

Weekly

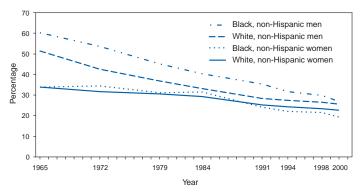
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Cigarette Smoking Among Adults — United States, 2001

One of the national health objectives for the United States for 2010 is to reduce the prevalence of cigarette smoking among adults to $\leq 12\%$ (objective 27.1a) (1). To assess progress toward this objective, CDC analyzed self-reported data from the 2001 National Health Interview Survey (NHIS). The findings of this analysis indicate that, in 2001, approximately 22.8% of U.S. adults were current smokers compared with 25.0% in 1993. During 1965-2001, smoking prevalence declined faster among non-Hispanic blacks aged ≥18 years than among non-Hispanic whites the same age (Figure). Preliminary data for January-March 2002 indicate a continuing decline in current smoking prevalence among adults overall (2). However, the overall decline in smoking is not occurring at a rate that will meet the national health objective by 2010. Increased emphasis on a comprehensive approach to cessation that comprises educational, economic, clinical, and regulatory strategies is required to further reduce the prevalence of smoking in the United States.

The 2001 NHIS adult core questionnaire was administered by personal interview to a nationally representative sample (n = 33,326) of the U.S. civilian, noninstitutionalized population aged ≥ 18 years; the overall survey response rate was 73.8%. Respondents were asked, "Have you smoked ≥100 cigarettes in your entire life?" and those who answered "yes" were asked, "Do you now smoke cigarettes every day, some days, or not at all?" Ever smokers were those who reported having smoked ≥ 100 cigarettes during their lifetime. Current smokers were persons who reported both having smoked ≥ 100 cigarettes during their lifetime and currently smoking every day or some days. Former smokers were ever smokers who currently did not smoke. Data were adjusted for nonresponses and weighted to provide national estimates of cigarette smoking prevalence. Confidence intervals (CIs) were calculated by using SUDAAN.

FIGURE.Trends in the percentage of current cigarette smoking among persons aged \geq 18 years, by race, sex, and year — National Health Interview Survey (NHIS), United States, 1965–2001*



* Because of small sample sizes in individual years, data were combined to provide more reliable and stable prevalence estimates. Data points shown and the combined NHIS surveys from which the data were derived are as follows: 1965 (1965–1966), 1972 (1970 and 1974), 1979 (1978– 1980), 1984 (1983 and 1985), 1991 (1991–1992), 1994 (1993–1995), 1998 (1997–1999), and 2000 (2000–2001).

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Notifiable Disease Morbidity and 122 Cities Mortality Data Robert F. Fagan Deborah A. Adams Felicia J. Connor Lateka Dammond Donna Edwards Patsy A. Hall Pearl C. Sharp In 2001, an estimated 46.2 million adults (22.8%; 95% CI = ± 0.5) were current smokers; an estimated 37.8 million (81.8%) smoked every day, and 8.4 million (18.2%) smoked some days. Of current smokers who smoked every day, an estimated 15.3 million (40.6%; 95% CI = ± 1.4) had stopped smoking for ≥ 1 day during the preceding 12 months because they were trying to quit. In 2001, an estimated 44.7 million adults were former smokers, representing 49.2% (95% CI = ± 0.9) of persons who had ever smoked.

The prevalence of cigarette smoking was higher among men $(25.2\% [95\% CI = \pm 0.8])$ than women (20.7%; 95%) $CI = \pm 0.7$) (Table). Among racial/ethnic populations, Asians* $(12.4\%; 95\% \text{ CI} = \pm 2.6)$ and Hispanics (16.7%; 95%) $CI = \pm 1.2$) had the lowest prevalence of current smoking; American Indians/Alaska Natives (AI/ANs) had the highest prevalence (32.7%; 95% CI = \pm 7.5). By education level, adults who had earned a General Educational Development diploma $(47.8\%; 95\% \text{ CI} = \pm 4.2)$ and those with a grade 9–11 education (34.3%; 95% CI = ± 2.1) had the highest prevalence of smoking; persons with master's, professional, and doctoral degrees had the lowest prevalence (9.5%; 95% CI = +1.3). Current smoking prevalence was highest among persons aged 18-24 years (26.9%; 95% CI = ± 1.8) and among those aged 25-44 years (25.8%; 95% CI = ± 0.8) and lowest among those aged ≥ 65 years (10.1%; 95% CI = ± 0.8). The prevalence of current smoking was higher among adults living below the poverty level[†] (31.4%; 95% CI = \pm 1.8) than those at or above the poverty level (23.0%; 95% CI = ± 0.6).

Comparing current smoking prevalence data from 1965-1966 and 2000-2001 indicates a slow but steady decrease among non-Hispanic blacks and whites (Figure). Since 1970-1974, prevalence has declined more rapidly among non-Hispanic black men than among non-Hispanic white men. During 2000–2001, for the first time, current smoking prevalence among non-Hispanic black men was similar to that among non-Hispanic white men. Smoking prevalence also declined more rapidly among non-Hispanic black women than non-Hispanic white women. Before 1993-1995, current smoking prevalences among non-Hispanic black and white women generally were comparable, except during 1970–1974, when prevalence among non-Hispanic white women was lower. Since 1993-1995, prevalence among non-Hispanic black women has been lower, except during 1997–1999, when no difference was observed.

Reported by: T Woollery, PhD, A Trosclair, MS, C Husten, MD, RC Caraballo, PhD, J Kahende, PhD, Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, CDC.

^{*} Excludes Native Hawaiians and Other Pacific Islanders.

[†]Calculated on the basis of U.S. Census Bureau 2000 poverty thresholds.

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| | | Men 14,490) | | omen 18,836) | Total (n = 33,326) | | |
|-------------------------------|------|------------------------|----------|------------------|-----------------------|-----------------|--|
| Characteristic | % | (95% CI [†]) | <u> </u> | (95% CI) | <u>~~~</u> % | (95% CI) | |
| Race/Ethnicity§ | | | | | | | |
| White, non-Hispanic | 25.4 | (<u>+</u> 1.0) | 22.8 | (<u>+</u> 0.9) | 24.0 | (<u>+</u> 0.6) | |
| Black, non-Hispanic | 27.7 | (<u>+</u> 2.6) | 17.9 | (<u>+</u> 1.5) | 22.3 | (<u>+</u> 1.4) | |
| Hispanic | 21.6 | (<u>+</u> 1.9) | 11.9 | (<u>+</u> 1.3) | 16.7 | (<u>+</u> 1.2) | |
| American Indian/Alaska Native | 33.5 | (<u>+</u> 10.5) | 31.7 | (<u>+</u> 10.6) | 32.7 | (<u>+</u> 7.5) | |
| Asian [¶] | 18.5 | (<u>+</u> 4.5) | 6.3 | (<u>+</u> 2.4) | 12.4 | (<u>+</u> 2.6) | |
| Education** | | | | | | | |
| 0–12 yrs (no diploma) | 32.2 | (<u>+</u> 2.1) | 23.3 | (<u>+</u> 1.7) | 28.4 | (<u>+</u> 1.4) | |
| <u>≤8 yrs</u> | 24.2 | (<u>+</u> 3.0) | 13.4 | (<u>+</u> 2.0) | 18.6 | (<u>+</u> 1.8) | |
| 9–11 yrs | 39.5 | (<u>+</u> 3.3) | 29.8 | (<u>+</u> 2.7) | 34.3 | (<u>+</u> 2.1) | |
| 12 yrs (no diploma) | 29.7 | (<u>+</u> 6.0) | 29.2 | (<u>+</u> 5.3) | 29.5 | (<u>+</u> 4.0) | |
| GED ^{††} (diploma) | 47.9 | (<u>+</u> 6.2) | 47.7 | (<u>+</u> 5.7) | 47.8 | (<u>+</u> 4.2) | |
| 12 yrs (diploma) | 29.3 | (<u>+</u> 1.8) | 23.4 | (<u>+</u> 1.4) | 26.1 | (<u>+</u> 1.1) | |
| Associate degree | 23.7 | (<u>+</u> 2.8) | 19.8 | (<u>+</u> 2.2) | 21.6 | (<u>+</u> 1.7) | |
| Some college (no degree) | 26.6 | (<u>+</u> 2.1) | 22.1 | (<u>+</u> 1.7) | 24.2 | (<u>+</u> 1.3) | |
| Undergraduate degree | 13.3 | (<u>+</u> 1.6) | 11.2 | (<u>+</u> 1.4) | 12.3 | (<u>+</u> 1.0) | |
| Graduate degree | 9.0 | (<u>+</u> 1.7) | 10.0 | (<u>+</u> 1.8) | 9.5 | (<u>+</u> 1.3) | |
| Age group (yrs) | | | | | | | |
| 18–24 | 30.4 | (+2.7) | 23.4 | (<u>+</u> 2.3) | 26.9 | (<u>+</u> 1.8) | |
| 25–44 | 27.3 | (<u>+</u> 1.3) | 24.5 | (<u>+</u> 1.1) | 25.8 | (<u>+</u> 0.8) | |
| 45–64 | 26.4 | (±1.5) | 21.4 | (<u>+</u> 1.2) | 23.8 | (<u>+</u> 0.9) | |
| ≥65 | 11.5 | (<u>+</u> 1.4) | 9.2 | (<u>+</u> 1.0) | 10.1 | (<u>+</u> 0.8) | |
| Poverty level ^{§§} | | | | | | | |
| At or above | 25.1 | (<u>+</u> 1.0) | 21.0 | (<u>+</u> 0.8) | 23.0 | (<u>+</u> 0.6) | |
| Below | 36.2 | (<u>+</u> 3.2) | 28.1 | (<u>+</u> 2.1) | 31.4 | (<u>+</u> 1.8) | |
| Unknown | 22.0 | (<u>+</u> 1.7) | 17.1 | (<u>+</u> 1.3) | 19.3 | (<u>+</u> 1.0) | |
| Total | 25.2 | (<u>+</u> 0.8) | 20.7 | (<u>+</u> 0.7) | 22.8 | (<u>+</u> 0.5) | |

TABLE. Percentage of current smokers* aged ≥18 years, by selected characteristics — National Health Interview Survey, United States, 2001

* Persons who reported having smoked ≥100 cigarettes during their lifetime and who reported currently smoking every day or some days during the _ previous 30 days; excludes 301 respondents whose smoking status was unknown.

[†] Confidence interval.

[§] Excludes 371 respondents of unknown, multiple, and other racial/ethnic categories.

[¶] Excludes Native Hawaiians and Other Pacific Islanders.

** Persons aged ≥25 years, excluding 316 persons with unknown number of years of education.

General Educational Development.

§§ Calculated on the basis of U.S. Census Bureau 2000 poverty thresholds.

Editorial Note: The findings in this report indicate that smoking prevalence has declined among adults since 1965. Although selected population groups have met the national health objective for 2010, slow or no progress has been observed in other sections of the U.S. population (*3*). For this reason, the overall decline in cigarette smoking prevalence in the adult U.S. population is not occurring at a rate that will meet the 2010 national health objective.

The findings in this report are subject to at least three limitations. First, questionnaire wording and NHIS data collection procedures have changed since 1993. Because of these changes, trend analyses or comparisons with data from years preceding 1993 should be interpreted with caution. Second, in 1997, the Office of Management and Budget changed its data collection guidelines to require that data on Asians and Native Hawaiians and Other Pacific Islanders be collected separately. For this reason, trend data on smoking prevalence for the combined category of Asians/Pacific Islanders cannot be estimated by using publicly available data. Finally, because NHIS data for some subpopulations (e.g., AI/ANs) are small, data for a single year might be unstable. Combining data from several years would produce more reliable estimates for these subpopulations.

Comprehensive tobacco-control programs at the state level have helped to reduce tobacco use (4). In 2000, the U.S. Surgeon General concluded that the 2010 objective could be attained only if comprehensive approaches to tobacco control were implemented (5). In 2002, six states were funding comprehensive programs at the minimum levels recommended by CDC (6). In 2002 and 2003, state budget cuts reduced state support for tobacco-prevention and -cessation programs by \$86.2 million (11.2%) (7). To attain the 2010 national health objective, comprehensive tobacco-control programs that meet CDC's recommended funding levels are needed (5,8-10). Within these comprehensive programs, a focus on reducing tobacco use among persons in different socioeconomic strata, racial/ethnic populations, and education levels could help reduce cigarette smoking and tobacco use and reduce the substantial morbidity and mortality and economic costs associated with tobacco use.

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Yersinia enterocolitica Gastroenteritis Among Infants Exposed to Chitterlings — Chicago, Illinois, 2002

During December 2002–January 2003, the Chicago Department of Public Health (CDPH) investigated a cluster of *Yersinia enterocolitica* infections reported during a 10-week period among nine Chicago infants aged ≤ 1 year. This report summarizes the investigation of these cases and underscores the continuing risks for enteric infection among infants

exposed to chitterlings (i.e., pork intestines), and the need for health-care providers to be aware of *Y. enterocolitica* as a cause of gastroenteritis, particularly in black children during traditional winter holiday celebrations.

CDPH defined a case of *Y. enterocolitica* gastroenteritis as diarrhea in an infant, with accompanying isolation of *Y. enterocolitica* from stool culture. CDPH alerted hospitals and health-care providers of the cases and requested reports of all laboratory-confirmed cases. Caretakers of the affected infants were interviewed by using a standard case investigation form. Questions were added to determine the source of the chitterlings, brand name, and preparation techniques. CDPH acquired chitterlings from several identified retail outlets for microbiologic testing.

During November–December 2002, nine infants had illness onset; the median age of the infants was 8 months (range: 7 weeks–13 months). Of the nine infants, eight were black and had either eaten chitterlings or spent time in a household in which the dish had been prepared. The one case not associated with chitterlings occurred in a Hispanic infant aged 1 year. All eight infants who were exposed to chitterlings had a history of contact with caretakers who prepared chitterlings, and one had a history of eating chitterlings. For seven infants for whom information about time of exposure to chitterlings was available, all had direct or indirect contact with chitterlings within 2 weeks of illness onset (median: 4 days; range: 1–12 days).

Caretakers of six infants purchased chitterlings from the same grocery store chain but from three separate locations. Two infants were exposed to the same brand of chitterlings. Caretakers reported different preparation techniques, and preparation times ranged from 2 to 12 hours. No chitterlings or lot numbers associated with the cases were available.

Y. enterocolitica isolates from two infants were serotyped; both were serotype O:3. Samples of chitterlings obtained for testing yielded *Y. enterocolitica* serotype O:3 and *Salmonella* serotype Derby. One infant with chitterlings-associated *Y. enterocolitica* also had *S.* Typhimurium isolated from stool culture. All nine infants recovered, and clinical illness was limited to gastroenteritis. Six infants were hospitalized; median duration of hospitalization was 5 days (range: 3–6 days). The infant who also had coinfection with *S.* Typhimurium required 6 days of hospitalization because of possible intussusception.

Reported by: *RC Jones, MPH, JR Fernandez, SI Gerber, MD, W Paul, MD, Chicago Dept of Public Health; L Williams, Environmental Svcs, Illinois Dept of Public Health. R Turner, DVM, Food Safety and Inspection Svc, US Dept of Agriculture. JT Watson, MD, EIS Officer, CDC.*

up-to-the-minute: adj

1 : extending up to the immediate present, including the very latest information; see also *MMWR*.



know what matters.



Editorial Note: This report describes nine cases of Y. enterocolitica gastroenteritis among Chicago infants, eight of whom were exposed to chitterlings prepared in their homes during the winter holidays. Chitterlings are a known cause of Y. enterocolitica gastroenteritis, particularly among black children (1,2). Y. enterocolitica, a gram-negative enteric organism commonly present in swine, can cause illness characterized by fever, occasional bloody diarrhea, and abdominal pain. Bacteremia also can occur, especially in infants aged <3 months (3). Chitterlings are traditional winter holiday food in certain black families and are readily available in the United States. Y. enterocolitica is transferred from raw chitterlings to infants, particularly to bottle-fed infants, through contact with the hands of food preparers (1,2). In Fulton County, Georgia, nearly half of all child caretakers enrolled in an epidemiologic investigation to determine risk factors for Y. enterocolitica infection reported household preparation of chitterlings for holiday meals (1). In 2002, Y. enterocolitica gastroenteritis was reported by active surveillance in FoodNet sites at an incidence of 0.44 per 100,000 population. Incidence has been decreasing for years for undetermined reasons (4).

