

MORBIDITY AND MORTALITY WEEKLY REPORT

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## Cholera Associated with Food Transported from El Salvador - Indiana, 1994

Since the onset of the cholera epidemic in Latin America in 1991, most cases of cholera in the United States have occurred among persons traveling to the United States from cholera-affected areas or who have eaten contaminated food brought or imported from these areas. In December 1994, a cluster of cholera cases occurred among persons in Indiana who had shared a meal of contaminated food brought from El Salvador. This report summarizes the investigation of the cases conducted by the Indiana State Department of Health (ISDH) in collaboration with the local health departments in Jasper and Newton counties (Indiana), the Illinois Department of Public Health, and the DeWitt-Piatt (Illinois) Bi-County Health Department.

On December 30, 1994, a 56 -year-old male resident of Illinois who was visiting relatives in Indiana had onset of severe watery diarrhea, nausea, and vomiting. On December 31, he was evaluated at a local hospital and admitted because of dehydration and hypothermia. Culture of a stool sample obtained from the patient on admission yielded toxigenic Vibrio cholerae O1, serotype Ogawa, biotype EI Tor. The culture was confirmed by ISDH, the Kentucky Department for Health Services, and CDC. He was treated with intravenous rehydration and antibiotics and was discharged on January 7, 1995. The patient's 51-year-old wife also had onset of watery diarrhea on December 30. She was evaluated at the same hospital on December 31 and again on January 2, 1995. Stool cultures obtained on both occasions were negative for bacterial pathogens but were not cultured specifically for $V$. cholerae on thiosulfate-citrate-bile salts-sucrose (TCBS) agar.

During the month preceding onset of their illnesses, these persons had neither traveled outside the United States nor eaten raw shellfish. On December 29, while visiting their 26-year-old daughter in Indiana, they shared a meal with her and their 18 -year-old son. The meal comprised palm fruit, bread, and white cheese, all of which had been brought from El Salvador to Indiana 2 days earlier by a relative. Neither their daughter nor son reported diarrhea.

To determine the number of persons infected with V. cholerae O1, serum was obtained from the four persons who shared the meal and from the 28 -year-old son-in-law who did not eat any of the food items from El Salvador. Vibriocidal antibody titers $\geq 640$, indicating recent infection with $V$. cholerae 01 , were detected in the four persons who had shared the meal but not in the son-in-law. Although the relative
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who brought the food had returned to El Salvador before he could be interviewed, family members reported that he had had no diarrheal illness while in the United States. The methods of preparation of the foods in El Salvador could not be determined; however, the palm fruit was reportedly home-canned in a salt and vinegar solution. No food items were available for testing.
Reported by: N Bailey, M Louck, MD, Jasper County Health Dept, Rensselaer; D Hopkins, J Parker, MD, Newton County Health Dept, Morocco; A Oglesby, D Ewert, MPH, B Barrett, K Laurie, E Muniz, MD, State Epidemiologist, Indiana State Dept of Health. N Wade, DeWitt-Piatt Bi-County Health Dept, Clinton; P Piercy, MSPH, BJ Francis, MD, State Epidemiologist, Illinois Dept of Public Health. T Maxson, DrPH, M Russell, R Finger, MD, State Epidemiologist, Dept for Health Svcs, Kentucky Cabinet for Human Resources. Foodborne and Diarrheal Diseases Br, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases, CDC.
Editorial Note: Although most recent cases of cholera in the United States have been associated with international travel (1,2), three U.S. outbreaks have been linked to consumption of food transported from other countries: two associated with crab meat transported in suitcases from Ecuador ( 3,4 ) and one associated with commercial frozen coconut milk imported from Thailand (5). The investigation of the cases in Indiana did not implicate a specific contaminated food item; however, of the three food items transported from El Salvador, canned palm fruit is more likely to support the growth of $V$. cholerae than dry foods, such as bread or cheese.

Since the introduction of cholera into Latin America in 1991, approximately 1 million cases and 9000 associated deaths have been reported to the Pan American Health Organization (PAHO) (2). In 1994, El Salvador and 12 other countries in Latin America reported cholera cases to PAHO (2). Travelers to Latin America and cholera-affected areas in Asia and Africa should eat only foods that have been cooked and are still hot and should drink only beverages that are carbonated or made from boiled or chlorinated water. Travelers also should be advised not to transport food from cholera-affected areas.

The health-care providers who evaluated and treated the patients in this report initially did not suspect cholera because the patients had had no history of recent travel. Patients with severe diarrhea or suspected cholera should be asked about histories of recent travel and consumption of foods transported from another country. Stool samples obtained from persons with suspected cholera should be cultured on TCBS agar because other media routinely used for stool cultures may not support the growth of V. cholerae. Isolates of V. cholerae should be sent to a state public health laboratory for serogrouping; isolates that are serogroup O1 or O139 should subsequently be referred to CDC for toxin testing.

## References

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4. Finelli L, Swerdlow D, Mertz K, Ragazzoni H, Spitalny K. Outbreak of cholera associated with crab brought from an area with epidemic disease. J Infect Dis 1992;166:1433-5.
5. Taylor JL, Tuttle J, Pramukul T, et al. An outbreak of cholera in Maryland associated with imported commercial frozen fresh coconut milk. J Infect Dis 1993;167:1330-5.

## Tuberculosis Morbidity - United States, 1994

In 1994, a total of 24,361 cases of tuberculosis (TB) (9.4 cases per 100,000 population) were reported to CDC from the 50 states, the District of Columbia, and New York City, a $3.7 \%$ decrease from 1993 ( 25,287 cases [ 9.8 cases per 100,000]) (1). However, the number of cases reported in 1994 was a $9.7 \%$ increase over 1985 (22,201 cases) (Figure 1), the year with the lowest number of reported TB cases since national reporting began in 1953. This report summarizes TB surveillance data for 1994 and compares the findings with 1992 and 1993.

During 1994, a total of 27 states reported fewer TB cases than in 1993; in comparison, during 1993, 31 states reported fewer cases than in 1992 (Table 1). Sixteen states reported fewer cases in both 1993 and 1994 than in 1992 and 1993. Six states reported an increased number of cases in both 1993 and 1994 than in 1992 and 1993 (Table 1).

During 1994, TB cases reported among persons born outside the United States and its territories (i.e., foreign-born persons) accounted for $31.9 \%$ ( 7627 of 23,905 ) of total reported cases (excludes 456 persons with unknown country of origin), compared with $29.6 \%$ ( 7354 of 24,818 ) of reported cases in 1993 (excludes 469 persons with unknown country of origin). Compared with 1993, in 1994 the number of reported cases among persons born in the United States decreased by $6.8 \%$, and the number of cases among foreign-born persons increased by $3.7 \%$. The number of cases occurring in U.S.-born persons decreased in all age groups except for children aged <15 years; in this age group, the number of cases in 1994 increased $0.4 \%$. In comparison, the number of reported cases among foreign-born persons increased in all age groups except for children aged <15 years; in this age group, the number of cases decreased by $7.5 \%$ in 1994. The country of origin was known for 7483 ( $98.1 \%$ ) foreign-born persons

FIGURE 1. Number of tuberculosis cases, by year — United States, 1975-1994


Tuberculosis - Continued
TABLE 1. Reported tuberculosis cases and percentage change, by state and year United States, 1992-1994

