



Morbidity and Mortality Weekly Report

Weekly

November 5, 2004 / Vol. 53 / No. 43

National Diabetes Awareness Month — November 2004

November is National Diabetes Awareness Month. An estimated 18.2 million persons in the United States (i.e., 6.3% of the population) have diabetes. However, 5.2 million (29%) of these persons have not had their condition diagnosed. Persons with diabetes have a risk of premature death that is approximately two times greater than that of persons without the disease. From 1980 to 2002, the number of persons with diabetes in the United States more than doubled. In 2000, diabetes was the sixth leading cause of death in the United States and cost the nation more than \$132 billion dollars in health-care expenditures. Additional information about diabetes is available from CDC at http://www.cdc.gov/diabetes.

During November, CDC, along with 59 state and territorial diabetes-control programs and other partners, will highlight activities that increase awareness about diabetes and women's health. More than 9.3 million women in the United States are now living with diabetes. CDC is a major partner in the *Initiative on Diabetes and Women's Health*, which will release a 30-minute video that emphasizes the healthy behaviors and coping skills that women have learned from adolescence through their older years to help manage their disease.

Throughout this month, *MMWR* will publish reports related to diabetes, including reports on diabetes among certain racial/ethnic populations, diabetes and obesity, diabetes and vision impairment, and psychological distress associated with the disease.

Influenza and Pneumococcal Vaccination Coverage Among Persons Aged >65 Years and Persons Aged 18–64 Years with Diabetes or Asthma — United States, 2003

Vaccination of persons at risk for complications from influenza and pneumococcal disease is a key public health strategy for preventing associated morbidity and mortality in the United States. Risk factors include older age and medical conditions that increase the risk for complications from infections. During the 1990–1999 influenza seasons, more than 32,000 deaths each year among persons aged ≥65 years were attributed to complications from influenza infection (1). National health objectives for 2010 call for 90% influenza and pneumococcal vaccination coverage among noninstitutionalized persons aged ≥65 years and 60% coverage among noninstitutionalized persons aged 18–64 years who have risk factors (e.g., diabetes or asthma) for complications from infections (2) (objective nos. 14.29a–d). To estimate influenza and pneumococcal vaccination coverage among these

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The MMWR series of publications is published by the Coordinating Center for Health Information and Service (Proposed), Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, GA 30333.

SUGGESTED CITATION

Centers for Disease Control and Prevention. [Article Title]. MMWR 2004;53:[inclusive page numbers].

Centers for Disease Control and Prevention

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Notifiable Disease Morbidity and 122 Cities Mortality Data

Robert F. Fagan Deborah A. Adams Felicia J. Connor Lateka Dammond Rosaline Dhara Donna Edwards Patsy A. Hall Pearl C. Sharp populations, CDC analyzed data from the 2003 Behavioral Risk Factor Surveillance System (BRFSS) survey*. This report summarizes the results of that analysis, which indicated that 1) influenza vaccination levels among adults aged 18−64 with diabetes or asthma, 2) pneumococcal vaccination levels among adults aged 18−64 years with diabetes, and 3) influenza and pneumococcal vaccination levels among adults aged ≥65 years all were below levels targeted in the national health objectives for 2010. Moreover, vaccination coverage levels varied among states for both vaccines and both age groups. Innovative approaches and adequate, reliable supplies of vaccine are needed to increase vaccination coverage, particularly among adults with high-risk conditions.

BRFSS is a state-based, random-digit-dialed telephone survey of the U.S. civilian, noninstitutionalized population aged ≥18 years. All 50 states, the District of Columbia (DC), and three U.S. territories participate in the survey. Respondents were asked, "During the past 12 months, have you had a flu shot?" and "Have you ever had a pneumonia shot?" Persons with diabetes were defined as respondents who answered "yes" to the question, "Have you ever been told by a doctor that you have diabetes?" Women who were told that they had diabetes only during pregnancy were not defined as having diabetes. Participants were also asked, "Have you ever been told by a doctor, nurse, or other health professional that you had asthma?" Those who responded "yes" were then asked, "Do you still have asthma?" Respondents who answered affirmatively to both questions were classified as having asthma. For the 2003 BRFSS, the median state/area response rate was determined to be 53.2% (range: 34.4%–80.5%) by using the CASRO method. A total of 266,346 persons responded, of whom 207,735 (83.0%) were aged 18-64 years and 56,547 (17.0%) were aged >65 years. Among respondents aged 18-64 years, 17,084 (7.8%) reported having asthma and 12,412 (5.7%) reported having diabetes. Respondents with unknown influenza (0.3%) or pneumococcal (7.0%) vaccination status were excluded from the analysis. Vaccination levels were estimated for the 50 states, DC, Guam, Puerto Rico, and the U.S. Virgin Islands (USVI). Data were weighted by age, sex, and, in certain states/areas, race/ethnicity to reflect the estimated adult population. Statistical software was used to calculate point estimates and 95% confidence intervals.

In 2003, of respondents aged ≥65 years, influenza vaccination coverage levels during the preceding 12 months ranged from 34.9% (USVI) to 80.3% (Minnesota), with a median of 69.9% (Table 1). Among respondents aged ≥65 years, the

^{*} Conditions ascertained by BRFSS that are indicated for vaccination include asthma (indicated for influenza vaccine) and diabetes (indicated for influenza and pneumococcal vaccines).

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TABLE 1. Percentage of persons aged ≥65 years who reported receiving influenza vaccine during the preceding year and receiving pneumococcal vaccine ever, by area — Behavioral Risk Factor Surveillance System, United States, 2003

| | In | fluenza vaccination ar adults aged ≥65 yea | | | nococcal vaccination adults aged ≥65 year | |
|----------------------|--------------|---|--------------------------|--------------|---|--------------------------|
| Area | % | (95% CI*) | % change [†] | % | (95% CI) | % change |
| Alabama | 70.2 | (±3.6) | 5.4§ | 61.4 | (±4.0) | 3.0 |
| Alaska | 66.5 | (±7.4) | -3.0 | 59.6 | (±8.3) | -0.2 |
| Arizona | 68.9 | (±4.5) | -0.9 | 65.5 | (±4.8) | -2.5 |
| Arkansas | 71.0 | (±3.2) | 1.9 | 61.9 | (±3.4) | 3.1 |
| California | 72.5 | (±3.8) | 1.0 | 65.2 | (±4.1) | -1.5 |
| Colorado | 74.2 | (±3.9) | 0.9 | 69.1 | (±4.1) | 0.9 |
| Connecticut | 74.3 | (±3.0) | 2.9 | 64.5 | (±3.3) | 0.0 |
| Delaware | 70.0 | (±4.1) | -1.6 | 67.4 | (±4.3) | 3.1 |
| District of Columbia | 63.0 | (±6.2) | 4.4 | 50.1 | (±6.7) | 2.2 |
| Florida | 65.9 | (±3.7) | 9.0§ | 64.5 | (±3.8) | 7.3§ |
| Georgia | 67.0 | (±3.3) | 7.7 [§] | 60.5 | (±3.5) | 3.3 |
| Hawaii | 71.6 | (±3.1) | -2.3 | 44.5 | (±3.4) | -15.0 [§] |
| Idaho | 70.3 | (±3.3) | 5.2§ | 67.2 | (±3.4) | 9.8§ |
| Illinois | 63.3 | (±4.2) | 2.2 | 56.7 | (±4.3) | 0.0 |
| Indiana | 66.1 | (±3.0) | -0.2 | 61.5 | (±3.2) | 0.3 |
| Iowa | 77.5 | (±2.6) | 4.0 | 71.4 | (±2.9) | 5.2§ |
| Kansas | 70.8 | (±3.0) | 2.1 | 60.3 | (±3.3) | -1.8 |
| Kentucky | 69.1 | (±3.0) (±2.9) | 3.3 | 59.6 | (±3.3) | 3.0 |
| Louisiana | 68.3 | (±3.3) | 11.0 [§] | 64.2 | (±3.4) | 7.9§ |
| Maine | 74.8 | (±3.3) (±4.3) | 1.0 | 64.8 | (±3.4) (±4.7) | -1.9 |
| Maryland | 68.4 | (±4.3) (±4.2) | 2.5 | 62.0 | (±4.7) (±4.3) | -1.4 |
| Massachusetts | 74.9 | ` , | 2.5 | 69.4 | (±4.5) (±3.1) | -1.4 6.0§ |
| Michigan | 67.5 | (±2.9) | -0.2 | 62.7 | ` ' | -0.3 |
| · · | | (±3.6) | | | (±3.8) | |
| Minnesota | 80.3 69.0 | (±2.8) | 3.7 6.0 [§] | 73.0 61.8 | (±3.3) | 2.6 |
| Mississippi | | (±3.2) | | | (±3.5) | 2.8 |
| Missouri | 69.9 72.8 | (±3.7) | 1.3 5.1 | 61.1 69.1 | (±3.9) | 0.3 |
| Montana | 72.6 73.6 | (±3.8) | 5.4 [§] | 64.8 | (±4.0) | 1.8 |
| Nebraska | | (±2.7) | -0.4 | | (±2.9) | 3.5 |
| Nevada | 60.0 | (±5.9) | -0.4 1.6 | 63.2 69.3 | (±6.0) | -1.8 5.5 [§] |
| New Hampshire | 73.9 | (±3.2) | -1.9 | 62.4 | (±3.3) | |
| New Jersey | 67.2 | (±2.2) | -1.9 5.8 [§] | | (±2.3) | -0.7 |
| New Mexico | 72.4 | (±2.8) | | 63.9 | (±3.1) | 1.2 |
| New York | 68.0 | (±3.4) | 3.4 | 61.7 | (±3.5) | -0.7 |
| North Carolina | 68.8 | (±2.9) | 0.6 | 66.6 | (±2.9) | 3.6 |
| North Dakota | 73.0 | (±3.5) | -0.9 | 71.2 | (±3.6) | -1.3 |
| Ohio | 68.0 | (±4.2) | 1.4 | 64.7 | (±4.5) | 1.0 |
| Oklahoma | 75.8 | (±2.1) | 3.1 | 68.6 | (±2.3) | 3.1 |
| Oregon | 70.5 | (±3.3) | 2.5 | 71.7 | (±3.4) | 6.7 [§] |
| Pennsylvania | 69.2 | (±3.4) | -1.4 | 66.1 | (±3.6) | 2.6 |
| Rhode Island | 76.2 | (±3.3) | 2.5 | 69.3 | (±3.6) | 1.7 |
| South Carolina | 69.3 | (±3.0) | -0.1 | 63.0 | (±3.2) | -1.8 |
| South Dakota | 77.9 | (±2.4) | 3.8§ | 63.7 | (±2.8) | 7.0§ |
| Tennessee | 69.1 | (±4.5) | -2.6 | 60.8 | (±4.8) | -0.6 |
| Texas | 67.7 | (±3.0) | 6.7 [§] | 62.0 | (±3.2) | 5.1 [§] |
| Utah | 74.8 | (±4.2) | 3.7 | 66.2 | (±4.8) | 1.2 |
| Vermont | 74.1 | (±3.0) | 0.5 | 66.1 | (±3.4) | -0.2 |
| Virginia | 69.6 | (±3.7) | 4.3 | 65.2 | (±3.9) | 4.4 |
| Washington | 73.4 | (±1.7) | 8.3§ | 68.6 | (±1.8) | 5.6 [§] |
| West Virginia | 69.1 | (±3.5) | 3.3 | 63.8 | (±3.6) | 2.7 |
| Wisconsin | 72.1 | (±3.6) | -1.9 | 66.7 | (±3.8) | -3.9 |
| Wyoming | 72.6 | (±3.4) | 1.9 | 70.4 | (±3.5) | 2.2 |
| Guam | 59.7 | (±13.5) | 15.6 | 37.0 | (±13.1) | 10.0 |
| Puerto Rico | 40.2 | (±4.1) | 4.8 | 32.9 | (±4.0) | 7.8 [§] |
| U.S. Virgin Islands | 34.9 | (±7.6) | 2.7 | 31.6 | (±7.6) | 1.2 |
| Median | 69.9 | | | 64.2 | | |
| Range | 34.9-80.3 | | | 31.6-73.0 | | |

^{*}Confidence interval.
†Change in vaccination coverage from 2002 to 2003.
\$Statistically significant at p<0.05.

proportion reporting ever having received pneumococcal vaccine ranged from 31.6% (USVI) to 73.0% (Minnesota), with a median of 64.2%. Compared with 2002, a total of 41 and 38 states/areas experienced increases in influenza and pneumococcal coverage among those aged ≥65 years, respectively; 11 of these increases were statistically significant for each vaccine.

Among adults aged 18–64 years with asthma or diabetes, substantial variation in vaccination coverage by area also was observed. For respondents with asthma, median influenza coverage was 34.0% and ranged from 22.5% (Puerto Rico) to 46.6% (Wyoming) (Table 2). Influenza vaccination rates among persons with asthma were higher among persons aged 50-64 years (median: 53.4%; range: 27.6%-74.9%) than among persons aged 18-49 years (median: 27.7%; range: 16.6%-41.1%). For respondents with diabetes, median influenza coverage was 49.0% and ranged from 26.5% (Puerto Rico) to 62.4% (South Dakota); the median pneumococcal coverage was 37.1% and ranged from 19.5% (Puerto Rico) to 58.2% (Montana). For persons with diabetes, vaccination rates were higher among those aged 50-64 years (for influenza, median: 56.5%; range: 23.7%-73.1% and for pneumococcal, median: 42.6%; range: 19.7%-68.1%) than among persons aged 18-49 years (for influenza, median: 37.8%; range: 22.2%–59.9% and for pneumococcal, median: 28.3%; range: 13.3%-56.7%).

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Editorial Note: The findings in this report indicate an increase in influenza and pneumococcal vaccination coverage for the majority of areas from 2002 to 2003 among adults aged ≥65 years; however, coverage among persons indicated for these vaccinations remains below the national health objectives for 2010. In addition, almost half of the states reported >50% influenza coverage levels for participants aged 18–64 years with diabetes; however, the median coverage level of influenza vaccination among participants with asthma and the median coverage level of pneumococcal vaccines among participants with diabetes were below the 2010 target of 60% for noninstitutionalized adults at high risk. Among respondents with asthma and diabetes, those aged 18–49 years had substantially lower vaccination coverage than those aged 50–64 years.

Lack of awareness of the need for vaccination is common among adults aged <65 years with high-risk conditions, such as diabetes or asthma. In a 2003 survey, approximately 75% of unvaccinated persons aged 18–64 years with diabetes reported that they were unaware of the need for influenza vaccine (CDC, unpublished data, 2003). Although use of

preventive health services by adults with diabetes has increased since 1995 (3), a substantial proportion of generalist and subspecialist physicians did not strongly recommend influenza and pneumococcal vaccinations to their patients who are elderly or at high risk (4). Low vaccination rates among persons with high-risk conditions might reflect the challenge of targeting patients for vaccinations on the basis of high-risk conditions instead of age (1). Although a majority of patients seen by subspecialists might be those who most need vaccination, subspecialists might not perceive the provision of preventive services as their role. Primary care physicians and subspecialists should work together to ensure that persons at high risk receive appropriate vaccinations. In addition, strategies to increase awareness among young adults of the need for vaccinations could be emphasized by diabetes- and asthmacare programs (3,5). The Diabetes Quality Improvement Project, a collaborative effort between public and private organizations to improve preventive care for persons with diabetes, has been ongoing since 1995 (6); this effort is one possible reason for the higher influenza vaccination rates among those with diabetes compared with those with asthma.

The findings in this report are subject to at least three limitations. First, vaccination status (influenza and pneumococcal) was based on self-report and not validated. The validity of self-reported pneumococcal vaccination is lower than that of influenza vaccination (7). Second, the median BRFSS response rate (53.2%) in this survey was low. BRFSS results have been compared with results from the National Health Interview Survey (NHIS), a household-based, face-to-face interview survey with higher response rates. Comparisons demonstrate similar trends and subgroup differences; however, BRFSS vaccination estimates are consistently higher than NHIS estimates (8). Finally, because BRFSS does not systematically assess other medical conditions for which influenza and pneumococcal vaccines are recommended, vaccine coverage for all persons with high-risk conditions was not examined.

The variation in influenza and pneumococcal vaccination coverage observed among areas suggests that vaccination coverage can be improved. Previous studies have indicated that organizational changes, such as nurse standing orders, combined with teamwork and collaboration, are effective intervention measures for increasing adult vaccination services (9). Effective measures to promote the use of such measures are needed for vaccination rates to increase.