Prevention of versiniosis should focus primarily on increased consumer awareness of the inherent bacterial contamination of chitterlings as a food product and the risks associated with their preparation and consumption. The Food Safety and Inspection Service of the U.S. Department of Agriculture regulates inspection of chitterlings produced in federally inspected establishments. Preparation of chitterlings requires thorough cleaning before cooking, an extensive process usually performed at home. Special care should be taken when handling raw chitterlings, including careful hand washing by persons cleaning chitterlings before touching children or anything used by children (5). Public health officials and clinicians should be alert to the possibility of Y. enterocolitica as a cause of gastroenteritis, particularly in black communities during the winter holiday season. Information regarding safe preparation of chitterlings is available at http://www.ph.dhr.state.ga.us/epi/ news/oct02/103102.shtml.

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Racial/Ethnic Disparities in Influenza and Pneumococcal Vaccination Levels Among Persons Aged <u>>65 Years</u> — United States, 1989–2001

Influenza and pneumococcal diseases are key causes of mortality among persons aged ≥ 65 years, accounting for approximately 36,000 and 3,400 deaths per year, respectively, during 1990–1999 (1,2). Substantial racial/ethnic disparities in adult vaccination have been documented in national surveys (2,3). Although the national health objective for 2000 of 60% receipt of influenza vaccination during the preceding 12 months by persons aged ≥ 65 years (objective no. 20.11) was met in 1997, and the objective of 60% for pneumococcal vaccination was nearly met in 2000, vaccine coverage levels among non-Hispanic blacks and Hispanics were 31% and 30%, respectively, compared with 57% for non-Hispanic whites (4,5). To characterize these disparities, CDC analyzed data from the 2000 and 2001 National Health Interview Surveys (NHIS) and examined trends in NHIS results for 1989-2001. This report summarizes the results of these analyses, which indicate that marked differences in vaccination coverage by race/ethnicity are observed even among persons most likely to be vaccinated (e.g., persons with the highest education level and persons with frequent visits to health-care providers). Racial/ethnic disparities in influenza and pneumococcal vaccination coverage have persisted over time. Several approaches to reduce these disparities are needed, including increasing demand for vaccination among racial/ ethnic minority populations and the use of standing orders and other systems changes that promote vaccination.

The 2000 and 2001 NHIS adult core questionnaires were administered by personal interview to a nationally representative sample of the U.S. civilian, noninstitutionalized population aged \geq 18 years; the response rate was 72% in 2000 and 74% in 2001. In both years, respondents aged >65 years were asked, "During the past 12 months, have you had a flu shot?"; in 2000, they were asked, "Have you ever had a pneumonia vaccination, sometimes called a pneumonia shot?"; and in 2001, they were asked, "Have you ever had a pneumonia shot?" Vaccine receipt was tabulated for non-Hispanic whites, non-Hispanic blacks, and Hispanics and stratified by selected demographic variables. Respondents who refused to answer the question or who reported an unknown status for influenza or pneumococcal vaccination were excluded from the analyses (1.4% and 3.5% for influenza and pneumococcal vaccination, respectively). NHIS data from 2000 and 2001

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were combined to provide more precise estimates of vaccine coverage in the stratified analysis. Trends by survey year in reported vaccine coverage by race/ethnicity were examined based on responses to the 1989–2001 surveys, which used similarly worded questions. Vaccination questions were not included on the 1990, 1992, and 1996 surveys. For these years, a midpoint value between the preceding and the next year was assigned. Data were adjusted for nonresponses and weighted to provide national estimates. SUDAAN was used to calculate point estimates and 95% confidence intervals (CIs) and to conduct multivariable logistic regression analysis to assess the independent association between race/ethnicity and vaccination status while controlling for other sociodemographic factors.

During 2000–2001, a total of 9,435 non-Hispanic white, 1,341 non-Hispanic black, and 1,133 Hispanics aged \geq 65 years were included in the analyses. A lower proportion of non-Hispanic blacks and Hispanics had >12 years of education than non-Hispanic whites (22% and 19% versus 37%), were above poverty level* (31% and 33% versus 63%), and had supplemental insurance (i.e., any insurance in addition to Medicare, except Medicaid) (39% and 26% versus 73%). A higher proportion of Hispanics than non-Hispanic blacks or whites had fewer than two doctor visits during the preceding 12 months (24% versus 18% and 17%). A similar proportion in each of the three racial/ethnic populations reported \geq 10 doctor visits during the preceding 12 months (21% of non-Hispanic whites, 22% of non-Hispanic blacks, and 25% of Hispanics).

During 2000–2001, the average influenza and pneumococcal coverage levels reported, respectively, were 66% and 57% for non-Hispanic whites, 48% and 33% for non-Hispanic blacks, and 54% and 32% for Hispanics (Table). In general, influenza vaccination coverage was highest for non-Hispanic whites, followed by Hispanics and then non-Hispanic blacks (Table); for pneumococcal vaccination, coverage was similar for non-Hispanic blacks and Hispanics. Vaccine coverage was <60% for all subgroups of non-Hispanic blacks and the majority of subgroups of Hispanics.

After accounting for variations in sex, age, education, poverty status, region, insurance status, number of doctor visits, and high-risk conditions, non-Hispanic blacks remained significantly less likely than non-Hispanic whites to report influenza vaccination (odds ratio [OR] = 0.7; 95% CI = 0.6– 0.8); the difference between Hispanics and non-Hispanic whites was not statistically significant (OR = 0.9; 95% CI = 0.7–1.1). Both non-Hispanic blacks and Hispanics were significantly less likely than non-Hispanic whites to report a pneumococcal vaccination (OR = 0.4; 95% CI = 0.3–0.5 and OR = 0.4; 95% CI = 0.3 and 0.5, respectively).

During 1989–1999, national influenza vaccination coverage increased nearly each survey year for non-Hispanic whites, non-Hispanic blacks, and Hispanics, but the rate of increase has declined since 1997 (Figure 1). A slight decline was observed in 2001, probably reflecting delays in influenza vaccine manufacturing and distribution in 2000 (1). In 2001, differences in influenza coverage between non-Hispanic whites and Hispanics and between non-Hispanic whites and blacks were 13 and 16 percentage points, respectively; in 1989, these differences were 8 and 14 percentage points, respectively. Pneumococcal vaccination has increased steadily; however, the increase for non-Hispanic whites during 2000-2001 was smaller than previous annual increases (Figure 2). In 2001, differences in pneumococcal vaccination coverage between non-Hispanic whites and Hispanics and between non-Hispanic whites and blacks were 25 and 23 percentage points, respectively, and 5 and 9 percentage points in 1989.

Reported by: CR Stein, Association of Schools of Public Health, Atlanta, Georgia. PM Wortley, Immunization Svcs Div; JA Singleton, Epidemiology and Surveillance Div, National Immunization Program, CDC.

Editorial Note: The findings in this report indicate that although influenza and pneumococcal vaccination rates have increased for non-Hispanic blacks and Hispanics, as they have for non-Hispanic whites, substantial gaps persist by race/ ethnicity. Differences in coverage are observed among persons with similar education levels, similar numbers of healthcare encounters, and similar insurance status. These differences remain after controlling for factors with multivariable analysis, with the exception of receipt of influenza vaccination among Hispanics. Increases in vaccination rates for non-Hispanic blacks and Hispanics have not occurred at a rate sufficient to reach the national health objective for 2010 of eliminating disparities in health. Among non-Hispanic whites, influenza vaccination coverage was stable during 1997-2001 at <70% (2), and for all three groups, coverage was below the 90% health objective for 2010.

Reasons for differences in coverage are poorly understood. In this analysis, substantial racial/ethnic disparities in vaccination coverage were observed among persons with zero to one, two to nine, and ≥ 10 health-care provider contacts during the preceding 12 months, suggesting that access to care might not be a key factor. In the 1996 Medicare Current Beneficiary Survey, race/ethnicity was not related to reasons given for not being vaccinated (6). For influenza vaccination, the two leading reasons for not being vaccinated were not knowing it was recommended and concerns about the vaccine (e.g., fear of getting influenza and fear of side effects); for pneumococcal vaccination, the leading reason for not being vaccinated

^{*}Calculated on the basis of U.S. Census Bureau 2000 poverty thresholds.

| | | Influenza | | | Pneumococcal | |
|--|----------------------|--------------------------------------|----------------------|--|-----------------------|--|
| | White, | Black, | | White, | Black, | |
| | non-Hispanic | non-Hispanic | Hispanic | non-Hispanic | non-Hispanic | Hispanic |
| Characteristic | % (95% CI*) | % (95% CI) | % (95% CI) | % (95% CI) | % (95% CI) | % (95% CI) |
| Sex | | | | | | |
| Men | 68.0 (<u>+</u> 1.8) | 47.6 (+5.5) | 54.0 (<u>+</u> 5.8) | 57.1 (+1.9) | 30.3 (+4.9) | 32.4 (+6.1) |
| Women | 64.5 (<u>+</u> 1.4) | 48.7 (<u>+</u> 3.8) | 53.6 (±4.5) | 57.5 (<u>+</u> 1.4) | 34.4 (±3.6) | 31.1 (<u>+</u> 4.5) |
| Age group (yrs) | <u> </u> | | ι_ , | | (| <u> </u> |
| 65-74 | 62.9 (±1.5) | 48.4 (+4.0) | 53.4 (+4.1) | 52.8 (±1.7) | 32.5 (+3.9) | 31.4 (+4.1) |
| <u>≥</u> 75 | 69.5 (<u>+</u> 1.6) | 48.2 (<u>+</u> 4.7) | 54.4 (<u>+</u> 5.4) | 62.5 (<u>+</u> 1.6) | 33.2 (<u>+</u> 4.7) | 32.3 (<u>+</u> 5.7) |
| Region [†] | | | | | | () |
| Northeast | 65.9 (+2.5) | 40.4 (+7.6) | 56.6 (+8.8) | 54.3 (+3.1) | 30.1 (+6.1) | 34.1 (<u>+</u> 11.7) |
| Midwest | 66.4 (<u>+</u> 2.6) | $50.2 (\pm 7.7)$ | 49.4 (±18.2) | 56.5 (<u>+</u> 2.5) | 33.9 (<u>+</u> 6.1) | 27.8 (<u>+</u> 4.1) |
| South | 64.3 (<u>+</u> 1.8) | 50.4 (+6.0) | 42.8 (+5.5) | 57.4 (+2.1) | 32.2 (+3.6) | 22.0 (<u>+</u> 1.8) |
| West | 69.0 (+2.6) | 44.8 (+7.6) | 63.8 (<u>+</u> 5.7) | 62.4 (+2.7) | 40.1 (<u>+</u> 10.6) | 40.9 (+6.5) |
| Education level | | (<u>+</u> ,,) | | | ···· (<u>+</u> ····) | (<u>+</u> 010) |
| <high school<="" td=""><td>61.6 (<u>+</u>1.9)</td><td>45.2 (±4.3)</td><td>51.4 (<u>+</u>4.6)</td><td>52.8 (<u>+</u>2.3)</td><td>27.7 (±4.0)</td><td>28.2 (<u>+</u>4.7)</td></high> | 61.6 (<u>+</u> 1.9) | 45.2 (±4.3) | 51.4 (<u>+</u> 4.6) | 52.8 (<u>+</u> 2.3) | 27.7 (±4.0) | 28.2 (<u>+</u> 4.7) |
| High school | 01.0 (11.0) | 40.2 (<u>1</u> 4.0) | 01.4 (<u>1</u> 4.0) | 02.0 (12.0) | 21.1 (14.0) | 20.2 (1-1.7) |
| graduate | 65.5 (+2.0) | 50.7 (+6.1) | 53.0 (+8.5) | 56.6 (+2.1) | 34.4 (+5.8) | 35.5 (<u>+</u> 7.5) |
| >High school | 70.0 (+1.8) | 49.4 (+6.7) | 63.9 (+8.0) | 61.8 (<u>+</u> 1.9) | 38.8 (+6.4) | 40.8 (<u>+</u> 9.1) |
| Poverty level§ | | | | | | |
| Below | 57.2 (<u>+</u> 4.6) | 48.8 (+6.4) | 48.2 (+7.0) | 50.5 (+4.4) | 30.6 (+5.9) | 23.9 (<u>+</u> 5.8) |
| At poverty | 62.5 (+2.4) | 50.0 (+5.9) | 50.9 (+6.4) | 56.7 (+2.6) | 29.4 (+5.5) | 33.3 (+7.9) |
| Above | $69.0 (\pm 1.7)$ | 49.1 (±7.3) | 61.6 (<u>+</u> 7.6) | 59.8 (<u>+</u> 2.0) | 32.6 (±7.8) | 38.1 (<u>+</u> 8.0) |
| Language¶ | 0010 (±111) | (11.0) | 01.0 (±1.0) | 00.0 (12.0) | 02.0 (±1.0) | (+0.0) |
| English | 66.1 (<u>+</u> 1.1) | 48.3 (<u>+</u> 3.1) | 58.9 (+5.2) | 57.5 (+1.2) | 32.8 (±2.7) | 38.1 (+4.4) |
| Spanish | ** | +0.0 (<u>+</u> 0.1) ** | 47.9 (<u>+</u> 4.3) | ** | ** | 24.4 (<u>+</u> 5.0) |
| Insurance | | | 41.0 (<u>1</u> 4.0) | | | 24.4 (<u>1</u> 0.0) |
| Medicare/Medicaid | 55.6 (+5.4) | 47.2 (+7.3) | 51.6 (+6.4) | 50.6 (+5.8) | 33.8 (+6.9) | 27.6 (+7.9) |
| Medicare only | 60.3 (<u>+</u> 2.3) | $47.2 (\pm 7.3)$ $48.8 (\pm 6.1)$ | 50.7 (<u>+</u> 5.4) | 50.0 (<u>+</u> 5.8) 50.0 (<u>+</u> 1.6) | 31.3 (<u>+</u> 4.9) | $27.0 (\pm 7.9)$ 29.6 (± 5.3) |
| Medicare/ | $00.3 (\pm 2.3)$ | $+0.0 (\pm 0.1)$ | $50.7 (\pm 5.4)$ | 50.0 (<u>+</u> 1.0) | 51.5 (<u>+</u> 4.9) | $23.0 (\pm 0.0)$ |
| Supplemental ^{††} | 68.7 (+1.4) | 54.0 (<u>+</u> 5.5) | 62.5 (+7.5) | 60.8 (+1.5) | 38.5 (+4.9) | 44.0 (+7.9) |
| High risk ^{§§} | 00.7 (<u>1</u> 1.4) | 04.0 (10.0) | 02.0 (<u>1</u> 7.0) | 00.0 (11.0) | 00.0 (<u>1</u> 4.0) | 44.0 (<u>1</u> 7.0) |
| Yes | 71.5 (+1.6) | 54.8 (+4.5) | 60.4 (+5.4) | 65.6 (+1.6) | 39.9 (+4.6) | 37.3 (+5.5) |
| No | $60.9 (\pm 1.6)$ | 42.3 (± 4.6) | 47.9 (<u>+</u> 6.0) | $50.0 (\pm 1.0)$ | 26.2 (+3.6) | $26.4 (\pm 4.6)$ |
| | 00.3 (<u>±</u> 1.0) | +2.3 (<u>+</u> 4.0) | +1.3 (<u>+</u> 0.0) | JU.U (<u>±</u> 1.7) | 20.2 (<u>+</u> 3.0) | 20.4 (<u>+</u> 4.0) |
| No. doctor visits 0–1 | 49.7 (+2.7) | 29.2 (+6.4) | 295 (160) | 39.5 (+2.8) | 21.4 (+6.0) | 22.8 (+6.1) |
| 0–1 2–9 | - (_ / | (/ | 38.5 (<u>+</u> 6.9) | \ / | (/ | - () |
| | 67.7 (<u>+</u> 1.4) | 52.6 (<u>+</u> 4.1) | 56.2 (\pm 4.5) | 58.7 (<u>+</u> 1.5) | $34.9 (\pm 3.5)$ | (/ |
| ≥10 Tatal | 74.2 (<u>+</u> 2.1) | 53.1 (<u>+</u> 7.1) | 63.2 (<u>+</u> 6.9) | 67.7 (<u>+</u> 2.5) | 36.9 (<u>+</u> 6.2) | 39.6 (<u>+</u> 7.3) |
| Total | 66.0 (<u>+</u> 1.1) | 48.3 (<u>+</u> 3.0) | 53.7 (<u>+</u> 3.4) | 57.3 (<u>+</u> 1.2) | 32.8 (<u>+</u> 2.7) | 31.7 (<u>+</u> 3.7) |

TABLE. Percentage of non-Hispanic white, non-Hispanic black, and Hispanic persons aged ≥65 years who reported receiving influenza vaccination during the preceding 12 months or ever receiving pneumococcal vaccination, by selected characteristics — National Health Interview Survey, United States, 2000 and 2001 combined

* Confidence interval.

[†] Northeast=Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; *Midwest*=Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; *South*=Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; *West*=Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

⁸ Calculated on the basis of U.S. Census Bureau 2000 poverty thresholds.