| State | No. cases |  |  | \% Change |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1992 | 1993 | 1994 | 1992-1993 | 1993-1994 |
| Alabama | 418 | 487 | 433 | +16.5 | -11.9 |
| Alaska | 57 | 57 | 93 | 0 | +63.2 |
| Arizona | 259 | 231 | 249 | -10.8 | + 7.8 |
| Arkansas | 257 | 209 | 264 | -18.7 | +26.3 |
| California | 5,382 | 5,170 | 4,859 | - 3.9 | - 6.0 |
| Colorado | 104 | 104 | 94 | 0 | - 9.6 |
| Connecticut | 156 | 155 | 148 | - 0.6 | - 4.5 |
| Delaware | 55 | 66 | 57 | +20.0 | -13.6 |
| District of Columbia | 146 | 161 | 121 | +10.3 | -24.8 |
| Florida | 1,707 | 1,655 | 1,762 | - 3.0 | + 6.5 |
| Georgia | 893 | 812 | 740 | - 9.1 | - 8.9 |
| Hawaii | 273 | 251 | 247 | - 8.1 | - 1.6 |
| Idaho | 26 | 11 | 13 | -57.7 | +18.2 |
| Illinois | 1,270 | 1,237 | 1,117 | - 2.6 | - 9.7 |
| Indiana | 247 | 248 | 211 | + 0.4 | -14.9 |
| lowa | 49 | 59 | 66 | +20.4 | +11.9 |
| Kansas | 56 | 80 | 84 | +42.9 | + 5.0 |
| Kentucky | 402 | 404 | 347 | + 0.5 | -14.1 |
| Louisiana | 373 | 367 | 433 | - 1.6 | +18.0 |
| Maine | 24 | 28 | 35 | +16.7 | +25.0 |
| Maryland | 442 | 417 | 363 | - 5.7 | -13.0 |
| Massachusetts | 428 | 370 | 329 | -13.6 | -11.1 |
| Michigan | 495 | 480 | 462 | - 3.0 | - 3.8 |
| Minnesota | 165 | 144 | 140 | -12.7 | - 2.8 |
| Mississippi | 281 | 279 | 278 | - 0.7 | - 0.4 |
| Missouri | 245 | 257 | 260 | + 4.9 | + 1.2 |
| Montana | 16 | 22 | 24 | +37.5 | + 9.1 |
| Nebraska | 28 | 23 | 22 | -17.9 | - 4.6 |
| Nevada | 99 | 99 | 126 | 0 | +27.3 |
| New Hampshire | 18 | 26 | 17 | +44.4 | -34.6 |
| New Jersey | 984 | 912 | 855 | - 7.3 | - 6.3 |
| New Mexico | 88 | 74 | 81 | -15.9 | + 9.5 |
| New York | 4,574 | 3,953 | 3,636 | -13.6 | - 8.0 |
| North Carolina | 604 | 594 | 566 | - 1.7 | - 4.7 |
| North Dakota | 11 | 7 | 10 | -36.4 | +42.9 |
| Ohio | 358 | 315 | 337 | -12.0 | + 7.0 |
| Oklahoma | 216 | 209 | 261 | - 3.2 | +24.9 |
| Oregon | 145 | 154 | 165 | + 6.2 | + 7.1 |
| Pennsylvania | 758 | 749 | 621 | - 1.2 | -17.1 |
| Rhode Island | 54 | 64 | 56 | +18.5 | -12.5 |
| South Carolina | 387 | 401 | 387 | + 3.6 | - 3.5 |
| South Dakota | 32 | 16 | 28 | -50.0 | +75.0 |
| Tennessee | 527 | 556 | 520 | + 5.5 | - 6.5 |
| Texas | 2,510 | 2,396 | 2,542 | - 4.5 | + 6.1 |
| Utah | 78 | 46 | 55 | -41.0 | +19.6 |
| Vermont | 7 | 7 | 10 | 0 | +42.9 |
| Virginia | 457 | 458 | 372 | + 0.2 | -18.9 |
| Washington | 306 | 285 | 264 | - 6.9 | - 7.4 |
| West Virginia | 92 | 75 | 80 | -18.5 | + 6.7 |
| Wisconsin | 106 | 100 | 109 | - 5.7 | + 9.0 |
| Wyoming | 8 | 7 | 12 | -12.5 | +71.4 |
| Total | 26,673 | 25,287 | 24,361 | - 5.2 | - 3.7 |

## Tuberculosis - Continued

with cases reported in 1994; six countries (Haiti, India, Mexico, People's Republic of China, Philippines, and Vietnam) accounted for $64.8 \%$ of these cases. However, these countries accounted for only $35.2 \%$ of the foreign-born population in the United States in 1990 (2). Of the 4907 foreign-born persons reported in 1994 whose records contained information on month and year of immigration, TB was diagnosed in 1474 (30.0\%) <1 year after entering the United States.

Beginning in January 1993, TB surveillance was expanded to collect additional information concerning each case, including results of human immunodeficiency virus (HIV)-antibody testing, occupation, history of substance abuse, homelessness, residence in a correctional or long-term-care facility, initial antituberculosis drug therapy and results of drug-susceptibility testing (3). Selected characteristics were analyzed for cases in reporting areas where $\geq 75 \%$ of records contained information for 1994. Based on information from 51 of the reporting areas, $53.7 \%$ of cases had been prescribed the initial four-drug regimen recommended by the American Thoracic Society and CDC (isoniazid [INH], rifampin [RIF], pyrazinamide [PZA], and either ethambutol or streptomycin) (4); 22.4\% of patients had been prescribed INH, RIF, and PZA; 6.8\% of patients had been prescribed INH and RIF. In $\leq 25$ reporting areas, use of illegal drugs and alcohol among patients ranged from $3.3 \%$ for injecting drugs to $15.9 \%$ for alcohol. In 31 reporting areas, $64.9 \%$ of patients were unemployed. In 40 reporting areas, $5.7 \%$ of persons were homeless; in 50 reporting areas, $4.6 \%$ resided in correctional institutions, and in 48 reporting areas, $6.0 \%$ resided in long-term-care facilities. HIVtest results were available for $36.4 \%$ of all patients aged $25-44$ years; however, only nine areas reported this information for $\geq 75 \%$ of records.

Drug-susceptibility results for Mycobacterium tuberculosis isolates were reported for $81.7 \%$ of persons with culture-positive TB in 1994. For 28 states, drug-susceptibility results were available for $\geq 75 \%$ of cases; $8.0 \%$ of cases were resistant to at least isoniazid (INH), and $2.2 \%$ were resistant to at least INH and rifampin (RIF). The 28 states reporting drug-susceptibility results accounted for $64 \%$ of the culturepositive cases reported in 1994 and included 12 states in which the reported prevalence of INH and RIF resistance was $\geq 1 \%$ in 1993 (1) or in the previous national survey in 1991 (5).
Reported by: Div of Tuberculosis Elimination, National Center for Prevention Svcs, CDC.
Editorial Note: From 1985 through 1992, the number of TB cases reported annually in the United States increased $20 \%$, from 22,201 to 26,673 (6). Factors that have been associated with the resurgence of TB have included the HIV/acquired immunodeficiency syndrome (AIDS) epidemic; immigration of persons from countries where TB incidence rates are 10-30 times higher than in the United States; transmission of TB among persons residing in congregate settings such as hospitals, prisons, and homeless shelters; and declines in resources for TB control (6). From 1992 through 1994, the number of TB cases reported annually decreased $8.7 \%$, in part reflecting the impact of federal resources to assist state and local TB-control efforts, including directly observed therapy (DOT), tuberculin screening and preventive therapy for persons at high risk for TB infection, and support for programs to prevent TB among HIV-infected persons.

Although the expansion of the TB surveillance system in 1993 was implemented to enable more complete characterization of TB morbidity in specific risk groups, reporting has been incomplete for some factors. For example, in 1994, only 28 states

FIGURE I. Notifiable disease reports, comparison of 4-week totals ending May 20, 1995, with historical data - United States


* The large apparent decrease in the number of reported cases of measles (total) reflects dramatic fluctuations in the historical baseline.
${ }^{\dagger}$ Ratio of current 4 -week total to mean of 154 -week totals (from previous, comparable, and subsequent 4 -week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE I. Summary - cases of specified notifiable diseases, United States, cumulative, week ending May 20, 1995 (20th Week)

|  | Cum. 1995 |  | Cum. $\mathbf{1 9 9 5}$ |
| :--- | ---: | :--- | :---: |
| Anthrax | - | Psittacosis | 23 |
| Brucellosis | 23 | Rabies, human | 1 |
| Cholera | 6 | Rocky Mountain Spotted Fever | 52 |
| Congenital rubella syndrome | 3 | Syphilis, congenital, age < 1 year ${ }^{\dagger}$ | - |
| Diphtheria | 1 | Tetanus | 8 |
| Haemophilus influenzae* | 508 | Toxic shock syndrome | 80 |
| Hansen Disease | 48 | Trichinosis | 18 |
| Plague | 2 | Typhoid fever | 113 |
| Poliomyelitis, Paralytic | - |  |  |

*Of 494 cases of known age, 121 ( $24 \%$ ) were reported among children less than 5 years of age.
${ }^{\dagger}$ Updated quarterly from reports to the Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services. First quarter data not yet available.
-: no reported cases