Because of the 2004 influenza vaccine shortage, vaccine providers have been asked to direct available inactivated influenza vaccine to persons with chronic conditions, such as diabetes and asthma, and other priority groups. Further analysis of influenza vaccine coverage data will be needed to assess

TABLE 2. Percentage of persons aged 18–64 years with asthma or diabetes who reported receiving influenza vaccine during the preceding year and persons aged 18–64 years with diabetes reporting receiving pneumococcal vaccine ever, by area — Behavioral Risk Factor Surveillance System, United States, 2003

| | Influenza vaccination among adults aged 18–64 years with asthma | | adults ag | accination among ed 18–64 years n diabetes | among adults | ccal vaccination s aged 18–64 years diabetes |
|------------------------|---|-------------|--------------|--|--------------|--|
| Area | | (95% CI*) | % | (95% CI) | % | (95% CI) |
| Alabama | 33.8 | (25.7–41.8) | 47.4 | (39.4–55.4) | 34.8 | (26.9–42.7) |
| Alaska | 38.7 | (29.0–48.3) | 50.4 | (34.9–65.9) | 41.2 | (25.3–57.0) |
| Arizona | 33.9 | (24.5–43.4) | 54.4 | (41.8–66.9) | 33.8 | (22.0–45.6) |
| Arkansas | 40.2 | (33.5–46.8) | 45.2 | (37.8–52.6) | 30.7 | (23.8–37.7) |
| California | 28.7 | (22.9–34.5) | 40.2 | (31.9–48.5) | 29.5 | (21.7–37.3) |
| Colorado | 39.0 | (32.5–45.5) | 52.7 | (43.2–62.2) | 41.2 | (31.2–51.2) |
| Connecticut | 39.9 | (34.4–45.4) | 54.8 | (46.3–63.3) | 33.5 | (25.0–42.0) |
| Delaware | 34.8 | (27.5–42.0) | 44.0 | (35.2–52.8) | 27.9 | (20.5–35.2) |
| District of Columbia | 24.7 | (16.8–32.7) | 41.8 | (28.8–54.7) | | (20.5–55.2) |
| Florida | 28.8 | (20.1–37.6) | 43.4 | (34.0–52.7) | 43.7 | (34.2–53.3) |
| | 31.6 | , | | , | 26.2 | ` , |
| Georgia | | (24.0–39.2) | 38.2 | (31.9–44.4) | | (21.0–31.5) |
| <mark>Hawaii</mark> | <mark>42.0</mark> 31.3 | (33.8–50.1) | 57.5 | (48.6–66.3) | 26.4 | (18.3–34.4) |
| Idaho | | (25.2–37.4) | 54.6 | (45.9–63.4) | 38.6 | (30.2–47.0) |
| I <mark>llinois</mark> | 32.4 | (26.1–38.7) | 38.1 | (49.8–46.4) | 29.4 40.5 | (21.3–37.5) |
| Indiana | 33.7 | (28.4–39.0) | 46.6 | (40.0–53.2) | 40.5 | (34.0–47.1) |
| Iowa | 31.3 | (24.3–38.3) | 62.2 | (54.3–70.1) | 48.5 | (40.2–56.9) |
| Kansas | 30.4 | (24.2–36.6) | 49.8 | (41.4–58.2) | 33.9 | (25.9–42.0) |
| Kentucky | 29.7 | (24.1–35.2) | 46.6 | (40.0–53.3) | 33.8 | (27.6–40.0) |
| Louisiana | 36.6 | (29.7–43.6) | 40.9 | (34.4–47.4) | 31.6 | (25.6–37.7) |
| Maine | 39.3 | (31.4–47.3) | 49.0 | (38.4–59.7) | 35.0 | (24.9–45.2) |
| Maryland | 38.4 | (30.7-46.0) | 46.6 | (37.6–55.6) | 38.0 | (28.9-47.0) |
| Massachusetts | 36.8 | (31.9–41.6) | 49.7 | (42.2–57.3) | 39.1 | (31.5–46.8) |
| Michigan | 34.3 | (27.8–40.9) | 42.1 | (34.6–49.7) | 38.0 | (30.4-45.5) |
| Minnesota | 40.1 | (32.4–47.8) | 56.3 | (47.2–65.4) | 33.6 | (25.1-42.2) |
| Mississippi | 30.4 | (23.5–37.4) | 39.8 | (33.6–46.1) | 22.6 | (17.0-28.3) |
| Missouri | 31.9 | (24.4–39.5) | 48.6 | (39.0–58.1) | 35.2 | (26.2-44.2) |
| Montana | 46.6 | (38.4–54.8) | 58.8 | (48.7–69.0) | 58.2 | (47.7–68.7) |
| Nebraska | 43.1 | (36.6–45.1) | 57.0 | (48.8–65.2) | 37.7 | (29.7-45.8) |
| Nevada | 27.8 | (18.6–37.1) | 29.0 | (17.7–40.3) | 40.0 | (26.4-53.6) |
| New Hampshire | 36.8 | (31.0-42.6) | 61.9 | (54.2-69.6) | 50.6 | (42.6-58.7) |
| New Jersey | 31.6 | (27.4-35.8) | 41.9 | (36.4-47.4) | 29.6 | (24.6-34.6) |
| New Mexico | 39.7 | (33.2-46.1) | 61.3 | (53.4-69.2) | 46.1 | (37.6-54.6) |
| New York | 38.6 | (32.9-44.3) | 53.5 | (45.7-61.4) | 43.6 | (35.5-51.7) |
| North Carolina | 34.0 | (27.9-40.1) | 46.1 | (39.7-52.4) | 38.3 | (31.9-44.7) |
| North Dakota | 38.8 | (30.6–46.9) | 56.3 | (45.4–67.3) | 36.4 | (26.1–46.7) |
| Ohio | 30.4 | (23.3–37.5) | 38.0 | (29.6–46.5) | 41.8 | (32.3–51.2) |
| Oklahoma | 38.0 | (32.8–43.3) | 53.9 | (48.1–59.6) | 41.3 | (35.6–46.9) |
| Oregon | 34.4 | (28.2–40.7) | 54.5 | (45.3–63.6) | 48.4 | (38.9–57.9) |
| Pennsylvania | 33.6 | (26.5–40.6) | 59.3 | (50.7–67.9) | 37.1 | (28.2–45.9) |
| Rhode Island | 42.0 | (35.7–48.3) | 58.9 | (49.4–68.3) | 46.6 | (37.2–56.0) |
| South Carolina | 38.9 | (32.4–45.4) | 52.1 | (45.9–58.2) | 34.9 | (29.1–40.8) |
| South Dakota | 45.8 | (37.6–54.0) | 62.4 | (54.9–69.9) | 37.7 | (30.1–45.3) |
| Tennessee | 32.8 | (24.9–40.8) | 47.4 | (38.6–56.1) | 28.1 | (21.0–35.3) |
| Texas | 31.9 | (25.8–37.9) | 40.8 | (34.9–46.7) | 29.2 | (23.5–34.8) |
| Utah | 30.9 | (23.4–38.3) | 53.1 | (42.5–63.7) | 53.4 | (42.6–64.1) |
| Vermont | 30.7 | (24.5–36.9) | 56.0 | (47.2–64.7) | 40.7 | (31.8–49.6) |
| Virginia | 32.9 | (25.5–40.2) | 45.1 | (37.1–53.0) | 34.8 | (27.0–49.5) |
| Washington | 36.5 | (33.4–39.7) | 50.5 | (46.2–54.8) | 43.8 | (39.4–48.1) |
| West Virginia | 37.5 | (30.5–44.5) | 52.4 | (44.8–60.0) | 40.3 | (32.9–47.7) |
| Wisconsin | 37.5 34.3 | (30.5–44.5) | 52.4 58.0 | (47.9–68.2) | 55.5 | (45.3–65.8) |
| | | (39.2–54.0) | 47.3 | (38.6–56.0) | 46.0 | (37.2–54.9) |
| Wyoming | 46.6 | (33.2-34.0) | | (30.0–30.0) | | (31.2–34.9) |
| Guam Buorto Bioo | 22.5 | (17.3–27.8) | | (20.2.22) | 10.5 | (12.0.05.4) |
| Puerto Rico | 22.5 | (11.3-21.8) | 26.5 | (20.3–32.7) | 19.5 | (13.9–25.1) |
| U.S. Virgin Islands | _ | | 28.2 | (18.7–37.7) | _ | |
| Median | 34.0 | | 49.0 | | 37.1 | |
| Range | 22.5-46.6 | | 26.5-62.4 | | 19.5–58.2 | |

^{*}Confidence interval.
†Number of respondents too small for meaningful analysis.

the impact of this shortage on influenza vaccine coverage and efforts to redirect vaccine to persons at greatest risk for influenza complications. Ensuring adequate amounts of influenza vaccine is critical if vaccination rates of persons at high risk are to continue improving. Pneumococcal vaccine supplies appear to be adequate to meet expected demand. Pneumococcal vaccination should be encouraged for populations at high risk, both to reduce the risk for invasive pneumococcal disease itself and to reduce complications of influenza infection.

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Influenza Vaccination and Self-Reported Reasons for Not Receiving Influenza Vaccination Among Medicare Beneficiaries Aged <u>></u>65 years — United States, 1991–2002

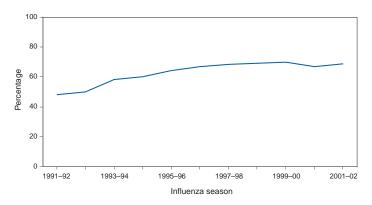
Annual influenza vaccination of the U.S. elderly population has been demonstrated as safe and effective in reducing the risks of illness, hospitalization, and death (1). The Medicare Current Beneficiary Survey (MCBS) has measured annual influenza vaccination rates since 1991; the latest data

available are for the 2001–02 influenza season. Since 1996, self-reported reasons for not receiving influenza vaccine also have been measured. During 1991–2002, MCBS indicated a steady upward trend in vaccination coverage among Medicare beneficiaries, with the exception of the 2000–01 influenza season, when vaccine distribution was delayed. The most frequently cited reasons for not receiving influenza vaccine were 1) not knowing that influenza vaccination was needed and 2) concerns that vaccination might cause influenza or side effects. During the 2000–01 influenza season, vaccine shortage or unavailability was noted for the first time as an important reason for nonvaccination. Further efforts are needed to educate the elderly regarding the benefits of influenza vaccination and to address any concerns regarding the safety of the vaccine.

MCBS is a nationally representative survey of the Medicare population, conducted by the Centers for Medicare & Medicaid Services (CMS). Beneficiaries sampled from Medicare enrollment files (or appropriate proxies) are interviewed in person. Primary sampling units (PSUs) consist of persons in 107 geographic areas chosen to represent the nation; beneficiaries residing in these PSUs are selected by systematic random sampling within age strata. Data for this report were analyzed by using statistical software to account for sampling weights in calculating point estimates of proportions; analyses were restricted to Medicare beneficiaries aged ≥65 years who resided in a noninstitutional setting.

Each year, MCBS asks respondents, "Did you have a flu shot for last winter?" The percentage reporting receipt of influenza vaccination increased each influenza season from 1991–92 through 1999–2000, and especially in 1993–94 (Figure 1), when influenza vaccination first became a Medicare benefit. However, during the 2000–01 influenza season, the vaccination rate declined instead of maintaining an annual increase; 67.0% (20.5 million of 30.6 million

FIGURE 1. Percentage of Medicare beneficiaries aged ≥65 years who reported influenza vaccination, by influenza season — United States, 1991–2002



a·ware: adj

(ə-'wâr) 1 : marked by comprehension, cognizance, and perception; see

also MMWR.

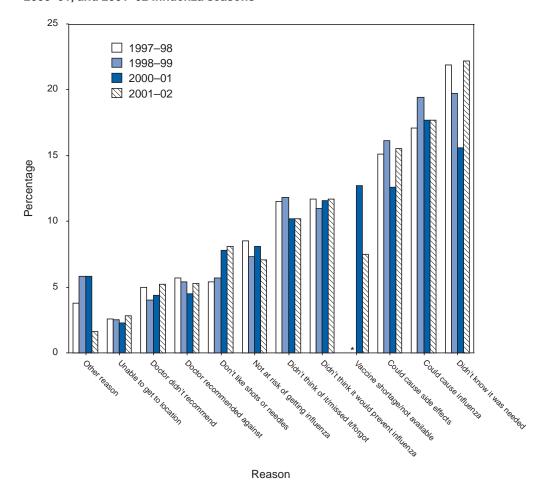


Medicare beneficiaries aged ≥65 years living in the community) reported receiving the vaccine, compared with a record high of 70.0% (21.2 million out of 30.3 million) in 1999–00. For the 2001–02 influenza season, 68.8% (21.3 million of 31.0 million) reported receiving influenza vaccine.

The MCBS also asks about reasons for not getting influenza vaccination. The question asked is "Why didn't you get a flu shot for last winter?" Respondents are free to give any reason or reasons, with open-ended responses recorded by interviewers into prespecified categories. This question was omitted for the 1999–00 influenza season.

The leading reasons for nonvaccination reported for 1997–98, 1998–99, 2000–01, and 2001–02 were not knowing that influenza vaccination was needed and concerns that vaccination might cause influenza or side effects (Figure 2). In 2000–01, for the first time, one of the leading reasons was that vaccine was unavailable or in short supply. For the 2000–01 season,

FIGURE 2. Percentage of Medicare beneficiaries aged ≥65 years who reported reasons for not receiving influenza vaccination, by reason — United States, 1997–98, 1998–99, 2000–01, and 2001–02 influenza seasons



^{*} Not listed as a reason before 2000-01 influenza season.

12.7% of unvaccinated respondents reported vaccine unavailability as a reason for not receiving influenza vaccine. This equates to approximately 1.25 million persons, or 4.2% of the total elderly Medicare population living in the community, which amounts to roughly the difference between the expected annual increase and the actual decline for 2000–01 in self-reported influenza vaccination. By contrast, during the 2001–02 influenza season, an estimated 7.5% of unvaccinated respondents (approximately 707,000 persons, or 2.3% of the total elderly Medicare population living in the community) reported vaccine unavailability as a reason for nonvaccination.

Reported by: GS Adler, MPhil, Office of Research, Development, and Information, Centers for Medicare & Medicaid Svcs. CA Winston, PhD, Immunization Svcs Div, National Immunization Program, CDC.

Editorial Note: For the 2000–01 influenza season, production delays created shortages of influenza vaccine, especially at the beginning of the vaccination period (i.e., October and

November), when demand was greatest (2). Delays in vaccine production continued for the 2001-02 influenza season but were considered less severe (3). The 2000-01 decline and subsequent rebound of vaccination coverage in 2001-02 was observed by other government health surveys (4-6). However, the self-reported MCBS data establish an association between vaccine shortages and reduced vaccination rates among the Medicare population aged ≥65 years, one of the groups at high risk for influenza complications.

The findings in this report are subject to at least two limitations. First, vaccination status during the preceding influenza season is self-reported and subject to recall and social desirability bias. Second, the results are subject to survivor bias (i.e., persons who died could not be interviewed about their vaccination status the previous winter). Finally, participant reasons for nonvaccination are categorized during the interview, rather than recorded verbatim. Although "other" reasons are captured as

a category and reviewed for retrospective categorizing of responses, interviewer coding might result in misclassification or in a different distribution of reasons than would be obtained by providing respondents a list of answers from which to choose.

Consequences from the vaccine shortage in 2000-01 were limited because of the mildness of the influenza virus that season (7). CDC has previously estimated that for each 1 million elderly persons vaccinated, approximately 900 deaths and 1,300 hospitalizations are prevented (8). Influenza vaccination rates are used as indicators of progress toward achieving the national health objectives for 2010. CMS, together with CDC, has conducted a long-term, structured campaign to promote the benefits of vaccination to Medicare beneficiaries and to improve provider performance. These efforts have resulted in large increases in vaccination during the preceding decade. However, even the strongest efforts of government agencies to promote vaccination are subject to the constraints of limited vaccine supply. During the current influenza vaccine shortage, vaccine is prioritized for populations at high risk, including the elderly.

During 1997–2002, other reasons for nonvaccination were cited more often than reduced availability of vaccine. The most common reasons for nonvaccination were lack of knowledge about the need for vaccination and misconceptions about influenza vaccination and disease or side effects (9). These reasons remain important modifiers of elderly Medicare beneficiaries' behavior and can be further addressed through communications about influenza vaccination. Evidence-based strategies should be developed and used to 1) educate the public and vaccination providers regarding the benefit of influenza vaccine for the elderly and 2) address concerns about the safety and efficacy of the vaccine.

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Acute Hepatitis B Among Children and Adolescents — United States, 1990–2002

Since the 1991 adoption of a comprehensive strategy to eliminate hepatitis B virus (HBV) transmission in the United States (1), the incidence of acute hepatitis B cases has declined steadily. Declines have been greatest among children born after the 1991 recommendations for universal infant hepatitis B vaccination were implemented. In 1995, the elimination strategy was expanded to include routine vaccination of all adolescents aged 11-12 years and, in 1999, to include children aged ≤18 years who had not been vaccinated previously (2). To describe the epidemiology of acute hepatitis B in children and adolescents in the United States, CDC analyzed notifiable disease surveillance data collected during 1990–2002 and data collected during 2001-2002 through enhanced surveillance of reported cases of acute hepatitis B in children born after 1990. This report summarizes the results of that analysis, which indicated that the rate of acute hepatitis B in children and adolescents decreased 89% during 1990-2002 and that racial disparities in hepatitis B incidence have narrowed. Many confirmed cases in persons born after 1990 occurred among international adoptees and other children born outside the United States. Continued implementation of the hepatitis B elimination strategy and accurate surveillance data to monitor the impact of vaccination are necessary to sustain the decline of acute hepatitis B among children.