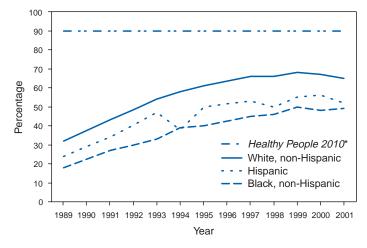
[¶] Language in which the interview was conducted.

^{**} Quantity was insufficient for analysis: <30 sampled respondents or relative standard error >0.3.

⁺⁺ Any insurance in addition to Medicare, except Medicaid.

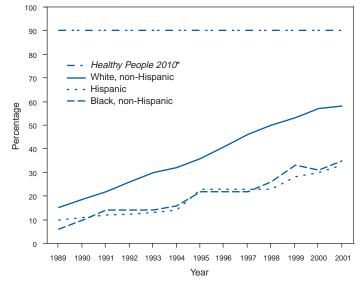
^{§§} Persons were classified as being at high risk for influenza if they reported diabetes during the preceding 12 months; asthma, emphysema, chronic bronchitis, or tuberculosis during the preceding 12 months; chronic kidney disease during the preceding 12 months; or ever being told by a physician that they had a heart attack, heart failure, chronic heart condition, or rheumatic heart disease. Persons who were classified as being at high risk for pneumococcal-related complications either had illness consistent with the criteria for being at high risk for influenza-related complications, with the exception of asthma, or reported liver disease or cirrhosis during the preceding 12 months.

FIGURE 1. Percentage of persons aged ≥65 years who reported receiving influenza vaccination during the preceding 12 months, by race/ethnicity and survey year — National Health Interview Survey, United States, 1989–2001



* **Source:** U.S. Department of Health and Human Services. Healthy people 2010, 2nd ed. With understanding and improving health and objectives for improving health (2 vols.). Washington, DC: U.S. Department of Health and Human Services, 2000.

FIGURE 2. Percentage of persons aged ≥65 years who reported ever receiving pneumococcal vaccination, by race/ethnicity and survey year — National Health Interview Survey, United States, 1989–2001



* **Source:** U.S. Department of Health and Human Services. Healthy people 2010, 2nd ed. With understanding and improving health and objectives for improving health (2 vols.). Washington, DC: U.S. Department of Health and Human Services, 2000.

was not knowing it was recommended. Determining the reasons for the racial/ethnic disparity requires further examination. Possible reasons might include non-Hispanic blacks and Hispanics receiving care disproportionately in settings in which vaccination coverage is lower or differences in the provider-patient interaction for non-Hispanic blacks and Hispanics compared with non-Hispanic whites.

CDC is addressing these disparities through 2-year demonstration projects in Chicago, Illinois; Milwaukee, Wisconsin; a rural area of Mississippi; Rochester, New York; and San Antonio, Texas. In these areas, local and state health departments are working with community partners and federal agencies to improve influenza and pneumococcal vaccination levels among elderly non-Hispanic blacks and Hispanics. Strategies include development of culturally specific messages, working with health-care providers who care for elderly non-Hispanic black and Hispanic patients to implement effective interventions (e.g., standing orders and provider reminders) (7), and conducting vaccination clinics in underserved neighborhoods. A critical outcome of the demonstration project is development of new partnerships to reach populations that have not been targeted.

The findings in this report are subject to at least two limitations. First, self-reports of pneumococcal vaccination are less reliable than self-reports of influenza vaccination, in part because the recall usually is longer (8). Second, validity of self-report of vaccination by race/ethnicity has not been studied, and differential validity by race/ethnicity could affect these findings.

System changes that promote adherence to evidence-based guidelines play a key role in reducing disparities (9). The absence of racial/ethnic disparities in Veteran's Administration clinics, in which standing orders and other interventions to increase vaccination have been implemented, suggests that this approach might be effective in eliminating disparities (10). In addition, programs are needed to increase demand for vaccination among older non-Hispanic blacks and Hispanics through state and local outreach programs and coalitions to engage new partners.

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Primary Amebic Meningoencephalitis — Georgia, 2002

In early September 2002, the Georgia Division of Public Health and CDC were notified about a fatal case of primary amebic meningoencephalitis (PAM) caused by *Naegleria fowleri* in a boy aged 11 years who had recently swum in a local river. This report summarizes the case investigation. In response to this case, the district health department recommended that local community authorities advise persons to avoid swimming in this river during periods of high temperature and low water depth.

In late August, the previously healthy boy was evaluated in a local emergency department for a 2-day history of headache and emesis; he was febrile and lethargic without focal neurologic or meningeal signs. A computerized tomography (CT) scan of the head without contrast was normal. Lumbar puncture was unsuccessful, and the patient was started on intravenous antibiotics for suspected bacterial meningitis. Within several hours of admission, he had spontaneous nonpurposeful movements, was unable to follow verbal commands, and was transferred to a children's hospital intensive care unit (ICU). En route to the ICU, he had a 30-minute right-sided seizure. A CT scan of the head on admission to the ICU showed edema of the midbrain, and cranial magnetic resonance imaging (MRI) demonstrated areas of meningeal enhancement in the brainstem suggestive of meningitis. No organisms were observed on a Gram-stained smear of cerebrospinal fluid (CSF); CSF antigen-detection tests were negative for bacterial pathogens. Fresh preparation of CSF revealed no amebae. CSF red blood cell count was 1,550/mm³ (normal: 0/mm³), white blood cell count was 13,650/mm³ (normal: 0–5/mm³), glucose was <5 mg/dL (normal: 40–70 mg/dL), and protein was 679 mg/dL (normal: 12–60 mg/dL). Follow-up lumbar puncture later the same day revealed motile amebae in a centrifuged CSF specimen. The patient was started on intravenous amphotericin and oral rifampin and ketoconazole.

Approximately 12 hours after admission to the ICU, the patient had apneic episodes and anisocoria and was tracheally intubated. Treatment included hyperventilation, hypertonic sodium chloride infusion, mannitol infusion, and the placement of a ventriculostomy. Despite these efforts, the patient's condition worsened, with progressive neurologic deterioration. On the fourth hospital day, the patient died. A postmortem lumbar puncture demonstrated a few motile amebae.

Autopsy findings revealed acute PAM caused by *N. fowleri* identified by immunofluorescence testing with an *N. fowleri*-specific antibody (Figure). The patient's CSF, which was innoculated on non-nutrient agar plates streaked with *Escherichia coli* (1), yielded amebae identified by immunofluorescence as *N. fowleri*.

Four days before onset of illness, the patient had attended a social event and had swum in a freshwater river with a group of friends in southern Georgia. An epidemiologic investigation was initiated to evaluate risk factors associated with *N. fowleri* infection. Interviews were conducted with 13 of 15 children aged 6-12 years who attended the event and their parents. In addition, an extensive environmental investigation of the site was conducted in conjunction with state and district health departments. Laboratory analysis of river water samples was performed at state public health laboratories and at CDC.

FIGURE. Immunofluoresence staining for *Naegleria fowleri* on brain autopsy tissue



Photo/CDC

Of the 15 children who attended the event, 10 had water exposure in the river despite a sign prohibiting swimming, a posting that was not connected to concern for *N. fowleri*. The maximum exposure time in the water was 2.5 hours (range: 30 minutes–2.5 hours). Water activities included swimming, swimming under water, wrestling in the water, and diving into the water. The patient was one of five children who spent the most time in the water (>2 hours) and engaged in underwater swimming, water wrestling, and diving. He also might have incurred trauma to the face or nose earlier that day during rough play.

The environmental investigation revealed a high ambient temperature (>90° F [>32° C]) and water temperature (91° F [33° C]) in the river at the time of the exposure. In addition, because no recent rainfall had occurred in the region, the river level was low, and the river was flowing slowly. Bacteriologic testing of the river water demonstrated that fecal coliform levels were within acceptable limits. *N. fowleri* was isolated from two of three river water samples tested and from a control sample taken from a local lake.

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Editorial Note: PAM is a rare but nearly always fatal infection caused by N. fowleri, a thermophilic, free-living ameba that inhabits freshwater ponds, lakes, and rivers, minimally chlorinated pools, and hot springs throughout the world (2). PAM results when amebae-contaminated water incidentally enters the nose during swimming or other aquatic activity, followed by migration of amebae to the brain through the olfactory nerve. Symptoms occur 1 day-2 weeks after exposure, are indistinguishable from fulminant bacterial meningitis and can include headache, fever, stiff neck, anorexia, vomiting, altered mental status, seizures, and coma. Death typically occurs 3-7 days after the onset of symptoms (3). Autopsy findings usually show acute hemorrhagic necrosis of the olfactory bulbs and cerebral cortex (4). The disease is extremely rare despite the millions of persons with exposure to recreational water. During 1989–2000, CDC's waterborne disease outbreak surveillance system documented 24 fatal cases of PAM in the United States (5). The majority of these cases occurred during the summer months and among children. Because of the thermophilic nature of N. fowleri, an increased incidence occurs in areas where temperatures are high (6). The case described in this report is the first case of PAM in Georgia since 1987. In 2002, two cases were reported in Texas, two in Arizona, and two in Florida.

Recognition of PAM depends on clinical suspicion based on patient history (Box). CSF findings mimic those of bacterial meningitis, with a predominantly polymorphonuclear leukocytosis and increased protein and decreased glucose concentration. Occasionally, amebae can be observed on Gram-stained smears. If PAM is suspected, a fresh-centrifuged specimen of CSF should be inspected by wet-mount

BOX. Epidemiology, diagnosis, treatment, and prevention of primary amebic meningoencephalitis (PAM) attributed to *Naegleria fowleri*

Epidemiology

- *N. fowleri* is ubiquitous worldwide in warm freshwater bodies, including lakes, ponds, rivers, minimally chlorinated pools, and hot springs.
- Cases of PAM are rare but nearly always fatal.
- A total of 24 cases were reported in the United States during 1989–2000.
- Incubation period is 1–14 days.
- High water temperature and low water depth can lead to increased risk for infection among swimmers in rivers, lakes, and ponds.

Clinical findings

- Symptoms and signs are similar to those of fulminant bacterial meningitis and include headache, fever, stiff neck, anorexia, vomiting, altered mental status, seizures, and coma.
- Death typically occurs in 3–7 days.
- Autopsy findings show acute hemorrhagic necrosis of olfactory bulbs and cerebral cortex.

Laboratory testing

- Wet-mount preparation of fresh-centrifuged specimen of cerebrospinal fluid is recommended.
- Fixation and staining with Giemsa-Wright and modified trichrome stain is recommended.
- Confirmatory testing includes culture or an indirect fluorescent antibody test.

Recommended treatment

- Recommended therapies include intravenous and intrathecal amphotericin B and oral rifampin.
- Intensive supportive care is required.

Prevention and reporting

- Avoid swimming or jumping into bodies of warm fresh water.
- Avoid swimming in thermally polluted water and in areas posted as "no swimming."
- Hold the nose shut or use nose clips when jumping or diving into bodies of fresh water.
- Report cases of *N. fowleri* infection to public health authorities.

preparation and with fixation and staining (7). Confirmation of *N. fowleri* infection requires a culture or an indirect fluorescent antibody test, which is performed at a reference laboratory (8).

Only three survivors of PAM have been documented (9, 10). Successful therapy appeared to be related to early diagnosis and administration of intravenous and intrathecal amphotericin B with intensive supportive care. One surviving patient received intravenous and intrathecal miconazole and oral amphotericin B and rifampin (10).

Little is known about the risk factors for infection with PAM. Although these amebae are ubiquitous in freshwater bodies, high water temperatures and decreased precipitation leading to a low river depth might have contributed to proliferation of amebae in this river, subsequently increasing the risk for infection. In response to this case, the district health department recommended that local community authorities advise persons to avoid swimming in this river during periods of high temperature and low water depth.

Acknowledgments

This report is based on contributions by M Harden, MPA, South Central Health District, Dublin; EA Franko, DrPH, C Daniell, Georgia Div of Public Health. R Sriram, Div of Parasitic Diseases, National Center for Infectious Diseases, CDC.

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West Nile Virus Activity — United States, October 2–8, 2003

This report summarizes West Nile virus (WNV) surveillance data reported to CDC through ArboNET as of 3 a.m., Mountain Daylight Time, October 8, 2003.

During the reporting week of October 2–8, a total of 646 human cases of WNV infection were reported from 27 states (Alabama, Colorado, Delaware, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Massachusetts, Minnesota, Mississippi, Missouri, Nebraska, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Pennsylvania, South Dakota, Texas, Virginia, Wisconsin, and Wyoming) and the District of Columbia, including 21 fatal cases from 13 states (Colorado, Delaware, Georgia, Illinois, Indiana, Iowa, Kentucky, Minnesota, New Jersey, North Dakota, Pennsylvania, Texas, and Virginia). During the same period, WNV infections were reported in 927 dead birds, 546 mosquito pools, 318 horses, one squirrel, and one unidentified animal species.

During 2003, a total of 6,507 human cases of WNV infection have been reported from Colorado (n = 2,090), Nebraska (n = 1,108), South Dakota (n = 863), Texas (n = 379), Wyoming (n = 320), North Dakota (n = 293), Montana (n = 207), New Mexico (n = 184), Pennsylvania (n = 151), Minnesota (n = 121), Iowa (n = 108), Louisiana (n = 84), Ohio (n = 71), Mississippi (n = 53), Kansas (n = 50), New York (n = 49), Oklahoma (n = 46), Missouri (n = 43), Florida (n = 32), Illinois (n = 30), Alabama (n = 29), Georgia (n = 23), Maryland (n = 20), North Carolina (n = 19), New Jersey (n = 19), Indiana (n = 17), Massachusetts (n = 12), Virginia (n = 12), Arkansas (n = 11), Wisconsin (n = 11), Delaware (n = 10), Kentucky (n = 10), Connecticut (n = nine), Tennessee (n = eight), District of Columbia (n = four), Rhode Island (n = three), New Hampshire (n = two), Arizona (n = one), Michigan (n = one), Nevada (n = one), South Carolina (n = one), Utah (n = one), and Vermont (n = one) (Figure). Of 6,419 (99%) cases for which demographic data were available, 3,383 (53%) occurred among males; the median age was 47 years (range: 1 month-99 years), and the dates of illness onset ranged from March 28 to September 29. Of the 6,419 cases, 136 fatal cases were reported from Colorado (n = 38), Nebraska (n = 15), Texas (n = 14), South Dakota (n = eight), Wyoming (n = eight), New York (n = six), Pennsylvania (n = five), Iowa (n = four), Minnesota (n = four), New Mexico (n = four), North Dakota (n = four), Alabama (n = three), Georgia (n = three), Ohio (n = three), Maryland

Human WNV disease and animal WNV activity Animal WNV activity only

FIGURE. Areas reporting West Nile virus (WNV) activity — United States, 2003*

* As of 3 a.m., Mountain Daylight Time, October 8, 2003.

(n = two), Missouri (n = two), Montana (n = two), New Jersey (n = two), Delaware (n = one), Illinois (n = one), Indiana (n = one), Kansas (n = one), Kentucky (n = one), Louisiana (n = one), Michigan (n = one), Mississippi (n = one), and Virginia (n = one). A total of 654 presumptive West Nile viremic blood donors have been reported to ArboNET. Of these, 584 (89%) were reported from the following nine western and midwestern states: Colorado, Kansas, Nebraska, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, and Wyoming. Of the 510 donors for whom data were completely reported, five subsequently had meningoencephalitis, and 72 subsequently had West Nile fever. In addition, 9,882 dead birds with WNV infection were reported from 42 states, the District of Columbia, and New York City; 2,767 WNV infections in horses have been reported from 38 states, 13 WNV infections were reported in dogs, 10 infections in squirrels, and 20 infections in unidentified animal species. During 2003, WNV seroconversions have been reported in 846 sentinel chicken flocks from 13 states. Of the eight seropositive sentinel horses reported, Minnesota reported four; South Dakota, three; and West Virginia, one. In addition, seropositivity was reported from one other unidentified animal species. A total of 6,179 WNV-positive mosquito pools have been reported from 38 states, the District of Columbia, and New York City.

Additional information about WNV activity is available from CDC at http://www.cdc.gov/ncidod/dvbid/westnile/ index.htm and http://www.cindi.usga.gov/hazard/event/ west_nile/west_nile.html.

Notice to Readers

Recommended Adult Immunization Schedule — United States, 2003–2004

In June 2003, the Advisory Committee on Immunization Practices (ACIP) approved the revised Adult Immunization Schedule for 2003–2004. The format has been revised to better represent the schedule's two components, by age group and by medical condition (Figures 1 and 2) and better indicate how the footnotes apply to both figures.

Revisions to the schedule and footnotes include 1) additional information regarding use of tetanus-diphtheria toxoids as prophylaxis in wound management; 2) clarification regarding the number of doses of the measles component of the measles-mumps-rubella vaccine; 3) guidance regarding the use of intranasally administered, live, attenuated influenza vaccine for healthy persons aged 5–49 years; 4) recommendations regarding administering influenza vaccination to pregnant women with or without pre-existing chronic diseases or conditions; and 5) added information regarding influenza and consideration of *Haemophilus influenzae* type b vaccine for asplenic persons.

