

Weekly

Published April 22, 2005, for 2003 / Vol. 52 / No. 54 $\,$

Summary of Notifiable Diseases —

United States, 2003

DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION

MMWR

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

SUGGESTED CITATION

Centers for Disease Control and Prevention. Summary of notifiable diseases—United States, 2003. Published April 22, 2005, for MMWR 2003;52(No. 54):[inclusive page numbers].

Centers for Disease Control and Prevention

Julie L. Gerberding, MD, MPH Director

Dixie E. Snider, MD, MPH Chief of Science

Tanja Popovic, MD, PhD (Acting) Associate Director for Science

Coordinating Center for Health Information and Service*

Blake Caldwell, MD, MPH, and Edward J. Sondik, PhD (Acting) Directors

National Center for Health Marketing*

Steven L. Solomon, MD (Acting) Director

Division of Scientific Communications*

Maria S. Parker (*Acting*) *Director*

Mary Lou Lindegren, MD (Acting) Editor, MMWR Series

Suzanne M. Hewitt, MPA Managing Editor, MMWR Series

C. Kay Smith-Akin, MEd Lead Technical Writer/Editor

Jeffrey D. Sokolow, MA Project Editor

Lynda G. Cupell Visual Information Specialist

Kim L. Bright, MBA Quang M. Doan, MBA Erica R. Shaver Information Technology Specialists

CONTENTS

| Preface | 2 |
|--|------|
| Background | 2 |
| Data Sources | 4 |
| Interpreting Data | 4 |
| Highlights | 5 |
| PART 1. Summaries of Notifiable Diseases in the | |
| United States, 2003 | . 15 |
| TABLE 1. Reported cases of notifiable diseases, | |
| by month — United States, 2003 | . 16 |
| TABLE 2. Reported cases of notifiable diseases, by | |
| geographic division and area — United States, 2003 | . 18 |
| TABLE 3. Reported cases and incidence of notifiable | |
| diseases, by age group — United States, 2003 | . 27 |
| TABLE 4. Reported cases and incidence of notifiable | |
| diseases, by sex — United States, 2003 | . 29 |
| TABLE 5. Reported cases and incidence of notifiable | |
| diseases, by race — United States, 2003 | . 31 |
| TABLE 6. Reported cases and incidence of notifiable | |
| diseases, by ethnicity — United States, 2003 | . 33 |
| PART 2. Graphs and Maps for Selected Notifiable Diseases | |
| in the United States, 2003 | . 35 |
| PART 3. Historical Summaries of Notifiable Diseases | |
| in the United States, 1972–2003 | . 69 |
| TABLE 7. Reported incidence of notifiable diseases — | |
| United States, 1993–2003 | . 70 |
| TABLE 8. Reported cases of notifiable diseases — | |
| United States, 1996–2003 | . 72 |
| TABLE 9. Reported cases of notifiable diseases — | |
| United States, 1988–1995 | . 74 |
| TABLE 10. Reported cases of notifiable diseases — | |
| United States, 1980–1987 | . 76 |
| TABLE 11. Reported cases of notifiable diseases — | |
| United States, 1972–1979 | . 77 |
| TABLE 12. Deaths from selected notifiable diseases — | |
| United States, 1996–2001 | . 78 |
| Selected Reading | 79 |

* Proposed.

Summary of Notifiable Diseases — United States, 2003

Prepared by

Richard S. Hopkins, MD Ruth Ann Jajosky, DMD Patsy A. Hall, Annual Summary Coordinator Deborah A. Adams Felicia J. Connor Pearl Sharp Willie J. Anderson Robert F. Fagan J. Javier Aponte Gerald F. Jones David A. Nitschke Carol A. Worsham Nelson Adekoya, DrPH Man-huei Chang, MPH

Division of Public Health Surveillance and Informatics Epidemiology Program Office

Preface

The Summary of Notifiable Diseases — United States, 2003 contains the official statistics, in tabular and graphic form, for the reported occurrence of nationally notifiable diseases in the United States for 2003. Unless otherwise noted, the data are final totals for 2003 reported as of June 30, 2004. These statistics are collected and compiled from reports sent by state health departments to the National Notifiable Diseases Surveillance System (NNDSS), which is operated by CDC in collaboration with the Council of State and Territorial Epidemiologists (CSTE). The Summary is available at http:// www.cdc.gov/mmwr/summary.html. This site also includes publications from past years.

The Highlights section presents noteworthy epidemiologic and prevention information for 2003 for selected diseases and additional information to aid in the interpretation of surveillance and disease-trend data. Part 1 contains tables showing incidence data for the nationally notifiable diseases during 2003.* The tables provide the number of cases reported to CDC for 2003, as well as the distribution of cases by month, geographic location, and the patient's demographic characteristics (age, sex, race, and ethnicity). Nationally notifiable diseases that are reportable in <40 states do not appear in these tables. Part 2 contains graphs and maps that depict summary data for certain notifiable diseases described in tabular form in Part 1. Part 3 contains tables that list the number of cases of notifiable diseases reported to CDC since 1970. This section also includes a table enumerating deaths associated with specified notifiable diseases reported to CDC's National Center for Health Statistics (NCHS), during 1996-2001.[†] The Selected Reading section presents general and disease-specific references for notifiable infectious diseases. These references provide additional information on surveillance and epidemiologic concerns, diagnostic concerns, and disease control activities.

Background

The infectious diseases designated as notifiable at the national level during 2003 are listed on page 3. A notifiable disease is one for which regular, frequent, and timely information regarding individual cases is considered necessary for the prevention and control of the disease. This section briefly summarizes the history of the reporting of nationally notifiable diseases in the United States.

In 1878, Congress authorized the U.S. Marine Hospital Service (the forerunner of the Public Health Service [PHS]) to collect morbidity reports regarding cholera, smallpox, plague, and yellow fever from U.S. overseas consuls. The intention was to use this information to institute quarantine measures to prevent the introduction and spread of these diseases into the United States. In 1879, a specific Congressional appropriation was made for the collection and publication of reports of these notifiable diseases. Congress expanded the authority for weekly reporting and publication of these reports in 1893 to include data from states and municipal authorities. To increase the uniformity of the data, Congress enacted a law in 1902 directing the Surgeon General to provide forms for the collection and compilation of data and for the publication of reports at the national level. In 1912, in conjunction with PHS, state and territorial health authorities recommended immediate telegraphic reporting of five infectious diseases and the monthly reporting, by letter, of 10 additional diseases. The first annual summary of The Notifiable Diseases in 1912 included reports of 10 diseases from 19 states, the District of Columbia, and Hawaii. By 1928, all states, the District of Columbia, Hawaii, and Puerto Rico were participating in national reporting of 29 specified diseases. At their annual meeting in 1950, state and territorial health officers authorized CSTE to determine which diseases should be reported to PHS. In 1961, CDC assumed responsibility for collecting and publishing data concerning nationally notifiable diseases.