TABLE II. Cases of selected notifiable diseases, United States, weeks ending May 20, 1995, and May 21, 1994 (20th Week)

| Reporting Area | AIDS* <br> Cum. <br> 1995 | Gonorrhea |  | Hepatitis (Viral), by type |  |  |  |  |  | Legionellosis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | A |  | B |  | C/NA,NB |  |  |  |
|  |  | $\begin{aligned} & \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1994 \\ & \hline \end{aligned}$ |
| UNITED STATES | 19,652 | 135,771 | 142,527 | 9,288 | 8,321 | 3,429 | 4,544 | 1,521 | 1,642 | 488 | 539 |
| NEW ENGLAND | 842 | 1,652 | 3,170 | 71 | 127 | 64 | 165 | 43 | 57 | 4 | 9 |
| Maine | 23 | 30 | 34 | 13 | 11 | 2 | 7 | - | - | 1 | - |
| N.H. | 38 | 40 | 28 | 4 | 4 | 8 | 13 | 2 | 5 | - | - |
| V . | 7 | 18 | 11 | 3 | 1 | 1 | 5 | - | 6 | - | - |
| Mass. | 457 | 999 | 1,129 | 32 | 60 | 27 | 106 | 41 | 35 | 3 | 5 |
| R.I. | 59 | 14 | 177 | 1 | 12 | - | 3 | - | 11 | - | 4 |
| Conn. | 258 | 551 | 1,791 | 18 | 39 | 26 | 31 | - | - | N | N |
| MID. ATLANTIC | 4,550 | 13,793 | 16,099 | 504 | 579 | 414 | 577 | 127 | 204 | 55 | 61 |
| Upstate N.Y. | 521 | 2,612 | 3,473 | 138 | 189 | 134 | 148 | 66 | 92 | 16 | 15 |
| N.Y. City | 2,342 | 4,571 | 6,289 | 224 | 206 | 104 | 131 | 1 | 1 | - | 1 |
| N.J. | 1,112 | 1,310 | 2,073 | 71 | 121 | 106 | 144 | 49 | 94 | 11 | 11 |
| Pa . | 575 | 5,300 | 4,264 | 71 | 63 | 70 | 154 | 11 | 17 | 28 | 35 |
| E.N. CENTRAL | 1,622 | 29,331 | 30,504 | 1,189 | 767 | 373 | 464 | 105 | 150 | 136 | 189 |
| Ohio | 409 | 9,763 | 9,379 | 733 | 226 | 43 | 76 | 5 | 8 | 72 | 69 |
| Ind. | 106 | 2,614 | 2,983 | 57 | 136 | 85 | 84 | - | 3 | 27 | 64 |
| III. | 737 | 7,876 | 8,964 | 186 | 235 | 72 | 131 | 22 | 41 | 10 | 11 |
| Mich. | 278 | 7,251 | 6,483 | 151 | 99 | 157 | 137 | 78 | 98 | 14 | 29 |
| Wis. | 92 | 1,827 | 2,695 | 62 | 71 | 16 | 36 | - | - | 13 | 16 |
| W.N. CENTRAL | 427 | 7,238 | 8,083 | 532 | 372 | 204 | 253 | 38 | 29 | 44 | 35 |
| Minn. | 93 | 1,152 | 1,242 | 63 | 76 | 20 | 28 | 2 | 6 | - | - |
| lowa | 20 | 577 | 515 | 32 | 11 | 15 | 12 | 3 | 7 | 9 | 20 |
| Mo. | 148 | 4,306 | 4,295 | 361 | 179 | 139 | 185 | 23 | 5 | 27 | 7 |
| N. Dak. | 1 | 10 | 16 | 13 | 1 | 2 | - | 1 | - | 3 | 3 |
| S. Dak. | 1 | 70 | 70 | 11 | 15 | 1 | - | 1 | - | - | - |
| Nebr. | 43 | - | 452 | 9 | 46 | 9 | 13 | 3 | 5 | 3 | 3 |
| Kans. | 121 | 1,123 | 1,493 | 43 | 44 | 18 | 15 | 5 | 6 | 2 | 2 |
| S. ATLANTIC | 5,708 | 40,495 | 38,638 | 413 | 414 | 478 | 909 | 119 | 244 | 78 | 140 |
| Del. | 113 | 774 | 690 | 7 | 13 | 2 | 7 | 1 | 1 | - | - |
| Md. | 978 | 4,741 | 7,247 | 71 | 63 | 79 | 145 | 3 | 13 | 16 | 31 |
| D.C. | 373 | 1,868 | 2,506 | 3 | 10 | 10 | 16 | - | - | 3 | 4 |
| Va. | 374 | 4,195 | 4,814 | 75 | 53 | 35 | 46 | 3 | 17 | 4 | 3 |
| W. Va. | 21 | 224 | 278 | 10 | 4 | 21 | 10 | 20 | 13 | 3 | 1 |
| N.C. | 248 | 9,467 | 9,571 | 50 | 46 | 116 | 115 | 25 | 27 | 14 | 10 |
| S.C. | 280 | 4,447 | 4,656 | 14 | 11 | 20 | 14 | 7 | 3 | 16 | 3 |
| Ga. | 594 | 6,729 | U | 41 | 21 | 49 | 401 | 11 | 147 | 9 | 69 |
| Fla. | 2,727 | 8,050 | 8,876 | 142 | 193 | 146 | 155 | 49 | 23 | 13 | 19 |
| E.S. CENTRAL | 612 | 17,234 | 13,086 | 479 | 164 | 289 | 469 | 422 | 310 | 11 | 24 |
| Ky. | 63 | 1,738 | 1,697 | 18 | 86 | 29 | 44 | 6 | 12 | 1 | 4 |
| Tenn. | 269 | 5,079 | 5,138 | 387 | 54 | 208 | 395 | 414 | 293 | 6 | 13 |
| Ala. | 159 | 7,215 | 6,251 | 50 | 24 | 52 | 30 | 2 | 5 | 3 | 7 |
| Miss. | 121 | 3,202 | U | 24 | U |  | U | - | U | 1 | U |
| W.S. CENTRAL | 1,404 | 12,672 | 16,145 | 1,044 | 1,060 | 498 | 463 | 211 | 145 | 5 | 11 |
| Ark. | 64 | 1,490 | 2,505 | 91 | 20 | 18 | 8 | 1 | 3 |  | 4 |
| La. | 299 | 4,547 | 4,704 | 32 | 60 | 64 | 67 | 47 | 36 | 2 | - |
| Okla. | 84 | 873 | 1,448 | 191 | 95 | 152 | 121 | 151 | 80 | 2 | 7 |
| Tex. | 957 | 5,762 | 7,488 | 730 | 885 | 264 | 267 | 12 | 26 | 1 | - |
| MOUNTAIN | 637 | 2,990 | 3,682 | 1,681 | 1,635 | 297 | 231 | 181 | 174 | 94 | 39 |
| Mont. | 8 | 32 | 38 | 24 | 11 | 9 | 7 | 7 | 2 | 2 | 13 |
| Idaho | 17 | 51 | 33 | 172 | 139 | 38 | 35 | 22 | 43 | 1 | - |
| Wyo. | 4 | 19 | 35 | 64 | 7 | 7 | 7 | 70 | 50 | 2 | 2 |
| Colo. | 214 | 1,154 | 1,267 | 216 | 188 | 50 | 41 | 29 | 27 | 27 | 5 |
| N. Mex. | 69 | 326 | 404 | 314 | 416 | 103 | 78 | 25 | 31 | 3 | 1 |
| Ariz. | 133 | 1,113 | 1,157 | 484 | 620 | 52 | 25 | 20 | 7 | 44 | 1 |
| Utah | 37 | 83 | 135 | 357 | 161 | 27 | 16 | 3 | 9 | 5 | 3 |
| Nev. | 155 | 212 | 613 | 50 | 93 | 11 | 22 | 5 | 5 | 10 | 14 |
| PACIFIC | 3,850 | 10,366 | 13,120 | 3,375 | 3,203 | 812 | 1,013 | 275 | 329 | 61 | 31 |
| Wash. | , 360 | -955 | 1,152 | 224 | 453 | 62 | 96 | 78 | 110 | 5 | 7 |
| Oreg. | 122 | 165 | 354 | 631 | 312 | 37 | 56 | 19 | 13 | - | - |
| Calif. | 3,261 | 8,706 | 11,005 | 2,444 | 2,336 | 703 | 835 | 168 | 202 | 51 | 22 |
| Alaska | 29 | 311 | 324 | 15 | 84 | 4 | 6 | 1 | - | - | - |
| Hawaii | 78 | 229 | 285 | 61 | 18 | 6 | 20 | 9 | 4 | 5 | 2 |
| Guam | - | 23 | 52 | 1 | 9 | , | , | - | - | - | 2 |
| P.R. | 649 | 216 | 213 | 35 | 27 | 282 | 124 | 182 | 46 | - | 2 |
| V.I. | 14 | 4 | 10 | $\bar{\square}$ | - | 2 | 1 | - | - | - | - |
| Amer. Samoa | , | 8 | 14 | 5 | 4 | - | - | - | - | - | - |
| C.N.M.I. | - | 10 | 21 | 11 | 2 | 6 | - | - | - | - | - |

N : Not notifiable U: Unavailable -: no reported cases C.N.M.I.: Commonwealth of Northern Mariana Islands
*Updated monthly to the Division of HIV/AIDS, National Center for Infectious Diseases; last update March 30, 1995.

