Hepatitis A in Colorado

Surveillance Report



Office of the Chief Medical Officer 4300 Cherry Creek Drive South Denver, CO 80246-1530

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Executive Summary

- The reported annual incidence of Hepatitis A in Colorado from 1988 to 1998 was 15.1 cases per 100,000 population (Table 1), compared to the national rate of 10.8 per 100,000 during a similar time period (1987-1997; Figure 2).
- Hepatitis A rates have been steadily decreasing in Colorado from 25.3 per 100,000 in 1992 to 8.6 per 100,000 in 1998 and a projected 5.9 per 100,000 in 1999 (Figure 1).
- By gender, hepatitis A rates in Colorado from 1988-1998 have been higher in males than females (Figure 3). By age group, overall rates have been highest in the 5-9 year age group followed by the 20-39 year age group (Table 1).
- The age distribution of hepatitis A in Colorado has changed substantially from 1988-1998 (Figure 4). In 1992, the 5-14 year age group had the highest rate, whereas, in 1998 the 20-39 year age group had the highest rate which was at least twice that for all other age groups. In comparison, nationally, the 5-14 year age group remained with the highest rate through 1997 (Figure 5).
- In 1998, male and female hepatitis A rates were similar for age groups under age 20, whereas, male rates were substantially higher for ages \geq 20 (Figure 6). Males \geq 20 years of age comprised about 60 percent of reported hepatitis A cases in Colorado in 1998.
- Based on limited race/ethnicity data, hepatitis A rates in Colorado have been highest in Hispanics followed by American Indians, with rates in Whites, Blacks, and Asians being similar (Table 2). Almost 95 percent of cases reported with race/ethnicity information during 1989-1993, however, have been either White or Hispanic. Nationally, rates of hepatitis A are also substantially higher in Hispanics compared to Whites, Blacks, and Asians (Figure 7).
- The distribution of age group-specific rates of hepatitis A in Colorado varies by race/ethnicity (Table 2). In Hispanics and American Indians, the highest rates are in the 5-14 year age group, whereas, in Whites and Blacks, the highest rates are in the 20-39 year age group.

- Eight Colorado counties had average annual hepatitis A rates ≥ 20 per 100,000 during 1988-1998 (Table 4; Figure 8). However, six of these are rural counties with small numbers of cases. Denver County accounted for 33 percent of reported cases during this time period.
- Denver County, for which more complete race/ethnicity and sexual preference data are available through the Sentinel Counties Hepatitis Project, had highest hepatitis A rates in the 5-9 year age group from 1994-1998, followed by the 20-39 year age group (Table 5). Persons ages \geq 20 years, however, comprised more than 70 percent of reported cases.
- The age distribution of hepatitis A in Denver County has changed substantially from 1994-1998 (Figure 9). In 1994, the 5-14 year age group had the highest rate, whereas, in 1998 the 20-39 year age group had the highest rate which was more than twice that of any other age group.
- By race/ethnicity, the highest hepatitis A rates in Denver from 1994-1998 were in Hispanics and American Indians, followed by Whites (Table 6). More than 90 percent of reported cases, however, were either Hispanic or White. Among Whites, Blacks, and American Indians, the 20-39 year age group had the highest rates, whereas, in Hispanics, the 5-14 year age group had the highest rate.
- The proportion of Denver hepatitis A cases which are men who have sex with men (MSM) has steadily increased since 1988 (Figure 10). Most recently, MSM comprised 41 percent of all Denver hepatitis A cases and 55 percent of male cases in 1998.

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Table 1. Average Annual Rates of Hepatitis A, Colorado, 1988-1998 and 1998

| | 1988-19 | 998 | 1998 | } |
|-----------------|---------------------------|-------------------|-------|--------------------|
| | Average Cases per Year | Rate per 100,000* | Cases | Rate per 100,000** |
| Total | 541 | 15.1 | 345 | 8.6 |
| Male | 315 | 17.7 | 242 | 12.1 |
| Female | 224 | 12.4 | 102 | 5.0 |
| Age Group (0-1) | 5 | 4.8 | 6 | 5.3 |
| (2-4) | 28 | 16.6 | 10 | 5.8 |
| (5-9) | 71 | 25.9 | 26 | 8.6 |
| (10-14) | 46 | 17.7 | 9 | 3.1 |
| (15-19) | 36 | 14.4 | 17 | 5.7 |
| (20-39) | 251 | 21.1 | 165 | 13.6 |
| (40+) | 98 | 7.4 | 111 | 6.8 |

¹⁹⁹³ population estimates (derived in 1997) from Colorado Division of Local Government were used to calculate average annual rates.