Cases of acute hepatitis B were reported weekly to CDC by all 50 states and the District of Columbia. Acute hepatitis B rates were calculated per 100,000 population by using population denominators from the U.S. Census Bureau. Acute hepatitis B was defined as an acute illness with 1) discrete onset of symptoms and jaundice or elevated serum aminotransferase levels and 2) laboratory evidence of either IgM antibody to hepatitis B core antigen (IgM anti-HBc) or hepatitis B surface antigen (HBsAg). Since March 2001, CDC has conducted enhanced hepatitis B surveillance, contacting states to confirm all reported cases of acute hepatitis B in persons born after 1990. State surveillance staff members were asked to verify

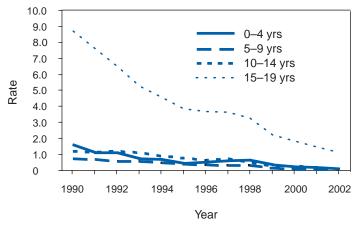
each of the items in the case definition and provide information regarding vaccination history and country of birth. If errors were identified during this process, states were asked to correct the information in an updated submission to CDC.

National Surveillance

During 1990–2002, a total of 13,829 cases of acute hepatitis B were reported in the United States among persons aged ≤19 years. The incidence of reported cases declined steadily during this period, from 3.03 per 100,000 population in 1990 to 0.34 in 2002, representing a decline of 89%. The incidence among adolescents aged 15–19 years was consistently higher than the incidence among younger age groups (Figure 1), ranging from 8.69 per 100,000 population in 1990 to 1.13 in 2002. Children and adolescents in all age groups experienced steep declines in incidence during 1990–2002; incidence declined 94% among children aged 0–4 years, 92% among children aged 5–9 years, 93% among those aged 10–14 years, and 87% among adolescents aged 15–19 years.

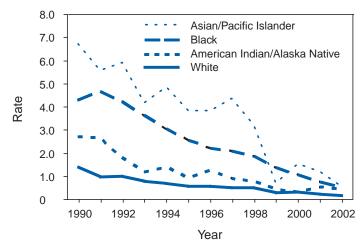
Among children and adolescents aged ≤19 years in 1990, incidence per 100,000 population was highest among Asian/Pacific Islanders (A/PIs) (6.74) and blacks (4.29); whites had the lowest race-specific incidence (1.39). Differences in incidence between whites and A/PIs and between whites and blacks were 5.34 and 2.90, respectively. From 1990 to 2002, rates declined 92% among A/PIs, 88% among whites, 88% among blacks, and 84% among American Indians/Alaskan Natives (AI/ANs) (Figure 2). In 2002, the highest incidence per 100,000 population was among A/PIs (0.55), followed by blacks (0.51), AI/ANs (0.43), and whites (0.16); since 1990, differences in incidence between whites and A/PIs and whites and blacks declined by 93% and 88%, respectively.

FIGURE 1. Rate* of acute hepatitis B in children and adolescents, by age group and year — United States, 1990–2002



^{*} Per 100,000 population.

FIGURE 2. Rate* of acute hepatitis B in persons aged ≤19 years, by race and year — United States, 1990–2002



^{*} Per 100,000 population.

Case Investigations

Follow-up investigations conducted by CDC and state and local health departments verified 19 case reports from 2001 and 2002 as cases of acute hepatitis B among children born after 1990 (Table). Of the verified case reports, 12 (60%) involved males, eight (42%) involved children aged <2 years, and 11 (58%) involved children born in the United States. Seven (37%) reported race as A/PI, five (26%) as white, four (21%) as black, and three (16%) as unknown. Eight (42%)

TABLE. Acute hepatitis B cases* among U.S. residents born after 1990, by year and selected characteristics — United States, 2001–2002

| Reporting | | | Birth country | International |
|-----------|--------|-----------------|----------------------|---------------|
| year | Age | Race | or continent | adoptee |
| 2001 | 8 yrs | White | United States | No |
| | 1 yr | Asian/Pacific | | |
| | | Islander (A/PI) | United States | No |
| | 7 yrs | A/PI | Asia | No |
| | 1 yr | A/PI | United States | No |
| | 5 yrs | A/PI | China | Yes |
| | 8 yrs | White | Bulgaria | Yes |
| | 5 yrs | White | United States | No |
| | 9 yrs | A/PI | United States | No |
| | 10 mos | Unknown | Russia | Yes |
| | 1 yr | A/PI | Phillipines | Yes |
| | 5 yrs | White | United States | No |
| | 9 mos | White | Ukraine | Yes |
| | 10 mos | Black | United States | No |
| | 5 yrs | Black | United States | No |
| 2002 | 7 yrs | Black | United States | No |
| | 9 mos | A/PI | Vietnam | Yes |
| | 1 yr | Unknown | Tanzania | Unknown |
| | 9 yrs | Black | United States | No |
| | 11 yrs | Unknown | United States | No |

^{*} Confirmed by follow-up investigation.

cases were reported in children born outside the United States, including six international adoptees (32%). Receipt of ≥1 dose of hepatitis B vaccine was confirmed in three (16%) cases. Vaccination status was unknown for 12 cases (63%).

Reported by: State and local health departments. C Shepard, MD, L Finelli, DrPH, B Bell, MD, J Miller, MPH, Div of Viral Hepatitis, National Center for Infectious Diseases, CDC.

Editorial Note: The incidence of acute hepatitis B cases in U.S. children and adolescents decreased during the era of universal childhood vaccination. This decline coincided with an increase in hepatitis B vaccination coverage among children aged 19–35 months, from 16% in 1992 to 90% in 2002, and among adolescents aged 13–15, from nearly 0 in 1992 to 67% in 2002 (3,4).

Declines in incidence were observed for children of all races. including A/PIs, whose rates historically have been higher than the national average. Because of the disproportionate burden of hepatitis B in A/PI communities, A/PI children were among the first groups for whom hepatitis B vaccination was recommended (3). The reduction of the disparity between A/PIs and other children is consistent with recent observations noting a decline in seroprevalence of HBV infection and successful implementation of routine hepatitis B vaccination among Asians who have recently immigrated to the United States (5). However, of the 11 verified cases during 2001-02 of acute hepatitis B among children born in the United States, three (27%) involved A/PIs (Table). Although the national origins of these children's household members are unknown, the substantial proportion of A/PIs suggests that horizontal transmission of HBV among first-generation Asians might be a persistent problem (6).

The higher incidence among older adolescents (aged 15–19 years) likely is attributable to their having been born before universal infant hepatitis B vaccination was recommended in 1991. Incidence among older adolescents is expected to decline further as the vaccinated cohort ages and as 1999 recommendations to vaccinate all previously unvaccinated persons aged 0–18 years are fully implemented. The expected decline in rates among adolescents also might be augmented by laws in 32 states requiring proof of hepatitis B vaccination before entry into middle school (7).

Follow-up information obtained through surveillance of reported cases suggests that children born outside the United States, especially international adoptees, represent a substantial proportion of cases. Cases of acute hepatitis B among international adoptees might result from undervaccination and increased risk for exposure while living in areas with high prevalence of chronic HBV infection. International adoptees are

exempt from U.S. regulations* that bar entry to immigrants without documentation of hepatitis B vaccination. Studies have demonstrated that international adoptees exhibit low rates of protective titers of antibodies to vaccine-preventable diseases upon arrival in the United States, including adoptees with written evidence of age-appropriate vaccination provided by the birth country (8,9). Appropriate evaluation and remediation of the immunization status of international adoptees has been promoted through national guidelines (10); however, the extent to which these guidelines have been implemented is unknown.

Despite the decline in acute hepatitis B cases among children in the United States, the presence of confirmed cases highlights the importance of infant vaccination and timely completion of the 3-dose vaccination series. The vaccination series should be started at birth, preferably before the newborn is discharged from the hospital. Infants born to women who are HBsAg positive or who have not had prenatal HBsAg testing should receive the first fose of hepatitis B vaccine within 12 hours of birth (1). Beginning the vaccination series at birth decreases the risk for perinatal HBV transmission and predicts successful completion of the series.

Although enhanced surveillance data from verified case reports suggest that international adoptees and other children born outside the United States might particularly benefit from future prevention efforts, many case reports lacked risk factor information. As the incidence of acute hepatitis B among children and adolescents declines, accurate surveillance data become increasingly important to monitor the effect of immunization recommendations. Continued efforts of local, state, and national surveillance staff to improve data quality are critical to eliminating HBV transmission in the United States.

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Blood Mercury Levels in Young Children and Childbearing-Aged Women — United States, 1999–2002

Exposure to high levels of mercury (Hg) can cause neurologic and kidney disorders (1-3). Because methylated Hg (methyl-Hg) in the aquatic environment accumulates in animal tissues up the food chain, persons in the United States can be exposed by eating freshwater fish, seafood, and shellfish. Exposure of childbearing-aged women is of particular concern because of the potential adverse neurologic effects of Hg in fetuses. To determine levels of total blood Hg in childbearing-aged women and in children aged 1-5 years in the United States, CDC's National Health and Nutrition Examination Survey (NHANES) began measuring blood Hg levels in these populations in 1999. This report summarizes NHANES results for 1999–2002 and updates previously published information (4,5). The findings confirmed that blood Hg levels in young children and women of childbearing age usually are below levels of concern. However, approximately 6% of childbearing-aged women had levels at or above a reference dose, an estimated level assumed to be without appreciable harm (≥5.8 µg/L). Women who are pregnant or who intend to become pregnant should follow federal and state advisories on consumption of fish.

NHANES is a continuous survey of the health and nutritional status of the civilian, noninstitutionalized U.S. population; data are released and reported in 2-year cycles (6). Each participant undergoes a household interview and a physical examination. During the physical examination, blood is collected by venipuncture from all persons aged ≥ 1 year. For this analysis, whole-blood specimens were analyzed for total and inorganic Hg for children aged 1–5 years and women aged 16–49 years by automated, cold-vapor atomic absorption spectrophotometry in CDC's inorganic toxicology laboratory. The analytic method detection limit was $0.14 \,\mu\text{g/L}$ (ppb) for total Hg and $0.4 \,\mu\text{g/L}$ (ppb) for inorganic Hg (7). Blood Hg levels

less than the limit of detection were assigned a value equal to the detection limit divided by the square root of 2 for the calculation of geometric mean (GM) values.

During 1999–2002, the GMs of total blood Hg concentrations for all childbearing-aged women and for children aged 1–5 years were 0.92 μ g/L and 0.33 μ g/L, respectively; the 95th percentiles of blood Hg for women and children were 6.04 μ g/L and 2.21 μ g/L, respectively (Table 1). The percentage of all women aged 16–49 years with Hg levels \geq 5.8 μ g/L (the Environmental Protection Agency's [EPA] Reference Dose [RfD]) was 5.66% (95% confidence interval [CI] = 4.04–7.95) (Table 2).

Among children aged 1–5 years, the estimated percentage who had blood Hg levels \geq 5.8 μ g/L during 1999–2002 could not be reported because the observed percentage was too low for the given sample size to calculate a statistically reliable national population estimate. Almost all inorganic blood Hg levels were undetectable, indicating that total blood Hg greater than or equal to the EPA RfD mostly reflected exposure to organic Hg (especially methyl-Hg).

Reported by: RL Jones, PhD, T Sinks, PhD, SE Schober, PhD, M Pickett, MPH, National Center for Environmental Health; National Center for Health Statistics, CDC.

Editorial Note: This report updates NHANES 1999–2000 estimates of blood Hg levels (5), the first nationally representative estimates of U.S. women's and children's exposures to Hg based on biologic measures. The findings indicate that blood Hg levels in young children and childbearing-aged women usually are below levels of concern.

Among childbearing-aged women, for the 4-year period 1999–2002, estimates of the GM of blood Hg and the proportion with levels \geq 5.8 μ g/L were lower than estimates for the 2-year period 1999–2000, reflecting apparent declines in these values for the 2-year period 2001–2002. However, when these differences were evaluated by comparing estimates for the two 2-year periods, the declines were not statistically significant: the GM of blood Hg for 2001–2002 was 0.83 μ g/L (CI = 0.73–0.93), compared with 1.02 μ g/L (CI = 0.80–1.24) for 1999–2000, and the percentage of women with blood Hg levels \geq 5.8 μ g/L was 3.9% in 2001–2002 (CI = 2.40–6.43), compared with 7.8% in 1999–2000 (CI = 4.70–12.83). At least 2 more years of data are needed to best determine whether Hg exposure has declined among women of childbearing age in the United States.

Although NHANES data are released and often analyzed as 2-year periods, the estimates of blood Hg levels for 1999–2002 are the most reliable estimates of current exposure. The 4-year period provides greater geographic coverage, and estimates and sample errors are more stable, thus reducing vari-

TABLE 1. Geometric means (GMs) and selected percentiles of total blood mercury (Hg) concentrations (μ g/L) for women aged 16–49 years and children aged 1–5 years, by selected variables — National Health and Nutrition Examination Survey, United States, 1999–2002

| | | | | | Sele | ected per | centile (95% CI) | | |
|---------------------|-------|------|-------------|------|-----------------------|-----------|------------------|------|-------------|
| Variable | No. | GM | (95% CI*) | 5th | (95% CI) | 10th | (95% CI) | 25th | (95% CI) |
| Women | | | | | | | | | |
| Race/Ethnicity | | | | | | | | | |
| Mexican American | 1,106 | 0.74 | (0.64-0.84) | 0.10 | (0.08-0.15) | 0.17 | (0.12-0.23) | 0.34 | (0.27-0.45) |
| White, non-Hispanic | 1,377 | 0.87 | (0.76-0.99) | 0.09 | (0.08-0.10) | 0.15 | (0.13-0.18) | 0.37 | (0.34-0.45) |
| Black, non-Hispanic | 794 | 1.18 | (1.00-1.36) | 0.17 | (0.12-0.25) | 0.30 | (0.24-0.38) | 0.60 | (0.55-0.73) |
| Age group (yrs) | | | | | | | | | |
| 16–29 | 2,004 | 0.68 | (0.60-0.76) | 0.08 | (0.07-0.09) | 0.11 | (0.09-0.14) | 0.29 | (0.25-0.37) |
| 30–49 | 1,633 | 1.10 | (0.97-1.24) | 0.13 | (0.10-0.16) | 0.24 | (0.20-0.29) | 0.52 | (0.45-0.60) |
| Pregnancy status | | | | | | | | | |
| Pregnant | 629 | 0.75 | (0.60-0.90) | 0.08 | ([†] –0.10) | 0.10 | (0.08-0.20) | 0.32 | (0.24-0.44) |
| Not pregnant | 2,978 | 0.94 | (0.84-1.04) | 0.10 | (0.09-0.11) | 0.18 | (0.15-0.21) | 0.41 | (0.38-0.47) |
| Total | 3,637 | 0.92 | (0.82-1.02) | 0.09 | (0.09-0.11) | 0.17 | (0.15-0.20) | 0.40 | (0.36-0.47) |
| Children | | | | | | | | | |
| Race/Ethnicity | | | | | | | | | |
| Mexican American | 526 | 0.35 | (0.30-0.40) | | | 0.08 | (0.09) | 0.13 | (0.10-0.16) |
| White, non-Hispanic | 447 | 0.29 | (0.24–0.33) | | | 0.07 | (–0.08) | 0.09 | (0.09–0.10) |
| Black, non-Hispanic | 424 | 0.50 | (0.44–0.57) | 0.08 | (0.10) | 0.10 | (0.09-0.13) | 0.22 | (0.18–0.26) |
| Total | 1,577 | 0.33 | (0.30-0.37) | | | 0.07 | (0.08) | 0.10 | (0.09-0.12) |

^{*} Confidence interval.