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TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending May 20, 1995, and May 21, 1994 (20th Week)

| Reporting Area | Lyme Disease |  | Malaria |  | Measles (Rubeola) |  |  |  |  |  | Meningococcal Infections |  | Mumps |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Indigenous | Imported* |  | Total |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ |  |  | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \\ & \hline \end{aligned}$ | 1995 | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | 1995 | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \\ & \hline \end{aligned}$ |
| UNITED STATES | 1,563 | 1,838 | 328 | 359 | - | 148 | 1 | 5 | 153 | 617 | 1,320 | 1,313 | 323 | 613 |
| NEW ENGLAND | 165 | 168 | 14 | 24 | - | 2 | - | - | 2 | 18 | 67 | 56 | 3 | 10 |
| Maine | 1 | - | 1 | 1 | - | - | - | - | - | 4 | 5 | 12 | 2 | 3 |
| N.H. | 9 | 6 | 1 | 3 | - | - | - | - | - | - | 14 | 4 | - | 4 |
| V t. | 2 | 1 | - | 1 | - | - | - | - | - | 1 | 6 | 1 | - | - |
| Mass. | 40 | 23 | 4 | 9 | - | 2 | - | - | 2 | 5 | 22 | 23 | - | - |
| R.I. | 27 | 22 | - | 4 | - | - | - | - | - | 5 | - | - |  | 1 |
| Conn. | 86 | 116 | 8 | 6 | - | - | - | - | - | 3 | 20 | 16 | 1 | 2 |
| MID. ATLANTIC | 1,160 | 1,227 | 77 | 55 | - | 1 | - | - | 1 | 169 | 144 | 131 | 44 | 56 |
| Upstate N.Y. | 714 | 1,003 | 19 | 16 | - | - | - | - | - | 14 | 53 | 41 | 13 | 12 |
| N.Y. City | 10 | 2 | 30 | 14 | - | 1 | - | - | 1 | 3 | 15 | 21 | 5 | - |
| N.J. | 109 | 127 | 18 | 15 | - | - | - | - | - | 147 | 33 | 32 | 5 | 11 |
| Pa . | 327 | 95 | 10 | 10 | - | - | - | - | - | 5 | 43 | 37 | 21 | 33 |
| E.N. CENTRAL | 18 | 152 | 32 | 42 | - | 2 | - | - | 2 | 73 | 171 | 197 | 57 | 151 |
| Ohio | 14 | 7 | 2 | 5 | - | - | - | - | - | 10 | 57 | 49 | 19 | 22 |
| Ind. | 3 | 3 | 2 | 10 | - | - | - | - | - | 1 | 25 | 38 | 1 | 6 |
| III. | - | 7 | 21 | 15 | - | - | - | - | - | 44 | 49 | 66 | 19 | 96 |
| Mich. | 1 | 1 | 6 | 11 | - | - | - | - | - | 15 | 36 | 23 | 18 | 24 |
| Wis. | - | 134 | 1 | 1 | - | 2 | - | - | 2 | 3 | 4 | 21 |  | 3 |
| W.N. CENTRAL | 19 | 28 | 7 | 18 | - | 1 | - | - | 1 | 159 | 81 | 85 | 19 | 30 |
| Minn. | - | - | 3 | 5 | - | - | - | - | - | - | 16 | 8 | 2 | 4 |
| Iowa | 1 | 1 | - | 3 | - | - | - | - | - | - | 16 | 10 | 4 | 7 |
| Mo. | 4 | 24 | 3 | 7 | - | 1 | - | - | 1 | 158 | 29 | 40 | 10 | 17 |
| N. Dak. | - | , | - | - | - | - | - | - | - | - |  | 1 |  | 1 |
| S. Dak. | - | - | - | - | U | - | U | - | - | - | 3 | 6 | - | - |
| Nebr. | - | - | 1 | 2 | - | - | - | - | - | 1 | 7 | 8 | 3 | 1 |
| Kans. | 14 | 3 | - | 1 | - | - | - | - | - | - | 10 | 12 | - | - |
| S. ATLANTIC | 140 | 189 | 78 | 75 | - | 1 | - | - | 1 | 11 | 232 | 196 | 42 | 90 |
| Del. | 7 | 22 | 1 | 3 | - | - | - | - | - | - | 2 | 2 | - | - |
| Md. | 90 | 56 | 20 | 32 | - | - | - | - | - | 2 | 12 | 12 | - | 22 |
| D.C. | - | 1 | 8 | 7 | - | - | - | - | - | - | 1 | 2 | - | - |
| Va . | 10 | 20 | 14 | 9 | - | - | - | - | - | 2 | 28 | 29 | 13 | 23 |
| W. Va. | 12 | 5 | 1 | - | - | - | - | - | - | - | 4 | 9 | - | 3 |
| N.C. | 11 | 26 | 6 | 2 | - | - | - | - | - | - | 41 | 35 | 16 | 24 |
| S.C. | 5 | 1 | - | 2 | - | - | - | - | - | - | 32 | 6 | 6 | 5 |
| Ga. | 4 | 54 | 11 | 10 | U | - | U | - | - | 2 | 54 | 47 | - | 7 |
| Fla. | 1 | 4 | 17 | 10 | - | 1 | - | - | 1 | 5 | 58 | 54 | 7 | 6 |
| E.S. CENTRAL | 9 | 14 | 7 | 9 | - | - | - | - | - | 28 | 73 | 82 | 14 | 3 |
| Ky. | 1 | 10 | - | 4 | - | - | - | - | - | - | 25 | 21 | - | - |
| Tenn. | 5 | 3 | 2 | 4 | - | - | - | - | - | 28 | 12 | 21 | 4 | 3 |
| Ala. | 1 | 1 | 5 | 1 | - | - | - | - | - | - | 21 | 40 | 4 | - |
| Miss. | 2 | U | - | U | - | - | - | - | - | U | 15 | U | 6 | U |
| W.S. CENTRAL | 29 | 27 | 6 | 7 | - | 2 | - | - | 2 | 12 | 153 | 150 | 22 | 135 |
| Ark. | 2 | - | 2 | - | - | 2 | - | - | 2 | 1 | 17 | 23 | 2 | 4 |
| La. | - | ${ }^{-}$ | 1 | - | - | - | - | - | - | 1 | 20 | 20 | 6 | 12 |
| Okla. | 13 | 17 | - | 2 | - | - | - | - | - | - | 18 | 12 | - | 21 |
| Tex. | 14 | 10 | 3 | 5 | - | - | - | - | - | 10 | 98 | 95 | 14 | 98 |
| MOUNTAIN | 2 | 1 | 23 | 16 | - | 39 | - | 1 | 40 | 112 | 108 | 99 | 17 | 23 |
| Mont. | - | - | 2 | - | - | - | - | - | - | - | 2 | 2 | 1 | - |
| Idaho | - | 1 | 1 | 2 | - | - | - | - | - | - | 5 | 13 | 2 | 4 |
| Wyo. | - | - | - | - | - | - | - | - | - | - | 5 | 5 | - | 1 |
| Colo. | 1 | - | 12 | 6 | - | - | - | - | - | 18 | 21 | 14 | 1 | 1 |
| N. Mex. | - | - | 3 | 2 | - | 28 | - | - | 28 | - | 23 | 10 | N | N |
| Ariz. | - | - | 2 | 1 | - | 10 | - | - | 10 | - | 41 | 37 | 4 | 4 |
| Utah | - | - | 2 | 4 | - | - | - | 1 | 1 | 94 | 4 | 14 | 2 | 7 |
| Nev. | 1 | - | 1 | 1 | - | 1 | - | - | 1 | - | 7 | 4 | 6 | 5 |
| PACIFIC | 21 | 32 | 84 | 113 | - | 100 | 1 | 4 | 104 | 35 | 291 | 317 | 105 | 115 |
| Wash. | 1 | - | 8 | 11 | - | 13 | 1 | 2 | 15 | - | 49 | 46 | 9 | 7 |
| Oreg. | 1 | 2 | 4 | 10 | - | 1 | - | - | 1 | - | 50 | 69 | N | N |
| Calif. | 19 | 30 | 64 | 84 | - | 86 | - | 1 | 87 | 33 | 186 | 197 | 87 | 98 |
| Alaska | - | - | 1 | - | - |  | - | - | - | 3 | 4 | 1 | 8 | 2 |
| Hawaii | - | - | 7 | 8 | - | - | - | 1 | 1 | 2 | 2 | 4 | 1 | 8 |
| Guam | - | - | - | - | U | - | U | - | - | 202 | 1 | - | 2 | 3 |
| P.R. | - | - | - | - | 4 | 7 | - | - | 7 | 11 | 12 | 5 | - | 2 |
| V.I. | - | - | - | - |  |  | - | - |  | , |  | - | 2 | 2 |
| Amer. Samoa | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| C.N.M.I. | - | - | - | 1 | U | - | U | - | - | 26 | - | - | - | - |