The list of nationally notifiable diseases is revised periodically. For example, a disease might be added to the list as a new pathogen emerges, or a disease might be deleted as its incidence declines. Public health officials at state health departments and CDC continue to collaborate in determining which diseases should be nationally notifiable. CSTE, with input from CDC, makes recommendations

^{*} Because no cases of anthrax, Powassan encephalitis/meningitis, western equine encephalitis, paralytic poliomyelitis, or yellow fever were reported in the United States during 2003, these diseases do not appear in the tables in Part I. For certain other nationally notifiable diseases, incidence data were reported to CDC but are not included in the tables or graphs of this *Summary*. Data on chronic hepatitis B and hepatitis C virus infection (past or present) are undergoing data-quality review. Data on ehrlichiosis attributable to other or unspecified agents are being withheld from publication pending the outcome of discussions about the reclassification of certain *Ehrlichia* species, which will probably affect how data are reported in this category. Data on human immunodeficiency virus (HIV) infections are not included because HIV infection (not acquired immunodeficiency syndrome [AIDS]) reporting has been implemented on different dates and by using different methods than for AIDS case reporting; however, these data are summarized in the Highlights section.

[†] In 1999, mortality data began to be coded according to the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. Comparability ratios provided by NCHS were used to bridge the mortality data for 1996–1998 (deaths coded by using the International Classification of Diseases, Ninth Revision) and 1999–2001.

annually for additions and deletions. Although disease reporting is mandated by legislation or regulation at the state and local levels, state reporting to CDC is voluntary. Thus, the list of diseases considered notifiable varies slightly by state. All states report the internationally quarantinable diseases (i.e., cholera, plague, and yellow fever) in compliance with the World Health Organization's International Health Regulations.

Infectious Diseases Designated as Notifiable at the National Level During 2003

Acquired immunodeficiency syndrome (AIDS) Anthrax Botulism Brucellosis Chancroid Chlamydia trachomatis, genital infection Cholera Coccidioidomycosis Cryptosporidiosis Cyclosporiasis Diphtheria Ehrlichiosis Human granulocytic Human monocytic Human, other or unspecified agent Encephalitis/meningitis, arboviral California serogroup Eastern equine Powassan St. Louis Western equine West Nile Enterohemorrhagic Escherichia coli (EHEC) EHEC 0157:H7 EHEC serogroup non-O157 EHEC, not serogrouped Giardiasis Gonorrhea Haemophilus influenzae, invasive disease Hansen disease (leprosy) Hantavirus pulmonary syndrome Hemolytic uremic syndrome, postdiarrheal Hepatitis A, acute Hepatitis B, acute Hepatitis B, chronic Hepatitis B, perinatal infection Hepatitis C, acute Hepatitis C, infection (past or present) Human immunodeficiency virus (HIV) infection Adult (age ≥ 13 yrs) Pediatric (age <13 yrs)

Legionellosis Listeriosis Lyme disease Malaria Measles Meningococcal disease Mumps Pertussis Plague Poliomyelitis, paralytic Psittacosis O fever Rabies Animal Human Rocky Mountain spotted fever Rubella Rubella, congenital syndrome Salmonellosis Severe acute respiratory syndrome-associated coronavirus (SARS-CoV) disease Shigellosis Streptococcal disease, invasive, group A Streptococcal toxic-shock syndrome Streptococcus pneumoniae, invasive disease Drug-resistant, all ages Age <5 yrs **Syphilis** Syphilis, congenital Tetanus Toxic-shock syndrome Trichinellosis[§] Tuberculosis Tularemia Typhoid fever Varicella Varicella deaths Yellow fever

§ Formerly referred to as trichinosis.

Data Sources

Provisional data concerning the reported occurrence of notifiable diseases are published weekly in the *MMWR*. After each reporting year, staff in state health departments finalize reports of cases for that year with local or county health departments and reconcile the data with reports previously sent to CDC throughout the year. These data are compiled in final form in the *Summary*.

Notifiable disease reports are the authoritative and archival counts of cases. They must be approved by the appropriate epidemiologist from each submitting state or territory before being published in the *Summary*. Data published in *MMWR Surveillance Summaries* or other surveillance reports produced by CDC programs might not agree exactly with data reported in the annual *Summary* because of differences in the timing of reports, the source of the data, or surveillance methodology.

Data in the *Summary* were derived primarily from reports transmitted to the Division of Public Health Surveillance and Informatics, Epidemiology Program Office, CDC, from health departments in the 50 states, five territories, New York City, and the District of Columbia. More information regarding notifiable diseases, including case definitions for these conditions, is available at http://www.cdc.gov/epo/dphsi/phs.htm. Policies for reporting notifiable disease cases can vary by disease or reporting jurisdiction.

Final data for certain diseases are derived from the surveillance records of the following CDC programs. Requests for further information regarding these data should be directed to the appropriate program.

National Center for Health Statistics (NCHS)

Office of Vital and Health Statistics Systems (deaths from selected notifiable diseases).

National Center for Infectious Diseases (NCID)

Division of Bacterial and Mycotic Diseases (toxic-shock syndrome; streptococcal disease, invasive, group A; streptococcal toxic-shock syndrome.

Division of Vector-Borne Infectious Diseases (ArboNET surveillance data regarding arboviral encephalitis/meningitis).

Division of Viral and Rickettsial Diseases (animal rabies, hantavirus pulmonary syndrome, and severe acute respiratory syndrome [SARS]).

National Center for HIV, STD, and TB Prevention (NCHSTP)

Division of HIV/AIDS Prevention — Surveillance and Epidemiology (acquired immunodeficiency syndrome [AIDS] and human immunodeficiency virus [HIV] infection).

Division of STD Prevention (chancroid, chlamydia, gonor-rhea, and syphilis).

Division of TB Elimination (tuberculosis).

National Immunization Program (NIP)

Epidemiology and Surveillance Division (poliomyelitis).

Disease totals for the United States, unless otherwise stated, do not include data for American Samoa, Guam, Puerto Rico, the U.S. Virgin Islands, or the Commonwealth of the Northern Mariana Islands.

Population estimates for the states are derived from CDC's National Center for Health Statistics (NCHS) census populations with bridged race categories, vintage 2003 postcensal series by year, county, age, sex, race, and Hispanic origin for July 1, 2000-July 1, 2003 (http://www.cdc.gov/nchs/about/ major/dvs/popbridge/popbridge.htm). For sexually transmitted diseases, population estimates are derived from the vintage 2002 postcensal series by year, county, age, sex, race, and Hispanic origin for July 1, 2000-July 1, 2002. The choice of population denominators for incidence rates reported in the MMWR is based on 1) the availability of census population data at the time of preparation for publication and 2) the desire for consistent use of the same population data to compute incidence rates reported by various CDC programs. Incidence rate in the Summary is calculated as the number of reported cases for each disease or condition divided by either the U.S. resident population for the specified demographic population or the total U.S. residential population, multiplied by 100,000. When a nationally notifiable disease is associated with a specific age restriction, the same age restriction is applied to the population in the denominator of the incidence calculation. In addition, population data from states in which the disease or condition was not notifiable or was not available were excluded from incidence calculations.

Interpreting Data

Incidence data in the *Summary* are presented by the date of report to CDC as determined by the *MMWR* week and year assigned by the state or territorial health department. In addition, data in the *Summary* are reported by the state in which the patient resided at the time of diagnosis. For many of the nationally notifiable infectious diseases, surveillance data are independently reported to various CDC programs. Thus, surveillance data reported by other CDC programs might vary from data reported in the *Summary* because of differences in 1) the date used to aggregate data (e.g., date of report or date of disease occurrence), 2) the timing of reports, 3) the source of the data, 4) surveillance case definitions, and 5) policies regarding case jurisdiction (i.e., which state should report the case to CDC). The data reported in the *Summary* are useful for analyzing disease trends and determining relative disease burdens. However, these data must be interpreted in light of reporting practices. Disease reporting is likely incomplete, and completeness might vary depending on the disease. The degree of completeness of data reporting might be influenced by the diagnostic facilities available; control measures in effect; public awareness of a specific disease; and interests, resources, and priorities of state and local officials responsible for disease control and public health surveillance. Finally, factors such as changes in methods for public health surveillance, introduction of new diagnostic tests, or discovery of new disease entities can cause changes in disease reporting that are independent of the true incidence of disease.