Two measures initiated by the Centers for Medicare and Medicaid Services (CMS) are expected to increase vaccination among Medicare and Medicaid beneficiaries. First, in 2002, CMS enacted a new regulation allowing for the use of standing orders at Medicare- and Medicaid-participating hospitals, long-term-care facilities, and home-health agencies to deliver influenza and pneumococcal vaccinations (1) as recommended by ACIP (2) and the Task Force on Community Preventive Services (3). Second, CMS increased reimbursement rates for administering hepatitis, influenza, and pneumococcal vaccines from a national average of \$3.98 in 2002 to \$7.72 in 2003 (4). In addition, expansion of the National Committee for Quality Assurance's Health Plan Employer Data and Information Set to include quality indicators on influenza vaccinations for persons aged 50-64 years in 2001 and pneumococcal vaccinations for persons aged ≥ 65 years in 2002 might improve vaccination-delivery services at managedcare organizations (5,6).

Health-care providers are reminded they should administer influenza vaccinations to all persons aged \geq 50 years, regardless of preexisting medical conditions (7). Family physicians, internists, obstetrician/gynecologists, and other providers in private practice are urged to use the Adult Immunization Schedule in conjunction with the Standards for Adult Immunization Practices (8). Evidence indicates that chart reminders,

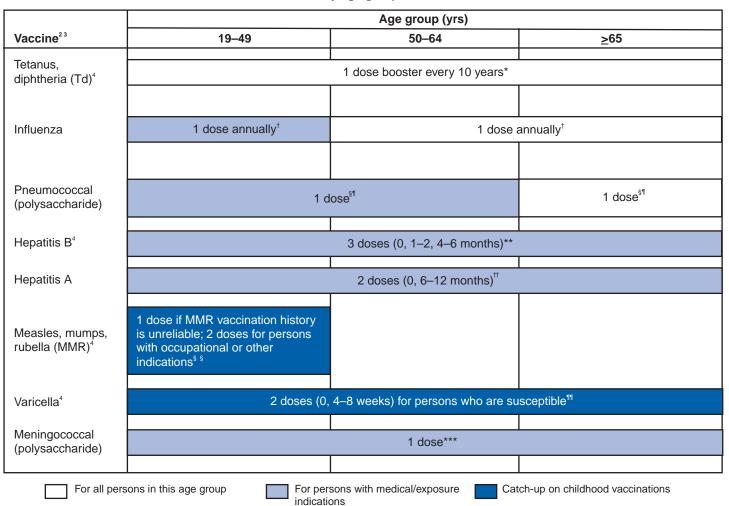


FIGURE 1. Recommended adult immunization schedule, by age group — United States, 2003–2004¹

¹ Approved by the Advisory Committee on Immunization Practices and accepted by the American College of Obstetricians and Gynecologists (ACOG) and the American Academy of Family Physicians (AAFP).

² This schedule indicates recommended age groups for routine administration of currently licensed vaccines for persons aged ≥19 years. Licensed combination vaccines may be used whenever any components of the combination are indicated and the vaccine's other components are not contraindicated. Health-3 care providers should consult manufacturers' package inserts for detailed recommendations.

³Additional information regarding these vaccines and contraindications for vaccination is available from the National Immunization Hotline (telephone, 800-232-2522 [English] or 800-232-0233 [Spanish]) or at http://www.cdc.gov/nip.

⁴ Covered by the Vaccine Injury Compensation Program. Information on how to file a claim is available at http://www.hrsa.gov/osp/vicp or by telephone, 800-338-2382. Vaccine injury claims are filed with U.S. Court of Federal Claims, 717 Madison Place, N.W., Washington, D.C. 20005; telephone, 202-219-9657.

* Tetanus and diphtheria (Td). Adults, including pregnant women with uncertain histories of a complete primary vaccination series, should receive a primary series of Td. A primary series for adults is 3 doses: the first 2 doses administered at least 4 weeks apart and the third dose, 6–12 months after the second. Administer 1 dose if the person received the primary series and the last vaccination was ≥10 years previously. In addition, information is available regarding administration of Td as prophylaxis in wound management (1). The American College of Physicians Task Force on Adult Immunization supports a second option for Td use in adults: a single Td booster at age 50 years for persons who have completed the _full pediatric series, including the teenage/young adult booster.

[†] Influenza vaccination. *Medical indications:* chronic disorders of the cardiovascular or pulmonary systems including asthma; chronic metabolic diseases including diabetes mellitus, renal dysfunction, hemo-globinopathies, or immunosuppression (including immunosuppression

caused by medications or by human immunodeficiency virus [HIV]) requiring medical follow-up or hospitalization during the preceding year; women who will be in the second or third trimester of pregnancy during the influenza season. *Occupational indications:* health-care workers (HCWs). *Other indications:* residents of nursing homes and other long-term-care facilities; persons likely to transmit influenza to persons at high risk (e.g., in-home caregivers to persons with medical indications; household contacts and out-of-home caregivers for children aged ≤ 23 months, or children with asthma or other indicator conditions for influenza vaccination; household members and caregivers for elderly and adults with high-risk conditions); and anyone who wishes to be vaccinated. For healthy persons aged 5–49 years without high-risk conditions, either the inactivated vaccine or the intranasally administered influenza vaccine (FluMistTM) may be administered (*2,3*).

FIGURE 2. Recommended adult immunization schedule, by medical condition — United States, 2003–2004

| | Vaccine | | | | | | | | | | |
|--|---------------------------------|------------------------|--|------------------|------------------------------|--|-------------------------|--|--|--|--|
| Medical condition | Tetanus- diphtheria (Td)* | Influenza [†] | Pneumo- coccal (polysac- charide) ^{§1} | Hepatitis B** | Hepatitis A ^{††} | Measles, mumps, rubella (MMR) ^{§§} | Varicella ¹¹ | | | | |
| Pregnancy | | A | | | | | | | | | |
| Diabetes, heart disease, chronic pulmonary disease, and chronic liver disease, including chronic alcoholism | | В | С | | D | | | | | | |
| Congenital immunodeficiency, leukemia, lymphoma, generalized malignancy, | | | E | | | | ////2//// | | | | |
| therapy with alkylating agents, antimetabolites, radiation, or large amounts of corticosteroids | | | E | | | | | | | | |
| Renal failure/end-stage renal disease and patients receiving hemodialysis or clotting factor concentrates | | | E | G | | | | | | | |
| Asplenia, including elective splenectomy and terminal complement-component | | Н | E,I,J | | | | | | | | |
| deficiencies Human immunodeficiency virus (HIV) infection | | | E,K | | | L | | | | | |

- A. For women without chronic diseases/conditions, vaccinate if pregnancy will be at second or third trimester during influenza season. For women with chronic diseases/conditions, vaccinate at any time during the pregnancy.
- B. Although chronic liver disease and alcoholism are not indicator conditions for influenza vaccination, administer 1 dose annually if the patient is aged >50 years, has other indications for influenza vaccine, or requests vaccination.
- C. Asthma is an indicator condition for influenza but not for pneumococcal vaccination.
- D. For all persons with chronic liver disease.
- E. For persons aged <65 years, revaccinate once after ≥5 years have elapsed since initial vaccination.
- F. Persons with impaired humoral but not cellular immunity may be vaccinated (9).
- G. For hemodialysis patients use special formulation of vaccine (40 µg/mL) or two 1.0 mL 20 µg doses administered at one site. Vaccinate early in the course of renal disease. Assess antibody titers to hepatitis B surface antigen (anti-HBs) levels annually. Administer additional doses if anti-HBs levels decline to ≤10 mIU/mL.
- H. No data have been reported specifically on risk for severe or complicated influenza infections among persons with asplenia. However, influenza is a risk factor for secondary bacterial infections that might cause severe disease in asplenics.
- I. Administer meningococcal vaccine and consider Haemophilus influenzae type b vaccine.
- J. In the event of elective splenectomy, vaccinate >2 weeks before surgery.
- K. Vaccinate as close to diagnosis as possible when CD4 cell counts are highest.
- L. Withhold MMR or other measles-containing vaccines from HIV-infected persons with evidence of severe immunosuppression.

[§]Pneumococcal polysaccharide vaccination. Medical indications: chronic disorders of the pulmonary system, excluding asthma, cardiovascular diseases, diabetes mellitus, chronic liver diseases (including liver disease as a result of alcohol abuse [e.g., cirrhosis]), chronic renal failure or nephrotic syndrome, functional or anatomic asplenia (e.g., sickle cell disease or splenectomy), immunosuppressive conditions (e.g., congenital immunodeficiency, HIV infection, leukemia, lymphoma, multiple myeloma, Hodgkins disease, generalized malignancy, and organ or bone marrow transplantation), chemotherapy with alkylating agents, antimetabolites, or long-term systemic corticosteroids. *Geographic/other indications:* Alaska Natives and certain American Indian populations. *Other indications:* residents of nursing homes and other long-term–care facilities (4).

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- Revaccination with pneumococcal polysaccharide vaccine. Onetime revaccination after 5 years for persons with chronic renal failure or nephrotic syndrome, functional or anatomic asplenia (e.g., sickle cell disease or splenectomy), immunosuppressive conditions (e.g., congenital immunodeficiency, HIV infection, leukemia, lymphoma, multiple myeloma, Hodgkins disease, generalized malignancy, and organ or bone marrow transplantation), chemotherapy with alkylating agents, antimetabolites, or long-term systemic corticosteroids. For persons aged ≥65 years, one-time revaccination if they were vaccinated ≥5 years previously and were aged <65 years at the time of primary vaccination (4).</p>
- ** Hepatitis B (HepB) vaccine. Medical indications: hemodialysis patients, patients who receive clotting-factor concentrates. Occupational indications: HCWs and public-safety workers who have exposure to blood in the workplace, persons in training in schools of medicine, dentistry, nursing, laboratory technology, and other allied health professions. Behavioral indications: injection-drug users, persons with more than one sex partner during the previous 6 months, persons with a recently acquired sexually transmitted disease (STD), all clients in STD clinics, men who have sex with men (MSM). Other indications: household contacts and sex partners of persons with chronic Hepatitis B virus (HBV) infection, clients and staff of institutions for the developmentally disabled, international travelers to countries with high or intermediate prevalence of chronic HBV infection for >6 months, and inmates of correctional , facilities (5).
- ^{TT} Hepatitis A (HepA) vaccine. For the combined HepA-HepB vaccine, use 3 doses (at 0, 1, and 6 months). *Medical indications:* persons with clotting-factor disorders or chronic liver disease. *Behavioral indications:* MSM, users of injecting and noninjecting illegal drugs. *Occupational indications:* persons working with Hepatitis A virus (HAV)-infected primates or with HAV in a research laboratory setting. *Other indications:* persons traveling to or working in countries that have high or intermediate on endemicity of HAV (6).
- Measles, Mumps, Rubella (MMR) vaccination. Measles component: adults born before 1957 might be considered immune to measles. Adults born in or after 1957 should receive at least 1 dose of MMR unless they have a medical contraindication, documentation of at least 1 dose, or other acceptable evidence of immunity. A second dose of MMR is recommended for adults who 1) were exposed recently to measles or were in an outbreak setting, 2) were previously vaccinated with killed measles vaccine, 3) were vaccinated with an unknown vaccine during 1963–1967, 4) are students in postsecondary educational institutions, 5) work in health-care facilities, or 6) plan to travel internationally. Mumps component: 1 dose of MMR should be adequate for protection. Rubella component: Administer 1 dose of MMR to women whose rubella vaccination history is unreliable and counsel women to avoid becoming pregnant for 4 weeks after vaccination. For women of childbearing age, regardless of birth year, routinely determine rubella immunity and counsel women regarding congenital rubella syndrome. Do not vaccinate pregnant women or those planning to become pregnant in the next 4 weeks. If pregnant and susceptible, vaccinate as early in the postpartum period as possible (7). **Varicella vaccination.** Recommended for all persons who do not have ¶¶
- Varicella vaccination. Recommended for all persons who do not have reliable clinical history of varicella infection, or serologic evidence of varicella zoster virus (VZV) infection who might be at high risk for exposure or transmission. This includes HCWs and family contacts of immunocompromised persons, those who live or work in environments where transmission is likely (e.g., teachers of young children, day-care employees, and residents and staff members in institutional settings), persons who live or work in environments where VZV transmission can occur (e.g., college students, inmates and staff members of correctional institutions, and military personnel), adolescents and adults living in households with children, women who are not pregnant but who might become pregnant in the future, and international travelers who are not immune to infection. Do not vaccinate pregnant women or those planning to become pregnant in the next 4 weeks. If a woman is pregnant and susceptible, vaccinate as early in the postpartum period as possible. Approximately 95% of U.S.-born adults are immune to VZV (8.9).
- *** Meningococcal vaccine (quadrivalent polysaccharide for serogroups A, C, Y, and W-135). Consider vaccination for persons with medical indications: adults with terminal complement component deficiencies or with anatomic or functional asplenia. Other indications: travelers to countries where meningitis is hyperendemic or epidemic

(e.g., the "meningitis belt" of sub-Saharan Africa, Mecca, or Saudi Arabia). Revaccination at 3–5 years may be indicated for persons at high risk for infection (e.g., persons residing in areas in which disease is epidemic). Counsel college freshmen, particularly those who live in dormitories, regarding meningococcal disease and the vaccine so that they can make an educated decision about receiving the vaccination (10). The American Academy of Family Physicians recommends that colleges provide education on meningococcal infection and vaccination and offer it to those who are interested. Physicians need not initiate discussion of the meningococcal quadrivalent polysaccharide vaccine as part of routine medical care.

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patient reminders/recalls, and standing orders will reduce missed opportunities to vaccinate (9,10).

General information regarding adult immunization and vaccinating immunosuppressed persons can be obtained from state and local health departments and from CDC's National Immunization Program at http://www.cdc.gov/nip. The 2003–2004 Adult Immunization Schedule is available at http:// www.cdc.gov/nip/recs/adult-schedule.htm. Vaccine information statements are available at http://www.cdc.gov/nip/publications/vis. ACIP statements for each recommended vaccine are available at http://www.cdc.gov/nip/publications/acip-list.htm. In addition, instructions for reporting adverse events

after vaccination to the Vaccine Adverse Event Reporting System are available at http://www.vaers.org or by telephone, 800-822-7967.

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Notice to Readers

National Adult Immunization Awareness Week, October 12–18, 2003

This year's National Adult Immunization Awareness Week (NAIAW) will be observed October 12–18. NAIAW highlights the influenza vaccination season, which typically begins in early fall of each year. NAIAW emphasizes the need for health-care providers and public health officials to intensify their efforts to vaccinate adults and adolescents according to recommendations of the Advisory Committee on Immunization Practices. In addition to specifying the appropriate use of influenza and pneumococcal vaccines for adults and adolescents, the recommendations cover vaccination of adults and adolescents against diphtheria, hepatitis A and B, measles, mumps, rubella, tetanus, meningococcal disease, and varicella.

In conjunction with NAIAW, CDC is introducing Immunize Now, a tool kit designed to assist doctors and nurses in minimizing staff time and maximizing patient care during their influenza vaccination efforts. The kit highlights new developments in influenza vaccination and contains bilingual patient education materials.

Additional information about influenza, the influenza vaccine, the Immunize Now provider tool kit, and other influenza education materials is available at http://www.cdc.gov/ nip/flu. Information about NAIAW is available from the National Foundation for Infectious Diseases, the National Coalition for Adult Immunization, 4733 Bethesda Avenue, Suite 750, Bethesda, MD 20814; telephone, 301-656-0003; fax, 301-907-0878; e-mail, jhan@nfid.org; and the National Partnership for Immunization, 121 North Washington Street, Suite 300, Alexandria, VA 22314, telephone, 703-836-6110, fax, 703-836-3470, e-mail, npi@hmhb.org. Information about NAIAW also is available at http://www.nfid.org, http:// www.partnersforimmunization.org and at http:// www.cdc.gov/nip/events/naiaw/default.htm.

Notice to Readers

Revised Standards for Adult Immunization Practices and Child and Adolescent Immunization Practices, 2003

During the 1990s, two sets of standards were introduced to guide delivery of vaccinations for adults and children: Standards for Adult Immunization Practices, developed by the National Coalition for Adult Immunization in 1990, and Standards for Pediatric Immunization Practices, developed by the National Vaccine Advisory Committee (NVAC) in 1992. Under the leadership of NVAC, both sets of standards have been revised to reflect changes in the health-care delivery system, new tools and strategies for supporting vaccination providers, growing recognition of the importance of adolescent vaccination, and an increasing emphasis on improving communications regarding vaccine benefits and risks. Key partners and stakeholders contributed to the revisions, and leading medical and public health organizations have endorsed them.