*For imported measles, cases include only those resulting from importation from other countries.
N : Not notifiable U: Unavailable -: no reported cases

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending May 20, 1995, and May 21, 1994 (20th Week)

| Reporting Area | Pertussis |  |  | Rubella |  |  | Syphilis (Primary \& Secondary) |  | Tuberculosis |  | Rabies, Animal |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1994 \end{aligned}$ | 1995 | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1994 \end{aligned}$ |
| UNITED STATES | 31 | 1,139 | 1,401 | 3 | 34 | 151 | 5,999 | 7,711 | 6,343 | 7,124 | 2,372 | 2,772 |
| NEW ENGLAND | 8 | 139 | 136 | - | 5 | 101 | 77 | 84 | 104 | 133 | 583 | 728 |
| Maine | 1 | 18 | 2 | - | - | - | 2 | 4 |  |  |  |  |
| N.H. | 3 | 12 | 33 | - | 1 | - | 1 | 1 | 5 | 6 | 79 | 84 |
| Vt. | - | 2 | 16 | - | - | - | - | - | 1 | 2 | 91 | 67 |
| Mass. | 4 | 100 | 75 | - | 1 | 101 | 30 | 30 | 63 | 62 | 250 | 275 |
| R.I. | - | - | 3 | - | - | - | - | 6 | 2 | 11 | 11 | 5 |
| Conn. | - | 7 | 7 | - | 3 | - | 44 | 43 | 33 | 52 | 152 | 297 |
| MID. ATLANTIC | 1 | 88 | 265 | - | 2 | 5 | 354 | 517 | 1,387 | 1,379 | 577 | 700 |
| Upstate N.Y. | 1 | 51 | 95 | - | 1 | 5 | 24 | 63 | 142 | 187 | 224 | 490 |
| N.Y. City | - | 18 | 52 | - | 1 | - | 187 | 263 | 759 | 834 | - | - |
| N.J. | - | 2 | 9 | - | - | - | 73 | 96 | 258 | 254 | 143 | 125 |
| Pa . | - | 17 | 109 | - | - | - | 70 | 95 | 228 | 104 | 210 | 85 |
| E.N. CENTRAL | 6 | 116 | 276 | - | - | 11 | 1,017 | 1,177 | 677 | 380 | 6 | 14 |
| Ohio | 1 | 38 | 62 | - | - | - | 358 | 431 | 108 | 93 | 1 | - |
| Ind. | 1 | 6 | 31 | - | - | - | 88 | 96 | 21 | 75 | - | 2 |
| III. | - | 23 | 96 | - | - | 6 | 396 | 410 | 380 | 23 | 2 | 3 |
| Mich. | 4 | 37 | 22 | - | - | 5 | 117 | 124 | 146 | 170 | 2 | 5 |
| Wis. | - | 12 | 65 | - | - | - | 58 | 116 | 22 | 19 | 1 | 4 |
| W.N. CENTRAL | 3 | 59 | 49 | - | - | 1 | 296 | 503 | 227 | 194 | 117 | 75 |
| Minn. | 3 | 28 | 20 | - | - | - | 18 | 20 | 45 | 41 | 4 | 8 |
| lowa | - | 1 | 4 | - | - | - | 26 | 20 | 33 | 15 | 41 | 29 |
| Mo. | - | 5 | 13 | - | - | 1 | 243 | 427 | 85 | 92 | 12 | 8 |
| N. Dak. | - | 5 | 3 | - | - | - | - | 1 | 1 | 2 | 12 | 3 |
| S. Dak. | U | 7 | - | U | - | - | - | - | 16 | 9 | 22 | 11 |
| Nebr. | - | 3 | 3 | - | - | - | - | 5 | 6 | 7 | - | - |
| Kans. | - | 10 | 6 | - | - | - | 9 | 30 | 41 | 28 | 26 | 16 |
| S. ATLANTIC | - | 105 | 153 | - | 5 | 8 | 1,412 | 2,169 | 1,150 | 1,478 | 825 | 741 |
| Del. | - | 5 | - | - | - | - | 7 | 11 | - | 10 | 33 | 16 |
| Md. | - | 10 | 51 | - | - | - | 24 | 92 | 175 | 127 | 166 | 235 |
| D.C. | - | 2 | 3 | - | - | - | 47 | 102 | 38 | 40 | 5 | 2 |
| Va. | - | 7 | 15 | - | - | - | 272 | 286 | 61 | 132 | 155 | 161 |
| W. Va. | - | - | 2 | - | - | - | 1 | 8 | 39 | 35 | 38 | 32 |
| N.C. | - | 49 | 44 | - | - | - | 447 | 707 | 113 | 166 | 162 | 74 |
| S.C. | - | 11 | 8 | - | - | - | 270 | 280 | 124 | 161 | 50 | 69 |
| Ga. | U | 1 | 11 | U | - | $\overline{-}$ | 181 | 345 | 216 | 281 | 114 | 149 |
| Fla. | - | 20 | 19 | - | 5 | 8 | 163 | 338 | 384 | 526 | 102 | 3 |
| E.S. CENTRAL | - | 22 | 75 | - | - | - | 1,686 | 760 | 434 | 422 | 74 | 84 |
| Ky. | - | - | 52 | - | - | - | 86 | 90 | 53 | 120 | 8 | 5 |
| Tenn. | - | 2 | 13 | - | - | - | 316 | 387 | 162 | 141 | 11 | 33 |
| Ala. | - | 20 | 10 | - | - | - | 249 | 283 | 154 | 161 | 55 | 46 |
| Miss. | - | - | U | - | - | U | 1,035 | U | 65 | U | - | U |
| W.S. CENTRAL | 2 | 49 | 36 | - | 2 | 7 | 861 | 1,968 | 666 | 800 | 36 | 262 |
| Ark. | - | - | 4 | - | - | - | 181 | 212 | 62 | 68 | 11 | 14 |
| La. | - | 1 | 5 | - | - | - | 422 | 728 | - | - | 9 | 41 |
| Okla. | - | 9 | 20 | - | - | 4 | 23 | 57 | 1 | 93 | 16 | 17 |
| Tex. | 2 | 39 | 7 | - | 2 | 3 | 235 | 971 | 603 | 639 | - | 190 |
| MOUNTAIN | 6 | 396 | 133 | 1 | 4 | 2 | 95 | 132 | 225 | 186 | 40 | 48 |
| Mont. | - | 3 | 3 | - | - | - | 3 | 1 | 3 | 9 | 17 | 7 |
| Idaho | 2 | 72 | 23 | - | - | - | - | 1 | 6 | 6 | - | - |
| Wyo. | - | - | 77 | - | - | - | 2 | - | 1 | 1 | 13 | 10 |
| Colo. | - | 1 | 77 | - | - | - | 62 | 65 | 4 | 13 | - | - |
| N. Mex. | - | 19 | 6 | - | - | - | 2 | 5 | 26 | 26 | - | ${ }^{-}$ |
| Ariz. | 2 | 288 | 14 | - | 3 | - | 16 | 32 | 115 | 88 | 9 | 30 |
| Utah | 2 | 9 | 10 | 1 | 1 | 2 | 3 | 7 | 10 | - | - | - |
| Nev. | - | 4 | - | - | - | - | 7 | 21 | 60 | 43 | 1 | 1 |
| PACIFIC | 5 | 165 | 278 | 2 | 16 | 16 | 201 | 401 | 1,473 | 2,152 | 114 | 120 |
| Wash. | - | 30 | 36 | - | 1 | - | 6 | 17 | 94 | 92 | - | - |
| Oreg. | 1 | 7 | 41 | - | 1 | - | 6 | 15 | 21 | 45 | - | - |
| Calif. | - | 114 | 197 | 2 | 13 | 15 | 188 | 367 | 1,263 | 1,893 | 110 | 90 |
| Alaska | - | - | - | 2 |  |  | 1 | 1 | 28 | 28 | 4 | 30 |
| Hawaii | 4 | 14 | 4 | - | 1 | 1 | - | 1 | 67 | 94 | - | - |
| Guam | U | - | - | U | - | 1 | 1 | 2 | 4 | 18 | - | - |
| P.R. | 1 | 6 | 2 | - | - | - | 112 | 126 | 56 | 62 | 18 | 39 |
| V.I. | - | - | - | - | - | - | 1 | 21 | - | - | - | - |
| Amer. Samoa | - | - | 1 | - | - | - | - | - | 2 | 2 | - | - |
| C.N.M.I. | U | - | - | U | - | - | - | 1 | 8 | 15 | - | - |

