |
| Area | | | | | |
| No | 0 | 0% | 0 | | 0 |
| Yes | 0 | 0% | 155 | 32% | 155 |
| Missing | 0 | 0% | 0 | | 0 |
| Unknown *** Rick factor categories are | 0 | 0% | 0 | | 0 |

*** Risk factor categories are

not mutually exclusive

Table 3: Number and Percentage of Reported Acute and Chronic Hepatitis B Cases by County of Residence, Colorado, 2011

| , | Acute HBV Cases Chronic HBV Cases* | | | | | |
|----------------|--------------------------------------|----------|--------|----------|--------|--------------------------------------|
| | | | | | Total | Rate of Reported Cases/100,000 |
| Talal | Number | % ** | Number | % ** | Number | |
| Total | 27 | | 492 | | 519 | 10.1 |
| County of Resi | | 40/ | 46 | 00/ | 47 | 10.4 |
| Alamosa | 1 | 4% 0% | 46 | 9% | 47 | 10.4 |
| Arapahoe | 0 | 15% | 1 | <1% | 110 | 2.1 |
| Archuleta | 4 | 0% | 114 | 23% | 118 | 20.2 |
| Baca | 0 | 0% | 0 | 0% | 0 | 0 |
| Bent | 0 | 0% | 1 | <1% | 1 | 26.4 |
| Boulder | 0 | 0% | 0 | 0% | 0 | 0 |
| Broomfield | 0 | 0% | 25 | 5% | 25 | 8.3 |
| Chaffee | 0 | 0% | 2 | <1% | 0 | 3.4 |
| Cheyenne | | 0% | 0 | 0% | | 0 |
| Clear Creek | 0 | 0% | 0 | 0% 0% | 0 | 0 |
| Conejos | 0 | 0% | 0 | 0% | 0 | |
| Costilla | 0 | 0% | 0 | 0% | 0 | 0 |
| Crowley | 0 | 0% | 0 | 0% | 0 | 0 |
| Custer | 0 | 0% | 0 | 0% | 0 | 0 |
| Delta | 1 | 4% | 0 | 0% | 1 | 3.1 |
| Denver | 7 | 26% | 93 | 19% | 100 | 3.9 |
| Dolores | 0 | 0% | 0 | 0% | 0 | 0 |
| Douglas | 1 | 4% | 20 | 4% | 21 | 7.2 |
| Eagle | 0 | 0% | 0 | 0% | 0 | 0 |
| Elbert | 0 | 0% | 1 | <1% | 1 | 4.2 |
| El Paso | 5 | 19% | 50 | 10% | 55 | 8.6 |
| Fremont | 0 | 0% | 0 | 0% | 0 | 0 |
| Garfield | 0 | 0% | 1 | <1% | 1 | 1.7 |
| Gilpin | 0 | 0% | 0 | 0% | 0 | 0 |
| Grand | 0 | 0% | 0 | 0% | 0 | 0 |
| Gunnison | 0 | 0% | 0 | 0% | 0 | 0 |
| Hinsdale | 0 | 0% | 0 | 0% | 0 | 0 |
| Huerfano | 0 | 0% | 1 | <1% | 1 | 14.7 |
| Jackson | 0 | 0% | 1 | <1% | 1 | 69.8 |
| Jefferson | 4 | 15% | 33 | 7% | 37 | 6.8 |
| Kiowa | 0 | 0% | 0 | 0% | 0 | 0 |
| Kit Carson | 0 | 0% | 0 | 0% | 0 | 0 |
| Lake | 0 | 0% | 0 | 0% | 0 | 0 |
| La Plata | 0 | 0% | 0 | 0% | 0 | 0 |
| Larimer | 0 | 0% | 19 | 4% | 19 | 6.2 |

Table 3: Number and Percentage of Reported Acute and Chronic Hepatitis B Cases by County of Residence, Colorado, 2011