^{*** 1998} population estimates (derived in 1997) from Colorado Division of Local Government were used to calculate rates.



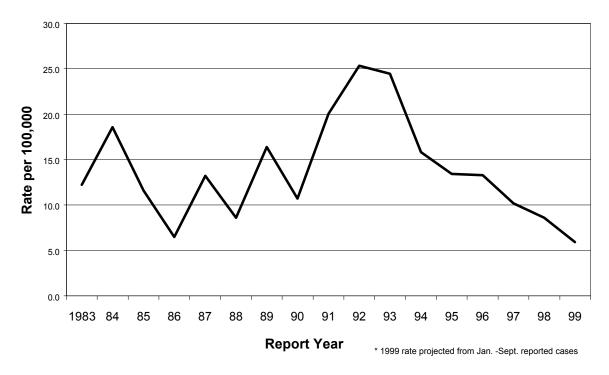


Figure 2 is not included in the web-based version of this report. This figure may be found at: www2.cdc.gov/mmwr/mmwr_rr.html in the report: "Prevention of Hepatitis A Through Active or Passive Immunization" published October 1, 1999 (Vol 48, No. RR-12).



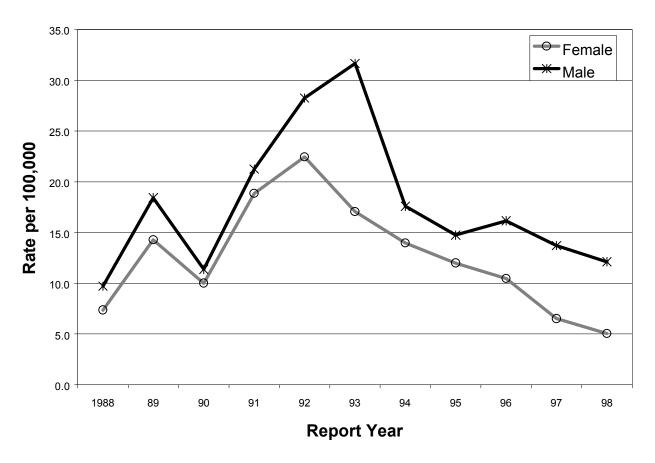


Figure 4. Hepatitis A Rates by Age Group and Year Colorado, 1988-1998

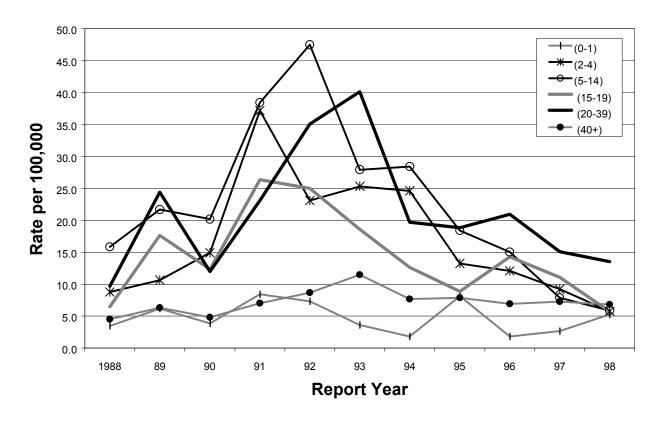


Figure 5 is not included in the web-based version of this report. This figure may be found at: www2.cdc.gov/mmwr/mmwr_rr.html in the report: "Prevention of Hepatitis A Through Active or Passive Immunization" published October 1, 1999 (Vol 48, No RR-12).