TABLE 1. (Continued) Geometric means (GMs) and selected percentiles of total blood mercury (Hg) concentrations (µg/L) for women aged 16–49 years and children aged 1–5 years, by selected variables — National Health and Nutrition Examination Survey, United States, 1999–2002

| | | | | Selected per | centile (95 | 5% CI) | | |
|---------------------|------|-------------|------|---------------|-------------|---------------|------|--------------|
| Variable | 50th | (95% CI) | 75th | (95% CI) | 90th | (95% CI) | 95th | (95% CI) |
| Women | | | | | | | | |
| Race/Ethnicity | | | | | | | | |
| Mexican American | 0.73 | (0.67-0.83) | 1.27 | (1.16-1.48) | 2.38 | (2.05-2.95) | 3.60 | (3.03-6.48) |
| White, non-Hispanic | 0.81 | (0.76-0.92) | 1.69 | (1.51–2.15) | 3.73 | (2.84–5.14) | 6.17 | (4.64-9.30) |
| Black, non-Hispanic | 1.15 | (1.05-1.41) | 2.12 | (1.86-2.70) | 3.89 | (3.24-5.03) | 5.54 | (4.27-11.08) |
| Age group (yrs) | | | | | | | | |
| 16–29 | 0.64 | (0.55-0.77) | 1.34 | (1.24 - 1.54) | 2.58 | (2.28 - 3.13) | 3.87 | (3.32-7.80) |
| 30–49 | 1.02 | (0.91–1.19) | 2.10 | (1.79–2.69) | 4.56 | (3.74-5.76) | 6.97 | (5.73–11.62) |
| Pregnancy status | | | | | | | | |
| Pregnant | 0.73 | (0.63-0.97) | 1.50 | (1.38-1.90) | 3.11 | (2.14-4.79) | 4.86 | (3.00-8.02) |
| Not pregnant | 0.88 | (0.80-1.00) | 1.83 | (1.65–2.11) | 3.93 | (3.26-4.93) | 6.11 | (5.12–10.90) |
| Total | 0.86 | (0.80-0.98) | 1.81 | (1.62–2.16) | 3.89 | (3.20-4.88) | 6.04 | (5.08–10.74) |
| Children | | | | | | | | |
| Race/Ethnicity | | | | | | | | |
| Mexican American | 0.28 | (0.24-0.33) | 0.63 | (0.56-0.81) | 1.36 | (1.05-1.57) | 1.85 | (1.60-2.66) |
| White, non-Hispanic | 0.20 | (0.17–0.25) | 0.49 | (0.38–0.63) | 1.15 | (0.80–1.49) | 1.78 | (1.18–2.69) |
| Black, non-Hispanic | 0.47 | (0.40–0.58) | 0.88 | (0.78–1.02) | 1.54 | (1.312.04) | 2.37 | (1.75–3.64) |
| Total | 0.26 | (0.23-0.29) | 0.61 | (0.56-0.70) | 1.29 | (1.08–1.69) | 2.21 | (1.80-3.66) |

ability caused by differing exposures to Hg across survey site locations. Accordingly, the National Center for Health Statistics advises users of these data that the most reliable estimates of current exposure are obtained when the 1999–2002 data are analyzed together (6).

The EPA RfD is based on measures of Hg in cord blood and is a level assumed to be without appreciable harm. The RfD was determined by applying an uncertainty factor of 10 to a dose (58 μ g/L) that was the lower 95% confidence limit of a dose associated with an increased proportion of abnor-

Below the limits of detection.

TABLE 2. Percentage of women aged 16–49 years with blood mercury (Hg) levels ≥5.8 µg/L, by race/ethnicity — National Health and Nutrition Examination Survey, United States, 1999–2002

| | | % with | |
|---------------------|-------|---------------------|---------------|
| Race/Ethnicity | No. | Hg levels ≥5.8 μg/L | (95% CI*) |
| Mexican American | 1,106 | 1.70 | (1.04-2.79) |
| White, non-Hispanic | 1,377 | 5.77 | (3.71 - 8.97) |
| Black, non-Hispanic | 794 | 4.82 | (2.55-9.11) |
| Total | 3,637 | 5.66 | (4.04-7.95) |

^{*} Confidence interval.

mal scores on the Boston Naming Test for children exposed in utero (2). All women and children in the 1999–2002 NHANES survey period had blood Hg levels below 58 μ g/L. The harm to a fetus from levels of exposure as measured by cord blood levels between 5.8 μ g/L and 58 μ g/L is uncertain.

The findings in this report are subject to at least two limitations. First, NHANES does not include an adequate sampling of women (e.g., sport fishers) who might eat large amounts of fish to characterize the distribution of total blood Hg in this group. Second, the ratio of Hg in cord to maternal blood (i.e., equivalent to NHANES measures) is uncertain (2,8). Therefore, NHANES values might not be directly comparable to the EPA RfD, which is based on cord blood Hg levels.

Fish are an important part of a diet, high in protein and nutrients and low in saturated fatty acids and cholesterol. The short-term strategy to reduce Hg exposure is to eat fish with low Hg levels and avoid or reduce consumption of fish with high Hg levels. Because exposure to methyl-Hg can harm fetuses, the Food and Drug Administration (FDA) advises that women who are or might become pregnant not eat shark, swordfish, king mackerel, and tile fish (9). In addition, EPA and the Agency for Toxic Substances and Disease Registry have established daily consumption levels of Hg considered to be without harm (1). State-based fish advisories and bans identify fish species contaminated by Hg and their locations and provide safety advice (10). The NHANES program continues to collect Hg measurements in human tissue to monitor the effectiveness of efforts to reduce Hg exposure in the U.S. population.

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Outbreak of Histoplasmosis Among Industrial Plant Workers — Nebraska, 2004

In February 2004, the Nebraska Health and Human Services System (NHHSS) notified CDC about an outbreak of histoplasmosis among workers at a local agricultural processing plant (plant A). Three workers at the plant had acute, febrile, respiratory illness; two had serologic evidence of histoplasmosis. NHHSS and CDC conducted an investigation to determine the source of transmission and the extent of the outbreak. This report summarizes the findings of that investigation, which confirmed occupationally acquired histoplasmosis. Additional measures might be necessary to minimize risk for histoplasmosis among persons who work in the agricultural industry in areas where it is endemic.

Plant A is located in an area with historically low endemicity for histoplasmosis. However, in September 2003, NHHSS had investigated an outbreak of histoplasmosis at plant A related to excavation of soil and repair of an underground outdoor pipe. Approximately 3 months later, on January 2, 2004, the excavated soil (i.e., spoil pile) was moved, under standard protocol and appropriate precautions, to an off-site landfill. None of the plant workers with suspected histoplasmosis in the 2004 outbreak had participated in removal of the spoil pile, nor had they been implicated in the 2003 outbreak.

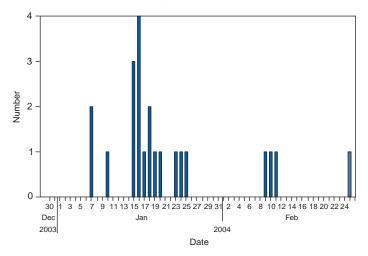
To identify workers with symptomatic acute pulmonary histoplasmosis acquired during the 2004 outbreak, a cohort

study was conducted among plant workers. To better identify risk factors for disease, a nested case-control study was performed among workers who had laboratory testing for histoplasmosis. For the cohort study, all workers were instructed by plant safety managers to complete a self-administered, webbased questionnaire in late February 2004. A clinical case of histoplasmosis was defined as fever plus at least one of the following four symptoms in a plant A worker reported since January 1, 2004: headache, cough, chest pain, or shortness of breath. Workers whose symptoms were consistent with the clinical case definition had histoplasmosis serology testing performed. A laboratory-confirmed case was defined as the presence of a complement fixation (CF) titer ≥1:32 and/or the presence of an H or M band by immunodiffusion test from a single serum sample obtained from a plant A worker, drawn at least 6 weeks after onset of illness. Controls for the case-control study were randomly selected from workers without any symptoms of histoplasmosis identified during the cohort study. These workers were asked to have a serum sample drawn for histoplasmosis testing and were found to have no serologic evidence of recent Histoplasma capsulatum infection.

Of 979 plant workers, 724 (74%) completed the cohort questionnaire; 108 (16%) had symptoms consistent with the clinical case definition. The most commonly reported symptoms were headache (93%), cough (77%), and shortness of breath (44%). No workers were hospitalized. Symptomatic workers (clinical cases) were as likely as asymptomatic workers (nonclinical cases) to report working outside, seeing bird droppings, and performing grounds work. Symptomatic workers were more likely to have worked in building complex X (the complex in closest proximity to the spoil pile) than asymptomatic workers (44 [41%] versus 141 [23%]; risk ratio = 2.0; p<0.001). Building complex X was not located in an area known to be heavily contaminated with bird droppings.

Of the 108 symptomatic workers, 90 (83%) had sera available for testing; 25 (28%) had laboratory-confirmed histoplasmosis. Analysis of 22 workers with laboratory-confirmed histoplasmosis with specified dates of symptom onset indicated a cluster of cases during mid-January (Figure). Workers with laboratory-confirmed histoplasmosis were further categorized as clustered cases (n = 18) (symptom onset during January 7–25) and outlying cases (all others, n = four). For the case-control study, the 22 workers with laboratory-confirmed histoplasmosis were compared with 31 unmatched controls. Workers categorized as clustered cases were more likely to have worked in building complex X than controls (12 [67%] versus eight [26%]; odds ratio [OR] = 5.8; 95% confidence interval [CI] = 1.6–20.4); no specific activities, dates reporting to work, or relative amount of outside activity

FIGURE. Number* of laboratory-confirmed cases of histoplasmosis among plant A workers, by date of symptom onset — Nebraska, January 7–February 25, 2004



* n = 22.

during days of any reported soil disruptions (i.e., December 30, January 2, and January 15) were associated with increased risk for acquiring histoplasmosis. In contrast, workers categorized as outlying cases were as likely to work in building complex X as controls (one [25%] versus eight [26%]; OR = 1.0; p = 1.0); no specific occupation was associated with workers with outlying case status.

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Editorial Note: The findings in this report confirm that an outbreak of occupationally acquired histoplasmosis occurred among at least 25 workers from plant A in January 2004. Histoplasmosis usually is an acute, self-limited respiratory illness with an incubation period of 1-2 weeks after inhalation of H. capsulatum spores (1). Previous occupation-related outbreaks of histoplasmosis occurred among workers in a paper factory and courthouse and among bridge workers (2–4), in which disruption of bird or bat droppings, known sources of transmission for H. capsulatum spores, had occurred. As in previous outbreaks, this investigation identified cases clustered in time and location. The majority of patients reported illness onset in mid-January, suggesting a point-source exposure in early January. In addition, workers with laboratory-confirmed infection and onset of illness in mid-January were more likely to work at building complex X than controls, supporting the hypothesis of a common source of exposure.

The likely source of this outbreak was the disruption of the spoil pile from the 2003 outbreak. The spoil pile was known to be contaminated with *H. capsulatum*; the workers closest in proximity to it worked at building complex X, and the timing until symptom onset for workers categorized as clustered cases was consistent with histoplasmosis. However, implication of the spoil pile as the source of the outbreak was surprising for several reasons. First, building complex X was approximately 950 feet from the spoil pile. Second, appropriate precautions were taken during removal of the spoil pile (e.g., limiting the number of workers in the area, using appropriate personal protective equipment [PPE], soaking the spoil pile with water before manipulation, and using both a plastic liner and a tarp to cover the soil once it was transferred to a dumpster).

Onset of illness after the mid-January period indicates that some illness might not be associated with the point-source exposure at the plant, but rather might reflect ongoing low-level exposure to *H. capsulatum* either through other work-related or nonwork-related activities. Further investigation will be necessary to identify all activities placing workers at increased risk for disease.

This outbreak underscores the highly infectious nature of H. capsulatum spores and the need to protect workers when engaging in work-related activities involving exposure to H. capsulatum. In particular, these data suggest that manipulation of soil known to be contaminated with H. capsulatum can pose a risk to persons who are not engaged in the activity directly but who might be hundreds of feet away. In addition to following CDC guidelines for the prevention of histoplasmosis among workers (5), the recommendations given to prevent further outbreaks of histoplasmosis at this site included assigning job activities according to three levels of risk: higher, lower, and minimal/no risk. Activities identified as higher risk include those involved in disturbing soil obviously contaminated with bird droppings or in disturbing accumulations of bird droppings. The level of PPE required for these activities includes the use of disposable coveralls such as Tyvek[®], rubber boots over normal work shoes, and a respirator providing a higher level of protection, such as a powered air-purifying respirator with high-efficiency particulate air (HEPA) filters or a full-facepiece respirator with HEPA filter. For lower-risk activities (e.g., those disturbing soil that has not been contaminated by bird droppings or during the changing of air filters from buildings or equipment), the level of PPE might be decreased to a NIOSH-certified N-95 filtering facepiece respirator. For activities designated as minimal risk (e.g., those in which no soil or bird droppings are disturbed), no respiratory protection is required, but N-95 filtering facepiece respirators should be available on a voluntary-use basis.

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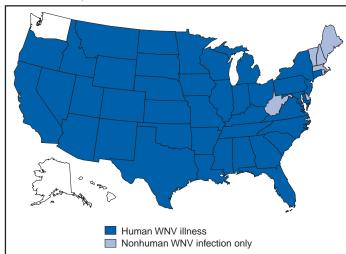
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West Nile Virus Activity — United States, October 27– November 2, 2004

During October 27–November 2, a total of 10 cases of human West Nile virus (WNV) illness were reported from eight states (Arizona, Georgia, Iowa, Michigan, New Mexico, Ohio, Oklahoma, and Pennsylvania).

During 2004, 40 states and the District of Columbia (DC) have reported 2,241 cases of human WNV illness to CDC through ArboNET (Figure and Table). Of these, 710 (32%) cases were reported in California, 381 (17%) in Arizona, and 276 (12%) in Colorado. A total of 1,295 (59%) of the 2,211 cases for which such data were available occurred in males; the median age of patients was 52 years (range: 1 month—

FIGURE. Areas reporting West Nile virus (WNV) activity — United States, 2004*



^{*} As of 3 a.m., Mountain Standard Time, November 2, 2004.

TABLE. Number of human cases of West Nile virus (WNV) illness, by area — United States, 2004*

| | <u> </u> | | -, | | |
|--------------------|----------|--------|--------------------------|----------|--------|
| | Neuro- | West | Other | Total | |
| | invasive | Nile | clinical/ | reported | |
| Area | disease† | fever§ | unspecified [¶] | to CDC** | Deaths |
| Alabama | 13 | 0 | 0 | 13 | 0 |
| Arizona | 128 | 70 | 183 | 381 | 10 |
| Arkansas | 12 | 9 | 1 | 22 | 0 |
| California | 143 | 248 | 319 | 710 | 20 |
| Colorado | 39 | 237 | 0 | 276 | 3 |
| Connecticut | 0 | 1 | 0 | 1 | 0 |
| District of Columb | bia 1 | 0 | 0 | 1 | 0 |
| Florida | 29 | 8 | 0 | 37 | 2 |
| Georgia | 11 | 6 | 0 | 17 | 0 |
| Idaho | 0 | 0 | 2 | 2 | 0 |
| Illinois | 28 | 27 | 1 | 56 | 2 |
| Indiana | 5 | 0 | 2 | 7 | 1 |
| Iowa | 11 | 7 | 4 | 22 | 2 |
| Kansas | 18 | 25 | 0 | 43 | 2 |
| Kentucky | 1 | 6 | 0 | 7 | 0 |
| Louisiana | 68 | 17 | 0 | 85 | 7 |
| Maryland | 6 | 5 | 1 | 12 | 0 |
| Michigan | 10 | 1 | 0 | 11 | 0 |
| Minnesota | 13 | 20 | 0 | 33 | 2 |
| Mississippi | 23 | 5 | 2 | 30 | 3 |
| Missouri | 25 | 9 | 2 | 36 | 1 |
| Montana | 2 | 3 | 1 | 6 | 0 |
| Nebraska | 4 | 26 | 0 | 30 | 0 |
| Nevada | 25 | 19 | 0 | 44 | 0 |
| New Jersey | 1 | 0 | 0 | 1 | 0 |
| New Mexico | 29 | 49 | 4 | 82 | 4 |
| New York | 3 | 3 | 0 | 6 | 0 |
| North Carolina | 3 | 0 | 0 | 3 | 0 |
| North Dakota | 2 | 18 | 0 | 20 | 1 |
| Ohio | 11 | 1 | 0 | 12 | 2 |
| Oklahoma | 10 | 6 | 0 | 16 | 1 |
| Oregon | 0 | 1 | 0 | 1 | 0 |
| Pennsylvania | 8 | 3 | 1 | 12 | 2 |
| South Carolina | 0 | 1 | 0 | 1 | 0 |
| South Dakota | 6 | 45 | 0 | 51 | 1 |
| Tennessee | 9 | 1 | 0 | 10 | 0 |
| Texas | 83 | 26 | 0 | 109 | 8 |
| Utah | 6 | 5 | 0 | 11 | 0 |
| Virginia | 4 | 0 | 1 | 5 | 1 |
| Wisconsin | 4 | 6 | 0 | 10 | 1 |
| Wyoming | 2 | 5 | 2 | 9 | 0 |
| Total | 796 | 919 | 526 | 2,241 | 76 |

^{*} As of November 2, 2004.

99 years). Date of illness onset ranged from April 23 to October 21; a total of 76 cases were fatal.