Public health surveillance data are published for selected racial and ethnic populations because these variables can be risk markers for certain notifiable diseases. Race and ethnicity data also can be used to highlight populations for focused prevention efforts. However, caution must be used when drawing conclusions from reported race and ethnicity data. Different racial/ethnic populations might have different patterns of access to health care, potentially resulting in data that are not representative of actual disease incidence among specific racial/ethnic populations. Surveillance data reported to NNDSS are in either individual case-specific form or summary form (i.e., aggregated data for a group of cases). Summary data often lack demographic information (e.g., race); therefore, the demographic-specific incidence rates presented in the *Summary* might be underestimated.

In addition, not all race and ethnicity data are collected uniformly for all diseases. For example, certain disease programs collect data on race and ethnicity by using one or two variables, based on the 1977 standards for collecting such data issued by the Office of Management and the Budget (OMB). However, beginning in 2003, certain CDC programs, including the tuberculosis program, implemented OMB's 1997 revised standards for collecting such data; these programs collect data on multiple races per person by using multiple race variables. Additionally, although the recommended standard for classifying a person's race or ethnicity is based on selfreporting, this procedure might not always be followed.

Highlights for 2003

Below are summary highlights for certain national notifiable diseases. Highlights are intended to assist in the interpretation of major occurrences that affect disease incidence or surveillance trends (e.g., outbreaks, vaccine licensure, or policy changes).

AIDS

Since 1981, confidential name-based AIDS surveillance has been the cornerstone of national, state, and local efforts to monitor the scope and impact of the HIV epidemic. The data have many uses, including developing policy to help prevent and control AIDS. However, because of the introduction of therapies that effectively slow the progression of the infection, AIDS data no longer adequately represent the populations affected by the epidemic. By providing a window into the epidemic at an earlier stage, HIV data, combined with AIDS data, better represent the overall impact. As of the end of 2003, a total of 40 areas (35 states, Puerto Rico and four U.S. territories) had implemented confidential name-based HIV reporting. These 40 areas have integrated name-based HIV surveillance into their AIDS surveillance systems, whereas other jurisdictions have used other methods for reporting cases of HIV infection. Under no configuration are names or other personal identifying information collected at the national level.

During 1998–1999, declines in AIDS rates began to level. The number of reported cases in 2003 was essentially the same as the number in 1999. This trend follows a period of sharp declines in reported cases after 1996, when highly effective antiretroviral therapies were introduced. At the end of 2003, an estimated 405,926 persons were living with AIDS. After a dramatic decrease in the number of deaths among persons with AIDS during the late 1990s, the rate of decrease flattened through 2003. The number of deaths among persons with AIDS decreased 65% during 1995–1999. During 1999–2003, the number of deaths reported annually decreased 3%.

Brucellosis

By 2003, the National Brucellosis Eradication Program had nearly eliminated *Brucella abortus* infection from U.S. cattle herds. The risk of contracting brucellosis through occupational exposure to livestock in the United States or consumption of domestically produced dairy products therefore is minimal. Consumption of unpasteurized dairy products from outside the United States continues to pose a risk of infection with *B. abortus* or *B. melitensis*. The majority of U.S. cases of brucellosis occur among returned travelers or recent immigrants from areas in which *Brucella* species are endemic. Hunters exposed to infected wildlife might also be at increased risk for infection. Laboratory personnel working with *Brucella* species should follow recommended biosafety precautions. *Brucella* species are considered category-B biologic threat agents.

Chlamydia trachomatis, Genital Infection

During 2003, a total of 877,478 cases of genital chlamydial infection were reported. Rates were the highest since voluntary case reporting began in the mid-1980s and the highest since genital chlamydial infection became a nationally notifiable disease in 1995 (1). This increase is attributable in part to continued expansion of chlamydia screening programs and increased use of more sensitive diagnostic tests for this condition. During 1999–2003, the reported chlamydial infection rate among men increased 58% compared with a 27% increase among women. However, the rate reported among men, reflecting the larger number of women screened and tested for this disease.

1. CDC. Sexually transmitted disease surveillance, 2003. Atlanta, GA: US Department of Health and Human Services, CDC; 2004.

Cholera

During 1995–2003, a total of 68 laboratory-confirmed cases of cholera, all caused by *Vibrio cholerae* O1, were reported to CDC. Of these infections, 44 (65%) were acquired outside the United States, and six (9%) were acquired through consumption of contaminated seafood harvested in Gulf Coast waters. One patient died (1). Only two laboratory-confirmed cases of cholera were reported to CDC in 2003. Both were caused by *Vibrio cholerae* O1 and were acquired outside the United States. Both isolates were resistant to furazolidone. Production and sale of the only licensed cholera vaccine in the United States ceased in 2001. Worldwide, fewer (111,575) cases of cholera were reported to the World Health Organization from fewer (45) countries in 2003 than in any year since 1993 (2).

- Steinberg EB, Greene KD, Bopp CA, Cameron DN, Wells JG, Mintz ED. Cholera in the United States, 1995–2000: trends at the end of the millennium. J Infect Dis 2001;184:799–802.
- 2. World Health Organization. Cholera, 2003. Wkly Epidemiol Rec 2004;31:281-88.

Coccidioidomycosis

In recent years, Arizona and California have experienced substantial increases in the incidence of coccidioidomycosis. This increase is likely related to demographic and climatic changes. Physicians should maintain a high suspicion for acute coccidioidomycosis, especially among patients with a flu-like illness who live in or have visited areas in which disease is endemic.

Diptheria

One fatal, confirmed case of diphtheria was reported to CDC in 2003 (1). The patient was a Pennsylvania man aged 63 years who had spent 1 week in Haiti and had a sore throat 1 day before returning to Pennsylvania. He reported never having been vaccinated against diphtheria. On day 4 of illness, the patient was hospitalized with stridor and a swollen neck and was intubated. Despite administration of antibiotics, the patient's condition worsened, and on day 8 of illness, an extensive membrane was noted when tracheostomy was performed. Diphtheria antitoxin was administered; polymerase chain reaction testing of a membrane sample was positive for Corynebacterium diphtheriae toxin genes at CDC. After 17 days of illness, cardiac complications ensued, and the patient died. No additional cases or carriers were detected among the patient's traveling companions or among household or hospital contacts.

1. CDC. Fatal respiratory diphtheria in a U.S. traveler to Haiti-2003. MMWR 2003;52:1285-6.

Enterohemorrhagic Escherichia coli

Escherichia coli O157:H7 has been nationally notifiable since 1994 (1). In 2000, the Council for State and Territorial Epidemiologists passed a resolution in which all Shiga toxin-producing E. coli were made nationally notifiable under the name Enterohemorrhagic E. coli (EHEC); national surveillance for EHEC began in 2001. Surveillance categories for EHEC include 1) EHEC O157:H7; 2) EHEC, serogroup non-O157; and 3) EHEC, not serogrouped. Reported infections with the most well-known pathogen in this group, E. coli O157:H7, increased annually during 1994-1999, to a peak of 4,744 cases. This increase in the number of cases was attributable in part to the increasing ability of laboratories to identify this pathogen. During 1996-2002, incidence of diagnosed infections with E.coli O157:H7 reported by active surveillance through FoodNet did not change substantially, although it decreased in 2003 (2).