Figure 6. Hepatitis A Rates by Age Group and Sex Colorado, 1998

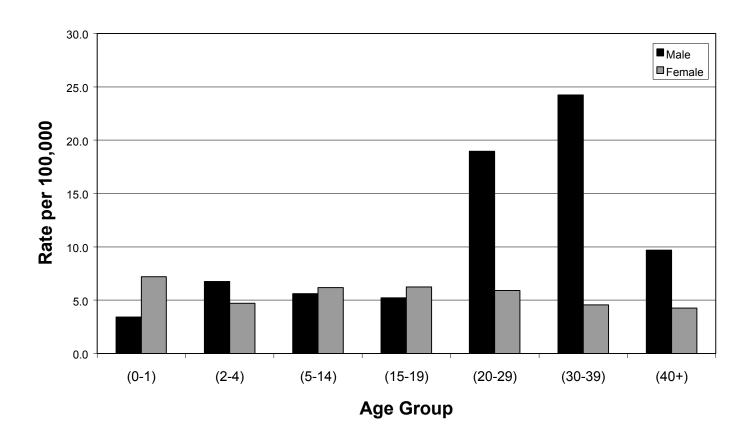


Table 2. Average Annual Rates* of Hepatitis A by Race/Ethnicity** & Age Group Colorado, 1989-1993***

| | Average Cases/Year | Total Rate | Ages (0-1) | Ages (2-4) | Ages (5-14) | Ages (15-19) | Ages (20-39) | Ages (40+) |
|------------|-----------------------|---------------|------------|---------------|-------------|--------------|--------------|------------|
| White | 232 | 8.5 | 2.3 | 6.8 | 8.4 | 5.5 | 14.9 | 4.2 |
| Black | 15 | 10.4 | 3.5 | 11.8 | 10.7 | 10.9 | 14.9 | 4.3 |
| Hispanic | 201 | 47.6 | 10.9 | 69.3 | 104.0 | 58.9 | 43.9 | 6.5 |
| Am. Indian | 6 | 18.7 | 0 | 10.2 | 53.9 | 0 | 19.1 | 4.6 |
| Asian | 5 | 7.1 | 9.2 | 11.7 | 13.2 | 3.7 | 7.3 | 3.3 |

Rates per 100,000 population. 1991 population estimates (derived in 1997) from Colorado Division of Local Government were used to calculate average annual rates.

** Race/ethnicity data are reported from a combination of active surveillance (patient interviews) in

Table 3. Colorado Population by Race/Ethnicity and Age Group, 1998*

| | Total | Ages (0-1) | Ages (2-4) | Ages (5-14) | Ages (15-19) | Ages (20-39) | Ages (40+) |
|------------|-----------|---------------|---------------|-------------|--------------|--------------|------------|
| White | 3,197,152 | 84,018 | 130,367 | 452,348 | 230,203 | 931,425 | 1,368,789 |
| Black | 170,248 | 5,782 | 8,539 | 29,058 | 13,320 | 58,836 | 54,713 |
| Hispanic | 525,496 | 20,744 | 29,608 | 94,118 | 44,501 | 182,197 | 154,329 |
| Am. Indian | 40,751 | 1,074 | 1,575 | 6,509 | 3,340 | 14,475 | 13,781 |
| Asian | 82,657 | 2,358 | 3,449 | 12,373 | 6,024 | 29,723 | 28,729 |
| Total | 4,016,300 | 113,981 | 173,535 | 594,407 | 297,396 | 1,216,655 | 1,620,326 |

¹⁹⁹⁸ population estimates (derived in 1997) from Colorado Division of Local Government.

Denver County, and from hospitals and physicians in the rest of the state

^{***} Race/ethnicity is missing for 31% of reported cases during this time period, whereas, for other years the rate of missing race/ethnicity data is substantially higher.

Figure 7 is not included in the web-based version of this report. This figure may be found at: www2.cdc.gov/mmwr/mmwr_rr.html in the report: "Prevention of Hepatitis A Through Active or Passive Immunization" published October 1, 1999 (Vol 48, No. RR-12).

Table 4. Average Annual Hepatitis A Rates* by County, Sex & Age Group**, Colorado, 1988-1998