A total of 199 presumptive West Nile viremic blood donors (PVDs) have been reported to ArboNET in 2004. Of these, 73 (37%) were reported in California; 38 (19%) in Arizona; 16 in Texas; 15 in New Mexico; seven in Colorado; six each in Louisiana and Oklahoma; five in Nevada; four in Georgia

and Iowa; three each in Florida, Michigan, and South Dakota; two each in Minnesota, Mississippi, Missouri, and Wisconsin; and one each in Delaware, Kentucky, Nebraska, New Jersey, New York, North Dakota, Oregon, and Pennsylvania. Of the 199 PVDs, three persons aged 35, 69, and 77 years subsequently had neuroinvasive illness, and 46 persons (median age: 52 years; range: 17–73 years) subsequently had West Nile fever.

In addition, 5,441 dead corvids and 1,328 other dead birds with WNV infection have been reported from 45 states and New York City during 2004. WNV infections have been reported in horses in 37 states; one bat in Wisconsin; nine dogs in Nevada, New Mexico, and Wisconsin; six squirrels in Arizona and Wyoming; and 14 unidentified animal species in nine states (Arizona, Idaho, Illinois, Iowa, Kentucky, Missouri, Nevada, New York, and South Carolina). WNV seroconversions have been reported in 1,345 sentinel chicken flocks in 13 states (Alabama, Arizona, Arkansas, California, Delaware, Florida, Iowa, Louisiana, Nebraska, Nevada, Pennsylvania, South Dakota, and Utah) and in 25 wild hatchling birds in Missouri and Ohio. Four seropositive sentinel horses were reported in Minnesota and Puerto Rico. A total of 7,558 WNV-positive mosquito pools have been reported in 38 states, DC, and New York City.

Additional information about national WNV activity is available from CDC at http://www.cdc.gov/ncidod/dvbid/westnile/index.htm and at http://westnilemaps.usgs.gov.

Notice to Readers

National Epilepsy Awareness Month — November 2004

November is National Epilepsy Awareness Month. Epilepsy affects approximately 2.5 million persons in the United States and is characterized by unprovoked seizures. Persons with epilepsy often face physical and cognitive side effects of both seizures and treatment, social stigma, lost productivity, and decreased quality of life. The impact on children is especially burdensome as they transition from childhood to adulthood. Outside the medical community, epilepsy is a poorly understood condition, even among families and friends of affected persons.

To improve social acceptance and understanding of this disorder and to increase support for those with it, the Epilepsy Foundation (EF), in partnership with CDC, is enhancing its Entitled to Respect campaign. During November, the campaign will expand last year's focus on educating black youth, an underserved segment of the community, by providing outreach to black women of childbearing age and by building

[†] Cases with neurologic manifestations (i.e., West Nile meningitis, West Nile encephalitis, and West Nile myelitis).

[§] Cases with no evidence of neuroinvasion.

[¶] Illnesses for which sufficient clinical information was not provided.

^{**} Total number of human cases of WNV illness reported to ArboNet by state and local health departments.

new partnerships and improving services to affected children, adults, and families in the black community. Additional information about epilepsy and the campaign is available from EF, telephone 800-332-1000 or at http://www.epilepsy foundation.org.

Notice to Readers

Annual Health Information and Technology Week

November 7–13, 2004, is Annual Health Information and Technology Week. During this week, approximately 44,000

students and professionals will celebrate Health Information Management (HIM) professions, which include quality-assurance managers to information-security officers in settings from managed care organizations to home health agencies in both the private and public sectors. The American Health Information Management Association represents the community of professionals engaged in HIM. This year's theme, Health Information: Powered by Professionals, reflects the work performed by HIM professions in obtaining a more secure and electronic health information environment.



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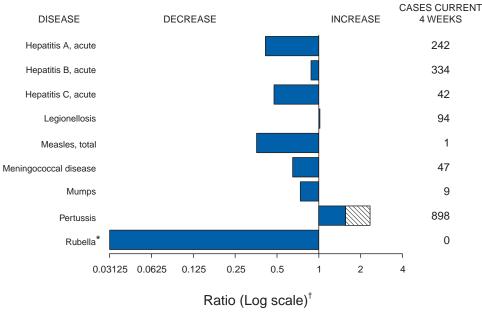
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FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals October 30, 2004, with historical data



Beyond historical limits

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending October 30, 2004 (43rd Week)*

| | Cum. 2004 | Cum. 2003 | | Cum. 2004 | Cum. 2003 |
|---|--------------|--------------|---|------------------|------------------|
| Anthrax | - | - | HIV infection, pediatric ^{†¶} | 126 | 169 |
| Botulism: | - | - | Influenza-associated pediatric mortality** | - | NA |
| foodborne | 11 | 11 | Measles, total | 23 ^{††} | 51 ^{§§} |
| infant | 60 | 56 | Mumps | 162 | 177 |
| other (wound & unspecified) | 9 | 26 | Plague | 1 | 1 |
| Brucellosis† | 85 | 82 | Poliomyelitis, paralytic | - | - |
| Chancroid | 30 | 50 | Psittacosis [†] | 9 | 11 |
| Cholera | 4 | 1 | Q fever [†] | 60 | 56 |
| Cyclosporiasis [†] | 203 | 61 | Rabies, human | 3 | 2 |
| Diphtheria | - | 1 | Rubella | 10 | 7 |
| Ehrlichiosis: | - | - | Rubella, congenital syndrome | - | 1 |
| human granulocytic (HGE)† | 259 | 273 | SARS-associated coronavirus disease† ** | - | 8 |
| human monocytic (HME)† | 237 | 221 | Smallpox [†] ¶ | - | NA |
| human, other and unspecified | 27 | 38 | Staphylococcus aureus: | - | - |
| Encephalitis/Meningitis: | - | - | Vancomycin-intermediate (VISA)† ¶ | - | NA |
| California serogroup viral†§ | 74 | 106 | Vancomycin-resistant (VRSA)† ¶ | 1 | NA |
| eastern equine ^{† §} | 3 | 13 | Streptococcal toxic-shock syndrome [†] | 89 | 136 |
| Powassan ^{† §} | - | - | Tetanus | 14 | 16 |
| St. Louis [†] § | 7 | 40 | Toxic-shock syndrome | 106 | 103 |
| western equine ^{† §} | - | - | Trichinosis | 4 | 1 |
| Hansen disease (leprosy)† | 69 | 68 | Tularemia [†] | 74 | 74 |
| Hantavirus pulmonary syndrome† | 17 | 18 | Yellow fever | - | - |
| Hemolytic uremic syndrome, postdiarrheal† | 119 | 141 | | | |

^{-:} No reported cases.

^{*} No rubella cases were reported for the current 4-week period yielding a ratio for week 43 of zero (0).
† Ratio of current 4-week total to mean of 15 4-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.

Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

Not notifiable in all states.

Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update September 26, 2004.

Lipdated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases.

^{††} Of 23 cases reported, 10 were indigenous, and 13 were imported from another country.

^{§§} Of 51 cases reported, 31 were indigenous, and 20 were imported from another country.

Not previously notifiable.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending October 30, 2004, and October 25, 2003 (43rd Week)*

| | AID | s | Chlam | nydia [†] | Coccidio | lomycosis | Cryptosp | oridiosis | Encephalitis/Meningitis West Nile§ | |
|-----------------------|---------------------------|----------------|-------------------|--------------------|--------------|--------------|--------------|--------------|---------------------------------------|--------------|
| Reporting area | Cum. 2004 [¶] | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 |
| UNITED STATES | 31,120 | 35,017 | 722,358 | 710,785 | 4,924 | 3,078 | 2,770 | 2,853 | 794 | 2,831 |
| NEW ENGLAND | 981 | 1,201 | 24,825 | 22,757 | - | - | 154 | 164 | - | 29 |
| Maine | 15 37 | 49 | 1,719 | 1,640 | N | N | 18 29 | 18 | - | - |
| N.H. √t. | 37 14 | 34 15 | 1,450 852 | 1,300 888 | - | - | 29 | 18 29 | - | 2 |
| Mass. | 343 | 517 | 11,052 | 9,008 | - | - | 54 | 72 | - | 12 |
| R.I. Conn. | 109 463 | 82 504 | 2,790 6,962 | 2,419 7,502 | N | N | 4 27 | 12 15 | - | 5 10 |
| MID. ATLANTIC | 6,925 | 8,345 | 86,773 | 88,195 | | | 441 | 361 | 12 | 220 |
| Jpstate N.Y. | 724 | 745 | 18,142 | 16,378 | N | N | 151 | 107 | 1 | - |
| N.Y. City | 3,949 | 4,488 | 26,412 | 28,552 | - | - | 85 25 | 104 | 2 | 56 |
| N.J. Pa. | 1,140 1,112 | 1,291 1,821 | 12,475 29,744 | 13,061 30,204 | N | N | 25 180 | 14 136 | 1 8 | 21 143 |
| E.N. CENTRAL | 2,742 | 3,208 | 123,808 | 130,323 | 15 | 7 | 795 | 857 | 57 | 150 |
| Ohio | 525 | 641 | 30,828 | 35,970 | N | N | 200 | 128 | 11 | 84 |
| nd. II. | 300 1,290 | 431 1,472 | 14,935 32,970 | 14,184 39,621 | N | N - | 80 69 | 77 86 | 5 28 | 15 30 |
| Mich. | 493 | 511 | 31,119 | 26,148 | 15 | 7 | 137 | 116 | 9 | 14 |
| Nis. | 134 | 153 | 13,956 | 14,400 | - | - | 309 | 450 | 4 | 7 |
| W.N. CENTRAL Minn. | 641 152 | 632 123 | 44,669 8,123 | 41,201 8,878 | 5 N | 2 N | 335 115 | 502 129 | 79 13 | 695 48 |
| owa | 50 | 67 | 5,293 | 4,185 | N | N | 73 | 110 | 11 | 80 |
| Mo. | 277 | 305 | 17,427 | 15,036 | 3 | 1 | 56 | 41 | 25 | 39 |
| N. Dak. S. Dak. | 14 8 | 3 8 | 1,229 2,136 | 1,292 2,126 | N | N - | 10 33 | 11 36 | 2 6 | 94 151 |
| Nebr.** | 41 | 42 | 4,260 | 3,842 | 2 | 1 | 23 | 21 | 4 | 194 |
| Kans. | 99 | 84 | 6,201 | 5,842 | N | N | 25 | 154 | 18 | 89 |
| S. ATLANTIC | 9,492 | 9,954 | 143,838 | 133,512 | - N | 5 N | 465 | 313 | 54 | 182 |
| Del. Md. | 121 1,252 | 191 1,271 | 2,436 15,744 | 2,483 13,399 | N - | N 5 | 15 | 4 20 | 6 | 12 48 |
| D.C. | 621 | 811 | 2,732 | 2,602 | - | - | 12 | 11 | 1 | 3 |
| Va. W. Va. | 513 67 | 789 71 | 18,554 2,314 | 15,874 2,154 | N | - N | 55 5 | 38 4 | 4 | 19 1 |
| N.C. | 482 | 887 | 24,286 | 21,168 | N | Ň | 70 | 43 | 3 | 16 |
| S.C.** | 535 | 664 | 17,050 | 12,002 | - | - | 15 | 8 | - | 2 |
| Ga. Fla. | 1,327 4,574 | 1,502 3,768 | 26,394 34,328 | 29,277 34,553 | N | N | 178 115 | 99 86 | 11 29 | 24 57 |
| E.S. CENTRAL | 1,528 | 1,630 | 46,039 | 45,897 | 4 | 1 | 109 | 115 | 46 | 89 |
| Ky. | 187 | 141 | 4,728 | 6,727 | N | N | 39 | 21 | 1 | 11 |
| Ténn.** Ala. | 617 360 | 700 389 | 18,220 9,382 | 16,905 11,964 | N - | N | 29 20 | 37 47 | 9 13 | 21 25 |
| Miss. | 364 | 400 | 13,709 | 10,301 | 4 | 1 | 21 | 10 | 23 | 32 |
| W.S. CENTRAL | 3,581 | 3,463 | 88,435 | 86,866 | 2 | - | 66 | 97 | 172 | 593 |
| Ark. La. | 174 719 | 163 519 | 5,964 18,539 | 6,539 16,280 | 1 1 | - | 14 3 | 17 4 | 12 68 | 23 89 |
| La. Okla. | 154 | 177 | 9,116 | 9,448 | N | N | 20 | 13 | 9 | 56 |
| Гех.** | 2,534 | 2,604 | 54,816 | 54,599 | N | N | 29 | 63 | 83 | 425 |
| MOUNTAIN | 1,178 | 1,272 | 39,926 | 40,164 | 3,174 | 1,939 | 143 | 119 | 231 | 871 |
| Mont. daho | 6 15 | 11 21 | 1,946 2,277 | 1,590 2,057 | N N | N N | 34 24 | 18 26 | 2 | 75 - |
| Vyo. | 16 | 5 | 876 | 809 | 2 | 1 | 3 | 4 | 2 | 92 |
| Colo. N. Mex. | 257 152 | 327 96 | 9,779 4,333 | 10,736 6,160 | N 20 | N 9 | 48 11 | 32 10 | 39 29 | 621 74 |
| Ariz. | 437 | 535 | 13,330 | 11,056 | 3,067 | 1,889 | 17 | 5 | 128 | 74 |
| Jtah | 53 | 52 | 3,002 | 3,083 | 33 | 8 | 4 2 | 17 7 | 6 | 2 |
| Nev. PACIFIC | 242 | 225 5 312 | 4,383 | 4,673 | 52 1 724 | 32 1 124 | | | 25 143 | |
| Vash. | 4,052 313 | 5,312 365 | 124,045 14,555 | 121,870 13,531 | 1,724 N | 1,124 N | 262 36 | 325 43 | 143 | 2 |
| Oreg. | 239 | 202 | 6,974 | 6,117 | - | - | 30 | 36 | - | - |
| Calif. Alaska | 3,357 39 | 4,642 15 | 95,226 3,056 | 94,610 3,141 | 1,724 | 1,124 | 194 | 245 1 | 143 | 2 |
| Hawaii | 104 | 88 | 4,234 | 4,471 | - | - | 2 | - | - | - |
| Guam | 2 | 5 | - | 517 | - | - | | - | - | - |
| P.R. V.I. | 595 10 | 851 29 | 2,701 272 | 2,182 348 | N | N | N | N | - | - |
| v.r. Amer. Samoa | U | U | U | U | Ū | Ū | Ū | Ū | Ū | Ū |
| C.N.M.I. | 2 | U | 32 | U | - | U | - | U | - | U |

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

† Chlamydia refers to genital infections caused by *C. trachomatis*.

§ Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

† Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update September 26, 2004.