During 2003, a total of 3,079 cases of *E. coli* were reported from 50 states, the District of Columbia, and Puerto Rico. Of these, 2,671 (87%) were classified as EHEC O157:H7; 252 (8%) as EHEC, serogroup non-O157; and 156 (5%) as EHEC, not serogrouped. The majority (54%) of cases were reported during August–November.

Healthy cattle, which harbor the organism as part of the bowel flora, are the main animal reservoir for *E. coli* O157:H7 and other Shiga-toxin producing *E. coli*. The majority of reported outbreaks are caused by contaminated food or water. Reported cases of *E. coli* O157:H7 infection have decreased since 2000, following implementation of U.S. Department of Agriculture measures to reduce contamination of meat through improved processing. Direct transmission from animals and their environments to humans in settings such as petting zoos and other animal exhibits remains a growing public health concern (*3*,*4*).

- 1. Mead PS, Griffin PM. *Escherichia coli* O157:H7. Lancet 1998;352: 1207–12.
- CDC. Preliminary FoodNet Data on the incidence of infection with pathogens transmitted commonly through food—selected sites, United States, 2003. MMWR 2004;53:338–43.
- CDC. Outbreak of *Escherichia coli* O157:H7 infections among children associated with farm visits—Pennsylvania and Washington, 2000. MMWR 2001;50:293–7.
- 4. Crump JA, Sulka AC, Langer AJ, et al. An outbreak of *Escherichia coli* O157:H7 infections among visitors to a dairy farm. N Engl J Med 2002;347:555–60.

Gonorrhea

During 2003, a total of 335,104 cases of gonorrhea were reported (1). Gonorrhea rates were slightly lower than rates during 1999-2002. In 2003, for the first time, the reported gonorrhea rate among women (118.8 per 100,000) was greater than that reported for men (113.0 per 100,000). Rates among non-Hispanic black women aged 15-19 years (2,947.8 per 100,000) and non-Hispanic black men aged 20-24 years (2,649.8 per 100,000) remain higher than those for any other racial/ethnic population or age group. Decreased susceptibility to fluoroquinolone antibiotics has also been reported from certain regions (2). In 2003, the prevalence of fluoroquinolone-resistant Neisseria gonorrhoeae infections continued to increase, particularly among men who have sex with men (MSM). Fluoroquinolones are no longer advised for treatment of gonorrhea in Hawaii or California or for infections among MSM (3).

- 1. CDC. Sexually transmitted disease surveillance 2003. Atlanta, GA: US Department of Health and Human Services, CDC, 2004.
- CDC. Increases in fluoroquinolone-resistant *Neisseria gonorrhoeae* among men who have sex with men—United States, 2003, and revised recommendations for gonorrhea treatment, 2004. MMWR 2004;53:335–8.

 CDC. Sexually transmitted diseases treatment guidelines, 2002. MMWR 2002;51(No. RR-6).

Haemophilus influenzae

In 2003, a total of 376 cases of invasive Haemophilus influenzae disease among children aged <5 years were reported; 32 (9%) were reported as *H. influenzae* type b (Hib), 117 (31%) were reported as other serotypes or nontypeable isolates, and 227 (60%) were reported with serotype information unknown or missing. The continued low number of invasive Hib infections among children (from an estimated 20,000 cases annually in the prevaccine era) is a result of the successful delivery of highly effective conjugate Hib vaccines to children, beginning at age 2 months (1,2). Because discrepancies in serotyping results have occurred among laboratories, CDC requests that state health departments obtain and send all invasive *H. influenzae* isolates from children aged <5 years to CDC for serotype confirmation (3,4).

- 1. CDC. Progress toward elimination of *Haemophilus influenzae* type b disease among infants and children—United States, 1998–2000. MMWR 2002;51:234–7.
- 2. Zhou F, Bisgard KM, Yusuf H., et al. Impact of universal *Haemophilus influenzae* type b vaccination starting at 2 months of age in the United States: an economic analysis. Pediatrics 2002;110:653–61.
- LaClaire LL, Tondella ML, Beall DS et al. Identification of *Haemophilus* influenzae serotypes by standard slide agglutination serotyping and PCRbased capsule typing. J Clin Micro 2003;41:393–6.
- CDC. Serotyping discrepancies in *Haemophilus influenzae* type b disease— United States, 1998–1999. MMWR 2002;51:706–7.

Hemolytic Uremic Syndrome, Postdiarrheal

Hemolytic uremic syndrome (HUS) is a syndrome defined by the triad of hemolytic anemia, thrombocytopenia, and renal insufficiency. The patients reported in national notifiable diseases surveillance include only those with antecedent diarrheal illness. The most common etiology of HUS in the United States is infection with a Shiga toxin-producing *Escherichia coli*, principally *E. coli* O157:H7. However, persons infected with *E. coli* O157:H7 rarely progress to HUS (*1,2*). During 2003, a total of 178 cases of HUS were reported from 32 states; of these, 118 (66%) occurred among children aged <10 years.

- 1. Banatvala N, Griffin PM, Greene KD, et al. The United States prospective hemolytic uremic syndrome study: microbiologic, serologic, clinical, and epidemiologic findings. J Infect Dis 2001;183:1063–70.
- 2. CDC. *Escherichia coli* O111:H8 outbreak among teenage campers— Texas, 1999. MMWR 2000;49:321–4.

Hepatitis A

Hepatitis A vaccine is recommended for persons at increased risk of hepatitis A (e.g., international travelers, men who have sex with men [MSM], injection-drug users [IDUs], and noninjection-drug users) (1) and also for children in states and counties that have historically had consistently elevated rates of hepatitis A (2). Since routine childhood vaccination was recommended in 1996, the overall hepatitis A rate has declined steadily, and in 2003, it was the lowest (2.7 per 100,000) yet recorded, with 7,653 cases reported. The decline in rates has been greater among children and in states where routine childhood vaccination is recommended, suggesting an effect of childhood vaccination.

The dramatic declines in disease rates in the age groups and areas in the United States that have historically accounted for the majority of reported cases have resulted in a shift in the epidemiology of this disease. Hepatitis A rates, which historically were much higher in the western states, are now similar in all regions of the United States, and an increasing proportion of cases occur among adults, particularly those in populations at high risk (e.g., MSM).

Despite declining overall rates, outbreaks continue to occur. In 2003, several foodborne outbreaks were reported, including one in Pennsylvania that accounted for more than 500 cases; the produce implicated in each outbreak was believed to have been contaminated during harvest (*3*).

- 1. CDC. Prevention of hepatitis A through active or passive immunization. MMWR 1996;45(No. RR-15).
- CDC. Prevention of hepatitis A through active or passive immunization: recommendations of the Advisory Committee on Immunization Practices. MMWR 1999;48(No. RR-12).
- CDC. Hepatitis A outbreak associated with green onions at a restaurant— Monaca, Pennsylvania, 2003. MMWR 2003;52;47:1155–7.