| County | Avg. cases per | TOT Rate | Male Rate | Fem. Rate | | Ages (0-1) | Ages (2-4) | Ages (5-14) | Ages (15-19) | Ages (20-39) | Ages (40+) |
|------------------|-------------------------------------|-------------|--------------|--------------|--|------------|------------|-------------|--------------|--------------|------------|
| | yr. | | | | | , | | | | | , |
| Denver Metro (| Denver Metro (population=1,765,107) | | | | | | | | | | |
| Adams | 40 | 14.2 | 16.2 | 12.6 | | 0.9 | 12.9 | 20.9 | 14.7 | 19.7 | 6.9 |
| Arapahoe | 43 | 10.0 | 11.4 | 9.1 | | 3.5 | 7.3 | 8.2 | 7.2 | 15.7 | 7.0 |
| Denver | 177 | 36.0 | 47.3 | 25.1 | | 10.6 | 40.4 | 71.7 | 39.0 | 52.6 | 10.9 |
| Douglas | 7 | 9.0 | | | | | | | | | |
| Jefferson | 47 | 10.0 | 11.8 | 8.4 | | 3.4 | 7.8 | 9.6 | 10.3 | 15.4 | 6.3 |
| Other Fr Range | (populatio | n=1,152 | 2,785) | | | | | | | | |
| Boulder | 29 | 11.9 | 14.1 | 10.1 | | 6.7 | 17.5 | 10.3 | 7.8 | 16.3 | 8.6 |
| El Paso | 35 | 8.0 | | | | | | | | | |
| Larimer | 16 | 7.9 | | | | | | | | | |
| Pueblo | 19 | 15.3 | 16.7 | 14.0 | | 2.6 | 5.3 | 27.9 | 16.4 | 25.6 | 5.8 |
| Weld | 42 | 29.7 | 30.6 | 29.3 | | 2.0 | 38.2 | 63.8 | 35.5 | 32.3 | 11.9 |
| Other Metro (po | pulation= | 100,269 |) | | | | | | | | |
| Mesa | 8 | 7.9 | | | | | | | | | |
| Rural (populatio | n=561,750 | 9) | | | | | | | | | |
| Alamosa | 4 | 30.2 | 32.6 | 27.8 | | 18.5 | 74.8 | 74.8 | 36.8 | 14.1 | 15.8 |
| Archuleta | .1 | 1.5 | | | | | | | | | |
| Baca | .2 | 4.2 | | | | | | | | | |
| Bent | .6 | 11.7 | | | | | | | | | |
| Chaffee | .5 | 3.3 | | | | | | | | | |
| Cheyenne | .2 | 7.7 | | | | | | | | | |
| Clear Creek | .4 | 4.5 | | | | | | | | | |
| Conejos | .4 | 4.8 | | | | | | | | | |
| Costilla | 0 | 0 | | | | | | | | | |
| Crowley | .5 | 11.0 | | | | | | | | | |
| Custer | .3 | 11.5 | | | | | | | | | |
| Delta | 1 | 5.1 | | | | | | | | | |
| Dolores | .2 | 12.6 | | | | | | | | | |
| Eagle | 3 | 11.3 | | | | | | | | | |
| Elbert | .4 | 3.1 | | | | | | | | | |
| Fremont | 3 | 7.8 | | | | | | | | | |
| Garfield | 3 | 9.3 | | | | | | | | | |
| Gilpin | .3 | 8.1 | | | | | | | | | |
| Grand | .5 | 5.3 | | | | | | | | | |
| Gunnison | 1 | 9.7 | | | | | | | | | |

| County | Avg. | TOT | Male | Fem. | Ages | Ages | Ages | Ages | Ages | Ages |
|------------|---------------|------|------|------|-------|-------|--------|---------|---------|-------|
| | cases per yr. | Rate | Rate | Rate | (0-1) | (2-4) | (5-14) | (15-19) | (20-39) | (40+) |
| Hinsdale | .1 | 16.9 | | | | | | | | |
| Huerfano | .9 | 14.2 | | | | | | | | |
| Jackson | .1 | 5.3 | | | | | | | | |
| Kiowa | 0 | 0 | | | | | | | | |
| Kit Carson | .3 | 3.8 | | | | | | | | |
| Lake | .5 | 8.5 | | | | | | | | |
| La Plata | 4 | 12.2 | | | | | | | | |
| Las Animas | 2 | 11.3 | | | | | | | | |
| Lincoln | .2 | 3.0 | | | | | | | | |
| Logan | 2 | 14.1 | | | | | | | | |
| Mineral | 0 | 0 | | | | | | | | |
| Moffat | .5 | 4.6 | | | | | | | | |
| Montezuma | 7 | 33.7 | 33.6 | 33.7 | 27.6 | 45.1 | 83.3 | 27.5 | 34.9 | 11.2 |
| Montrose | 2 | 7.0 | | | | | | | | |
| Morgan | 3 | 10.9 | | | | | | | | |
| Otero | 9 | 44.3 | 42.6 | 45.0 | 0.0 | 38.6 | 148.1 | 17.8 | 49.1 | 11.1 |
| Ouray | 0 | 0 | | | | | | | | |
| Park | 1 | 13.7 | | | | | | | | |
| Phillips | .3 | 6.2 | | | | | | | | |
| Pitkin | 3 | 22.9 | 27.6 | 20.5 | 0.0 | 0.0 | 18.8 | 17.6 | 31.5 | 19.4 |
| Prowers | .5 | 4.1 | | | | | | | | |
| Rio Blanco | .6 | 9.7 | | | | | | | | |
| Rio Grande | 2 | 17.8 | | | | | | | | |
| Routt | 2 | 12.2 | | | | | | | | |
| Saguache | 1 | 31.0 | 14.3 | 48.4 | 0.0 | 35.1 | 80.7 | 71.4 | 33.0 | 0.0 |
| San Juan | .1 | 17.0 | | | | | | | | |
| San Miguel | .7 | 15.4 | | | | | | | | |
| Sedgwick | 0 | 0 | | | | | | | | |
| Summit | 4 | 31.0 | 33.4 | 28.2 | 20.2 | 104.9 | 30.5 | 14.6 | 30.0 | 24.2 |
| Teller | 1 | 7.9 | | | | | | | | |
| Washington | .1 | 1.7 | | | | | | | | |
| Yuma | .6 | 6.9 | | | | | | | | |