[^0]TABLE III. Deaths in 121 U.S. cities,* week ending May 20, 1995 (20th Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\&I ${ }^{\dagger}$ <br> Total | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\text { P\&I }{ }^{\dagger}$Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 624 | 412 | 119 | 61 | 8 | 24 | 33 | S. ATLANTIC | 1,228 | 776 | 231 | 150 | 43 | 26 | 80 |
| Boston, Mass. | $184$ | 111 | 40 | 25 | 3 | 5 | 4 | Atlanta, Ga. | 151 | 96 | 36 | 9 | 2 | 8 | 5 |
| Bridgeport, Conn. | 28 | 20 | 4 | 3 |  | 1 | 2 | Baltimore, Md. | 201 | 122 | 39 | 30 | 6 | 4 | 21 |
| Cambridge, Mass. | 22 | 18 | 3 | 1 |  |  | 1 | Charlotte, N.C. | 82 | 55 | 14 | 10 | 2 | 1 | 2 |
| Fall River, Mass. | 22 | 19 | 2 |  |  |  |  | Jacksonville, Fla. | 127 | 82 | 26 | 10 | 4 | 3 | 9 |
| Hartford, Conn. | 56 | 37 | 11 | 5 | 2 | 1 | 2 | Miami, Fla. | 113 | 64 | 18 | 24 | 6 | 1 | - |
| Lowell, Mass. | 20 | 15 | 3 | 2 |  |  | 3 | Norfolk, Va. | 53 | 32 | 13 | 4 | 1 | 3 | 4 |
| Lynn, Mass. | 18 | 14 | 3 |  |  |  | 2 | Richmond, Va. | 67 | 33 | 14 | 15 | 4 | 1 | 4 |
| New Bedford, Mass. | 28 | 22 | 4 | 2 |  |  | 2 | Savannah, Ga. | 42 | 31 | 6 | 3 | 1 | 1 | 5 |
| New Haven, Conn. | 51 | 28 | 7 |  | 2 | 9 | 3 | St. Petersburg, Fla. | 53 | 42 | 7 | 2 | 2 | - | 3 |
| Providence, R.I. | 70 | 47 | 12 | 9 |  | 2 | 5 | Tampa, Fla. | 189 | 142 | 27 | 13 | 6 | 1 | 21 |
| Somerville, Mass. | 5 | 4 |  | 1 |  |  |  | Washington, D.C. | 143 | 72 | 31 | 28 | 9 | 3 | 6 |
| Springfield, Mass. | 28 | 17 | 9 | 1 |  | 1 |  | Wilmington, Del. | 7 | 5 | - | 2 | - | - |  |
| Waterbury, Conn. | 32 | 21 | 8 | 2 | 1 |  | 2 |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 60 | 39 | 13 | 3 |  | 5 | 7 | E.S. CENTRAL <br> Birmingham, Ala. | $\begin{aligned} & 680 \\ & 100 \end{aligned}$ | 420 69 | 155 19 | 63 | 25 5 | 16 | 32 2 |
| MID. ATLANTIC | 2,050 | 1,361 | 375 | 244 | 38 | 32 | 84 | Chattanooga, Tenn. | 58 | 35 | 13 | 7 | 3 |  | 3 |
| Albany, N.Y. | 56 | 44 | 5 | 2 | 3 | 2 | 4 | Knoxville, Tenn. | 84 | 54 | 22 | 6 | 2 |  |  |
| Allentown, Pa. | 26 | 21 | 3 | - | 2 |  |  | Lexington, Ky. | 63 | 39 | 15 | 7 | 2 | - | 6 |
| Buffalo, N.Y. | U | U | U | U | U | U | U | Memphis, Tenn. | 151 | 93 | 33 | 13 | 8 |  | 9 |
| Camden, N.J. | 41 | 23 | 7 | 3 | 5 | 3 | 1 | Mobile, Ala. | 53 | 30 | 13 | 6 | - | 4 | 4 |
| Elizabeth, N.J. | 27 | 19 | 4 | 3 | 1 |  | 2 | Montgomery, Ala. | 43 | 23 | 7 | 10 |  | 3 | 1 |
| Erie, Pa.§ | 12 | 7 | 4 |  | 1 |  |  | Nashville, Tenn. | 128 | 77 | 33 | 8 | 5 | 5 | 7 |
| Jersey City, N.J. | 43 | 31 | 7 | 3 | 1 | 1 |  | W.S. CENTRAL |  |  |  |  |  |  |  |
| New York City, N.Y. | 1,344 | 865 | 260 | 182 | 18 | 19 | 35 | Austin, Tex. | 1,413 | 84 | 15 | 10 | 5 | 24 | 5 |
| Newark, N.J. | 64 | 30 | 16 | 16 | 2 |  | 3 3 | Austin, Rex. | 12 | 9 | 1 2 | 1 | 5 | - | 5 |
| Paterson, N.J. | 29 | 13 | 9 | ${ }_{6}^{6}$ | 1 | U | 3 <br> $U$ | Corpus Christi, Tex. | 55 | 41 | 7 | 5 | 1 | 1 | 4 |
| Pittsburgh, Pa.§ | 75 | 53 | 11 | 4 | 3 | 4 | 6 | Dallas, Tex. | 180 | 103 | 35 | 30 | 7 | 5 | 7 |
| Reading, Pa. | 16 | 12 | 2 | 2 | - |  | 1 | El Paso, Tex. | 88 | 62 | 13 | 7 | 4 | 2 | 9 |
| Rochester, N.Y. | 138 | 106 | 19 | 10 | 1 | 2 | 14 | Ft. Worth, Tex. | 104 | 60 | 16 | 16 | 8 | 4 | 4 |
| Schenectady, N.Y. | 22 | 17 | 4 | 1 |  |  | 1 | Houston, Tex. | 353 | 204 | 83 | 50 | 10 | 6 | 30 |
| Scranton, Pa.§ | 34 | 28 | 5 | 1 |  |  | 2 | Little Rock, Ark. | 66 | 42 | 16 | 7 | - | 1 | 3 |
| Syracuse, N.Y. | 73 | 61 | 10 | 2 |  |  | 6 | New Orleans, La. | 112 | 62 | 28 | 15 | 7 | - |  |
| Trenton, N.J. | 37 | 19 | 9 | 8 |  | 1 | 6 | San Antonio, Tex. | 192 | 133 | 41 | 11 | 6 | 1 | 18 |
| Utica, N.Y. | 13 | 12 |  | 1 |  |  |  | Shreveport, La. | 72 | 50 | 15 | 4 | 3 | - | 8 |
| Yonkers, N.Y. | U | U | U | U | U | U | U | Tulsa, Okla. | 101 | 66 | 22 | 10 | 2 | 1 | 5 |
| E.N. CENTRAL | 2,307 | 1,453 | 421 | 247 | 124 | 61 | 124 | MOUNTAIN | 867 | 586 | 162 | 78 | 24 | 17 | 49 |
| Akron, Ohio | 54 | , 44 | 4 | 5 | 12 | 1 | 124 | Albuquerque, N.M. | 92 | 62 | 18 | 9 | 1 | 2 | 4 |
| Canton, Ohio | 35 | 29 | 4 | - |  | 2 | 3 | Colo. Springs, Colo. | 54 | 35 | 12 | 3 | 3 | 1 | 4 |
| Chicago, III. | 491 | 212 | 93 | 101 | 70 | 15 | 11 | Denver, Colo. | 98 | 65 | 17 | 10 | 3 | 3 | 3 |
| Cincinnati, Ohio | 74 | 49 | 16 | 5 | 3 | 1 | 10 | Las Vegas, Nev. | 163 | 111 | 30 | 20 | 2 | - |  |
| Cleveland, Ohio | 136 | 82 | 29 | 13 | 5 | 7 |  | Ogden, Utah | 27 | 21 | 4 | 1 | 1 |  | 3 |
| Columbus, Ohio | 187 | 122 | 37 | 15 | 5 | 8 | 10 | Phoenix, Ariz. | 178 | 109 | 34 | 18 | 9 | 8 | 9 |
| Dayton, Ohio | 136 | 94 | 26 | 11 | 4 | 1 | 6 | Pueblo, Colo. | 23 | 18 | 3 |  | 2 |  | 1 |
| Detroit, Mich. | 231 | 128 | 54 | 34 | 11 | 4 | 5 | Salt Lake City, Utah | 85 | 59 | 15 | 7 | 1 | 3 | 9 |
| Evansville, Ind. | 52 | 32 | 12 | 2 | 4 | 2 | 1 | Tucson, Ariz. | 147 | 106 | 29 | 10 | 2 | - | 7 |
| Fort Wayne, Ind. | 79 | 54 | 16 | 3 | 5 | 1 | 8 | PACIFIC | 2,074 | 1,364 | 359 | 245 | 56 | 33 | 160 |
| Gary, Ind. | 26 | 12 | 7 | 2 | 3 | 1 |  | Berkeley, Calif. | 2, 14 | 11 | 2 |  | 1 |  |  |
| Grand Rapids, Mich. | 71 | 54 | 9 | 3 | 1 | 4 | 6 | Fresno, Calif. | 118 | 63 | 34 | 11 | 6 | 4 | 8 |
| Indianapolis, Ind. | 229 | 153 | 42 | 22 | 7 | 5 | 20 | Glendale, Calif. | 28 | 19 | 2 | 4 | 3 | - | - |
| Madison, Wis. | 40 | 22 | 11 | 4 | 1 | 2 | 5 | Honolulu, Hawaii | 72 | 57 | 9 | 2 | 1 | 3 | 8 |
| Milwaukee, Wis. Peoria, III. | 137 | 101 | 20 | 11 | 2 | 3 | 15 | Long Beach, Calif. | 67 | 42 | 11 | 10 | 1 | 3 | 8 |
| Peoria, III. | 33 | 31 | 7 | 1 |  | 1 | 4 | Los Angeles, Calif. | 643 | 406 | 117 | 96 | 20 | 1 | 26 |
| Rockford, III. | 59 | 46 | 7 | 3 | 3 |  | 4 | Pasadena, Calif. | 28 | 17 | 4 | 4 | 2 | 1 | 1 |
| South Bend, Ind. | 54 | 43 | 9 | 2 |  |  | 8 | Portland, Oreg. | 117 | 82 | 16 | 12 | 3 | 4 | 5 |
| Toledo, Ohio | 109 | 82 | 15 | 9 |  | 3 | 2 | Sacramento, Calif. | 201 | 139 | 31 | 20 | 6 | 4 | 21 |
| Youngstown, Ohio | 74 | 63 | 10 | 1 | - |  | 6 | San Diego, Calif. | 125 | 83 | 19 | 15 | 4 | 4 | 16 |
| W.N. CENTRAL | 679 | 493 | 97 | 51 | 15 | 12 | 25 | San Francisco, Calif. | 154 | 76 | 35 | 28 | - | 2 | 24 |
| Des Moines, lowa | 58 | 48 | 9 | 3 | 15 | 12 | 2 | San Jose, Calif. | 177 | 135 | 26 | 12 | 1 | 3 | 21 |
| Duluth, Minn. | 35 | 29 | 5 | - |  | 1 | 2 | Santa Cruz, Calif. | 25 | 19 | 5 | 14 | 5 | - | 5 |
| Kansas City, Kans. | U | U | U | U | U | U | U | Seattle, Wash. | 145 | 101 | 25 | 14 | 3 | $\overline{7}$ | 4 |
| Kansas City, Mo. | 106 | 70 | 17 | 7 |  |  | 2 | Spokane, Wash. | 62 | 42 | 8 | 8 | 3 | 1 3 | 6 |
| Lincoln, Nebr. | 22 | 13 | 5 | 3 |  |  | 1 | Tacoma, Wash. | 98 | 72 |  | 6 |  | 3 | 7 |
| Minneapolis, Minn. | 203 | 150 | 28 | 17 | 7 | 1 | 9 | TOTAL | 11,922 | 7,742 | 2,212 | 1,305 | 386 | 245 | 680 |
| Omaha, Nebr. | 79 | 56 | 12 | 5 | 2 |  |  |  |  |  |  |  |  |  |  |
| St. Louis, Mo. St. Paul, Minn. | 120 56 | 88 39 | 11 | 14 | 1 | 3 | 2 |  |  |  |  |  |  |  |  |
| Wichita, Kans. |  | U | U | U |  |  | U |  |  |  |  |  |  |  |  |
| *Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included. <br> ${ }^{\dagger}$ Pneumonia and influenza. <br> ${ }^{\text {§ }}$ Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TTotal includes unkno | nown a | s. |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Tuberculosis - Continued