| Total Number % ** Number Number Number Rate of Reported Cases/100,000 Total 27 492 519 10.1 Las Animas 0 0% 0 0% 0 Lincoln 0 0% 0 0 0 Logan 0 0% 1 <1% 1 4.3 Mesa 1 4% 3 <1% 4 2.6 Mineral 0 0% 0 0% 0 0 Moffat 0 0% 0 0 0 0 Montrose 0 0% 0 0% 0 0 0 Morgan 0 0% 0 0% 0 0 0 0 Morgan 0 0% 0 0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< th=""><th>Cases by Court</th><th colspan="5">cases by county of Residence, colorado, 2011</th></t<> | Cases by Court | cases by county of Residence, colorado, 2011 | | | | | |
|---|----------------|--|---------|--------------------|------|--------|---------------------------|
| Total Las Animas Very Mark Number Very Mark Very Mark Total Number Very Mark Reported Cases/100,000 Very Mark Lincoln 0 0% 0 0% 0 0 Lincoln 0 0% 0 0% 0 0 Logan 0 0% 1 <1% | | Acute HB | V Cases | Chronic HBV Cases* | | | |
| Total 27 492 519 10.1 Las Animas 0 0% 0 0% 0 0 Lincoln 0 0% 0 0% 0 0 0 Logan 0 0% 1 <1% | | | | | | | Reported Cases/100,000 |
| Las Animas 0 0% 0 0% 0 0 Lincoln 0 0% 0 0% 0 0 0 Logan 0 0% 1 <1% | | Number | % ** | Number | % ** | Number | *** |
| Lincoln 0 0% 0 0% 0 0 Logan 0 0% 1 <1% | | 27 | | 492 | | 519 | 10.1 |
| Logan | | 0 | 0% | 0 | 0% | 0 | 0 |
| Mesa 1 4% 3 <1% 4 2.6 Mineral 0 0% 0 0% 0 0 Moffat 0 0% 0 0% 0 0 Montezuma 0 0% 1 <1% | | 0 | 0% | 0 | 0% | 0 | 0 |
| Mineral 0 0% 0 0% 0 0 Moffat 0 0% 0 0% 0 0 0 Montezuma 0 0% 1 <1% | | 0 | 0% | 1 | <1% | 1 | |
| Moffat 0 0% 0 0% 0 0 Montezuma 0 0% 1 <1% | | 1 | 4% | 3 | <1% | 4 | 2.6 |
| Montezuma 0 0% 1 <1% 1 3.8 Montrose 0 0% 0 0% 0 0 0 Morgan 0 0% 2 <1% | | 0 | 0% | 0 | 0% | 0 | 0 |
| Montrose 0 0% 0 0% 0 0 Morgan 0 0% 2 <1% | | 0 | 0% | 0 | 0% | 0 | 0 |
| Morgan 0 0% 2 <1% 2 7 Otero 0 0% 0 0% 0 0 Ouray 0 0% 1 <1% | Montezuma | 0 | 0% | 1 | <1% | 1 | 3.8 |
| Otero 0 0% 0 0% 0 0 Ouray 0 0% 1 <1% | Montrose | 0 | 0% | 0 | 0% | 0 | 0 |
| Ouray 0 0% 1 <1% 1 21.7 Park 0 0% 0 0% 0 0 Phillips 0 0% 0 0% 0 0 Pitkin 0 0% 0 0% 0 0 Prowers 0 0% 0 0% 0 0 Pueblo 2 8% 5 1% 7 4.3 Rio Blanco 0 0% 0 0% 0 0 Rio Grande 0 0% 0 0% 0 0 Routt 0 0% 0 0% 0 0 Saguache 0 0% 0 0% 0 0 San Juan 0 0% 0 0% 0 0 San Miguel 0 0% 0 0 0 0 Sedgwick 0 0% 0 0 | Morgan | 0 | 0% | 2 | <1% | 2 | 7 |
| Park 0 0% 0 0% 0 0 Phillips 0 0% 0 0% 0 0 Pitkin 0 0% 2 <1% | Otero | 0 | 0% | 0 | 0% | 0 | 0 |
| Phillips 0 0% 0 0% 0 0 Pitkin 0 0% 2 <1% | Ouray | 0 | 0% | 1 | <1% | 1 | 21.7 |
| Pitkin 0 0% 2 <1% 2 11.4 Prowers 0 0% 0 0% 0 0 Pueblo 2 8% 5 1% 7 4.3 Rio Blanco 0 0% 0 0% 0 0 Rio Grande 0 0% 0 0% 0 0 Routt 0 0% 0 0% 0 0 Saguache 0 0% 0 0% 0 0 San Juan 0 0% 0 0% 0 0 San Miguel 0 0% 0 0% 0 0 Sedgwick 0 0% 0 0% 0 0 Summit 0 0% 0 0% 0 0 Washington 0 0% 0 0% 0 0 Weld 1 4% 27 6% <td>Park</td> <td>0</td> <td>0%</td> <td>0</td> <td>0%</td> <td>0</td> <td>0</td> | Park | 0 | 0% | 0 | 0% | 0 | 0 |
| Prowers 0 0% 0 0% 0 0 Pueblo 2 8% 5 1% 7 4.3 Rio Blanco 0 0% 0 0% 0 0 Rio Grande 0 0% 0 0% 0 0 Routt 0 0% 0 0% 0 0 Saguache 0 0% 0 0% 0 0 San Juan 0 0% 0 0% 0 0 San Miguel 0 0% 0 0% 0 0 Sedgwick 0 0% 0 0% 0 0 Summit 0 0% 2 21% 2 6.9 Teller 0 0% 0 0% 0 0 Washington 0 0% 0 0% 0 0 Weld 1 4% 27 6% | Phillips | 0 | 0% | 0 | 0% | 0 | 0 |