The revised standards focus on making vaccines readily accessible; properly assessing patient vaccination status; effectively communicating with patients; ensuring proper storage, administration, and documentation; implementing strategies to improve vaccination rates; and developing community partnerships to reach target patient populations. Concise explanations of each of the standards describe how to implement them.

The intended audience for both sets of standards includes health-care providers, public health officials, policymakers, health-plan administrators, and employers who purchase health-care coverage. By applying these standards, health-care professionals can begin to develop a comprehensive plan to improve vaccination delivery in their practices, protect their patients from vaccine-preventable diseases, and help achieve the national health objectives for 2010 (1). In addition, health-care providers and program managers who lack the resources to implement these standards should find them useful for defining and obtaining the necessary resources. Both standards have been published (2,3); they also are available at http://www.cdc.gov/nip/recs/rev-immz-stds.htm.

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Errata: Vol. 52, Nos. 35 and 36

In Table III, "Deaths in 122 U.S. cities, week ending August 30, 2003 (35th Week)") on page 855, mortality incidence data were incorrect for all causes of death by age group and total deaths caused by pneumonia and influenza for Portland, Oregon. The corrected mortality data are as follows: all causes by all ages, 114; all causes age \geq 65 years, 90; all causes ages 45–64 years, 15; all causes ages 25–44 years, 8; all causes ages 1–24 years, 1; all causes age <1 year, 0; and P&I Total, 9. Data for the Pacific region and overall Total have been updated. Corrected data are available at http://wonder.cdc.gov/mmwr/ mmwrmort.asp.

In Table III, "Deaths in 122 U.S. cities, week ending September 6, 2003 (36th Week)" on page 879, mortality incidence data were not updated for week 36, and week 35 data were repeated. Corrected data are available at http:// wonder.cdc.gov/mmwr/mmwrmort.asp.

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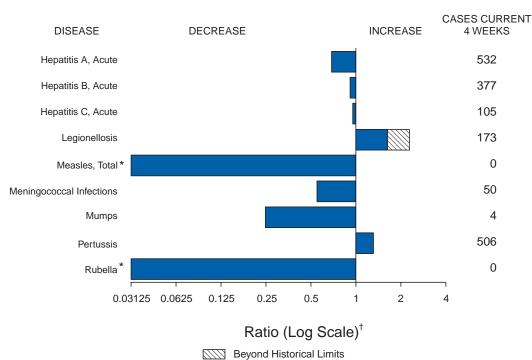
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FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals October 4, 2003, with historical data



* No measles or rubella cases were reported for the current 4-week period yielding a ratio for week 40 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.

| TABLE I. Summary of provisional cases of selected notifiable diseases | United States c | cumulative week ending | n October 4, 2003 (40th Week)* |
|--|---------------------|------------------------|--------------------------------|
| TABLE I. Sullimary of provisional cases of selected notinable diseases | s, united States, c | cumulative, week chum | |

| | Cum. 2003 | Cum. 2002 | | Cum. 2003 | Cum. 2002 |
|---|--------------|--------------|---|--------------|--------------|
| Anthrax | - | 2 | Hansen disease (leprosy)† | 44 | 68 |
| Botulism: | - | - | Hantavirus pulmonary syndrome [†] | 15 | 15 |
| foodborne | 9 | 24 | Hemolytic uremic syndrome, postdiarrheal [†] | 110 | 161 |
| infant | 40 | 52 | HIV infection, pediatric ^{†§} | 151 | 126 |
| other (wound & unspecified) | 21 | 13 | Measles, total | 40¶ | 26** |
| Brucellosis [†] | 60 | 91 | Mumps | 145 | 211 |
| Chancroid | 34 | 55 | Plague | 1 | - |
| Cholera | 1 | 1 | Poliomyelitis, paralytic | - | - |
| Cyclosporiasis [†] | 53 | 148 | Psittacosis [†] | 12 | 13 |
| Diphtheria | - | 1 | Q fever [†] | 57 | 45 |
| Ehrlichiosis: | - | - | Rabies, human | - | 3 |
| human granulocytic (HGE) [†] | 242 | 232 | Rubella | 7 | 16 |
| human monocytic (HME)† | 131 | 154 | Rubella, congenital | - | 1 |
| other and unspecified | 28 | 17 | Streptococcal toxic-shock syndrome [†] | 122 | 92 |
| Encephalitis/Meningitis: | - | - | Tetanus | 11 | 17 |
| California serogroup viral [†] | 50 | 115 | Toxic-shock syndrome | 102 | 82 |
| eastern equine [†] | 7 | 2 | Trichinosis | 2 | 13 |
| Powassan [†] | - | 1 | Tularemia ⁺ | 59 | 63 |
| St. Louis [†] | 12 | 17 | Yellow fever | - | - |
| western equine [†] | - | - | | | |

-: No reported cases.

Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date). t

Not notifiable in all states.

[§] Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update August 24, 2003.

Of 40 cases reported, 32 were indigenous, and eight were imported from another country.

** Of 26 cases reported, 13 were indigenous, and 13 were imported from another country.

| Horizant Charm Conv. Conv. | (40th Week)* | | | | | | | | | Encephalitis/Meningitis | | |
|---|----------------|-----|-------|--------|--------------------|----------|-----------|----------|-----------|-------------------------|--------|--|
| Reporting area 2003 2003 2003 2004 2005 2003 | | AIC | os | Chla | mydia [†] | Coccidio | domycosis | Cryptosp | oridiosis | | | |
| UNITED STATES 30,282 623,561 633,464 2,864 3,442 2,271 2,334 1,008 2,041 NEW KNOLAND 989 1,233 20,769 20,559 N 139 15 - </th <th>Reporting area</th> <th></th> | Reporting area | | | | | | | | | | | |
| NEW ENGLAND 989 1.233 20.751 20.960 - - 130 159 - 25 NH 24 22 1.023 1.274 N N 11 22 - - Mass. 23 0.22 1.023 1.274 N N 11 22 - - Mass. 23 0.22 2.168 2.004 - - 12 16 - - Conn. 416 458 6.537 7.341 N N 12 14 - - 7 MD.ATLAYTIC 6.726 7.109 84.033 70.866 - - 267 15 8 225 N.L. 1.159 1.03.89 10.790 - 1601 704 68 1.182 Conn 555 6563 2.226 2.4661 7 19 101 707 656 161 33 32 22 | | | | • | • | | • | 1 | | | | |
| N.H. 24 25 1.023 1.211 - - 11 26 - - - - 10 20 - - - 10 20 - - - 10 20 - - 10 20 10 - - 10 20 10 41 - - 10 20 10 44 - - 10 20 10 44 - - 10 20 10 44 - 7 7 10 10 44 - 7 10 10 44 - 22 10 11 70 60 11 22 10 11 10 46 11 11 11 10 10 11 10 10 11 10 11 10 10 11 10 11 11 11 10 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 1 | NEW ENGLAND | 989 | 1,233 | 20,751 | 20,960 | - | - | 130 | 159 | | | |
| vt. 13 12 760 966 - - 27 27 - - Mass. 406 622 777 8.364 - - 50 66 - - 67 Conr. 416 458 8.537 7.341 N N 12 141 - 7 MD,ATLANTC 6783 537 15.018 12.784 N N 965 121 - 222 N.C. 7.990 4.203 24.783 8.23.80 - - 65 121 - 265 N.C. 1.994 1.114 10.391 10.790 N N 103 82 24 Chin 3.285 24.482 27.145 - 2 67 101 702 68 177 II.d. 1.348 1.553 30.842 37.145 - 2 57 167 - 550 Min. | | | | | | | | | | - | - | |
| R.I. 79 82 2.198 2.094 - - 12 16 - | Vt. | 13 | 12 | 780 | 696 | | | 27 | 27 | - | - | |
| | | 79 | 82 | 2,198 | 2,094 | - | - | 12 | 16 | - | - | |
| Upsate NY. 683 537 15,018 12,784 N N 96 91 - 22 NX.Chy 3,380 44,738 23,380 - - 65 121 - 28 EN.CENTRAL 2,925 3,885 124,479 17,7289 - - 611 77 82 141 Chio 555 3,885 124,715 3,113 N N 171 150 68 1,192 Ind. 3,348 15,53 30,442 37,145 - 2 57 104 - 550 Mich. 506 513 35,336 35,736 1 1 443 352 241 67 Now 63 53 35,336 57,786 N N 163 2,267 4 450 - 450 - 450 - 450 - - 450 - - 450 - - 450< | | | | | | | | | | | | |
| N.Y. Chy 3.390 4.203 24.738 23.80 - - 65 121 - 22 Pa. 1.144 10.306 10.780 - - 65 121 - 22 Pa. 1.144 13.344 33.391 23.371 N N N 100 78 52 14 Onio 593 653 12.463 33.881 N N 11 106 68 1.182 Mich. 506 503 23.326 24.861 7 19 101 97 - 386 W.N. CENTRAL 508 503 23.326 24.861 7 19 101 97 - 386 W.N. CENTRAL 508 503 25.330 35.788 1 1 44.342 32.22 24.1 67 - 13 14 14 161 4.10 - - 100.00 15 8.2 2.2 2.4 2.2 2.3 1.4 1.3 1.3 1.4 1.4 1.4 1.4 <td></td> <td></td> <td>537</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>100</td> <td></td> | | | 537 | | | | | | | 100 | | |
| Pa. 1.484 1.344 3.3991 2.3.971 N N 100 78 92 14 DNICTRAL 2.925 3.2255 102.719 117.289 7 2.1 601 794 68 1.162 DNIO 555 6421 12.715 31.113 N N 73 36 - 177 III. 1.3.48 1.553 3.0.422 37.146 - 2 57 104 - 550 WIS. 1.58 1.646 5.0.85, 788 1 1 4.457 1.252 241 67 WIN. 1.63 1.63 5.0.85, 788 1 1 4.179 1.0 1.0 78 9.0 - - 3.33 2.2 2.2 2.4 4.160 N.0 N.0 N.0 N.0 1.0 | | | 4,203 | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Mich. 506 503 23,236 24,861 7 19 101 97 - 398 Wis. 536 503 53,390 35,796 1 1 434 325 241 67 Minn. 110 114 7,805 8,005 N N 117 161 40 - Iowa 63 63 2,676 4,150 N N 86 37 39 - Mo. 26 13,348 12,160 - - 33 32 22 24 N.Dak. 2 1 382 337 N N 1210 5 - S.Dat 3 44 2.053 N N 138 14 61 44 S.ATLANTIC 8,562 9,260 12,074 12,300 N N 4 3 7 - 13 D.C. 765 4,403 2,159 | | | | | | | | | | - 68 | | |
| Wis. 138 150 11,464 13,082 - - 259 455 - 46 Mino. 163 63 766 8,005 N N N17 161 400 - Mox. 266 226 13,348 12,150 - - 33 32 22 24 NDak. 2 1 982 933 N N 121 05 - - S.Dat. 39 44 2.062 9320 N N 131 74 66 15 Kans. 74 51 5.207 75.269 N N 138 14 61 74 S.ATLANTIC 8.582 9.280 12.077 12.306 4 3 18 14 41 18 D.C. 765 453 2.169 2.033 - 14 4 - - - 14 44 16 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | | | | | | | |
| $\begin{array}{l c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | | - | | |
| lowa 63 63 2,676 4,150 N N 66 37 39 - N. Dak. 2 1 982 933 N N 12 10 5 - N. Dak. 2 4 9.44 3,269 3,664 1 1 17 44 36 25 Kans. 74 51 5,307 5,269 N N 138 14 61 4 S,ATLANTIC 8,582 9,260 120,074 119,334 4 3 271 241 88 47 Del. 176 155 2,266 20,30 - - 14 4 - - - 14 4 - - - 100 11,913 19,868 N N 4 3 7 - - 1 10 1 14 1 1 1 1 1 1 1 1 | | | | | | | | | | | 67 | |
| N Dak. 2 1 982 933 N 12 10 5 | Iowa | 63 | 63 | 2,676 | 4,150 | | | 86 | 37 | 39 | - | |
| S. Dak. 9 4 2.003 1.627 - 31 27 38 14 Kans. 74 51 5.307 5.269 N N 138 14 61 4 Kans. 74 51 5.307 5.269 N N 138 14 61 4 S. ATLANTIC 8.52 9.206 120.074 119.334 4 3 71 241 88 47 Del. 176 155 2.286 2.030 N N 43 18 14 4 - - - 144 44 - - - - 15 13 6 - - - 144 18 16 - - - 35 13 6 - - - 16 16 16 16 16 16 16 16 114 16 - - - 16 16 - - 16 16 16 16 16 16 16 16 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | | | | | |
| Kans. 74 51 5.307 5.269 N N 138 14 61 4 S.ATLANTIC 8.582 9.260 120.074 119.334 4 3 271 241 88 47 Del. 176 155 2.286 2.030 N N 4 3 18 18 14 - - Md. 994 1.406 12.727 12.306 4 3 18 18 14 - - - 134 4 - - - 136 14 1 15 - - 140 14 - - - 3 6 1 1 1 - - 3 6 1 1 1 6 - - - 3 6 1 1 1 1 1 5 7 3 1 - - 1 1 3 - - </td <td>S. Dak.</td> <td>9</td> <td></td> <td>2,003</td> <td>1,627</td> <td>-</td> <td>-</td> <td>31</td> <td>27</td> <td>38</td> <td></td> | S. Dak. | 9 | | 2,003 | 1,627 | - | - | 31 | 27 | 38 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | | |
| | | | | | | | | | | | - | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | W. Va. | 61 | 71 | 1,916 | 1,886 | Ν | Ν | 4 | 2 | - | 1 | |
| Ga. 1,369 1,363 25,284 24,4509 - - 82 95 25 20 Fla. 3,142 3,806 30,974 32,365 N N 75 72 35 7 E.S. CENTRAL 1,306 1,450 40,057 40,631 N N 97 106 24 248 Ky. 111 252 6,222 6,758 N N 21 5 7 31 Ala. 308 298 9,470 12,520 - - 35 44 10 29 WS. CENTRAL 3,128 3,309 76,792 83,363 - 10 48 53 215 387 Ark. 127 191 5,871 5,831 - - 14 7 1 9 La. 414 808 12,877 14,775 N N 11 13 3 - Molt. 11 9 1,364 1,696 N N 11 13 14 | | | | | | | | | | | - 1 | |
| E.S.CENTRAL1,3061,45040,05740,631NN9710624248Ky.1112526,2226,758NN215731Tenn.57560215,37112,370NNN325071Ala.3082989,947012,52035441029Miss.3122988,9948,983NN97-187W.S.CENTRAL3,1283,30976,79283,363-104853215387Ark.1271915,8715,831147119La.1541559,0838,688NN111313-Tex.2,4332,15548,96354,069-102124189184MOUNTAIN1,1521,02934,62739,2421,9592,1821131272681Mont.1191,3641,696NN174206-Idaho17241,83210,772NN2846Vio.2962118,32910,772NN2846Colo.2962118,32910,772NN2846< | | | | 25,284 | 24,509 | | | | | | | |
| Ky.111252 $6,222$ $6,758$ NN215731Ala.3082989,47012,52035441029Miss.3122988,9948,983NN97-187Miss.3122988,9948,883-NN97-187Miss.3122988,9948,883-NN97-187Ark.1271915,8715,831147119La.41480812,87514,775NN111313-Tex.2,4332,15548,96354,069-102124189184MOUNTAIN1,1521,02934,62739,2421,9592,1821131272681Idaho17241,8601,832NN174206Vio.2962118,32910,772NN2846Ariz.4904339,88011,6921,314511Nev.1932274,1274,6002833741Nev.1932274,1274,6002833741 <td></td> | | | | | | | | | | | | |
| Ala. 308 298 9,470 12,520 - - 35 44 10 29 Miss. 312 298 8,994 8,983 N N 9 7 - 187 WS. CENTRAL 3,128 3,309 76,792 83,363 - 10 48 53 215 387 Ark. 127 191 5,871 5,831 - - 14 7 11 9 La. 414 808 12,875 14,775 N N 2 9 2 194 Ckla. 154 155 9,083 8,688 N N 11 13 13 - Tex. 2,433 2,155 48,963 54,069 - 10 21 24 189 184 MOUNTAIN 1,152 1,029 34,627 39,242 N N 26 24 - 1 Kohon 17 24 1,860 1,832 N N 26 24 - <td< td=""><td>Ky.</td><td>111</td><td>252</td><td>6,222</td><td>6,758</td><td>N</td><td>N</td><td>21</td><td>5</td><td>7</td><td>31</td></td<> | Ky. | 111 | 252 | 6,222 | 6,758 | N | N | 21 | 5 | 7 | 31 | |
| W.S. CENTRAL3,1283,30976,79283,363-104853215387Ark.1271915,8715,831147119La.41480812,87514,775NN292194Okla.1541559,0838,688NN111313-Tex.2,4332,15548,96354,069-102124189184MOUNTAIN1,1521,02934,62739,2421,9592,1821131272681Mont.1191,3641,696NNN174206-Idaho17241,8801,832NN2624-1Vyo.687397041-4958-Colo.2962118,32910,772NN2846Nikx.92655,0525,7475710182Nex.1932274,1274,6002833741Nev.1932274,1274,6002833741Nev.1932274,1274,6002833741Nev.< | | 308 | 298 | 9,470 | 12,520 | - | - | 35 | 44 | | | |
| Ark.127191 5.871 5.831 147119La.41480812.87514.775NN292194Okla.1541559.0838.688NN111313-Tex.2.4332.15548.96354.069-102124189184MOUNTAIN1.1521.02934.62739.2421.9592.1821131272681Mont.1191.3641.696NN174206Idaho17241.8801.832NN2624-1Wyo.687397041-4958-Colo2962118.32910.772NN2846Ariz.4904339.88011.6921.9142.131511Nex.92655.0525.7475710182Nev.1932274.1274.6002833741Nev.1932274.1274.6002833741PACIFIC4.8984.084109.098105.9728921.2242902244Vash.311 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> | | | | | | | | | | - | | |
| La. 414 808 12,875 14,775 N N 2 9 2 194 Okla. 154 155 9,083 8,688 N N 11 13 13 - Tex. 2,433 2,155 48,963 54,069 - 10 21 24 189 184 MOUNTAIN 1,152 1,029 34,627 39,242 1,959 2,182 113 127 268 1 Mont. 11 9 1,364 1,696 N N 17 4 206 - Wyo. 6 8 739 704 1 - 4 9 58 - Colo. 296 211 8,329 10,772 N N 28 46 - - Ariz. 490 433 9,880 11,692 1,914 2,131 5 11 - - Nev. 193 227 4,127 4,600 28 3 7 4 1 - | | | | | | | | | | | | |
| Tex. 2,433 2,155 48,963 54,069 - 10 21 24 189 184 MOUNTAIN 1,152 1,029 34,627 39,242 1,959 2,182 113 127 268 1 Mont. 11 9 1,364 1,696 N N 17 4 206 - Wyo. 6 8 739 704 1 - 4 9 58 - Colo. 296 211 8,329 10,772 N N 28 46 - - N.Mex. 92 65 5,052 5,747 5 7 10 18 2 - Utah 47 52 3,256 2,199 11 11 16 11 1 - Nev. 193 227 4,127 4,600 28 33 7 4 1 - Vash. 311 381 12,538 11,193 N N 43 28 - - | | | | 12,875 | | | | | | | 194 | |
| Mont. 11 9 1,364 1,696 N N 17 4 206 - Idaho 17 24 1,880 1,832 N N 26 24 - 1 Wyo. 6 8 739 704 1 - 4 9 58 - Colo. 296 211 8,329 10,772 N N 28 46 - - N.Mex. 92 65 5,052 5,747 5 7 10 18 2 - Ariz. 490 433 9,880 11,692 1,914 2,131 5 11 - - Vtah 47 52 3,256 2,199 11 11 16 11 1 - Nev. 193 227 4,127 4,600 28 33 7 4 1 - PACIFIC 4,898 4,084 109,098 105,972 892 1,224 290 224 4 - | | | | | | - | | | | | 184 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | 1 | |
| Colo. 296 211 8,329 10,772 N N 28 46 - - N.Mex. 92 65 5,052 5,747 5 7 10 18 2 - Ariz. 490 433 9,880 11,692 1,914 2,131 5 11 - - Utah 47 52 3,256 2,199 11 11 16 11 1 - Nev. 193 227 4,127 4,600 28 33 7 4 1 - PACIFIC 4,898 4,084 109,098 105,972 892 1,224 290 224 4 - Oreg. 184 259 4,996 5,103 - - 33 35 4 - Calif. 4,319 3,335 86,132 83,437 892 1,224 213 159 - - - - < | Idaho | 17 | 24 | 1,880 | 1,832 | | | 26 | 24 | - | - 1 | |
| N. Mex.92655,0525,7475710182-Ariz.4904339,88011,6921,9142,131511Utah47523,2562,199111116111-Nev.1932274,1274,6002833741-PACIFIC4,8984,084109,098105,9728921,2242902244-Wash.31138112,53811,193NN4328Oreg.1842594,9965,10333354-Calif.4,3193,33586,13283,4378921,224213159Hawaii71872,6783,4362Guam61-506P.R.7879131,4751,954NNNNN <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>- N</td><td></td><td></td><td></td><td>-</td></td<> | | | | | | | - N | | | | - | |
| Utah 47 52 3,256 2,199 11 11 16 11 1 1 Nev. 193 227 4,127 4,600 28 33 7 4 1 - PACIFIC 4,898 4,084 109,098 105,972 892 1,224 290 224 4 - Wash. 311 381 12,538 11,193 N N 43 28 - - Oreg. 184 259 4,996 5,103 - - 33 35 4 - Calif. 4,319 3,335 86,132 83,437 892 1,224 213 159 - - Alaska 13 22 2,754 2,803 - - 1 - - - Hawaii 71 87 2,678 3,436 - - - 2 - - Guam 6 1 - 506 - - - - - - - <td>N. Mex.</td> <td>92</td> <td>65</td> <td>5,052</td> <td>5,747</td> <td>5</td> <td>7</td> <td>10</td> <td>18</td> <td>2</td> <td>-</td> | N. Mex. | 92 | 65 | 5,052 | 5,747 | 5 | 7 | 10 | 18 | 2 | - | |
| PACIFIC 4,898 4,084 109,098 105,972 892 1,224 290 224 4 - Wash. 311 381 12,538 11,193 N N 43 28 - - Oreg. 184 259 4,996 5,103 - - 33 35 4 - Calif. 4,319 3,335 86,132 83,437 892 1,224 213 159 - - Alaska 13 22 2,754 2,803 - - 1 - - - Hawaii 71 87 2,678 3,436 - - 2 - - Guam 6 1 - 506 - | | 47 | 52 | 3,256 | 2,199 | 11 | 11 | 16 | 11 | - 1 | - | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | - | |
| Oreg. 184 259 4,996 5,103 - - 33 35 4 - Calif. 4,319 3,335 86,132 83,437 892 1,224 213 159 - - - Alaska 13 22 2,754 2,803 - - 1 - - - - - Hawaii 71 87 2,678 3,436 - - 1 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td>-</td> | | | | | | | | | | 4 | - | |
| Alaska 13 22 2,754 2,803 - - 1 - | Oreg. | 184 | 259 | 4,996 | 5,103 | - | - | 33 | 35 | 4 | - | |
| Guam 6 1 - 506 - <td>Alaska</td> <td>13</td> <td>22</td> <td>2,754</td> <td>2,803</td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> | Alaska | 13 | 22 | 2,754 | 2,803 | | | | - | - | - | |
| P.R. 787 913 1,475 1,954 N N N - | | | | 2,678 | | - | - | - | 2 | - | - | |
| Amer. Samoa U <th< td=""><td></td><td>787</td><td>913</td><td></td><td>1,954</td><td>N</td><td>N</td><td>N</td><td>N</td><td>-</td><td>-</td></th<> | | 787 | 913 | | 1,954 | N | N | N | N | - | - | |
| | V.I. | 25 | 65 | 142 | 125 | - | - | - | - | - | - | |
| | | | | - | | - | | - | | - | | |