Hepatitis B

In 2003, a total of 7,526 acute hepatitis B cases were reported, representing a 64% decrease since 1990, when 21,102 cases were reported. The steady decline in hepatitis B rates coincides with the implementation of a national strategy to eliminate hepatitis B virus (HBV) (1). The primary elements of this strategy are screening all pregnant women for HBV infection with the provision of postexposure prophylaxis to infants born to infected women, routine vaccination of all infants and children aged <19 years; and vaccination of others at increased risk for hepatitis B (e.g., health-care workers, men who have sex with men [MSM], injection-drug users [IDUs], and household and sex contacts of persons with chronic HBV infection). In 2003, the rate among children aged <12 years, the cohort born since routine infant vaccination was implemented, was 0.02 per 100,000 population, representing a decline of >98% compared with the equivalent age group in 1990. Rates among adolescents aged 12–19 years have declined 90% since 1990 although the rate of decline among this age group, in contrast to that in the younger age group, has slowed in recent years.

Rates among adults declined 63% during 1990–1999 but have since remained stable. Among adults, a high proportion of cases occur among persons in identified highrisk populations (i.e., IDUs, MSM, and persons with multiple sex partners) indicating a need to strengthen efforts to reach these populations with vaccine.

 CDC. Hepatitis B virus: a comprehensive strategy for eliminating transmission in the United States through universal childhood vaccination. MMWR 1991;40(No. RR-13).

Hepatitis C

Monitoring acute hepatitis C rates nationally has been challenging because 1) available serologic tests cannot distinguish acute infection from past or chronic infection, and 2) not all health departments have the resources to determine if a positive laboratory report for hepatitis C virus (HCV) infection represents acute infection. Consequently, the most reliable estimates of acute hepatitis C incidence have historically come from sentinel surveillance. Incidence of hepatitis C has declined >80% since the late 1980s, primarily because of a decrease in the number of cases among injection-drug users, the reasons for which are unknown. The majority of hepatitis C cases continue to occur among persons aged >25 years, with injection-drug use being the most common risk factor for infection.

In recent years, analysis of data on acute, symptomatic hepatitis C collected through the National Notifiable Diseases Surveillance System has yielded results similar to those from sentinel surveillance, indicating that the quality of national surveillance data for acute hepatitis C has improved. Direct reporting of anti-HCV–positive test results by laboratories has increased the completeness of reporting of HCVinfected persons to health departments. The reporting of other available laboratory or clinical data would improve surveillance for hepatitis C by providing information to identify patients with acute disease. Improving the accuracy of hepatitis C surveillance data continues to be important because monitoring hepatitis C incidence trends provides information needed to evaluate the effectiveness of prevention efforts and identify additional opportunities for prevention.

HIV Infection, Adult

By December 2003, all 50 states and the District of Columbia had implemented HIV surveillance systems, including both name-based and nonname-based systems. Since 1999, a total of 33 areas (32 states and the U.S. Virgin Islands) have had laws or regulations requiring name-based confidential reporting for adults/adolescents with confirmed HIV infection, in addition to reporting of persons with AIDS. In 2002, CDC initiated a system to monitor HIV incidence; in 2003, CDC expanded this system and also initiated a national HIV behavioral surveillance system. CDC will assess the implementation and effectiveness of prevention activities through multiple monitoring systems, including use of new performance indicators for state and local health departments and community-based organizations (1).

At the end of 2003, a total of 172,952 adults and adolescents in the 33 areas were living with HIV infection (not AIDS). The prevalence rate of HIV infection (not AIDS) in this group was 128 per 100,000 population (2). In these areas, 2003 was the first complete year of name-based surveillance; data from additional areas will be included in analyses when ≥ 1 year of case reports has accrued.

- 1. CDC. Advancing HIV prevention: new strategies for a changing epidemic—United States, 2003. MMWR 2003;52:329–32.
- CDC. HIV/AIDS surveillance report, 2003. Atlanta, GA: US Department of Health and Human Services, CDC. Vol. 15. Available at http://www.cdc.gov/hiv/stats/2003surveillancereport.pdf.

HIV Infection, Pediatric

In the 33 areas (32 states and the U.S. Virgin Islands) that have had laws or regulations since 1999 requiring confidential name-based reporting for children (aged <13 years) with confirmed HIV infection, an estimated 1,687 children were living with HIV infection (not AIDS) at the end of 2003. The prevalence rate of HIV infection (not AIDS) in this group was 5.6 per 100,000 population (1).

CDC. HIV/AIDS surveillance report, 2003. Atlanta, GA: US Department of Health and Human Services, CDC, Vol. 15. Available at http://www.cdc.gov/hiv/stats/2003surveillancereport.pdf.

Listeriosis

Listeriosis is a severe but relatively uncommon infection caused by *Listeria monocytogenes*; it was made a nationally notifiable disease in 2000. Listeriosis is primarily foodborne and occurs most frequently among persons who are older, pregnant, or immunocompromised. During 2003, a total of 696 cases of listeriosis were reported from 46 states and the District of Columbia; the majority (57%) of cases occurred among persons aged >60 years. Incidence was highest (1.52 per 100,000 population) among infants aged <1 year, probably reflecting perinatal transmission from mothers who were infected during pregnancy by ingesting contaminated food.

Molecular subtyping of L. monocytogenes isolates and sharing of that information through PulseNet has enhanced the ability of public health officials to detect and investigate outbreaks of listeriosis. Recent outbreaks have been linked to ready-to-eat meat (1) and unpasteurized cheese (2). In 2003, incidence of listeriosis as reported to FoodNet active surveillance was 0.33 per 100,000 population (3). In January 2001, the Food and Drug Administration (FDA), CDC, and the U.S. Department of Agriculture (USDA) released a national Listeria Action Plan to help guide control efforts by industry, regulators, and public health officials (4). In November 2003, FDA and CDC updated their components of the Action Plan (5). Also in 2003, USDA issued new regulations aimed at further reducing L. monocytogenes contamination of ready-to-eat meat and poultry products (6). 1. CDC. Outbreak of listeriosis-northeastern United States, 2002.

- MMWR 2002;51:950–1.
 CDC. Outbreak of listeriosis associated with homemade Mexican-style cheese—North Carolina, October 2000–January 2001. MMWR 2002;50;560–2.
- CDC. Preliminary FoodNet data on the incidence of infection with pathogens transmitted commonly through food—selected sites, United States, 2003. MMWR 2004;53:338–43.
- Food and Drug Administration, CDC, and US Department of Agriculture. Reducing the risk of *Listeria monocytogenes*: joint response to the President. Available at http://www.foodsafety.gov/~dms/lmriplan.html.
- 5. Food and Drug Administration. Reducing the risk of *Listeria monocytogenes*: FDA/CDC 2003 update of the Listeria Action Plan. Available at http://www.cfsan.fda.gov/~dms/lmr2plan.html.
- 6. US Department of Agriculture, Food Safety and Inspection Service. Control of *Listeria monocytogenes* in ready-to-eat meat and poultry products; Final Rule. Federal Register 2003;68:34208–54.

Lyme Disease

A total of 21,273 cases of Lyme disease were reported in 2003, approximately 10% fewer cases than were reported in 2002. As in previous years, >90% of cases were reported from the northeastern and north-central United States. The number of Lyme disease cases reported for Pennsylvania in 2003 included 4,722 confirmed cases and 1,008 suspected cases. In contrast, the number of suspected Lyme disease cases reported annually for Pennsylvania during 2000–2002 ranged from two to 11 cases. The increase in the number of suspected cases is attributable to changes in reporting practices.