** Contains data reported through National Electronic Disease Surveillance System (NEDSS)

^{**} Contains data reported through National Electronic Disease Surveillance System (NEDSS).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 30, 2004, and October 25, 2003 (43rd Week)*

| (43rd Week)* | | Fscheri | chia coli Ente | rohemorrhagio | (FHFC) | | | | | |
|---------------------------|--------------|--------------|----------------|---------------|--------------|--------------|--------------|--------------|------------------|------------------|
| | | 20011011 | | n positive, | Shiga toxi | n positive, | | | | |
| | 015 | 7:H7 | serogroup | non-O157 | not sero | grouped | Giard | liasis | Gone | orrhea |
| Reporting area | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 |
| UNITED STATES | 2,009 | 2,147 | 219 | 204 | 142 | 135 | 14,660 | 15,642 | 256,824 | 271,927 |
| NEW ENGLAND | 135 | 132 | 44 | 36 | 17 | 12 | 1,452 | 1,295 | 5,790 | 5,946 |
| Maine | 10 | 10 | - | 1 | - | - | 112 | 155 | 184 | 162 |
| N.H. Vt. | 18 11 | 17 15 | 5 - | 3 | - | - | 37 147 | 32 106 | 107 73 | 101 71 |
| Mass. | 56 | 57 | 13 | 8 | 17 | 12 | 620 | 657 | 2,610 | 2,357 |
| R.I. Conn. | 9 31 | 1 32 | 1 25 | 24 | - | - | 107 429 | 90 255 | 700 2,116 | 800 2,455 |
| MID. ATLANTIC | 235 | 217 | 46 | 21 | 28 | 33 | 3,052 | 3,109 | 27,943 | 33,885 |
| Upstate N.Y. N.Y. City | 106 32 | 79 7 | 33 | 10 | 13 | 17 | 1,089 799 | 848 1,011 | 5,917 8,421 | 6,371 11,191 |
| N.J. | 35 | 29 | 4 | 2 | 5 | - | 312 | 419 | 4,881 | 6,676 |
| Pa. | 62 | 102 | 9 | 9 | 10 | 16 | 852 | 831 | 8,724 | 9,647 |
| E.N. CENTRAL Ohio | 360 85 | 483 95 | 35 10 | 29 15 | 24 18 | 17 17 | 2,013 689 | 2,712 751 | 52,498 15,922 | 58,303 18,979 |
| Ind. | 51 | 70 | - | - | - | - | - | - 704 | 5,487 | 5,515 |
| III. Mich. | 49 75 | 111 77 | 1 7 | 2 | 1 5 | - | 338 605 | 794 641 | 14,383 13,124 | 17,845 11,322 |
| Wis. | 100 | 130 | 17 | 12 | - | - | 381 | 526 | 3,582 | 4,642 |
| W.N. CENTRAL | 432 | 390 | 27 | 46 | 16 | 20 | 1,670 | 1,675 | 14,181 | 14,398 |
| Minn. Iowa | 106 117 | 119 90 | 15 | 20 | 1 - | 1 - | 626 249 | 599 231 | 2,479 938 | 2,508 1,035 |
| Mo. | 67 | 73 | 11 | 13 | 7 | 1 | 420 | 429 | 7,470 | 7,191 |
| N. Dak. S. Dak. | 14 31 | 10 25 | - | 4 4 | 6 | 8 - | 20 50 | 32 69 | 87 239 | 75 182 |
| Nebr. | 60 | 43 | 1 | 5 | - | - | 117 | 124 | 861 | 1,284 |
| Kans. | 37 | 30 | - | - | 2 | 10 | 188 | 191 | 2,107 | 2,123 |
| S. ATLANTIC Del. | 148 2 | 126 8 | 37 N | 38 N | 46 N | 37 N | 2,352 39 | 2,236 39 | 65,219 742 | 66,495 951 |
| Md. | 20 | 12 | 4 | 3 | 3 | 1 | 100 | 97 | 6,755 | 6,390 |
| D.C. Va. | 1 35 | 1 33 | 16 | - 11 | - | - | 57 449 | 41 287 | 2,061 7,406 | 2,052 7,404 |
| W. Va. | 2 | 4 | - | - | - | - | 32 | 35 | 769 | 723 |
| N.C. S.C. | 7 | 2 | - | - | 32 | 29 | N 51 | N 123 | 12,778 8,343 | 12,123 7,052 |
| Ga. | 22 | 25 | 11 | 5 | - | - | 691 | 726 | 11,614 | 14,504 |
| Fla. | 59 | 41 | 6 | 19 | 11 | 7 | 933 | 888 | 14,751 | 15,296 |
| E.S. CENTRAL Ky. | 77 24 | 74 24 | 4 2 | 2 2 | 9 6 | 6 6 | 325 N | 328 N | 20,065 2,156 | 22,991 3,002 |
| Tenn. | 31 | 32 | 2 | - | 3 | - | 159 | 150 | 6,887 | 7,013 |
| Ala. Miss. | 15 7 | 14 4 | - | - | - | - | 166 | 178 - | 5,743 5,279 | 7,662 5,314 |
| W.S. CENTRAL | 65 | 78 | 2 | 4 | 2 | 4 | 265 | 252 | 34,267 | 35,950 |
| Ark. | 14 | 9 | 1 | - | - | - | 103 | 128 | 2,995 | 3,473 |
| La. Okla. | 3 17 | 3 25 | - | - | - | - | 37 125 | 10 114 | 8,710 3,879 | 9,382 3,893 |
| Tex. | 31 | 41 | 1 | 4 | 2 | 4 | N | N | 18,683 | 19,202 |
| MOUNTAIN Mont. | 211 16 | 269 16 | 23 | 24 | - | 6 | 1,272 68 | 1,322 94 | 8,660 58 | 8,621 87 |
| Idaho | 46 | 68 | 15 | 15 | - | - | 163 | 167 | 79 | 61 |
| Wyo. Colo. | 8 44 | 2 61 | 1 2 | 4 | - | 6 | 21 437 | 20 383 | 54 2,168 | 36 2,384 |
| N. Mex. | 9 | 10 | 2 | 4 | - | - | 59 | 43 | 603 | 987 |
| Ariz. Utah | 21 46 | 29 60 | N 2 | N | N | N | 143 279 | 203 292 | 3,233 467 | 3,045 321 |
| Nev. | 21 | 23 | 1 | 1 | - | - | 102 | 120 | 1,998 | 1,700 |
| PACIFIC | 346 | 378 | 1 | 4 | - | - | 2,259 | 2,713 | 28,201 | 25,338 |
| Wash. Oreg. | 127 60 | 97 95 | - 1 | 1 3 | - | - | 317 372 | 311 356 | 2,240 1,042 | 2,246 825 |
| Calif. | 148 | 175 | - | - | - | - | 1,431 | 1,899 | 23,468 | 20,823 |
| Alaska Hawaii | 1 10 | 4 7 | - | - | - | - | 73 66 | 76 71 | 449 1,002 | 450 994 |
| Guam | N | , N | _ | _ | _ | - | - | 2 | - 1,002 | 55 |
| P.R. | - | 1 | - | - | - | - | 103 | 234 | 202 | 234 |
| V.I. Amer. Samoa | U | - U | Ū | U | - U | U | Ū | U | 80 U | 77 U |
| C.N.M.I. | - | Ŭ | - | Ŭ | - | Ŭ | - | Ŭ | 3 | Ŭ |
| | | | | | | | | | | |

N: Not notifiable. U: Unavailable. - : No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending October 30, 2004, and October 25, 2003 (43rd Week)*

| (43rd Week)* | | | | Haemonhilus | influenzae, inv | /asive | | | Hen | atitis |
|-------------------------------|-----------------|--------------|--------------|--------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| | Alla | ages | | | | 5 years | | | → | te), by type |
| | | otypes | Serot | ype b | | rotype b | Unknown | serotype | | Α |
| Reporting area | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 |
| UNITED STATES | 1,507 | 1,546 | 12 | 24 | 89 | 95 | 145 | 168 | 4,522 | 5,717 |
| NEW ENGLAND | 128 | 115 | 1 | 2 | 5 | 5 | 3 | 3 | 849 | 268 |
| Maine N.H. | 12 16 | 4 12 | - | - 1 | 2 | - | - | 1 | 11 20 | 11 15 |
| Vt. | 6 | 8 | - | - | - | - | 1 | - | 8 | 6 |
| Mass. R.I. | 51 3 | 54 6 | 1 - | 1 - | - | 5 | 2 | 1 1 | 728 21 | 151 12 |
| Conn. | 40 | 31 | - | - | 3 | - | - | - | 61 | 73 |
| MID. ATLANTIC Upstate N.Y. | 310 100 | 328 119 | - | 2 2 | 4 4 | 3 | 33 5 | 41 8 | 530 86 | 1,087 109 |
| N.Y. City | 62 | 57 | - | - | - | - | 12 | 11 | 207 | 383 |
| N.J. Pa. | 63 85 | 60 92 | - | - | - | - | 3 13 | 9 13 | 104 133 | 182 413 |
| E.N. CENTRAL | 226 | 260 | - | 3 | 6 | 4 | 35 | 46 | 456 | 533 |
| Ohio Ind. | 86 41 | 62 41 | - | - | 2 | - | 15 1 | 11 | 40 | 99 54 |
| III. | 50 | 94 | - | - | - | - | 11 | 5 20 | 88 158 | 161 |
| Mich. Wis. | 18 31 | 21 42 | - | 3 | - | 4 | 6 2 | 1 9 | 129 41 | 176 43 |
| W.N. CENTRAL | 88 | 96 | 2 | 2 | 3 | 7 | 10 | 12 | 148 | 147 |
| Minn. | 40 | 40 | 1 | 2 | 3 | 7 | 1 | 2 | 32 | 37 |
| Iowa Mo. | 1 28 | 36 | 1 - | - | - | - | 6 | 9 | 43 37 | 25 47 |
| N. Dak. S. Dak. | 4 | 2 1 | - | - | - | - | - | - | 1 3 | 1 - |
| Nebr. | 8 | 2 | - | - | - | - | 1 | | 10 | 12 |
| Kans. | 7 | 15 | - | - | - | - | 2 | 1 | 22 | 25 |
| S. ATLANTIC Del. | 380 | 339 | 1 - | 2 | 21 | 14 | 29 | 19 - | 903 5 | 1,461 8 |
| Md. D.C. | 51 | 79 1 | - | 1 | 4 | 6 | - | 1 | 94 7 | 151 33 |
| Va. | 35 | 45 | - | - | - | - | 1 | 5 | 115 | 85 |
| W. Va. N.C. | 15 52 | 14 36 | - 1 | - | 1 6 | 3 | 3 1 | 2 | 6 94 | 13 81 |
| S.C. | 4 | 6 | - | - | - | - | - | 2 | 24 | 35 |
| Ga. Fla. | 124 99 | 62 96 | - | 1 | 10 | 5 | 22 2 | 6 3 | 316 242 | 696 359 |
| E.S. CENTRAL | 59 | 71 | 1 | 1 | - | 3 | 8 | 8 | 140 | 242 |
| Ky. Tenn. | 5 38 | 6 42 | - | - | - | 2 1 | 6 | 5 | 29 80 | 28 176 |
| Ala. | 13 | 21 | 1 | 1 | - | - | 2 | 3 | 8 | 23 |
| Miss. W.S. CENTRAL | 3 62 | 2 70 | - 1 | 2 | 7 | - 10 | 2 | 4 | 23 308 | 15 548 |
| Ark. | 3 | 6 | - | - | - | 1 | 1 | - | 56 | 27 |
| La. Okla. | 11 47 | 20 41 | - | - | 7 | 2 7 | 1 | 4 | 44 19 | 39 17 |
| Tex. | 1 | 3 | 1 | 2 | - | - | - | - | 189 | 465 |
| MOUNTAIN | 167 | 139 | 4 | 6 | 25 | 22 | 18 | 16 | 388 | 402 |
| Mont. Idaho | 5 | 4 | - | - | - | - | 2 | 1 | 6 19 | 8 13 |
| Wyo. Colo. | 1 41 | 1 32 | - | - | 1 | - | - 5 | 6 | 5 46 | 1 59 |
| N. Mex. | 34 | 16 | 1 | - | 7 | 4 | 5 | 1 | 19 | 19 |
| Ariz. Utah | 61 13 | 64 12 | 2 | 6 | 12 2 | 9 5 | 2 3 | 4 4 | 235 46 | 223 34 |
| Nev. | 12 | 10 | 1 | - | 3 | 4 | 1 | - | 12 | 45 |
| PACIFIC Wash. | 87 3 | 128 11 | 2 2 | 4 | 18 | 27 7 | 7 1 | 19 3 | 800 53 | 1,029 54 |
| Oreg. | 39 | 33 | - | - - | - | - | 3 | 2 | 59 | 49 |
| Calif. Alaska | 33 4 | 55 18 | - | 4 | 18 | 20 | 1 | 9 5 | 662 5 | 906 8 |
| Hawaii | 8 | 11 | - | - | - | - | 1 | - | 21 | 12 |
| Guam | - | - 4 | - | - | - | - | - | - 4 | - 21 | 2 |
| P.R. V.I. | - | 1 - | - | - | - | - | - | 1 - | 21 - | 66 |
| Amer. Samoa C.N.M.I. | U | U U | U | U U | U - | U U | U | U U | U - | U U |
| N: Not notifiable. | U: Unavailable. | | orted cases. | | - | | - | | - | |

N: Not notifiable. U: Unavailable. -: No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 30, 2004, and October 25, 2003 (43rd Week)*

| (43rd Week)* | | | | | | | | | | |
|------------------------------|-------------------|----------------------|--------------------|--------------------|----------------------|----------------------|-----------------|-----------------|--------------------|-----------------------|
| | | epatitis (viral 3 | , acute), by ty | | Legio | nellosis | Lister | iosis | Lyme di | sease |
| Departing area | Cum. | Cum. | Cum. | Cum. | Cum. | Cum. | Cum. | Cum. | Cum. | Cum. |
| Reporting area UNITED STATES | 2004 5,224 | 2003 5,816 | 2004 714 | 2003 874 | 2004 1,506 | 2003 1,766 | 2004 520 | 2003 568 | 2004 14,726 | 2003 17,441 |
| NEW ENGLAND | 301 | 304 | 10 | 7 | 52 | 99 | 33 | 43 | 2,260 | 3,309 |
| Maine N.H. | 2 33 | 1 16 | - | - | 10 | 2 8 | 7 3 | 6 3 | 53 179 | 137 147 |
| Vt. | 5 5 | 4 | 5 | 7 | 5 | 5 | 2 | 1 | 45 | 40 |
| Mass. R.I. | 171 5 | 191 12 | 4 | - | 8 14 | 50 13 | 5 1 | 17 | 774 183 | 1,441 466 |
| Conn. | 85 | 80 | 1 | - | 15 | 21 | 15 | 16 | 1,026 | 1,078 |
| MID. ATLANTIC | 999 | 629 | 126 | 104 | 426 | 523 | 125 | 116 | 9,802 | 11,635 |
| Upstate N.Y. N.Y. City | 79 91 | 76 163 | 14 | 13 | 88 42 | 129 61 | 41 17 | 29 21 | 3,338 | 3,858 187 |
| N.J. | 582 | 153 | - | - 01 | 76 | 76 257 | 20 | 22 | 2,635 | 2,665 |
| Pa. E.N. CENTRAL | 247 463 | 237 433 | 112 99 | 91 127 | 220 405 | 257 362 | 47 84 | 44 74 | 3,829 790 | 4,925 862 |
| Ohio | 104 | 116 | 6 | 7 | 194 | 186 | 37 | 22 | 59 | 62 |
| Ind. III. | 38 71 | 33 52 | 7 12 | 8 18 | 66 20 | 25 41 | 16 5 | 6 19 | 16 1 | 20 67 |
| Mich. | 227 | 191 | 74 | 89 | 118 | 93 | 23 | 18 | 28 | 6 |
| Wis. | 23 | 41 | - | 5 | 7 | 17 | 3 | 9 | 686 | 707 |
| W.N. CENTRAL Minn. | 260 44 | 269 31 | 42 17 | 191 8 | 43 7 | 61 3 | 14 5 | 15 4 | 493 393 | 333 223 |
| Iowa Mo. | 13 154 | 10 185 | - 25 | 1 180 | 5 21 | 9 31 | 1 5 | 6 | 42 47 | 48 55 |
| N. Dak. | 4 | 2 | - | - | 2 | 1 | - | - | - | - |
| S. Dak. Nebr. | - 31 | 2 23 | - | 2 | 4 1 | 2 5 | 1 2 | 4 | 7 | 1 2 |
| Kans. | 14 | 16 | - | - | 3 | 10 | - | 1 | 4 | 4 |
| S. ATLANTIC Del. | 1,630 28 | 1,677 8 | 143 | 131 | 323 12 | 450 24 | 96 N | 113 N | 1,192 137 | 1,055 185 |
| Md. | 135 | 105 | 14 | 7 | 67 | 114 | 14 | 23 | 690 | 619 |
| D.C. Va. | 19 224 | 10 150 | 3 16 | 7 | 8 42 | 14 82 | - 16 | 1 9 | 8 149 | 8 81 |
| W. Va. | 34 | 27 | 21 | 3 | 8 | 16 | 3 | 6 | 22 | 20 |
| N.C. S.C. | 138 65 | 132 143 | 11 6 | 11 24 | 29 3 | 36 7 | 21 3 | 16 4 | 105 12 | 91 8 |
| Ga. Fla. | 572 | 568 | 17 55 | 13 66 | 39 | 32 125 | 16 | 28 | 13 | 10 |
| E.S. CENTRAL | 415 380 | 534 385 | 55 86 | 68 | 115 82 | 93 | 23 21 | 26 27 | 56 44 | 33 56 |
| Ky. | 59 | 57 | 23 | 13 | 35 | 37 | 4 | 7 | 15 | 13 |
| Tenn. Ala. | 173 62 | 169 80 | 35 4 | 15 5 | 33 11 | 32 19 | 10 5 | 8 10 | 17 3 | 15 8 |
| Miss. | 86 | 79 | 24 | 35 | 3 | 5 | 2 | 2 | 9 | 20 |
| W.S. CENTRAL Ark. | 251 65 | 928 71 | 105 2 | 143 3 | 56 | 63 2 | 26 2 | 46 1 | 34 8 | 88 |
| La. | 53 | 108 | 60 | 94 | 4 | 1 | 3 | 3 | 4 | 6 |
| Okla. Tex. | 47 86 | 50 699 | 3 40 | 2 44 | 5 47 | 7 53 | - 21 | 3 39 | 22 | - 82 |
| MOUNTAIN | 393 | 483 | 41 | 44 | 69 | 56 | 24 | 31 | 30 | 14 |
| Mont. | 2 | 14 | 2 | 2 | 2 7 | 4 | - 1 | 2 | - | - |
| Idaho Wyo. | 10 7 | 28 | 2 | - | 5 | 3 2 | 1 - | 2 | 6 3 | 3 2 |
| Colo. N. Mex. | 48 12 | 68 32 | 8 7 | 10 | 17 4 | 9 2 | 12 | 9 2 | 3 1 | - 1 |
| Ariz. | 208 | 220 | 5 | 7 | 11 | 10 | - | 10 | 6 | 3 |
| Utah Nev. | 41 65 | 41 73 | 4 13 | 24 | 19 4 | 20 6 | 3 8 | 2 4 | 11 - | 2 3 |
| PACIFIC | 547 | 708 | 62 | 59 | 50 | 59 | 97 | 103 | 81 | 89 |
| Wash. Oreg. | 45 98 | 63 94 | 19 14 | 17 12 | 10 N | 8 N | 9 5 | 7 4 | 13 30 | 3 14 |
| Calif. | 380 | 526 | 25 | 28 | 40 | 51 | 79 | 87 | 36 | 69 |
| Alaska Hawaii | 14 10 | 4 21 | 4 | 2 | - | - | 4 | - 5 | 2 N | 3 N |
| Guam | - | 9 | - | 5 | - | - | - | - | - | - |
| P.R. V.I. | 46 | 103 | - | - | 1 | - | - | - | N | N |
| Amer. Samoa | Ū | Ü | Ū | Ü | U | Ü | U | Ü | Ū | Ü |
| C.N.M.I. | | U | | U | - | U | - | U | - | U |