N: Not notifiable.

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. * Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date). † Chlamydia refers to genital infections caused by *C. trachomatis.* § Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update August 31, 2003. ¶ Contains data reported through National Electronic Disease Surveillance System (NEDSS).

MMWR

| (40th Week)* | | Fachar | ichic coli Ento | | | | | | | |
|------------------------|--------------|--------------|--|--------------|--------------|--------------|--------------|--------------|------------------|------------------|
| | | Escher | <i>ichia coli</i> , Ente Shiga toxi | n positive, | Shiga toxi | n positive. | | | | |
| | O15 | 57:H7 | - | o non-0157 | not sero | | Gia | rdiasis | Gon | orrhea |
| Reporting area | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 |
| UNITED STATES | 1,774 | 2,840 | 173 | 148 | . 113 | 34 | 13,088 | 15,579 | 237,210 | 269,705 |
| NEW ENGLAND | 113 | 219 | 27 | 39 | 14 | 4 | 956 | 1,401 | 5,444 | 5,890 |
| Maine N.H. | 10 11 | 30 28 | - 2 | 6 | 1 - | - | 136 21 | 161 34 | 149 76 | 107 98 |
| Vt. Mass. | 14 48 | 8 105 | - 3 | 1 17 | - 13 | - 4 | 95 445 | 103 762 | 64 2,308 | 80 2,538 |
| R.I. | 1 | 10 | - | 1 | - | - | 84 | 124 | 745 | 676 |
| Conn. MID. ATLANTIC | 29 | 38 | 22 13 | 14 1 | - | - | 175 | 217 | 2,102 | 2,391 |
| Upstate N.Y. | 186 75 | 310 133 | 9 | - | 27 13 | 6 | 2,573 762 | 3,186 911 | 32,380 5,906 | 32,468 6,590 |
| N.Y. City N.J. | 5 14 | 14 52 | - | - | - | - 1 | 832 268 | 1,161 367 | 9,781 6,031 | 9,711 5,936 |
| Pa. | 92 | 111 | 4 | 1 | 14 | 5 | 711 | 747 | 10,662 | 10,231 |
| E.N. CENTRAL Ohio | 403 81 | 692 117 | 19 14 | 28 9 | 17 16 | 4 3 | 2,106 695 | 2,715 693 | 46,128 13,308 | 56,867 16,640 |
| Ind. | 73 | 54 | - | 1 | - | - | - | - | 5,007 | 5,617 |
| III. Mich. | 82 63 | 161 112 | - | 6 3 | - | - 1 | 534 552 | 762 715 | 13,981 9,954 | 18,697 11,188 |
| Wis. | 104 | 248 | 5 | 9 | 1 | - | 325 | 545 | 3,878 | 4,725 |
| W.N. CENTRAL Minn. | 303 104 | 400 139 | 31 18 | 27 23 | 23 1 | 4 | 1,464 555 | 1,569 615 | 12,426 2,179 | 13,825 2,423 |
| Iowa | 68 | 97 | - | - | - | - | 210 | 242 | 607 | 953 |
| Mo. N. Dak. | 65 8 | 54 4 | 8 | - | 2 9 | - | 379 24 | 370 14 | 6,376 42 | 6,873 58 |
| S. Dak. Nebr. | 21 15 | 35 45 | 4 1 | 1 3 | - | - | 57 89 | 60 128 | 170 1,083 | 196 1,185 |
| Kans. | 22 | 26 | - | - | 11 | 4 | 150 | 140 | 1,969 | 2,137 |
| S. ATLANTIC Del. | 116 4 | 221 8 | 55 N | 27 N | 8 N | N | 2,052 34 | 2,248 44 | 59,596 885 | 68,472 1,217 |
| Md. | 10 | 24 | - | - | - | - | 86 | 98 | 6,059 | 6,943 |
| D.C. Va. | 1 32 | 49 | - 8 | - 7 | - | - | 37 250 | 32 223 | 1,734 5,824 | 2,034 7,948 |
| W.Va. N.C. | 3 4 | 7 36 | 21 | - | - | - | 33 N | 45 N | 655 11,389 | 747 12,407 |
| S.C. | - | 5 | - | - | - | - | 82 | 111 | 6,712 | 7,094 |
| Ga. Fla. | 24 38 | 38 54 | 3 23 | 7 13 | - 8 | - | 711 819 | 716 979 | 12,665 13,673 | 13,435 16,647 |
| E.S. CENTRAL | 63 | 91 | 2 | - | 7 | 9 | 260 | 298 | 19,619 | 23,428 |
| Ky. Tenn. | 22 25 | 27 38 | 2 | - | 7 | 9 | N 124 | N 133 | 2,757 6,363 | 2,885 7,213 |
| Ala. | 13 | 17 | - | - | - | - | 136 | 165 | 5,962 | 8,026 |
| Miss. W.S. CENTRAL | 3 67 | 9 96 | - | - | - 12 | - 3 | - 222 | - 190 | 4,537 31,901 | 5,304 37,487 |
| Ark. | 8 | 9 | - | - | - | - | 115 | 132 | 3,067 | 3,668 |
| La. Okla. | 3 22 | 4 19 | - | - | - | - | 5 102 | 4 52 | 7,819 3,710 | 9,164 3,701 |
| Tex. | 34 | 64 | 1 | - | 12 | 3 | - | 2 | 17,305 | 20,954 |
| MOUNTAIN Mont. | 234 12 | 283 25 | 22 | 20 | 5 | 4 | 1,194 84 | 1,230 74 | 7,460 73 | 8,568 75 |
| Idaho | 53 | 36 | 15 | 10 | - | - | 152 | 94 | 57 | 66 |
| Wyo. Colo. | 2 57 | 12 85 | - 3 | 2 5 | - 5 | - 4 | 17 339 | 25 403 | 33 1,997 | 49 2,686 |
| N. Mex. Ariz. | 11 25 | 8 31 | 3 N | 3 N | N | N | 36 202 | 123 150 | 819 2,702 | 1,138 2,881 |
| Utah | 56 | 62 | - | - | - | - | 272 | 246 | 330 | 214 |
| Nev. PACIFIC | 18 289 | 24 528 | 1 3 | - 6 | - | - | 92 2,261 | 115 2,742 | 1,449 22,256 | 1,459 22,700 |
| Wash. | 78 | 118 | 1 | - | - | - | 235 | 312 | 2,107 | 2,217 |
| Oreg. Calif. | 79 122 | 181 189 | 2 | 6 | - | - | 309 1,588 | 341 1,934 | 685 18,419 | 658 18,838 |
| Alaska Hawaii | 3 7 | 6 34 | - | - | - | - | 63 66 | 83 72 | 408 637 | 464 523 |
| Guam | , N | 34 N | - | - | - | - | - | 7 | - | 38 |
| P.R. | - | 1 | - | - | - | - | 36 | 67 | 156 | 285 |
| V.I. Amer. Samoa | Ū | U | U | U | U | U | U | U | 36 U | 31 U |
| C.N.M.I. | - | U | - | U | - | U | - | U | - | U |

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 4, 2003, and October 5, 2002 (40th Week)*