¹⁹⁹³ population estimates (derived in 1997) from Colorado Division of Local Government were used to calculate average annual rates.

^{**} Age group- and sex-specific rates are presented only for counties with average annual Hepatitis A rates ≥ 20/100,000 or for counties with average annual rates between 10-20/100,00 and an average of ≥5 cases per year.

Figure 8. Average Annual Rates of Hepatitis A by County Colorado, 1988-1998

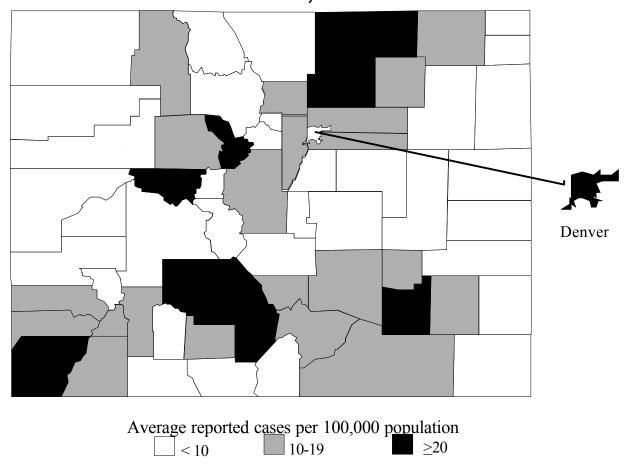


Table 5. Average Annual Rates of Hepatitis A,* Denver, 1994-1998

| | 1994-1998 | | | | |
|-----------------|---------------------------|--------------------|--|--|--|
| | Average Cases per Year | Rate per 100,000** | | | |
| Total | 138 | 27.8 | | | |
| Male | 100 | 41.5 | | | |
| Female | 38 | 14.9 | | | |
| Age Group (0-4) | 8 | 21.1 | | | |
| (5-9) | 17 | 55.3 | | | |
| (10-14) | 8 | 26.5 | | | |
| (15-19) | 8 | 25.6 | | | |
| (20-39) | 77 | 47.8 | | | |
| (40+) | 21 | 9.9 | | | |

^{*} Cases reported to the Denver Sentinel Counties Hepatitis Project.
** 1996 population estimates by county, race, and Hispanic origin from the U.S. Census Bureau were used to calculate average annual rates.

Figure 9. Hepatitis A Rates by Age Group and Year Denver, 1994-1998

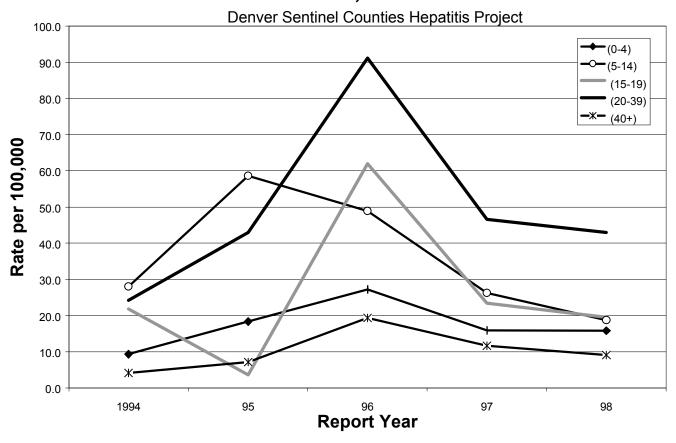


Table 6. Average Annual Rates of Hepatitis A* by Race/Ethnicity** & Age Group Denver, 1994-1998