N: Not notifiable. U: Unavailable. -: No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 30, 2004, and October 25, 2003 (43rd Week)*

| (43rd Week)* | | | | | | | | | | | |
|-------------------------------|--------------|--------------|--------------|-----------------|----------------|--------------|--------------|--------------|---------------------------------|--------------|--|
| | Mal | laria | | ococcal ease | Pertu | ıssis | Rabies, | animal | Rocky Mountain spotted fever | | |
| Reporting area | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | |
| UNITED STATES | 1,039 | 1,102 | 1,059 | 1,371 | 11,871 | 7,329 | 4,727 | 5,893 | 1,228 | 746 | |
| NEW ENGLAND | 66 | 57 | 57 | 65 | 1,336 | 1,116 | 563 | 516 | 17 | 7 | |
| Maine N.H. | 6 5 | 2 6 | 9 5 | 6 3 | 2 69 | 12 82 | 39 25 | 61 23 | - | - | |
| Vt. | 4 | 2 | 2 | 3 | 62 | 60 | 33 244 | 30 | - | - | |
| Mass. R.I. | 33 4 | 27 2 | 32 2 | 40 2 | 1,160 31 | 892 16 | 32 | 181 61 | 14 1 | 7 | |
| Conn. | 14 | 18 | 7 | 11 | 12 | 54 | 190 | 160 | 2 | - | |
| MID. ATLANTIC Upstate N.Y. | 245 40 | 300 46 | 129 29 | 165 40 | 2,351 1,628 | 863 389 | 493 453 | 782 362 | 77 3 | 39 | |
| N.Y. City N.J. | 112 52 | 163 57 | 23 31 | 38 22 | 128 190 | 120 134 | 11 | 6 62 | 19 27 | 13 16 | |
| Pa. | 41 | 34 | 46 | 65 | 405 | 220 | 29 | 352 | 28 | 10 | |
| E.N. CENTRAL | 91 | 92 | 149 | 217 | 2,554 | 776 | 143 | 156 | 27 | 19 | |
| Ohio Ind. | 27 14 | 17 2 | 60 23 | 52 39 | 485 175 | 229 55 | 69 10 | 50 25 | 15 5 | 8 1 | |
| III. Mich. | 22 18 | 40 23 | 12 43 | 62 39 | 319 247 | 68 99 | 46 16 | 23 44 | 2 5 | 5 5 | |
| Wis. | 10 | 10 | 11 | 25 | 1,328 | 325 | 2 | 14 | - | - | |
| W.N. CENTRAL Minn. | 60 25 | 42 20 | 78 22 | 110 25 | 1,553 302 | 377 141 | 435 81 | 579 31 | 105 | 59 1 | |
| lowa | 4 | 5 | 15 | 23 | 132 | 117 | 95 | 95 | 1 | 2 | |
| Mo. N. Dak. | 17 3 | 5 1 | 18 2 | 43 1 | 251 693 | 69 6 | 51 53 | 39 50 | 88 | 47 - | |
| S. Dak. Nebr. | 1 3 | 2 | 2 4 | 1 6 | 30 40 | 3 8 | 10 53 | 120 92 | 4 12 | 5 3 | |
| Kans. | 7 | 9 | 15 | 11 | 105 | 33 | 92 | 152 | - | 1 | |
| S. ATLANTIC Del. | 284 6 | 273 2 | 196 4 | 235 8 | 561 8 | 536 7 | 1,664 9 | 2,288 43 | 627 4 | 442 1 | |
| Md. | 64 | 63 | 10 | 24 | 104 | 74 | 253 | 305 | 62 | 95 | |
| D.C. Va. | 11 43 | 13 33 | 4 17 | 5 23 | 3 170 | 2 87 | 410 | 449 | 30 | 1 28 | |
| W. Va. N.C. | 1 18 | 4 20 | 5 27 | 5 30 | 18 72 | 16 109 | 56 519 | 77 692 | 4 427 | 5 207 | |
| S.C. | 9 | 4 | 11 | 21 | 42 | 113 | 125 | 205 | 17 | 32 | |
| Ga. Fla. | 54 78 | 60 74 | 21 97 | 27 92 | 32 112 | 29 99 | 290 2 | 329 188 | 64 19 | 64 9 | |
| E.S. CENTRAL | 27 | 27 | 53 | 73 | 234 | 138 | 123 | 186 | 169 | 115 | |
| Ky. Tenn. | 4 7 | 8 5 | 9 15 | 16 19 | 57 135 | 44 63 | 20 36 | 33 97 | 2 89 | 1 62 | |
| Ala. Miss. | 11 5 | 7 7 | 14 15 | 20 18 | 28 14 | 18 13 | 56 11 | 55 1 | 44 34 | 21 31 | |
| W.S. CENTRAL | 90 | 113 | 97 | 152 | 653 | 640 | 953 | 1,015 | 176 | 56 | |
| Ark. La. | 7 4 | 4 4 | 15 33 | 13 37 | 63 10 | 43 10 | 45 | 25 2 | 98 5 | - | |
| Okla. | 7 | 4 | 9 | 14 | 33 | 72 | 95 | 175 | 71 | 42 | |
| Tex. MOUNTAIN | 72 40 | 101 37 | 40 57 | 88 70 | 547 1,246 | 515 807 | 813 196 | 813 165 | 2 25 | 14 8 | |
| Mont. | - | - - | 3 | 4 | 46 | 5 | 25 | 20 | 3 | 1 | |
| Idaho Wyo. | 1 - | 1 1 | 7 3 | 6 2 | 35 28 | 69 124 | 7 6 | 15 6 | 4 4 | 2 2 | |
| Colo. N. Mex. | 13 3 | 21 2 | 13 7 | 20 8 | 623 126 | 282 62 | 42 4 | 38 5 | 2 2 | 2 | |
| Ariz. | 11 | 7 | 12 | 21 | 194 | 118 | 101 | 62 | 2 | - | |
| Utah Nev. | 7 5 | 4 1 | 5 7 | 1 8 | 156 38 | 113 34 | 8 3 | 14 5 | 8 - | 1 - | |
| PACIFIC | 136 | 161 | 243 | 284 | 1,383 | 2,076 | 157 | 206 | 5 | 1 | |
| Wash. Oreg. | 16 16 | 23 9 | 29 52 | 29 50 | 613 340 | 633 402 | 6 | 6 | 3 | - | |
| Calif. Alaska | 100 1 | 122 1 | 153 3 | 186 7 | 399 10 | 981 50 | 143 8 | 191 9 | 2 | 1 - | |
| Hawaii | 3 | 6 | 6 | 12 | 21 | 10 | - | - | - | - | |
| Guam P.R. | - | 1 2 | - 5 | 9 | - 6 | 1 2 | - 52 | - 65 | - N | - N | |
| V.I. | - | - | - | - | - | - | - | - | - | - | |
| Amer. Samoa C.N.M.I. | U - | U U | U - | U U | U - | U U | U - | U U | U - | U U | |

N: Not notifiable. U: Unavailable. - : No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending October 30, 2004, and October 25, 2003 (43rd Week)*

| (43rd Week)* | , | | | | , | | | | | | | |
|---------------------------|----------------|----------------|--------------|--------------|--------------|---|---|---------------------------------------|--------------|--------------|--|--|
| | | | | | Strontogogg | al disease | Streptococcus pneumoniae, invasive Drug resistant, | | | | | |
| | Salmor | ellosis | Shige | llosis | | reptococcal disease, invasive, group A | | ges | Age < | 5 years | | |
| Reporting area | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | | |
| UNITED STATES | 32,961 | 35,911 | 9,802 | 19,348 | 3,814 | 4,761 | 1,797 | 1,658 | 567 | 572 | | |
| NEW ENGLAND | 1,743 | 1,802 | 248 | 284 | 156 | 408 | 26 | 85 | 60 | 8 | | |
| Maine N.H. | 79 123 | 114 127 | 4 8 | 6 7 | 8 17 | 24 28 | 2 | - | 3 N | N | | |
| Vt. | 54 | 63 | 2 | 7 | 8 | 19 | 7 | 6 | 3 | 4 | | |
| Mass. R.I. | 989 107 | 1,049 108 | 156 | 191 | 106 17 | 181 11 | N 17 | N 10 | 47 7 | N 4 | | |
| Conn. | 391 | 341 | 18 60 | 13 60 | - | 145 | - | 69 | Ú | Ü | | |
| MID. ATLANTIC | 4,550 | 4,154 | 955 | 1,990 | 610 | 827 | 111 | 107 | 94 | 83 | | |
| Upstate N.Y. N.Y. City | 1,027 1,016 | 970 1,147 | 376 308 | 393 343 | 206 83 | 309 125 | 47 U | 56 U | 64 U | 62 U | | |
| N.J. | 734 | 696 | 185 | 319 | 141 | 157 | - | - | 6 | 2 | | |
| Pa. | 1,773 | 1,341 | 86 | 935 | 180 | 236 | 64 | 51 | 24 | 19 | | |
| E.N. CENTRAL Ohio | 4,094 1,103 | 4,819 1,165 | 871 148 | 1,584 262 | 747 199 | 1,115 263 | 402 280 | 365 236 | 136 67 | 252 79 | | |
| Ind. | 504 | 459 | 186 | 128 | 86 | 107 | 122 | 129 | 33 | 25 | | |
| III. Mich. | 1,073 748 | 1,711 669 | 251 150 | 861 220 | 159 260 | 283 318 | - N | - N | N | 101 N | | |
| Wis. | 666 | 815 | 136 | 113 | 43 | 144 | N | N | 36 | 47 | | |
| W.N. CENTRAL | 2,030 | 2,105 | 356 | 668 | 265 | 294 | 16 | 15 | 85 | 62 | | |
| Minn. Iowa | 522 385 | 465 324 | 61 61 | 89 63 | 130 N | 141 N | - N | - N | 55 N | 43 N | | |
| Mo. | 519 | 785 | 131 | 319 | 54 | 66 | 11 | 11 | 12 | 3 | | |
| N. Dak. S. Dak. | 37 112 | 30 101 | 3 10 | 6 16 | 11 16 | 15 21 | 5 | 3 1 | 3 | 5 | | |
| Nebr. | 130 | 144 | 22 | 84 | 14 | 24 | - | - | 6 | 5 | | |
| Kans. | 325 | 256 | 68 | 91 | 40 | 27 | N | N | 9 | 6 | | |
| S. ATLANTIC Del. | 9,353 81 | 8,958 91 | 2,306 6 | 5,800 161 | 849 3 | 784 6 | 946 4 | 890 1 | 46 N | 18 N | | |
| Md. | 682 | 717 | 121 | 527 | 138 | 193 | - | 18 | 33 | - | | |
| D.C. Va. | 52 1,047 | 35 896 | 32 141 | 66 383 | 9 65 | 8 91 | 5 N | N | 3 N | 7 N | | |
| W. Va. | 189 | 114 | 6 | - | 22 | 31 | 94 | 61 | 10 | 11 | | |
| N.C. S.C. | 1,377 765 | 1,125 642 | 293 275 | 837 413 | 115 37 | 93 38 | N 69 | N 124 | U N | U N | | |
| Ga. Fla. | 1,710 | 1,711 | 596 836 | 1,050 | 262 198 | 156 168 | 276 498 | 201 485 | N N | N N | | |
| E.S. CENTRAL | 3,450 2,180 | 3,627 2,511 | 666 | 2,363 819 | 186 | 169 | 119 | 120 | 5 | - | | |
| Ky. | 294 | 344 | 60 | 114 | 54 | 41 | 26 | 16 | N | N | | |
| Tenn. Ala. | 520 624 | 646 631 | 323 237 | 268 275 | 132 | 128 | 92 | 104 | N N | N N | | |
| Miss. | 742 | 890 | 46 | 162 | - | - | 1 | - | 5 | - | | |
| W.S. CENTRAL | 2,811 | 5,312 | 2,308 | 4,978 | 221 | 239 | 51 | 65 | 103 | 88 | | |
| Ark. La. | 480 601 | 701 771 | 67 231 | 97 414 | 16 2 | 6 1 | 8 43 | 20 45 | 8 24 | 7 17 | | |
| Okla. | 352 | 409 | 399 | 722 | 56 | 74 | N | N | 36 | 44 | | |
| Tex. | 1,378 | 3,431 | 1,611 | 3,745 | 147 | 158 | N | N - | 35 | 20 | | |
| MOUNTAIN Mont. | 2,036 176 | 1,859 93 | 698 4 | 1,034 2 | 442 | 393 1 | 33 | 7 | 38 | 61 | | |
| Idaho | 135 | 154 | 13 | 28 | 8 | 18 | N | N | N | N | | |
| Wyo. Colo. | 48 482 | 71 424 | 5 140 | 6 274 | 8 131 | 2 112 | 10 | 6 | 35 | 45 | | |
| N. Mex. | 229 | 228 | 108 | 212 | 70 | 96 | 5 | - N | - | 11 N | | |
| Ariz. Utah | 614 209 | 547 186 | 338 43 | 410 42 | 184 38 | 132 30 | N 16 | N 1 | N 3 | N 5 | | |
| Nev. | 143 | 156 | 47 | 60 | 3 | 2 | 2 | - | - | - | | |
| PACIFIC Wash. | 4,164 488 | 4,391 493 | 1,394 96 | 2,191 147 | 338 53 | 532 56 | 93 | 4 | - N | - N | | |
| Oreg. | 361 | 367 | 59 | 201 | N N | N N | N | N | N | N | | |
| Calif. Alaska | 2,945 53 | 3,291 61 | 1,191 5 | 1,796 8 | 183 | 366 | N | N | N N | N N | | |
| Hawaii | 317 | 179 | 43 | 39 | 102 | 110 | 93 | 4 | - | - | | |
| Guam | - | 40 | - | 33 | | | | . . | | | | |
| P.R. V.I. | 225 | 548 - | 8 - | 25 | N - | N - | N - | N - | N - | N - | | |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U | | |
| C.N.M.I. | 3 | U | - | U | - | U | - | U | - | U | | |
| | | | | | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | - | | |

N: Not notifiable. U: Unavailable. - : No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending October 30, 2004, and October 25, 2003 (43rd Week)*

| (43rd Week)* | | Syphi | lis | | | | | | Varicella | | |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|--|
| | | secondary | Cong | | | culosis | 1 | id fever | (Chicke | | |
| Reporting area | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | Cum. 2004 | Cum. 2003 | |
| UNITED STATES | 6,081 | 5,778 | 277 | 362 | 8,583 | 10,375 | 239 | 308 | 14,685 | 13,494 | |
| NEW ENGLAND | 158 2 | 174 7 | 5 | 1 | 291 | 354 | 19 | 26 | 607 | 2,686 | |
| Maine N.H. | 4 | 16 | 3 | - | 13 | 19 11 | - | 2 | 180 | 755 - | |
| Vt. Mass. | 100 | 1 111 | - | - | - 187 | 9 185 | - 13 | - 15 | 427 | 595 143 | |
| R.I. | 21 | 19 | 1 1 | - 1 | 29 62 | 43 87 | 1 | 2 7 | - | 5 | |
| Conn. MID. ATLANTIC | 31 778 | 20 712 | 39 | 56 | 1,689 | 1,826 | 5 54 | 7 72 | 76 | 1,188 33 | |
| Upstate N.Y. | 83 | 33 | 4 | 9 | 216 | 233 | 9 | 12 | - | - | |
| N.Y. City N.J. | 464 126 | 407 142 | 12 22 | 30 17 | 852 343 | 939 360 | 18 13 | 34 21 | - | - | |
| Pa. | 105 | 130 | 1 | - | 278 | 294 | 14 | 5 | 76 | 33 | |
| E.N. CENTRAL Ohio | 672 181 | 758 172 | 50 1 | 63 3 | 954 163 | 945 167 | 17 5 | 32 2 | 4,648 1,119 | 4,543 1,024 | |
| Ind. | 46 | 38 | 8 | 12 | 109 | 110 | - | 4 | - | | |
| III. Mich. | 266 152 | 316 217 | 12 29 | 19 28 | 418 193 | 451 165 | 10 | 16 10 | 3,137 | 2,784 | |
| Wis. | 27 | 15 | - | 1 | 71 | 52 | 2 | - | 392 | 735 | |
| W.N. CENTRAL Minn. | 128 15 | 128 40 | 5 1 | 4 | 354 147 | 380 156 | 9 5 | 6 2 | 130 | 48 | |
| Iowa | 5 | 8 | - | - | 29 | 26 | - | 2 | Й | N | |
| Mo. N. Dak. | 81 - | 49 2 | 2 | 4 | 85 3 | 97 - | 2 | 1 - | 5 82 | 48 | |
| S. Dak. Nebr. | - 5 | 2 5 | - | - | 8 27 | 16 16 | 2 | - 1 | 43 | - | |
| Kans. | 22 | 22 | 2 | - | 55 | 69 | - | - | - | - | |
| S. ATLANTIC Del. | 1,581 8 | 1,520 6 | 43 1 | 74 | 1,565 | 2,080 | 40 | 44 | 1,904 | 1,815 | |
| Md. | 290 | 259 | 7 | 12 | 195 | 23 201 | 11 | 9 | 4 - | 26 1 | |
| D.C. Va. | 67 89 | 43 69 | 1 3 | - 1 | 66 223 | - 219 | 7 | - 14 | 22 487 | 26 478 | |
| W. Va. | 2 | 2 | - | - | 15 | 19 | - | - | 1,137 | 1,064 | |
| N.C. S.C. | 161 99 | 128 84 | 10 7 | 16 12 | 233 151 | 261 142 | 6 | 7 | N 254 | N 220 | |
| Ga. Fla. | 270 595 | 403 526 | 1 13 | 13 20 | 11 671 | 427 788 | 6 10 | 5 9 | - | - | |
| E.S. CENTRAL | 336 | 264 | 18 | 11 | 444 | 567 | 7 | 5 | _ | _ | |
| Ky. Tenn. | 40 109 | 31 112 | 1 8 | 1 2 | 94 164 | 96 193 | 3 4 | 2 | - | - | |
| Ala. | 142 | 99 | 7 | 6 | 153 | 185 | - | 3 | - | - | |
| Miss. | 45 | 22 | 2 | 2 | 33 | 93 | - | - | - | - | |
| W.S. CENTRAL Ark. | 1,010 35 | 769 42 | 43 | 63 2 | 842 94 | 1,520 74 | 19 - | 30 | 5,247 | 3,880 | |
| La. Okla. | 237 24 | 137 56 | 2 | 1 1 | 135 | - 119 | - 1 | - 1 | 46 | 16 | |
| Tex. | 714 | 534 | 41 | 59 | 613 | 1,327 | 18 | 29 | 5,201 | 3,864 | |
| MOUNTAIN Mont. | 299 | 267 | 45 | 30 | 391 4 | 366 5 | 6 | 6 | 2,073 | 489 | |
| Idaho | 18 | 10 | 2 | 2 | 4 | 8 | - | 1 | - | - | |
| Wyo. Colo. | 3 36 | 29 | - | 3 | 4 85 | 4 83 | - 1 | 3 | 35 1,599 | 45 | |
| N. Mex. | 46 | 54 | 1 | 7 | 18 | 39 | - | - | 83 | 3 | |
| Ariz. Utah | 157 7 | 158 6 | 42 | 18 - | 175 33 | 175 30 | 2 1 | 2 | 356 | 441 | |
| Nev. | 32 | 10 | - | - | 68 | 22 | 2 | - | - | - | |
| PACIFIC Wash. | 1,119 110 | 1,186 64 | 29 | 60 | 2,053 191 | 2,337 198 | 68 6 | 87 3 | - | - | |
| Oreg. | 24 | 39 | - 29 | - 50 | 71 | 90 | 2 | 4 | - | - | |
| Calif. Alaska | 978 1 | 1,076 1 | 28 | 58 - | 1,665 32 | 1,910 47 | 54 - | 79 - | - | - | |
| Hawaii | 6 | 6 | 1 | 2 | 94 | 92 | 6 | 1 | - | - | |
| Guam P.R. | - 112 | 1 169 | - 5 | 13 | 62 | 48 95 | - | - | 230 | 121 506 | |
| V.I. Amer. Samoa | 4 U | 1 U | - U | U | U | U | - U | - U | - U | U | |
| C.N.M.I. | 2 | U | - | U | 10 | U | - | U | - | U | |

N: Not notifiable. U: Unavailable. - : No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

| TABLE III. Deaths | in 122 U. | | * week e | | | r 30, 2 | 2004 (43 | rd Week) | All causes, by age (years) | | | | | | _ |
|--|-------------|-----------|-----------|---------|---------|---------|---------------------------|--|----------------------------|-----------|----------|---------|---------|--------|---------------------------|
| Reporting Area | All Ages | ≥65 | 45–64 | 25–44 | 1–24 | <1 | P&I [†] Total | Reporting Area | All Ages | ≥65 | 45–64 | | 1–24 | <1 | P&I [†] Total |
| NEW ENGLAND | 527 | 373 | 95 | 38 | 14 | 7 | 52 | S. ATLANTIC | 1,166 | 690 | 291 | 118 | 43 | 24 | 54 |
| Boston, Mass. | 155 | 101 | 27 | 14 | 8 | 5 | 17 | Atlanta, Ga. | 133 | 65 | 41 | 13 | 11 | 3 | 2 |
| Bridgeport, Conn. | 23 | 16 | 7 | - | - | - | 2 | Baltimore, Md. | 155 | 73 | 50 | 20 | 9 | 3 | 13 |
| Cambridge, Mass. Fall River, Mass. | 23 22 | 19 18 | 2 2 | 2 | - | - | 6 2 | Charlotte, N.C. Jacksonville, Fla. | 102 148 | 67 92 | 19 37 | 9 12 | 3 | 4 4 | 7 5 |
| Hartford, Conn. | 60 | 43 | 12 | 4 | 1 | - | 1 | Miami, Fla. | U | U | U | Ü | Ü | Ü | Ŭ |
| Lowell, Mass. | 25 | 18 | 6 | 1 | - | - | 1 | Norfolk, Va. | 49 | 35 | 10 | 2 | 2 | - | 5 |
| Lynn, Mass. | 15 | 10 | 5 | - | - | - | - | Richmond, Va. | 58 | 33 | 19 | 5 | 1 | - | 3 |
| New Bedford, Mass. | 20 | 18 | 1 | 1 U | - | - | 2 | Savannah, Ga. | 60 | 40 | 13 | 6 | 1 | - | 4 |
| New Haven, Conn. Providence, R.I. | U 52 | U 35 | U 8 | 7 | U 2 | U | U 6 | St. Petersburg, Fla. Tampa, Fla. | 72 175 | 51 103 | 11 47 | 6 20 | 3 4 | 1 1 | 2 9 |
| Somerville, Mass. | 5 | 3 | 1 | - | 1 | - | - | Washington, D.C. | 200 | 121 | 40 | 25 | 6 | 8 | 4 |
| Springfield, Mass. | 38 | 23 | 7 | 4 | 2 | 2 | 3 | Wilmington, Del. | 14 | 10 | 4 | - | - | - | - |
| Waterbury, Conn. | 24 | 19 | 3 | 2 | - | - | 3 | E.S. CENTRAL | 890 | 581 | 216 | 40 | 26 | 27 | 55 |
| Worcester, Mass. | 65 | 50 | 14 | 1 | - | - | 9 | Birmingham, Ala. | 182 | 130 | 34 | 8 | 5 | 5 | 18 |
| MID. ATLANTIC | 2,060 | 1,428 | 421 | 130 | 36 | 44 | 100 | Chattanooga, Tenn. | 82 | 60 | 12 | 2 | 2 | 6 | 8 |
| Albany, N.Y. | 52 | 35 | 12 | 5 | - | - | 2 | Knoxville, Tenn. | 100 | 70 | 20 | 4 | 4 | 2 | 1 |
| Allentown, Pa. Buffalo, N.Y. | 29 62 | 24 48 | 4 9 | 2 | - | 1 3 | 1 4 | Lexington, Ky. Memphis, Tenn. | 63 205 | 36 135 | 21 54 | 3 6 | 2 5 | 1 5 | 4 14 |
| Camden, N.J. | 26 | 11 | 7 | 1 | 1 | 6 | 3 | Mobile, Ala. | 77 | 48 | 21 | 5 | 2 | 1 | - |
| Elizabeth, N.J. | 14 | 9 | 2 | 2 | 1 | - | - | Montgomery, Ala. | 57 | 32 | 15 | 5 | 2 | 3 | 4 |
| Erie, Pa. | 39 | 30 | 7 | 2 | - | - | - | Nashville, Tenn. | 124 | 70 | 39 | 7 | 4 | 4 | 6 |
| Jersey City, N.J. | 37 | 27 | 4 | 5 | 1 | - 10 | - 42 | W.S. CENTRAL | 1,377 | 899 | 306 | 107 | 49 | 16 | 56 |
| New York City, N.Y. Newark, N.J. | 1,087 52 | 760 30 | 232 14 | 60 7 | 16 - | 19 1 | 43 1 | Austin, Tex. | 75 | 50 | 18 | 6 | 1 | - | 4 |
| Paterson, N.J. | 11 | 7 | 3 | 1 | _ | | | Baton Rouge, La. | U | U | U | U | ñ | U | ñ |
| Philadelphia, Pa. | 303 | 176 | 80 | 25 | 10 | 11 | 20 | Corpus Christi, Tex. Dallas, Tex. | 46 194 | 29 115 | 9 51 | 1 16 | 5 10 | 2 | 5 11 |
| Pittsburgh, Pa.§ | 25 | 16 | 4 | 4 | - | 1 | - | El Paso, Tex. | 90 | 65 | 16 | 6 | 2 | 1 | - |
| Reading, Pa. | 20 | 18 | 1 | 1 | - | 2 | 2 | Ft. Worth, Tex. | 127 | 85 | 27 | 9 | 3 | 3 | 4 |
| Rochester, N.Y. Schenectady, N.Y. | 129 24 | 102 20 | 16 3 | 6 1 | 3 | - | 8 2 | Houston, Tex. | 310 | 189 | 77 | 30 | 12 | 2 | 13 |
| Scranton, Pa. | 18 | 15 | 2 | 1 | _ | _ | 1 | Little Rock, Ark. | 87 | 60 | 13 | 9 | 4 | 1 | - |
| Syracuse, N.Y. | 74 | 55 | 12 | 3 | 4 | - | 12 | New Orleans, La. San Antonio, Tex. | 47 206 | 24 137 | 16 41 | 7 18 | - 8 | 2 | 14 |
| Trenton, N.J. | 22 | 18 | 2 | 2 | - | - | - | Shreveport, La. | 70 | 52 | 13 | 1 | 2 | 2 | 1 |
| Utica, N.Y. Yonkers, N.Y. | 20 16 | 13 14 | 6 1 | 1 1 | - | - | - 1 | Tulsa, Okla. | 125 | 93 | 25 | 4 | 2 | 1 | 4 |
| E.N. CENTRAL | 2,071 | 1,414 | 466 | 110 | 41 | 39 | 149 | MOUNTAIN | 754 | 496 | 159 | 57 | 27 | 15 | 40 |
| Akron, Ohio | 61 | 45 | 13 | 3 | - | - | 16 | Albuquerque, N.M. | 132 | 92 | 25 | 10 | 3 | 2 | 11 |
| Canton, Ohio | 33 | 22 | 9 | 1 | - | 1 | 4 | Boise, Idaho Colo. Springs, Colo. | 38 65 | 28 39 | 5 16 | 2 5 | 1 4 | 2 1 | 3 3 |
| Chicago, III. | 362 | 237 | 81 | 24 | 8 | 11 | 21 | Denver, Colo. | 103 | 60 | 24 | 7 | 8 | 4 | 3 |
| Cincinnati, Ohio | 83 237 | 56 170 | 20 53 | 3 9 | 2 4 | 2 1 | 5 14 | Las Vegas, Nev. | 235 | 150 | 58 | 19 | 4 | 4 | 5 |
| Cleveland, Ohio Columbus, Ohio | 197 | 139 | 42 | 9 | 1 | 6 | 17 | Ogden, Utah | 31 | 25 | 4 | 2 | - | - | 3 |
| Dayton, Ohio | 102 | 67 | 26 | 5 | 3 | 1 | 9 | Phoenix, Ariz. | U | U | U | U | U | U | U |
| Detroit, Mich. | 169 | 96 | 54 | 12 | 3 | 4 | 10 | Pueblo, Colo. Salt Lake City, Utah | 37 113 | 28 74 | 8 19 | 1 11 | 7 | 2 | 2 10 |
| Evansville, Ind. | 47 | 35 | 6 | 4 | 2 | - | - | Tucson, Ariz. | U | Ü | Ü | U | Ú | Ū | Ü |
| Fort Wayne, Ind. Gary, Ind. | 40 19 | 28 6 | 10 7 | 5 | 2 1 | - | 5 - | PACIFIC | 1,766 | 1,212 | 376 | 101 | 40 | 36 | 151 |
| Grand Rapids, Mich. | 56 | 45 | 8 | 2 | 1 | _ | 5 | Berkeley, Calif. | 1,700 | 9 | 4 | 2 | - | - | 3 |
| Indianapolis, Ind. | 197 | 131 | 41 | 12 | 6 | 7 | 10 | Fresno, Calif. | 170 | 121 | 34 | 7 | 4 | 4 | 15 |
| Lansing, Mich. | 47 | 33 | 12 | 2 | - | - | 2 | Glendale, Calif. | 6 | 6 | - | - | - | - | 1 |
| Milwaukee, Wis. Peoria, III. | 114 50 | 76 38 | 27 11 | 5 1 | 2 | 4 | 9 5 | Honolulu, Hawaii Long Beach, Calif. | 80 65 | 63 41 | 13 16 | 1 5 | 1 2 | 2 1 | 3 6 |
| Rockford, III. | 57 | 44 | 8 | 3 | 2 | | 8 | Los Angeles, Calif. | 379 | 270 | 70 | 25 | 6 | 8 | 37 |
| South Bend, Ind. | 47 | 35 | 6 | 3 | 2 | 1 | 4 | Pasadena, Calif. | 15 | 12 | 1 | 1 | 1 | - | 1 |
| Toledo, Ohio | 88 | 63 | 21 | 4 | - | - | 3 | Portland, Oreg. | 126 | 84 | 26 | 8 | 2 | 5 | 5 |
| Youngstown, Ohio | 65 | 48 | 11 | 3 | 2 | 1 | 2 | Sacramento, Calif. | 135 | 96 | 27 | 5 | 5 | 2 | 11 |
| W.N. CENTRAL | 636 | 465 | 110 | 29 | 18 | 14 | 59 | San Diego, Calif. San Francisco, Calif. | 146 104 | 102 70 | 25 25 | 11 7 | 6 1 | 2 1 | 19 17 |
| Des Moines, Iowa | 56 | 42 | 10 | - | 3 | 1 | 6 | San Francisco, Calif. | 201 | 126 | 25 56 | 12 | 5 | 2 | 14 |
| Duluth, Minn. | 40 | 34 | 3 | 1 | 2 | - | 7 | Santa Cruz, Calif. | 27 | 18 | 6 | 2 | - | 1 | 4 |
| Kansas City, Kans. Kansas City, Mo. | 29 89 | 19 56 | 6 21 | 3 3 | 1 4 | 5 | 2 5 | Seattle, Wash. | 143 | 93 | 35 | 10 | 3 | 2 | 5 |
| Lincoln, Nebr. | 35 | 28 | 7 | - | - | - | 5 | Spokane, Wash. | 57 | 32 | 17 | 3 | 1 | 4 | 9 |
| Minneapolis, Minn. | 77 | 55 | 13 | 5 | 2 | 2 | 6 | Tacoma, Wash. | 97 | 69 | 21 | 2 | 3 | 2 | 1 |
| Omaha, Nebr. | 74 | 65 | 6 | - | 2 | 1 | 4 | TOTAL | 11,247¶ | 7,558 | 2,440 | 730 | 294 | 222 | 716 |
| St. Louis, Mo. | 103 | 63 | 24 | 8 | 3 | 5 | 10 | | | | | | | | |
| St. Paul, Minn. | 49 84 | 41 62 | 7 13 | - 0 | 1 | - | 4 10 | | | | | | | | |
| Wichita, Kans. | 84 | . 62 | 13 | 9 | - | | 10 | <u> </u> | | | | | | | |

U: Unavailable.

U: Unavailable. -:No reported cases.

* Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of ≥100,000. 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.

† Pneumonia and influenza.

§ Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

† Total includes unknown ages.

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☆U.S. Government Printing Office: 2005-733-116/00054 Region IV ISSN: 0149-2195