| (40th Week)* | | | | | inducer a les | | | | | - 4141 - |
|-------------------------------|----------------------|-----------------|------------------|-------------|-----------------|--------------------|----------|----------|------------|-------------------|
| | A!! | ages | 1 | Haemophilus | influenzae, inv | | | | - · | atitis |
| | | ages rotypes | Serot | ype b | - | ō years otype b | Unknown | serotyne | | te), by type A |
| | Cum. | Cum. | Cum. | Cum. | Cum. | Cum. | Cum. | Cum. | Cum. | Cum. |
| Reporting area | 2003 | 2002 | 2003 | 2002 | 2003 | 2002 | 2003 | 2002 | 2003 | 2002 |
| UNITED STATES | 1,314 | 1,287 | 15 | 25 | 73 | 102 | 147 | 116 | 4,691 | 7,068 |
| NEW ENGLAND Maine | 102 4 | 86 1 | 1 | - | 6 | 8 | 5 1 | 2 | 239 9 | 247 8 |
| N.H. | 11 | 7 | 1 | - | - | - | - | - | 11 | 11 |
| Vt. Mass. | 7 46 | 7 40 | - | - | - 6 | - 4 | - 3 | - 2 | 6 140 | 1 113 |
| R.I. | 6 | 10 | - | - | - | - | 1 | - | 12 | 30 |
| Conn. | 28 | 21 | - | - | - | 4 | - | - | 61 | 84 |
| MID. ATLANTIC Upstate N.Y. | 301 111 | 243 94 | - | 2 2 | 1 1 | 14 4 | 43 11 | 20 6 | 924 103 | 906 145 |
| N.Y. City | 48 54 | 56 47 | - | - | - | - | 10 7 | 9 | 328 | 356 |
| N.J. Pa. | 54 88 | 47 46 | - | - | - | - 10 | 15 | 5 | 111 382 | 150 255 |
| E.N. CENTRAL | 187 | 252 | 4 | 3 | 8 | 9 | 30 | 32 | 497 | 877 |
| Ohio Ind. | 59 39 | 64 35 | - 1 | - 1 | - 5 | 1 7 | 11 | 7 | 88 58 | 246 39 |
| III. | 58 | 100 | - | - | - | - | 14 | 17 | 152 | 236 |
| Mich. Wis. | 20 11 | 11 42 | 3 | 2 | 3 | 1 | 2 3 | - 8 | 161 38 | 183 173 |
| W.N. CENTRAL | 95 | 57 | 1 | 1 | 7 | 2 | 13 | 4 | 153 | 246 |
| Minn. | 37 | 37 | 1 | 1 | 7 | 2 | 2 | 2 | 37 | 36 |
| lowa Mo. | - 37 | 1 11 | - | - | - | - | - 11 | - 2 | 26 52 | 55 73 |
| N. Dak. | 1 | 4 | - | - | - | - | - | - | - | 1 |
| S. Dak. Nebr. | 1 2 | 1 | - | - | - | - | - | - | - 11 | 3 16 |
| Kans. | 17 | 3 | - | - | - | - | - | - | 27 | 62 |
| S. ATLANTIC Del. | 308 | 290 | 1 | 5 | 12 | 15 | 17 | 22 | 1,188 5 | 1,939 13 |
| Md. | 68 | 73 | - | 2 | 5 | 3 | - 1 | - | 121 | 250 |
| D.C. Va. | - 41 | - 25 | - | - | - | - | - 5 | - 4 | 31 69 | 65 97 |
| W.Va. | 14 | 16 | - | - | - | 1 | - | 1 | 14 | 17 |
| N.C. S.C. | 36 3 | 30 11 | - | - | 3 | 3 | 2 | - 2 | 72 26 | 190 54 |
| Ga. | 54 | 62 | - | - | - | - | 5 | 10 | 512 | 373 |
| Fla. | 92 | 73 | 1 | 3 | 4 | 8 | 4 | 4 | 338 | 880 |
| E.S. CENTRAL Ky. | 59 4 | 55 4 | 1 | 1 | - | 4 1 | 8 | 10 | 169 27 | 207 41 |
| Ténn. Ala. | 33 20 | 27 15 | - 1 | - 1 | - | - 3 | 4 3 | 7 1 | 114 14 | 83 32 |
| Miss. | 20 | 9 | - | - | - | - | 1 | 2 | 14 | 51 |
| W.S. CENTRAL | 54 | 46 | 1 | 2 | 7 | 8 | 3 | 2 | 202 | 835 |
| Ark. La. | 7 7 | 1 6 | - | - | 1 | - | - 2 | - 2 | 16 38 | 45 66 |
| Okla. | 37 | 37 | - | - | 6 | 8 | 1 | - | 11 | 40 |
| Tex. | 3 | 2 | 1 | 2 | - | - | - | - | 137 | 684 |
| MOUNTAIN Mont. | 131 | 140 | 4 | 4 | 18 | 25 | 18 | 13 | 370 8 | 449 13 |
| Idaho | 4 1 | 2 2 | - | - | - | - | 1 | 1 | - 1 | 24 3 |
| Wyo. Colo. | 29 | 26 | - | - | - | - | 6 | 2 | 59 | 69 |
| N. Mex. Ariz. | 14 64 | 22 62 | - 4 | - 2 | 4 6 | 6 14 | 1 8 | 1 6 | 16 209 | 22 240 |
| Utah | 11 | 15 | - | 1 | 5 | 3 | 2 | - | 35 | 39 |
| Nev. | 8 | 11 | - | 1 | 3 | 2 | - | 3 | 42 | 39 |
| PACIFIC Wash. | 77 9 | 118 2 | 2 | 7 1 | 14 6 | 17 1 | 10 2 | 11 | 949 44 | 1,362 135 |
| Oreg. | 37 | 44 | - | - | - | - | 3 | 3 | 47 | 50 |
| Calif. Alaska | 17 | 40 1 | 2 | 6 | 8 | 16 | 4 | 4 1 | 841 8 | 1,145 9 |
| Hawaii | 14 | 31 | - | - | - | - | 1 | 3 | 9 | 23 |
| Guam P.R. | - | - 1 | - | - | - | - | - | - | - 26 | 1 182 |
| 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 | - Ll:Llnavailable | - | - orted cases | 0 | - | 0 | - | 0 | - | 0 |

N: Not notifiable. U: Unavailable. -: No reported cases. * Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date). * Non-serotype b: nontypeable and type other than b; Unknown serotype: type unknown or not reported. Previously, cases reported without type information were counted as non-serotype b.

| (40th Week)* | | | | | | | | | | |
|-------------------------------|--------------|----------------------|-----------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|
| | | epatitis (viral B | , acute), by ty | | Legion | ellosis | Lister | iosis | Lvme | disease |
| Reporting area | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 |
| UNITED STATES | 4,655 | 5,624 | 1,228 | 1,445 | 1,463 | 861 | 445 | 477 | 13,164 | 16,232 |
| NEW ENGLAND | 182 | 224 | 3 | 18 | 64 | 78 | 35 | 52 | 2,210 | 4,915 |
| Maine N.H. | 1 11 | 8 16 | - | - | 2 6 | 2 4 | 6 3 | 5 4 | 173 87 | 49 200 |
| Vt. | 2 | 4 | 3 | 12 | 5 | 32 31 | - | 3 | 35 | 30 |
| Mass. R.I. | 149 11 | 122 24 | - | 6 | 22 13 | 1 | 13 | 28 1 | 489 434 | 1,688 261 |
| Conn. | 8 | 50 | U 105 | U | 16 | 8 | 13 | 11 | 992 | 2,687 |
| MID. ATLANTIC Upstate N.Y. | 750 96 | 1,177 92 | 125 37 | 84 36 | 422 119 | 239 62 | 88 25 | 146 47 | 8,923 3,623 | 8,554 3,736 |
| N.Y. City N.J. | 257 181 | 581 240 | - | - 4 | 40 41 | 52 27 | 14 12 | 31 29 | 5 1,551 | 56 2,038 |
| Pa. | 216 | 264 | 88 | 44 | 222 | 98 | 37 | 39 | 3,744 | 2,724 |
| E.N. CENTRAL Ohio | 328 110 | 512 71 | 130 7 | 85 1 | 285 177 | 224 87 | 54 19 | 60 15 | 653 62 | 1,149 50 |
| Ind. III. | 28 1 | 38 116 | 7 14 | - 18 | 21 3 | 15 21 | 6 7 | 6 15 | 18 33 | 18 46 |
| Mich. | 158 | 244 | 102 | 62 | 71 | 67 | 17 | 16 | 7 | 25 |
| Wis. W.N. CENTRAL | 31 247 | 43 175 | - 186 | 4 612 | 13 52 | 34 43 | 5 16 | 8 13 | 533 291 | 1,010 202 |
| Minn. | 29 | 21 | 7 | 2 | 3 | 10 | 8 | 1 | 208 | 120 |
| lowa Mo. | 10 172 | 13 92 | 1 177 | 1 598 | 9 24 | 10 11 | - 5 | 1 7 | 36 36 | 33 36 |
| N. Dak. S. Dak. | 2 2 | 4 1 | - | - 1 | 1 2 | - 2 | - | 1 | - 1 | - 1 |
| Nebr. Kans. | 18 14 | 23 21 | 1 | 10 | 4 9 | 10 | 3 | 1 1 | 2 8 | 6 6 |
| S. ATLANTIC Del. | 1,435 5 | 1,338 13 | 130 | 159 | 408 23 | 147 7 | 96 N | 61 N | 879 146 | 1,123 158 |
| Md. | 101 | 99 | 14 | 9 | 104 | 30 | 15 | 14 | 503 | 630 |
| D.C. Va. | 9 137 | 17 152 | - 7 | - 9 | 13 72 | 5 17 | - 9 | - 4 | 6 66 | 18 123 |
| W.Va. N.C. | 25 132 | 18 186 | 1 11 | 2 22 | 15 31 | - 9 | 6 15 | - 6 | 17 77 | 16 103 |
| S.C. Ga. | 110 416 | 95 348 | 24 3 | 4 61 | 5 24 | 6 14 | 2 25 | 8 10 | 6 12 | 16 2 |
| Fla. | 500 | 410 | 70 | 52 | 121 | 59 | 24 | 19 | 46 | 57 |
| E.S. CENTRAL Ky. | 312 52 | 288 47 | 64 10 | 104 4 | 79 35 | 27 11 | 24 6 | 13 2 | 47 11 | 57 20 |
| Tenn. | 152 | 107 | 18 | 22 | 28 | 10 | 5 | 7 | 13 | 20 |
| Ala. Miss. | 47 61 | 61 73 | 6 30 | 6 72 | 13 3 | 6 | 11 2 | 4 | 5 18 | 8 9 |
| W.S. CENTRAL | 226 | 764 | 457 | 247 | 36 | 25 | 21 | 27 | 54 | 126 |
| Ark. La. | 39 46 | 97 105 | 3 46 | 10 78 | 2 | 4 | 1 1 | 2 | 3 | 3 3 |
| Okla. Tex. | 31 110 | 53 509 | 2 406 | 5 154 | 6 28 | 3 18 | 2 17 | 7 18 | - 51 | - 120 |
| MOUNTAIN Mont. | 478 13 | 492 8 | 41 1 | 45 | 53 4 | 34 3 | 28 2 | 25 | 16 | 13 |
| Idaho | - | 6 | - | - | 3 | 1 | 2 | 2 | 3 | 3 |
| Wyo. Colo. | 27 67 | 16 62 | - 12 | 5 6 | 2 12 | 2 7 | - 10 | 6 | 1 4 | 1 1 |
| N. Mex. Ariz. | 29 234 | 139 176 | - 7 | 2 4 | 2 9 | 2 7 | 2 9 | 2 11 | 1 1 | 1 2 |
| Utah Nev. | 49 59 | 37 48 | 21 | 4 24 | 16 5 | 9 | - 3 | 3 | 3 | 4 1 |
| PACIFIC | 697 | 654 | 92 | 91 | 64 | 44 | 83 | 80 | 91 | 93 |
| Wash. Oreg. | 54 88 | 56 108 | 14 13 | 17 10 | 8 N | 3 N | 3 4 | 8 | 3 16 | 9 12 |
| Calif. | 527 | 476 | 62 | 63 | 56 | 41 | 71 | 56 | 69 | 69 |
| Alaska Hawaii | 8 20 | 6 8 | 1 2 | - 1 | - | - | 5 | - 8 | 3 N | 3 N |
| Guam P.R. | - 41 | 1 145 | - | - | : | - | - | - 2 | N | N |
| V.I. Amer. Samoa | - U | - U | - U | - U | - U | - U | - U | - U | U | - U |
| C.N.M.I. | - | U | - | U | - | U | - | U | - | U |

| (40th Week)* | | | | | | | | | | | |
|-------------------------------|--------------|--------------|--------------|------------------|--------------|--------------|--------------|--------------|--------------|---------------------|--|
| | Mal | aria | | jococcal ease | Pert | ussis | Rabie | s, animal | | lountain d fever | |
| Reporting area | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | |
| UNITED STATES | 816 | 1,123 | 1,241 | 1,432 | 5,266 | 6,235 | 4,416 | 6,049 | 601 | 792 | |
| NEW ENGLAND | 29 | 65 | 58 | 79 | 530 | 564 | 447 | 727 | - | 6 | |
| Maine N.H. | 3 2 | 5 7 | 6 3 | 4 11 | 12 57 | 12 15 | 57 13 | 48 38 | - | - | |
| Vt. | 1 | 4 | 2 | 4 | 60 383 | 103 394 | 29 | 85 229 | - | - 3 | |
| Mass. R.I. | 6 2 | 26 5 | 36 2 | 42 5 | 16 | 13 | 164 51 | 62 | - | 3 | |
| Conn. | 15 | 18 | 9 | 13 | 2 | 27 | 133 | 265 | - | - | |
| MID. ATLANTIC Upstate N.Y. | 205 48 | 303 33 | 145 36 | 176 40 | 565 329 | 343 232 | 697 333 | 996 565 | 33 2 | 47 | |
| N.Y. City N.J. | 93 33 | 197 39 | 28 19 | 32 26 | - 42 | 15 | 6 62 | 10 145 | 11 10 | 9 16 | |
| Pa. | 31 | 34 | 62 | 78 | 194 | 96 | 296 | 276 | 10 | 22 | |
| E.N. CENTRAL | 73 | 140 | 178 | 211 | 461 | 713 | 137 | 148 | 15 | 27 | |
| Ohio Ind. | 16 2 | 16 12 | 50 39 | 64 26 | 203 54 | 341 94 | 48 23 | 31 30 | 10 1 | 10 3 | |
| III. Mich. | 23 23 | 59 42 | 38 34 | 44 36 | - 80 | 112 42 | 20 39 | 31 42 | - 4 | 12 2 | |
| Wis. | 9 | 11 | 17 | 41 | 124 | 124 | 7 | 14 | - | - | |
| W.N. CENTRAL Minn. | 42 21 | 53 16 | 115 23 | 119 29 | 323 132 | 544 259 | 479 28 | 389 35 | 59 1 | 99 | |
| Iowa | 5 | 4 | 19 | 19 | 81 | 108 | 98 | 62 | 2 | 3 | |
| Mo. N. Dak. | 5 1 | 14 1 | 54 1 | 39 | 67 4 | 114 5 | 42 45 | 45 32 | 46 | 91 | |
| S. Dak. | 2 | 2 | 1 7 | 2 | 3 | 6 | 67 | 76 | 4 | 1 | |
| Nebr. Kans. | - 8 | 5 11 | 10 | 23 7 | 5 31 | 8 44 | 58 141 | 139 | 3 3 | 4 | |
| S. ATLANTIC | 242 | 266 | 223 | 235 | 488 | 350 | 2,003 | 2,115 | 357 | 370 | |
| Del. Md. | 3 59 | 4 94 | 7 24 | 7 7 | 1 63 | 2 55 | 43 246 | 24 320 | 1 90 | 1 35 | |
| D.C. Va. | 13 28 | 18 22 | - 20 | - 34 | 2 83 | 2 117 | 412 | 469 | 1 23 | - 27 | |
| W.Va. | 4 | 3 | 4 | 4 | 14 | 30 | 70 | 149 | 5 | 2 | |
| N.C. S.C. | 19 3 | 19 7 | 30 20 | 29 25 | 108 90 | 38 38 | 626 193 | 565 109 | 172 14 | 231 45 | |
| Ga. Fla. | 47 66 | 45 54 | 28 90 | 25 104 | 30 97 | 24 44 | 286 | 333 | 42 9 | 19 10 | |
| E.S. CENTRAL | 15 | 18 | 90 64 | 79 | 119 | 206 | 127 143 | 146 195 | 80 | 107 | |
| Ky. | 7 | 6 | 15 | 12 | 41 | 84 | 31 | 22 | 1 | 5 | |
| Tenn. Ala. | 5 3 | 3 4 | 18 15 | 32 19 | 57 15 | 83 30 | 86 26 | 108 61 | 53 12 | 65 12 | |
| Miss. | - | 5 | 16 | 16 | 6 | 9 | - | 4 | 14 | 25 | |
| W.S. CENTRAL Ark. | 31 4 | 64 2 | 135 12 | 177 23 | 431 30 | 1,402 473 | 188 25 | 955 3 | 46 | 119 45 | |
| La. | 3 | 4 8 | 25 14 | 36 18 | 6 14 | 7 | - | - | - 40 | 61 | |
| Okla. Tex. | 20 | 50 | 84 | 100 | 381 | 35 887 | 163 | 102 850 | 40 | 13 | |
| MOUNTAIN | 36 | 40 | 62 | 78 | 761 | 760 | 150 | 267 | 9 | 14 | |
| Mont. Idaho | - 1 | 2 | 4 6 | 2 3 | 5 66 | 5 56 | 20 14 | 16 32 | 1 2 | 1 - | |
| Wyo. Colo. | 1 16 | - 22 | 2 19 | - 23 | 123 262 | 10 290 | 6 37 | 18 57 | 2 2 | 5 2 | |
| N. Mex. | 1 | 2 | 7 | 4 | 51 | 170 | 5 | 10 | - | 1 | |
| Ariz. Utah | 12 4 | 6 5 | 15 1 | 23 4 | 126 103 | 109 76 | 52 13 | 119 10 | 1 1 | - | |
| Nev. | 1 | 3 | 8 | 19 | 25 | 44 | 3 | 5 | - | 5 | |
| PACIFIC Wash. | 143 21 | 174 16 | 261 25 | 278 51 | 1,588 497 | 1,353 368 | 172 | 257 | 2 | 3 | |
| Oreg. | 10 | 9 | 45 | 40 | 373 | 167 | 6 | 14 | - | 2 | |
| Calif. Alaska | 105 1 | 141 2 | 178 3 | 177 4 | 705 2 | 786 4 | 159 7 | 217 26 | 2 | 1 - | |
| Hawaii | 6 | 6 | 10 | 6 | 11 | 28 | - | - | - | - | |
| Guam P.R. | - 1 | - 1 | - 2 | 1 6 | - | 2 2 | 62 | - 67 | - N | N | |
| V.I. Amer. Samoa | _ U | _ U | - U | - U | - U | - U | - U | U | - U | U U | |
| C.N.M.I. | - | U | - | U | - | U | - | U | - | U | |