The only Lyme disease vaccine licensed in the United States (LYMErix[®]) was removed from the market in February 2002, reportedly because of poor sales. Nevertheless, new prevention tools and techniques are becoming available.

Recent studies indicate that peridomestic tick exposure can be reduced substantially through simple landscaping changes, and bait boxes that deliver rodent-targeted acaricide are now available through certain pest control operators. Other products under development include devices for reducing ticks on deer and naturally occurring fungi that kill ticks on vegetation.

Measles

A total of 56 confirmed measles cases, two of them fatal, were reported during 2003 by 15 states. Of the 56 cases, 24 were internationally imported, and 19 resulted from exposure to persons with imported infections. In two other cases, virologic evidence indicated an imported source. The sources for the remaining 11 cases were classified as unknown because no link to importation was detected. Three outbreaks occurred in 2003 (size range: 3–12 cases) (1,2). The 12-case outbreak was in Hawaii and included persons aged 3 months–21 years; this outbreak began simultaneously with a measles outbreak in the Republic of the Marshall Islands, which resulted in 826 cases and three deaths (3). 1. CDC. Epidemiology of measles—United States, 2001–2003. MMWR

- 1. CDC. Epidemiology of measles—United States, 2001–2003. MMWR 2004:53:713–5.
- CDC. Measles, mumps, and rubella–vaccine use and strategies for elimination of measles, rubella, congenital rubella syndrome and control of mumps: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1998;47(No. RR-8).
- CDC. Measles epidemic—Majuro Atoll, Republic of the Marshall Islands, July 13–September 13, 2003. MMWR 2003;52:888–9.

Pertussis

During 2003, a total of 11,647 cases of pertussis were reported (incidence: 4.0 per 100,000 population), the highest number of reported cases since 1964. Of the cases for which age was reported, 1,982 (17%) occurred among infants aged <6 months, who were too young to have received the first 3 of the 5 doses of diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccine recommended by age 6 years. This age group had the highest reported incidence (103.1 per 100,000 population). Among the other pertussis cases, 235 occurred among children aged 6–11 months (12.2 per 100,000); 1,138 among children aged 1–4 years (7.5 per 100,000); 852 among children aged 5–9 years (4.4 per 100,000); 4,540 among persons aged 10–19 years (11.1 per 100,000); and 2,854 among persons aged >20 years (1.4 per 100,000).

Pertussis continues to cause morbidity in the United States despite high coverage levels for childhood pertussis vaccine. The incidence of reported pertussis has increased from 2.5 per 100,000 population in 1993 to 4.0 per 100,000 in 2003. How much of this increase is caused by increased recognition and better reporting of cases is unclear (1,2). Although infants have the highest morbidity associated with pertussis (during the 1990s, approximately 18,500 cases were reported among infants, of whom 67% were hospitalized [3]), adolescents now account for the majority of reported cases. Adolescents and adults can become susceptible to disease when vaccine-induced immunity wanes, approximately 5–10 years after pertussis vaccination (2).

The actual number of pertussis cases (especially among adolescents and adults) continues to be substantially underreported because the pertussis cough illness resembles other conditions, infected persons might not seek medical care, and availability of reliable diagnostic tests is limited. Culture for *Bordetella pertussis* is highly specific but has low sensitivity. Polymerase chain reaction is not standardized, and its use has led to overdiagnosis of pertussis during certain outbreaks (4). New strategies are needed to reduce the burden of pertussis disease in the United States; pertussis vaccines for adolescents and adults are under review by the Food and Drug Administration.

- 1. CDC. Pertussis-United States, 1997-2000. MMWR 2002;51:73-6.
- Guris D, Strebel PM, Bardenheier B et al. Changing epidemiology of pertussis in the United States: increased reported incidence among adolescents and adults, 1990–1996. Clin Infect Dis 1999;28:1230–7.
- Tanaka M, Vitek CR, Pascual B et al. Trends in pertussis among infants in the United States, 1980–1999. JAMA 2003;290:2968–75.
- 4. Lievano FA, Reynolds MA, Waring AL, et al. Issues associated with and recommendations for using PCR to detect outbreaks of pertussis. J Clin Microbiol 2002;40:2801–5.

Salmonellosis

During 2003, a total of 43,657 cases of salmonellosis were reported, of which 17,608 (40%) occurred among children aged <15 years. As in previous years, the majority (67%) of reported cases occurred during July-October. Salmonella isolates are reported by serotype through the Public Health Laboratory Information System. Two serotypes, S. enterica serotype Typhimurium and S. enterica serotype Enteritidis, have ranked as the two most frequent reported isolates since 1993 (1). A substantial proportion of S. enterica serotype Typhimurium and S. enterica serotype Newport isolates are resistant to multiple drugs; national surveillance of S. enterica serotype Typhimurium strains conducted in 2002 indicated that 40% were resistant to one or more drugs and that 34% had a five-drug resistance pattern characteristic of a single phage type, DT104 (2). During 1998-2002, the proportion of multiple drug-resistant strains of S. enterica serotype Newport increased dramatically; 22% had a five-drug resistance pattern in 2002 compared with 1% in 1998 (2,3).

- CDC. PHLIS surveillance data. Salmonella annual summaries. Atlanta, GA: US Department of Health and Human Services, CDC;2002. Available at http://www.cdc.gov/ncidod/dbmd/phlisdata/salmonella.htm.
- CDC. Human isolates final report, 2002. The National Antimicrobial Resistance Monitoring System: enteric bacteria. Atlanta, GA: US Department of Health and Human Services, CDC; 2002. Available at http://www.cdc.gov/narms.
- 3. Gupta A., Fontana J, Crowe C, et al. Emergence of multi-drug resistant *Salmonella enterica* serotype Newport infections resistant to expanded-spectrum cephalosporins in the United States. J Infect Dis 2003;188:1707–16.

SARS-CoV

On March 12, 2003, the World Health Organization (WHO) issued a global alert for severe acute respiratory syndrome (SARS), a potentially fatal new infectious disease that can spread rapidly from person to person and via international air travel. WHO and its partners, including CDC, initiated a rapid, intensive, and coordinated investigative and control effort that led within 2 weeks to the identification of the etiologic agent, SARS-associated coronavirus (SARS-CoV), and to a series of effective containment efforts. By July 2003, when SARS-CoV transmission was brought to an end, >8,000 cases and 780 deaths had been reported to WHO (1). Of the 161 total cases reported from the United States, 134 were classified as suspected; 19 were classified as probable; and eight were laboratory confirmed (2). As of July 1, 2003, SARS-CoV disease was added to the list of nationally notifiable diseases. 1. World Health Organization. Summary table of SARS cases by country,

- world readin Organization. Summary taste of Strues cases by country, 1 November, 2002–7 August, 2003. Available at http://www.who.int/ csr/sars/country/2003_08_15/en.
- CDC. Severe Acute Respiratory Syndrome (SARS): report of cases in the United States, 2003. Atlanta GA: US Department of Health and Human Services; 2003. Available at http://www.cdc.gov/od/oc/media/presskits/ sars/cases.htm.