| Pueblo 2 8% 5 1% 7 4.3 Rio Blanco 0 0% 0 0% 0 0 Rio Grande 0 0% 0 0% 0 0 Routt 0 0% 0 0% 0 0 Saguache 0 0% 0 0% 0 0 San Juan 0 0% 0 0% 0 0 San Miguel 0 0% 0 0% 0 0 Sedgwick 0 0% 0 0% 0 0 Summit 0 0% 2 <1% | Pitkin | 0 | 0% | 2 | <1% | 2 | 11.4 |
| Rio Blanco 0 0% 0 0% 0 0 Rio Grande 0 0% 0 0% 0 0 0 Routt 0 0% 0 0% 0 0 0 Saguache 0 0% 0 0% 0 0 0 San Juan 0 0% 0 0% 0 0 0 San Miguel 0 0% 0 0% 0 0 0 Sedgwick 0 0% 0 0% 0 0 0 Summit 0 0% 2 <1% | Prowers | 0 | 0% | 0 | 0% | 0 | 0 |
| Rio Grande 0 0% 0 0% 0 0 Routt 0 0% 0 0% 0 0 0 Saguache 0 0% 0 0% 0 0 0 San Juan 0 0% 0 0% 0 0 0 San Miguel 0 0% 0 0% 0 0 0 Sedgwick 0 0% 0 0% 0 0 0 Summit 0 0% 2 <1% | Pueblo | 2 | 8% | 5 | 1% | 7 | 4.3 |
| Routt 0 0% 0 0% 0 0 Saguache 0 0% 0 0% 0 0 0 San Juan 0 0% 0 0% 0 0 0 0 San Miguel 0 0% 0 0% 0 | Rio Blanco | 0 | 0% | 0 | 0% | 0 | 0 |
| Saguache 0 0% 0 0% 0 0 San Juan 0 0% 0 0% 0 0 0 San Miguel 0 0% 0 0% 0 0 0 Sedgwick 0 0% 0 0% 0 0 0 Summit 0 0% 2 <1% | Rio Grande | 0 | 0% | 0 | 0% | 0 | 0 |
| San Juan 0 0% 0 0% 0 0 San Miguel 0 0% 0 0% 0 0 0 Sedgwick 0 0% 0 0% 0 0 0 Summit 0 0% 2 <1% | Routt | 0 | 0% | 0 | 0% | 0 | 0 |
| San Miguel 0 0% 0 0% 0 0 Sedgwick 0 0% 0 0% 0 0 0 Summit 0 0% 2 <1% | Saguache | 0 | 0% | 0 | 0% | 0 | 0 |
| Sedgwick 0 0% 0 0% 0 0 Summit 0 0% 2 <1% | San Juan | 0 | 0% | 0 | 0% | 0 | 0 |
| Summit 0 0% 2 <1% 2 6.9 Teller 0 0% 0 0% 0 0 Washington 0 0% 0 0% 0 0 Weld 1 4% 27 6% 28 10.8 Yuma 0 0% 0 0% 0 0 | San Miguel | 0 | 0% | 0 | 0% | 0 | 0 |
| Teller 0 0% 0 0% 0 0 Washington 0 0% 0 0% 0 0 Weld 1 4% 27 6% 28 10.8 Yuma 0 0% 0 0% 0 0 | | 0 | 0% | 0 | 0% | 0 | 0 |
| Washington 0 0% 0 0% 0 0 Weld 1 4% 27 6% 28 10.8 Yuma 0 0% 0 0% 0 0 | Summit | 0 | 0% | 2 | <1% | 2 | 6.9 |
| Weld 1 4% 27 6% 28 10.8 Yuma 0 0% 0 0% 0 0 | Teller | 0 | 0% | 0 | 0% | 0 | 0 |
| Yuma 0 0% 0 0% 0 0 | Washington | 0 | 0% | 0 | 0% | 0 | 0 |
| | Weld | 1 | 4% | 27 | 6% | 28 | 10.8 |
| Unspecified 0 0% 40 8% 40 | Yuma | 0 | 0% | 0 | 0% | 0 | 0 |
| | Unspecified | 0 | 0% | 40 | 8% | 40 | |

| Total Unspecified | Chronic HBV Cases* | | |
|----------------------|-----------------------|------|--|
| | Number | % ** | |
| CDOC | 23 | 58% | |
| FCI | 4 | 10% | |
| Unknown | 12 | 32% | |

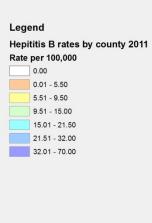
^{*}Chronic cases may include 5%-10% of those cses that were also reported as acute cases in the same year

^{**} Decimal places are rounded

^{***} Rates were calculated for everything except race and ethnicity using the 2011 Census Estimates from the Demography Section, Colorado Division of Local Government: : http://www.colorado.gov/cs/Satellite/DOLA-Main/CBON/1251590805419. Rates calculated for counties with a small number of reported cases should be interpreted with caution.



Reported Hepatitis B Cases Colorado, 2011 Colorado Electronic Disease Reporting System (CEDRS)



The rate is calculated using the Estimated 2011 Census figures from the Colorado Division of Local Government, Demography section. Rates calculated for counties with a small number of reported cases should be interpreted with caution.