MMWR

| (40th Week)* | | | | | 1 | | Stre | ptococcus pne | umoniae, inv | asive |
|------------------------------|----------------|----------------|--------------|--------------|--------------------------|--------------|------------------|---------------|--------------|--------------|
| | Salmo | onellosis | Shine | llosis | Streptococc invasive, | | Drug re all a | | A.09.2 | 5 years |
| Bonorting area | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 |
| Reporting area UNITED STATES | 29,237 | 32,411 | 16,174 | 14,947 | 4,272 | 3,717 | 1,647 | 1,874 | 331 | 258 |
| NEW ENGLAND | 1,630 | 1,712 | 243 | 262 | 333 | 275 | 40 | 90 | 7 | 238 |
| Maine | 105 | 109 | 6 | 5 | 22 | 20 | - | - | - | - |
| N.H. Vt. | 94 54 | 108 66 | 5 6 | 9 1 | 21 18 | 31 9 | - 6 | - 4 | N 4 | N 1 |
| Mass. | 969 | 970 | 164 | 166 | 159 | 94 | N | N | N | N |
| R.I. Conn. | 106 302 | 125 334 | 14 48 | 14 67 | 11 102 | 15 106 | 10 24 | 12 74 | 3 U | 1 U |
| MID. ATLANTIC | 3,454 | 4,400 | 1,754 | 1,340 | 769 | 596 | 99 | 90 | 76 | 61 |
| Upstate N.Y. N.Y. City | 891 931 | 1,169 1,110 | 334 297 | 211 375 | 306 101 | 242 134 | 54 U | 75 U | 59 U | 50 U |
| N.J. | 426 | 855 | 228 | 490 | 131 | 128 | N | N | N | N |
| Pa. | 1,206 | 1,266 | 895 | 264 | 231 | 92 | 45 | 15 | 17 | 11 |
| E.N. CENTRAL Ohio | 4,170 1,111 | 4,445 1,057 | 1,341 254 | 1,656 486 | 908 260 | 792 174 | 346 225 | 167 34 | 135 77 | 101 9 |
| Ind. | 469 | 429 | 128 | 80 | 94 | 42 | 121 | 131 | 36 | 46 |
| III. Mich. | 1,307 625 | 1,492 718 | 654 203 | 806 139 | 182 310 | 229 251 | N | 2 N | N | N |
| Wis. | 658 | 749 | 102 | 145 | 62 | 96 | Ν | Ν | 22 | 46 |
| W.N. CENTRAL Minn. | 1,943 419 | 2,016 444 | 642 84 | 819 171 | 278 139 | 203 101 | 133 | 336 220 | 45 39 | 43 39 |
| lowa | 291 | 379 | 58 | 100 | N | N | N | N | N | N |
| Mo. N. Dak. | 776 28 | 660 24 | 311 3 | 132 16 | 60 11 | 41 | 10 3 | 5 1 | 2 4 | 1 3 |
| S. Dak. | 90 | 94 | 13 | 151 | 19 | 12 | 1 | 1 | - | - |
| Nebr. Kans. | 115 224 | 140 275 | 97 76 | 174 75 | 23 26 | 18 31 | - 119 | 25 84 | N N | N N |
| S. ATLANTIC | 7,904 | 8,087 | 5,766 | 4,756 | 754 | 612 | 861 | 873 | 16 | 28 |
| Del. | 69 | 74 | 148 | 154 | 6 | 2 | 1 | 3 | N | N |
| Md. D.C. | 668 36 | 742 60 | 509 62 | 888 49 | 223 12 | 97 6 | 2 | - | - 6 | 21 3 |
| Va. W. Va. | 809 107 | 881 106 | 322 | 741 9 | 90 31 | 66 17 | N 57 | N 37 | N 10 | N 4 |
| N.C. | 993 | 1,052 | 816 | 301 | 92 | 107 | N | N | U | Ű |
| S.C. Ga. | 555 1,465 | 566 1,511 | 305 1,367 | 93 1,139 | 32 100 | 32 115 | 122 201 | 150 221 | N N | N N |
| Fla. | 3,202 | 3,095 | 2,237 | 1,382 | 168 | 170 | 478 | 462 | N | N |
| E.S. CENTRAL | 1,913 | 2,425 | 683 | 1,063 | 170 | 91 | 111 | 115 | - | - |
| Ky. Tenn. | 321 574 | 272 609 | 98 251 | 116 80 | 40 130 | 19 72 | 15 96 | 13 102 | N N | N N |
| Ala. Miss. | 406 612 | 627 917 | 198 | 564 | - | - | - | - | Ν | Ν |
| W.S. CENTRAL | 2,665 | 3,520 | 136 2,938 | 303 2,312 | - 191 | - 249 | 33 | - 158 | - 48 | - 19 |
| Ark. | 619 | 776 | 85 | 153 | 5 | 6 | 8 | 6 | - | - |
| La. Okla. | 258 374 | 595 391 | 144 665 | 365 427 | 1 71 | 1 38 | 25 N | 152 N | 10 28 | 6 2 |
| Tex. | 1,414 | 1,758 | 2,044 | 1,367 | 114 | 204 | N | N | 10 | 11 |
| MOUNTAIN | 1,707 | 1,708 | 901 | 647 | 372 | 441 | 21 | 45 | 4 | 4 |
| Mont. Idaho | 83 143 | 75 108 | 2 25 | 3 12 | 2 18 | - 9 | N | N | N | N |
| Wyo. | 69 391 | 59 482 | 6 219 | 7 | 2 113 | 7 | 4 | 13 | - | - |
| Colo. N. Mex. | 201 | 238 | 166 | 141 132 | 91 | 94 89 | 17 | 32 | - | - |
| Ariz. Utah | 514 179 | 439 135 | 390 40 | 286 22 | 135 9 | 214 28 | - | - | N 4 | N 4 |
| Nev. | 127 | 172 | 53 | 44 | 2 | - | - | - | - | - |
| PACIFIC | 3,851 | 4,098 | 1,906 | 2,092 | 497 | 458 | 3 | - | - | |
| Wash. Oreg. | 399 335 | 390 284 | 122 186 | 122 79 | 53 N | 46 N | N | - N | N N | N N |
| Calif. | 2,901 | 3,162 | 1,555 | 1,838 | 346 | 353 | N | N | N | N |
| Alaska Hawaii | 55 161 | 49 213 | 7 36 | 5 48 | - 98 | - 59 | - 3 | - | N - | N - |
| Guam | - | 37 | - | 28 | - | - | - | 4 | - | - |
| P.R. V.I. | 183 | 401 | 3 | 28 | N | N | N | N | N | N |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | - | U | - | U |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending October 4, 2003, and October 5, 2002

| (40th Week)* | | | | | | 0 | | | |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Syp | | | | | | | Varicella |
| | | secondary | | enital | | culosis | | id fever | (Chickenpox) |
| Reporting area | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 | Cum. 2002 | Cum. 2003 |
| UNITED STATES | 5,113 | 5,107 | 276 | 325 | 8,353 | 9,687 | 226 | 249 | 9,343 |
| NEW ENGLAND | 151 | 111 | 1 | - | 231 | 311 | 21 | 13 | 1,315 |
| Maine N.H. | 7 13 | 2 3 | 1 | - | 5 7 | 18 10 | - 2 | - | 640 |
| Vt. | - | 1 | - | - | 3 | 4 | - | - | 535 |
| Mass. R.I. | 101 15 | 77 6 | - | - | 156 27 | 159 41 | 11 2 | 7 | 137 3 |
| Conn. | 15 | 22 | - | - | 33 | 79 | 6 | 6 | - |
| MID. ATLANTIC Upstate N.Y. | 642 32 | 544 25 | 53 17 | 50 1 | 1,635 218 | 1,673 238 | 38 9 | 66 7 | 29 N |
| N.Y. City | 356 | 321 | 25 | 21 | 880 | 803 | 13 | 35 | - |
| N.J. Pa. | 128 126 | 115 83 | 11 | 27 1 | 317 220 | 382 250 | 13 3 | 16 8 | - 29 |
| E.N. CENTRAL | 675 | 955 | 55 | 47 | 863 | 973 | 17 | 27 | 4,028 |
| Ohio Ind. | 168 36 | 122 48 | 3 7 | 2 2 | 155 99 | 155 87 | 2 4 | 6 2 | 954 |
| III. | 259 | 371 | 17 | 34 | 413 | 467 | 1 | 11 | - |
| Mich. Wis. | 201 11 | 395 19 | 28 | 9 | 158 38 | 210 54 | 10 | 4 4 | 2,479 595 |
| W.N. CENTRAL | 106 | 93 | 4 | 2 | 354 | 415 | 4 | 9 | 39 |
| Minn. | 34 | 43 | - | 1 | 141 | 177 | - | 3 | N |
| Iowa Mo. | 4 39 | 2 26 | - 4 | - 1 | 17 91 | 24 110 | 2 1 | - 2 | N - |
| N. Dak. | 2 2 | - | - | - | - | 4 | - | - | 39 |
| S. Dak. Nebr. | 2 4 | 5 | - | - | 16 10 | 10 20 | - 1 | 4 | - |
| Kans. | 21 | 17 | - | - | 79 | 70 | - | - | - |
| S. ATLANTIC Del. | 1,357 5 | 1,275 10 | 50 | 73 | 1,605 | 1,989 13 | 41 | 32 | 1,657 22 |
| Md. | 227 | 152 | 8 | 14 | 178 | 221 | 8 | 7 | - |
| D.C. Va. | 41 63 | 44 55 | - 1 | 1 1 | - 186 | - 204 | - 11 | - 3 | 23 466 |
| W.Va. N.C. | 2 122 | 2 222 | - 16 | - 18 | 12 231 | 27 257 | - 7 | - 1 | 967 N |
| S.C. | 81 | 95 | 4 | 9 | 120 | 140 | - | - | 179 |
| Ga. Fla. | 337 479 | 278 417 | 6 15 | 13 17 | 264 614 | 409 718 | 7 8 | 5 16 | N |
| E.S. CENTRAL | 242 | 385 | 10 | 23 | 488 | 586 | 4 | 4 | - |
| Ky. | 29 105 | 76 | 1 3 | 3 7 | 90 | 103 228 | - | 4 | N |
| Tenn. Ala. | 90 | 138 133 | 4 | 9 | 164 167 | 159 | 2 2 | - | N _ |
| Miss. | 18 | 38 | 2 | 4 | 67 | 96 | - | - | - |
| W.S. CENTRAL Ark. | 698 41 | 649 27 | 49 | 71 7 | 1,124 69 | 1,478 101 | 15 | 24 | 1,839 |
| La. | 108 | 118 | - | - | - | - | - | - | 4 |
| Okla. Tex. | 50 499 | 51 453 | 1 48 | 2 62 | 114 941 | 128 1,249 | - 15 | - 24 | N 1,835 |
| MOUNTAIN | 223 | 244 | 21 | 13 | 295 | 309 | 5 | 9 | 436 |
| Mont. Idaho | - 8 | - 1 | - | - | 5 8 | 6 11 | - | - | N N |
| Wyo. | - | - | - | - | 3 | 3 | - | - | 39 |
| Colo. N. Mex. | 20 38 | 51 27 | 3 | 2 | 62 6 | 68 30 | 3 | 4 1 | - |
| Ariz. | 143 | 151 | 18 | 11 | 159 | 156 | 2 | - | 4 |
| Utah Nev. | 5 9 | 5 9 | - | - | 30 22 | 21 14 | - | 2 2 | 393 |
| PACIFIC | 1,019 | 851 | 33 | 46 | 1,758 | 1,953 | 81 | 65 | - |
| Wash. Oreg. | 61 32 | 48 12 | - | 1 | 190 83 | 182 91 | 3 4 | 4 2 | - |
| Calif. | 924 | 783 | 33 | 44 | 1,388 | 1,526 | 73 | 56 | - |
| Alaska Hawaii | - 2 | - 8 | - | - 1 | 43 54 | 39 115 | - 1 | - 3 | - |
| Guam | - | 6 | - | - | - | 55 | - | - | - |
| P.R. V.I. | 156 1 | 199 1 | 1 | 21 | 75 | 86 | - | - | 288 |
| Amer. Samoa | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | - | U | - |

TABLE III. Deaths in 122 U.S. cities,* week ending October 4, 2003 (40th Week)

| Arge Age se5 45-6 4 | | All causes, by age (years) | | | | | | 00 (401 | | All causes, by age (years) | | | | | | |
|--|---------------------|----------------------------|-----|-------|-------|------|----|---------|----------------------|----------------------------|-------|-------|-------|------|-----|---------------------------|
| NEW ENGLAND 32:5 24:6 6 17 4 3 22 S.ATLANTIC 1:21 21:3 1:40 702 28:9 1:40 702 28:9 1:40 702 28:9 1:40 702 28:9 1:40 702 28:9 1:40 702 28:9 1:40 702 28:9 1:40 702 28:9 1:40 702 28:9 1:40 702 28:9 1:40 702 28:9 1:40 702 28:9 1:40 703 1:33 3 3 3:5 | Reporting Area | | >65 | 45-64 | 25-44 | 1-24 | <1 | | Reporting Area | | >65 | 45-64 | 25-44 | 1-24 | <1 | P&I [†] Total |
| Boston, Mass. U U U U U U U U U U U U I Allanta, G.a. 140 70 42 10 9 9 9 9 Cambridge, Mass. 10 8 1 1 - - - Charlotte, N.C. 118 11 1 12 23 1 1 3 3 3 3 3 3 1 1 3 3 1 1 3 3 1 1 1 1 1 1 1 1 1< | | | | | | | | • | | - | | | | | | 73 |
| Cambridge, Mass. 10 8 1 1 1 · · · · · · Charlotte, N.C. 118 71 31 12 2 2 1 4 art.ord (Con. 44 33 6 4 · · 1 2 Markoville, Fin. 60 33 12 3 3 3 3 3 3 1 2 3 1 New Berlord, Mass. 20 15 3 2 · · · · · Savannah, Ga. 72 66 13 2 1 1 - 1 New Berlord, Mass. 20 15 3 2 · · · · · Savannah, Ga. 72 66 13 2 1 1 - 1 New Berlord, Mass. 8 0 5 1 4 · · 1 4 New Markov, Con. U U U U U U U U S Savannah, Ga. 72 68 13 2 2 1 - · · · Savannah, Ga. 72 68 13 2 2 1 - · · · Savannah, Ga. 72 68 13 2 2 1 - · · · Savannah, Ga. 72 68 13 2 2 1 - · · · Savannah, Ga. 72 68 13 2 2 1 - · · · · Savannah, Ga. 72 68 13 2 2 2 1 - · · · · Savannah, Ga. 72 68 13 2 2 2 1 - · · · · Savannah, Ga. 72 68 13 2 2 2 1 - · · · · Savannah, Ga. 72 68 14 3 3 1 2 5 4 1 · · · · · Savannah, Ga. 72 68 14 3 3 1 2 5 4 New Have, Con. U U U U U U U S Schwelle, Tan. 168 114 33 12 5 4 New Have, Con. 32 2 5 6 4 - 2 - 1 1 Winnington, Du. 16 10 2 3 · · · · 4 Winnington, Du. 16 10 2 3 · · · · · · · · · · · · · · · · · | Boston, Mass. | | | | U | U | U | U | | 140 | | | | | | 3 |
| Fail River, Mass. 21 18 2 1 - - 1 Jackson/Wile, Fia. 150 71 35 33 9 2 Lowell, Mass. 10 17 4 - - 4 Norlsk, Va. 60 39 12 3 | | | | | | - | - | | | | | | | | | 21 |
| Hartbord, Conn. 44 33 6 4 - 1 2 Miam, Fla. 60 39 12 3 3 Lynn, Mass. 10 9 - 1 - - - Norlok, Va. 53 56 15 12 1 | | | | | - | - | - | | | | | | | | | 8 |
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| | | | | | - | - | | | Spokane, Wash. | 48 | 36 | 5 | 4 | 2 | 1 | 3 |
| Minneapolis, Minn. 70 43 15 7 4 1 4 Tacoma, Wash. 105 83 15 5 - 2 | , | | | | 7 | 4 | | | Tacoma, Wash. | 105 | 83 | 15 | 5 | - | 2 | 5 |
| Omaha, Nebr. 77 50 17 5 4 1 2 TOTAL 10,876 ¹¹ 7,171 2,244 840 296 228 | | | | | | | | | TOTAL | 10,876 [¶] | 7,171 | 2,244 | 840 | 296 | 228 | 657 |
| St. Louis, Mo. U U U U U U U | | | | | U | | U | | | | | | | | | |
| St. Paul, Minn. 42 22 14 3 2 1 4 | | | | | | | | | | | | | | | | |
| Wichita, Kans. 123 87 22 7 3 4 8 Usual large view We reported enses We reported ense | | 123 | 87 | 22 | 7 | 3 | 4 | 8 | | | | | | | | |

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

¹ Total includes unknown ages.

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