Shigellosis

Shigella sonnei infections continue to account for >75% of shigellosis cases in the United States (1). Prolonged, multistate outbreaks of *S. sonnei* infections that are transmitted in child care centers in which maintaining good hygienic conditions requires special attention account for much of the problem (2). During June 2001–March 2003, one such outbreak in six eastern states accounted for >3,000 laboratory-confirmed infections (3). *S. sonnei* can also be transmitted through contaminated foods and through water used for drinking or recreational purposes (1). A new serotype of *Shigella boydii* has been reported in the United States and Canada (4).

- 1. Gupta A, Polyak CS, Bishop RD, Sobel J, Mintz ED. Laboratoryconfirmed shigellosis in the United States, 1989–2002: epidemiologic trends and patterns. Clin Infect Dis 2004;38:1372–7.
- 2. Shane A, Crump J, Tucker N, Painter J, Mintz E. Sharing *Shigella*: risk factors and costs of a multi-community outbreak of shigellosis. Arch Pediatr Adolesc Med 2003;157:601–3.
- 3. CDC. Day-care related outbreaks of rhamnose-negative *Shigella sonnei*—six states, June 2001–March 2003. MMWR 2004;53:60–3.
- Kalluri P, Cummings K, Abbott S, et al. Epidemiological features of a newly described serotype of *Shigella boydii*. Epidemiol Infect 2004;132;579–83.

Streptococcal Disease, Invasive, Group A

In 2003, approximately 1,190 invasive group A streptococcus (GAS) infections were reported by nine sites participating in the Active Bacterial Core Surveillance (ABCs) project of CDC's Emerging Infections Program (1). Passive reporting likely underestimates the number of invasive GAS infections in the United States. CDC estimates that approximately 11,000 cases of invasive GAS disease and 1,700 deaths occurred nationally during 2003. The incidence of invasive GAS infections in the United States has been relatively stable during the past 5 years (range: 3.1–3.8 per 100,000).

 CDC. Active Bacterial Core Surveillance report. Emerging Infections Program Network, Group A Streptococus, 2003—preliminary. Atlanta, GA: US Department of Health and Human Services, CDC; 2003. Available at http://www.cdc.gov/ncidod/dbmd/abcs/survreports/gas03prelim.pdf.

Streptococcus pneumoniae, Invasive Disease, Drug-Resistant

In 2003, the Active Bacterial Core Surveillance (ABCs) project of CDC's Emerging Infections Program (1) collected information on invasive pneumococcal disease, including drugresistant Streptococcus pneumoniae, in nine states (California, Colorado, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee). For the third straight year, the proportion of pneumococcal isolates that were drug resistant declined. Of the 3,075 S. pneumoniae isolates collected in 2003, 10.0% exhibited intermediate resistance to penicillin (minimum inhibitory concentration [MIC] 0.1-1.0 µg/mL), and 9.9% were fully resistant (MIC >2 μ g/mL) (2). For cefotaxime, 2.3% of all isolates had intermediate resistance, and 0.8% were fully resistant in 2003. For erythromycin, 17.4% were resistant. Approximately one in eight (12.3%) isolates had reduced susceptibility to at least three classes of drugs commonly used to treat pneumococcal infections, a decline from a peak of one in five (18.3%) isolates in 2000.

In February 2000, the Food and Drug Administration licensed a pneumococcal conjugate vaccine for use in infants and young children. In October 2000, the Advisory Committee on Immunization Practices issued recommendations for vaccination of children aged <5 years (3). Vaccine use has reduced rates of invasive pneumococcal disease markedly among children, the vaccine's target age group, and among unvaccinated older persons and has also reduced racial disparities in disease risk (4).

- Schuchat A, Hilger T, Zell E, et al. Active Bacterial Core Surveillance of the Emerging Infections Program Network. Emerg Infect Dis 2001;7:1–8. Available at http://www.cdc.gov/ncidod/eid/vol7no1/schuchat.htm.
- NCCLS. Performance standards for antimicrobial susceptibility testing: 13th informational supplement [No. M100-S13]. Wayne, PA: NCCLS; 2003.
- CDC. Preventing pneumococcal disease among infants and young children: recommendations of the Advisory Committee on Immunization Practices. MMWR 2000;49(No. RR-9).
- Flannery B, Schrag S, Bennett NM, et al. Impact of childhood vaccination on racial disparities in invasive *Streptococcus pneumoniae* infections in the United States, 1998–2002. JAMA 2004;291:2197–203.

Syphilis, Congenital

During 2003, a total of 413 cases of congenital syphilis were reported (10.3 per 100,000 live births), compared with 412 in 2002. As with primary and secondary syphilis, the rate of congenital syphilis has declined sharply in recent years, from a peak of 107.3 per 100,000 in 1991 (1). The continuing decrease in the rate of congenital syphilis likely reflects the substantial reduction in the rate of primary and secondary syphilis among women. Congenital syphilis persists in the United States because a substantial number of women do not receive syphilis serologic testing until late in their pregnancies or not at all. This lack of screening is often related to absent or late prenatal care (2).

1. CDC. Sexually transmitted disease surveillance 2003. Atlanta, GA: US Department of Health and Human Services, CDC; 2004.

2. CDC. Congenital syphilis-United States, 2002. MMWR 2004;53:716-9.

Syphilis, Primary and Secondary

During 2003, a total of 7,177 primary and secondary syphilis cases were reported, compared with 6,862 cases in 2002. During 1990–2000, the primary and secondary syphilis rate declined 90%, from 20.34 per 100,000 population to 2.12 per 100,000. The 2000 rate was the lowest since reporting began in 1941. The 2003 rate (2.5 per 100,000) marks the third consecutive year of increases in the overall rate. The 2003 rate was 19% higher than the reported rate in 2000 and reflects a 62% increase among men from 2000 and a 53% decrease among women (*1*). This disparity between men and women, observed across all racial and ethnic populations, along with reported outbreaks of syphilis in large urban areas among men who have sex with men (MSM), indicates that increases in syphilis are continuing to occur among MSM. Rates remain disproportionately high in the South and among non-Hispanic blacks, but these rates are continuing to decline (1,2).

- 1. CDC. Sexually transmitted disease surveillance, 2003. Atlanta, GA: US Department of Health and Human Services, CDC; 2004.
- 2. CDC. Primary and secondary syphilis—United States, 2002. MMWR 2003;52:1117–20.

Tetanus

In 2003, a total of 20 cases of tetanus were reported from 13 states and the District of Columbia. Four (20%) cases occurred among persons aged <25 years; none occurred among persons aged <18 years or neonates. Ten (50%) cases occurred among persons aged 25–59 years, and six (30%) cases occurred among persons aged 25–59 years. Although the annual number of reported cases continues to decrease, the percentage of cases among persons aged 25–59 years has increased during the last decade; previously, the majority of cases occurred among persons aged >60 years (1,2). Two (10%) cases were fatal.

- Pascual FB, McGinley EL, Zanardi LR, Cortese MM, Murphy TV. Tetanus surveillance—United States, 1998–2000. In: Surveillance Summaries, June 20, 2003. MMWR 2003;52(No. SS-3):1–8.
- Bardenheier B, Prevots DR, Khetsuriani N, Wharton M. Tetanus surveillance—United States, 1995–1997. In: CDC Surveillance Summaries, July 3, 1998. MMWR 1998;47(No. SS-2):1–13.

Tuberculosis

During 2003, a total of 14,874 tuberculosis (TB) cases (rate: 5.1 cases per 100,000 population) were reported to CDC from the 50 states and the District of Columbia, representing a 1.3% decrease in cases and a 1.9% decrease in the rate from 2002. This decline is the smallest since 1992, when TB incidence peaked after a 7-year resurgence (1). In addition, the rate remains higher than the national interim objective of 3.5 cases per 100,000 population that was set for 2000 (2).