| | Average Cases/Year | Total Rate*** | Ages (0-4) | Ages (5-14) | Ages (15-19) | Ages (20-39) | Ages (40+) |
|------------|-----------------------|------------------|---------------|-------------|--------------|--------------|------------|
| White | 73 | 25.4 | 8.3 | 17.6 | 22.0 | 49.0 | 12.8 |
| Black | 7 | 9.8 | 3.8 | 6.7 | 7.0 | 22.9 | 3.0 |
| Hispanic | 50 | 43.0 | 41.2 | 89.3 | 41.8 | 51.7 | 4.8 |
| Am. Indian | 3 | 40.0 | 60.8 | 29.0 | 0 | 86.2 | 0 |
| Asian | 1 | 4.0 | 0 | 9.1 | 0 | 7.2 | 0 |
| Total | 138 | 27.8 | 21.1 | 41.5 | 25.6 | 47.8 | 9.9 |

^{*} Cases reported to the Denver Sentinel Counties Hepatitis Project.

** Page/athnicity data were ascertained through patient interv

Table 7. Denver Population by Race/Ethnicity and Age Group, 1998*

| | Total | Ages (0-4) | Ages (5-14) | Ages (15-19) | Ages (20-39) | Ages (40+) |
|------------|---------|---------------|-------------|--------------|--------------|------------|
| White | 280,136 | 13,935 | 22,022 | 12,362 | 88,866 | 142,951 |
| Black | 73,682 | 4,887 | 12,414 | 6,265 | 20,569 | 29,547 |
| Hispanic | 122,170 | 15,219 | 23,147 | 11,355 | 36,866 | 35,583 |
| Am. Indian | 6,993 | 636 | 1,379 | 614 | 2,217 | 2,147 |
| Asian | 16,074 | 1,623 | 2,408 | 1,262 | 5,703 | 5,078 |
| Total | 499,055 | 36,300 | 61,370 | 31,858 | 154,221 | 215,306 |

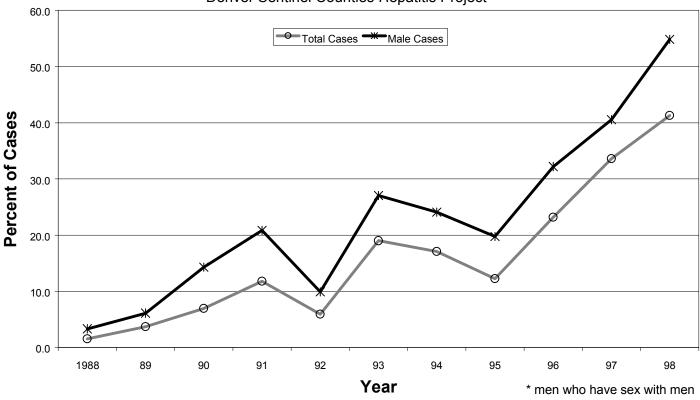
^{* 1998} population estimates by county, race, and Hispanic origin from the U.S. Census Bureau.

^{**} Race/ethnicity data were ascertained through patient interviews and are 97% complete.

*** Rates per 100,000 population. 1996 population estimates by county, race, and Hispanic origin from the U.S. Census Bureau were used to calculate average annual rates.