reported results of drug-susceptibility testing for $\geq 75 \%$ of cases, and information about HIV infection was provided for only approximately one third of case reports. To measure accurately the proportion of TB cases attributable to HIV infection and to ensure the optimal provision of services to HIV-infected persons with TB infection and disease, the Advisory Committee for the Elimination of Tuberculosis has recommended that all patients in whom TB has been diagnosed should be offered counseling and HIV testing and that all HIV-infected persons, with or without AIDS, should be given a tuberculin skin test (7). Collaborative efforts involving state and local TB and HIV/AIDS surveillance programs are needed to establish guidelines to preserve confidentiality to ensure that HIV-test results for reported TB cases are shared between programs and that this information is reported to CDC to aid in characterizing TB morbidity in these and other risk groups.

In 1994, the number and proportion of foreign-born persons with TB increased substantially; approximately one third of these persons were in the United States <1 year before diagnosis. Detection and treatment of TB among immigrants and refugees requires improved screening efforts and prompt reporting to state and local public health authorities. Local TB-control programs may need to ensure appropriate testing, prophylaxis, and treatment for immigrants and refugees from countries where TB incidence rates are high (8).

Maintaining the decline in TB morbidity and reaching the goal of eliminating TB in the United States will require sustained prevention and control efforts-especially rapid diagnosis and ensured completion of treatment (e.g., DOT), and prompt and complete reporting. Implementation of recommended infection-control measures in hospitals can prevent nosocomial transmission of $M$. tuberculosis (9). In addition, tuberculin screening programs that target persons at highest risk (especially close contacts of persons with active cases) ensure the most effective use of limited resources and appropriate use of preventive therapy.

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## Vaccination Coverage Levels Among Children Aged 19-35 Months United States, April-June 1994

A national health objective for the year 2000 is to increase to at least $90 \%$ the proportion of children aged 2 years who have received the complete series of routinely recommended childhood vaccinations (objective 20.11) (1). To assist in achieving the year 2000 objective, the Childhood Immunization Initiative (CII) was begun to increase vaccination coverage levels among preschool-aged children and to reduce or eliminate vaccine-preventable diseases in the United States by 1996 (2). Vaccination coverage goals were established for each routinely recommended vaccination. In addition, interim goals for 1994 and 1995* were established to assist in monitoring progress toward CII's 1996 goals. This report presents national estimates of vaccination coverage among children aged 19-35 months derived from provisional data from CDC's National Health Interview Survey (NHIS) for the second quarter of 1994 (AprilJune; the most recent period for which data were available), compares these data with the previous three quarters, and summarizes progress toward the CII's interim goals for 1994.

NHIS is an annual cross-sectional household interview survey of the civilian, noninstitutionalized U.S. population (3). An Immunization Supplement was added to NHIS in 1992 to collect data about vaccinations among children aged $<6$ years. Vaccination information is obtained from vaccination records; for children for whom no vaccination records are available, information is based on parental recall. Quarterly estimates are based on sample sizes ranging from 483 to 622 per quarter. Respondents surveyed during the second quarter of 1994 provided information for their children who were born during May 1991-November 1992; the median age of the children was 27 months. For the last two quarters in 1993,37\% of NHIS respondents used a vaccination record for reporting vaccination information. In the first and second quarters of $1994,52 \%$ and $49 \%$ of respondents, respectively, used a vaccination record. The analysis excluded respondents (range: 12\%-16\%) who reported not knowing whether their children had received a particular vaccination or not knowing the number of doses the child had received. Confidence intervals (Cls) were calculated using the Software for Survey Data Analysis (SUDAAN).

During the second quarter of 1994, vaccination coverage levels among children aged 19-35 months for the most critical doses in the 1996 objectives ranged from 75.6\% (three or more doses of Haemophilus influenzae type b vaccine [Hib]) to $91.6 \%$ (one dose of measles-containing vaccine [MCV]) (Table 1). The coverage level for hepatitis B vaccine (Hep B) was $29.4 \%$. For the combined series of four doses of diphtheria and tetanus toxoids and pertussis vaccine (DTP), three doses of poliovirus vaccine, and one dose of MCV, coverage was $67.7 \%$; for the combined series that includes at least three doses of Hib, coverage was $60.2 \%$.

Quarterly levels of coverage with three doses of Hib increased significantly from the third quarter of 1993 to the second quarter of 1994, from $53.1 \%$ to a record high

[^1]TABLE 1. Vaccination coverage levels among children aged 19-35 months, by selected vaccines - United States, third and fourth quarters 1993 and first and second quarters 1994

| Vaccine/Dose | July-September 1993 |  | October-December 1993 |  | January-March 1994 |  | April-June 1994 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \% | (95\% CI*) | \% | (95\% CI) | \% | (95\% CI) | \% | (95\% CI) |
| DTP/DT ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |
| $\geq 3$ Doses | 89.9 | (86.9\%-93.0\%) | 88.1 | (84.6\%-91.5\%) | 87.0 | (83.2\%-90.8\%) | 90.2 | (87.5\%-92.9\%) |
| $\geq 4$ Doses | 74.8 | (69.9\%-79.7\%) | 71.6 | (66.4\%-76.7\%) | 67.2 | (62.8\%-71.7\%) | 70.4 | (66.5\%-74.4\%) |
| Poliovirus |  |  |  |  |  |  |  |  |
| $\geq 3$ Doses | 80.4 | (75.8\%-84.9\%) | 78.5 | (73.9\%-83.0\%) | 76.0 | (71.9\%-80.2\%) | 80.0 | (76.8\%-83.2\%) |
| Haemophilus influenzae type $\mathbf{b}^{\text {§ }}$ (Hib) |  |  |  |  |  |  |  |  |
| >3 Doses | 60.3 | (55.0\%-65.7\%) | 58.3 | (53.1\%-63.5\%) | 70.6 | (65.9\%-75.3\%) | 75.6 | (71.8\%-79.4\%) |
| Measles-containing vaccine (MCV) | 85.9 | (82.0\%-89.8\%) | 86.9 | (83.3\%-90.5\%) | 89.6 | (87.0\%-92.2\%) | 91.6 | (89.1\%-94.1\%) |
| Hepatitis $\mathbf{B}^{\text {I }}$ >3 Doses | 15.7 | (12.1\%-19.2\%) | 22.5 | (17.8\%-27.1\%) | 25.5 | (20.2\%-30.8\%) | 29.4 | (25.0\%-33.8\%) |
| Combined series 3 DTP/3 Polio/ |  |  |  |  |  |  |  |  |
| 4 DTP/3 Polio/ $1 \mathrm{MCV}^{\dagger \dagger}$ | 78.7 71.6 | (74.2\%-83.2\%) $(66.7 \%-76.4 \%)$ | 74.3 66.4 | (69.4\%-79.2\%) (61.1\%-71.7\%) | 75.5 66.0 | (71.1\%-80.0\%) | 77.9 67.7 | (74.6\%-81.2\%) (63.9\%-71.5\%) |
| 4 DTP/3 Polio/ <br> 1 MCV/3 Hib ${ }^{\S \S}$ |  | (66.7\% 76.4\%) |  | (61.1\% 71.7\%) | 57.0 | (52.0\%-62.0\%) | 60.2 | (56.1\%-64.4\%) |

## Vaccination Coverage Levels - Continued

level of $75.6 \%$; coverage with Hep B increased from 15.7\% during third quarter 1993 to $29.4 \%$ during second quarter 1994. Quarterly levels during the previous four quarters (April 1993-March 1994) were statistically unchanged for the combined series and for DTP, poliovirus vaccine, and MCV.
Reported by: Assessment Br, Data Management Div, National Immunization Program; Div of Health Interview Statistics, National Center for Health Statistics, CDC.
Editorial Note: Based on the most recent NHIS data available, the findings in this report document statistically significant increases and record high levels in national vaccination coverage with Hib and with Hep B during April-June 1994. In addition, during that period, coverage was at or near the highest levels ever recorded for three doses of DTP, three doses of poliovirus vaccine, one dose of MCV, and for the combined series.

The quarterly NHIS data also indicated that the 1994 interim goals of the CII were attained during April-June 1994 for all vaccines except Hep B; however, for annual coverage levels for these vaccines to meet the 1994 goals, coverage would have had to be maintained for the remainder of the year. Although only $65 \%$ of the children during the second quarter of 1994 were required to receive Hep B (recommendations for universal hepatitis B vaccination of infants became effective in November 1991), coverage with Hep B was still within one percentage point of the 1994 goal. Because future estimates based on NHIS quarterly data will include a progressively larger proportion of children required to receive Hep B, quarterly coverage levels are expected to increase for the remainder of 1994.

Based on the findings in this report, as of April-June 1994, only 60\% of children aged 19-35 months had received the recommended number of doses for the combined series of DTP, poliovirus vaccine, MCV, and Hib. To assist in achieving the year 2000 national health objective of $90 \%$ coverage with the complete series of routinely recommended vaccinations, increased efforts are needed to vaccinate all children $(4,5)$.

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## Update: Outbreak of Ebola Viral Hemorrhagic Fever — Zaire, 1995

On May 6, 1995, CDC was notified by health authorities and the U.S. Embassy in Zaire of an outbreak of viral hemorrhagic fever in the Kikwit area of Bandundu region, Zaire (1). On May 10, testing of blood specimens from ill patients confirmed that the outbreak was caused by Ebola virus. Through May 24, the investigation of this outbreak by public health authorities has identified a total of 144 persons with viral hemorrhagic fever, including 108 ( $75 \%$ ) deaths, in the city of Kikwit and the surrounding area. The median age of ill persons was 37 years (range: 9 months-71 years); 70 were male, 68 were female, and six were of unknown sex.
Reported by: M Musong, MD, Minister of Health, Kinshasa; T Muyembe, MD, Univ of Kinshasa; K Mungala, MD, Kikwit General Hospital. Technical Scientific International Coordinating Committee, Kikwit, Zaire. Médecins Sans Frontières, Belgium. Div of Viral and Rickettsial Diseases, and Div of Quarantine, National Center for Infectious Diseases; International Health Program Office, CDC.
Editorial Note: From May 17 (when this outbreak was first reported in MMWR [1]) though May 24, the investigation identified an additional 51 cases of suspected Ebola hemorrhagic fever (EHF) in Zaire. The incubation period for EHF ranges from 2 days to 21 days (2); because the outbreak investigation and control measures were initiated on May 10, new cases may represent persons who were exposed to the virus before the institution of the control measures. The ongoing investigation is assessing the effectiveness of these control measures in interrupting transmission, which is believed to result principally from direct contact with ill persons or their blood or body fluids.

Because of the length of the incubation period for EHF, the potential exists for persons with incubating illness to travel from the outbreak-affected area to the United States. To minimize the potential for spread of Ebola virus to the United States, precautionary measures have been instituted, under the provisions of the Foreign Quarantine Regulations,* including 1) issuance of a travel advisory by the U.S. Department of State and an advisory memorandum by CDC distributed to state and local health departments, other federal government agencies, airlines, travel agents, and travel clinics; 2) with the assistance of the U.S. Immigration and Naturalization Service, distribution of the routine Health Alert Notice to all passengers arriving in the United States from Europe and Africa; and 3) distribution of an Ebola Virus Hemorrhagic Fever Alert Notice (EVHFN) to any travelers who have recently been in Zaire-EVHFN instructs these travelers to contact a health-care provider if they develop a febrile illness during the 3 weeks after they arrive in the United States.

CDC maintains a hotline providing updates on the outbreak of EHF in Zaire (telephone [800] 900-0681).

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[^2]The Morbidity and Mortality Weekly Report (MMWR)Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available free of charge in electronic format and on a paid subscription basis for paper copy. To receive an electronic copy on Friday of each week, send an e-mail message to lists@list.cdc.gov. The body content should read subscribe mmwr-toc. Electronic copy also is available from CDC's World-Wide Web server at http://www.cdc.gov/ or from CDC's file transfer protocol server at ftp.cdc.gov. To subscribe for paper copy, contact Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone (202) 783-3238.

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[^0]:    U: Unavailable -: no reported cases

[^1]:    * For 1994: 85\% coverage for three or more doses of diphtheria and tetanus toxoids and pertussis vaccine (DTP) and one dose of measles-mumps-rubella vaccine (MMR), $75 \%$ coverage for three or more doses each of poliovirus vaccine and Haemophilus influenzae type b vaccine (Hib), and $30 \%$ coverage for three or more doses of hepatitis B vaccine (Hep B). For 1995: 87\% coverage for three or more doses of DTP, $85 \%$ coverage for three or more doses each of poliovirus vaccine and Hib, $90 \%$ coverage for one dose of MMR, and $50 \%$ coverage for three or more doses of Hep B.

[^2]:    *42 CFR, Part 71.

[^3]:    Director, Centers for Disease Control and Prevention David Satcher, M.D., Ph.D.
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    Director, Epidemiology Program Office Stephen B. Thacker, M.D., M.Sc.