Figure 10. Percent MSM* Hepatitis A Cases by Year Denver, 1988-1998

Denver Sentinel Counties Hepatitis Project



Current Hepatitis A Vaccine Strategies

- On December 27, 1996, the Advisory Committee on Immunization Practices (ACIP) of the U.S. Public Health Service recommended the vaccination of children and young adults in communities with intermediate and high rates of hepatitis A infection. Based on a review of Colorado data from 1990-1996, the Colorado Department of Public Health and Environment (CDPHE) made hepatitis A vaccine available in January, 1999 through the Vaccines for Children (VFC) Program. VFC serves children who are uninsured or underinsured and seeking services in a federally qualified health center.
- Hepatitis A vaccine is available to all VFC eligible clients ages 2 through 18 years in Denver, Weld, Adams, Boulder, Jefferson, and Araphoe counties. Later, Mesa county met the intermediate risk threshold of 10 cases per/100,000 population due to an outbreak. Other counties may administer the vaccine to VFC-eligible clients ages 2 through 18 years in the following categories: persons with chronic liver disease; persons with clotting factor disorders; males who have sex with males (MSM); and intravenous drug users.
- CDPHE also recommends administration of VFC hepatitis A vaccine for children in situations of ongoing transmission within a defined "setting" or "social network" (e.g. school, child care, extended family).
- Table 8 describes the population that currently meets the ACIP guidelines for communities at "intermediate risk" of hepatitis A. The table indicates counties currently included in the VFC program for hepatitis A vaccine and those that CDPHE is proposing to add to the VFC program. Currently, the seven counties covered by the VFC program include 58% of Colorado's children. Under the new proposal, the counties covered by the VFC program would include an additional 13% of Colorado's children. The exact proportion of children in a county who are VFC eligible, however, is unknown. CDPHE estimates that this proportion ranges from 50%-80%.
- Currently, there is not a dependable federal or state funded mechanism for providing hepatitis A vaccine to at-risk adults. These adults include: travelers to developing countries, persons with chronic liver disease; persons with clotting factor disorders; males who have sex with males; and intravenous drug users. CDPHE is encouraging vaccination of these individuals through public/private partnerships.
- CDPHE provides a limited supply of hepatitis A vaccine to the three Denver metro local health departments for administration to contacts of hepatitis A cases who are likely to be efficient transmitters if they become infected (e.g. MSM).

Table 8. Population Eligible for Hepatitis A Vaccine through Vaccines for Children Program by Age Group and County, Colorado, 1997*

| Current VFC Counties | | | | | | | | |
|------------------------|------------------|-----------------|-------------------------------|--|--|--|--|--|
| County | Ages 2-4 years** | Ages 5-19 years | Total Estimated Population | | | | | |
| Adams | 15216 | 74705 | 89921 | | | | | |
| Arapahoe | 19398 | 101370 | 120768 | | | | | |
| Boulder | 9985 | 57480 | 67465 | | | | | |
| Denver | 26296 | 102377 | 128673 | | | | | |
| Jefferson | 19785 | 107999 | 127784 | | | | | |
| Mesa | 4303 | 25090 | 29393 | | | | | |
| Weld | 7312 | 37688 | 45000 | | | | | |
| TOTALS | 102,294 | 506,709 | 609,003 | | | | | |
| Proposed New VF | C Counties | | | | | | | |
| Alamosa | 743 | 4223 | 4966 | | | | | |
| Bent | 217 | 1175 | 1392 | | | | | |
| Crowley | 149 | 878 | 1027 | | | | | |
| Custer | 131 | 692 | 823 | | | | | |
| Dolores | 65 | 387 | 452 | | | | | |
| Eagle | 1607 | 7193 | 8800 | | | | | |
| Hinsdale | 23 | 127 | 150 | | | | | |
| Huerfano | 243 | 1568 | 1811 | | | | | |
| LaPlata | 1506 | 9833 | 11339 | | | | | |
| LasAnimas | 575 | 3366 | 3941 | | | | | |
| Logan | 800 | 4134 | 4934 | | | | | |
| Montezuma | 1035 | 5661 | 6696 | | | | | |
| Morgan | 1419 | 6469 | 7888 | | | | | |
| Otero | 973 | 5008 | 5981 | | | | | |
| Park | 515 | 2822 | 3337 | | | | | |

| Pitkin | 461 | 2261 | 2722 |
|---------------------------------|---------|---------|-----------|
| Pueblo | 5463 | 29511 | 34974 |
| Rio Grande | 521 | 2950 | 3471 |
| Routt | 608 | 3902 | 4510 |
| Saguache | 293 | 1489 | 1782 |
| San Juan | 22 | 140 | 162 |
| San Miguel | 198 | 1163 | 1361 |
| Summit | 763 | 3635 | 4398 |
| TOTAL | 18,330 | 98,587 | 116,917 |
| TOTAL COLORADO POPULATION | 172,406 | 872,533 | 1,044,939 |

^{* 1997} population estimates (derived in 1997) from Colorado Division of Local Government ** estimated as 75% of ages 1-4 population