Disparities in TB rates persist among racial/ethnic minority populations. In descending order, the highest rates per 100,000 population were reported among Asians (29.3 [3,425 cases]), Native Hawaiian or Other Pacific Islanders (21.8 [85 cases]), non-Hispanic blacks (11.6 [4,145 cases]), Hispanics (10.6 [4,115 cases]), American Indian or Alaska Natives (6.1 [176 cases]), and non-Hispanic whites (1.4 [2,790 cases]). In 2003, for the first time, Hispanics (28%) equaled blacks (28%) as the racial/ethnic population with the largest percentage of cases prevalent (I).

In 2003, foreign-born persons accounted for 53% (7,902 cases) of the national case total, and 25 states reported at least 50% of their cases among foreign-born persons (1). The foreign-born prevalence represents an increase from 1993, when foreign-born persons accounted for 29% (7,354) of the national case total, and five states reported \geq 50% of their cases among foreign-born persons (1). The TB rate among foreign-born persons has declined since 1993 (from 33.6 per 100,000 population in 1993 to 23.6 per 100,000 in 2003), but the decline among U.S.-born persons has been greater (from 7.4 in 1993 to 2.7 in 2003). In 2003, the case rate was 8.7 times greater among foreign-born persons than among U.S.-born persons; since 1993, this rate ratio has been increasing steadily.

CDC is collaborating with public health partners to implement TB control initiatives for recent international arrivals and residents along the border between the United States and Mexico and to strengthen TB programs in countries with a high incidence of TB disease (2). CDC has recently updated its comprehensive national action plan to reflect the realignment of its priorities with the 2000 Institute of Medicine report (3) and to ensure that priority prevention activities are undertaken with optimal collaboration and coordination among national and international public health partners (4). 1. CDC. Reported tuberculosis in the United States, 2003. Atlanta, GA:

- US Department of Health and Human Services, CDC; 2004. Available at http://www.cdc.gov/nchstp/tb/surv/surv2003/default.htm.
- 2. CDC. Trends in tuberculosis morbidity—United States, 1998–2003. MMWR 2004;53:209–14.
- 3. Institute of Medicine. Ending neglect: the elimination of tuberculosis in the United States. Washington, DC: National Academy Press; 2000.
- 4. CDC. CDC's response to ending neglect: the elimination of tuberculosis in the United States. Atlanta, GA: US Department of Health and Human Services, CDC; 2002.

Tularemia

A total of 129 cases of tularemia were reported in 2003, compared with an annual average of 120 cases for the preceding 3 years. Noteworthy were cases involving a child who apparently acquired tularemia from exposure to pet hamsters, an outbreak among commercially distributed prairie dogs, an unusual case of intra-abdominal tularemia in a patient with stomach cancer (1), and a cluster of pneumonic tularemia cases among lawn-care workers who mowed over a dead rabbit.

1. Han XY, HoLX, Safdar A. *Francisella tularensis* peritonitis in stomach cancer patient. Emerg Infect Dis 2004;10:2238–40.

Typhoid Fever

In 2003, a total of 356 cases of typhoid fever were reported in the United States. Despite recommendations that travelers to countries in which typhoid fever is endemic should be immunized with either of two effective vaccines available in the United States, approximately 74% of these cases occurred among persons who reported international travel during the preceding 6 weeks. Persons visiting friends and relatives in south Asia appear to be at particular risk, even during short visits (1). Salmonella Typhi strains with decreased susceptibility to ciprofloxacin are increasingly common in that region and should be treated with alternative antimicrobial agents (2). S. Typhi outbreaks in the United States are generally limited in size but can cause substantial morbidity; they are most often foodborne and warrant thorough investigation (3). A sexually transmitted outbreak of typhoid fever has been recognized and reported (4).

- 1. Steinberg EB, Bishop RB, Dempsey AF, et al. Typhoid fever in travelers: who should be targeted for prevention? Clin Infect Dis 2004;39:186–91.
- Crump J, Barrett TJ, Nelson JT, Angulo FJ. Reevaluating fluoroquinolones breakpoints for *Salmonella enterica* serotype Typhi and for non-Typhi Salmonellae. Clin Infect Dis 2003;37:75–81.
- Olsen SJ, Bleasdale SC, Magnano AR, et al. Outbreaks of typhoid fever in the United States, 1960–1999. Epidemiol Infect 2003;130:13–21.
- 4. Reller M, Olsen S, Kressel A, et al. Sexual transmission of typhoid fever: a multi-state outbreak among men who have sex with men. Clin Infect Dis 2003;37:141–4.

Varicella Cases and Deaths

In 2003, in all four states (Illinois, Michigan, Texas, and West Virginia) that have maintained consistent and adequate reporting levels[¶] since 1990, the number of varicella cases was the lowest ever reported. Compared with 2002, cases declined 15.6%; compared with the prevaccine period 1993–1995, cases declined 81%. This decrease is associated with rapidly increasing vaccination coverage; during 2002–2003, vaccination coverage among children aged 19–35 months increased from 81% to 85%.

The Council of State and Territorial Epidemiologists (CSTE) recommends that all states establish statewide individual varicella case reporting by 2005 (1). The objectives of varicella surveillance at state and national levels are to 1) monitor the epidemiology of varicella by age and place and over time, 2) monitor the impact of widespread and increasing immunization on the epidemiology of varicella, and 3) allow prompt implementation of disease control measures.

[¶] Number of reported cases constituted ≥5% of the state's annual birth cohort.

In 1999, CSTE recommended that states report varicella deaths to CDC to monitor the impact of routine varicella vaccination on varicella-related mortality (2). In 2003, two states (Arkansas and Maryland) each reported one varicella death; ages of persons at time of death were 12 and 18 years. Reporting of varicella deaths is incomplete, which limits the usefulness of mortality data in assessing the impact of the varicella vaccination program. CDC encourages states to report varicella deaths, so the risk factors for varicella-related mortality can be identified, and the percentage of deaths that would have been directly preventable by following current recommendations for vaccination can be determined.

- Council of State and Territorial Epidemiologists. CSTE position statement 2002-ID-06: varicella surveillance. Atlanta, GA: Council of State and Territorial Epidemiologists; 2002. Available at http://www.cste.org/ position%20statements/02-ID-06.pdf.
- Council of State and Territorial Epidemiologists. CSTE position statement 1998-ID-10: inclusion of varicella-related deaths in the National Public Health Surveillance System (NPHSS). Atlanta, GA: Council of State and Territorial Epidemiologists; 1998. Available at http:// www.cste.org/ps/1998/1998-id-10.htm.

West Nile Virus

During 2003, for the fifth consecutive year, epidemic and epizootic West Nile virus (WNV) activity occurred in the United States, including a substantial epidemic of neuroinvasive WNV disease in the Great Plains states, widespread perennial reemergence in areas of previous activity, and continued geographic expansion into western states.

In 2003, a total of 9,862 human WNV illness cases were reported by 45 states and the District of Columbia (DC). Six states (Colorado, Nebraska, North Dakota, South Dakota, Texas, and Wyoming) accounted for 77% of all reported human cases. Of 9,862 total cases, 2,866 (29%) were neuroinvasive, 6,830 (69%) were uncomplicated fever, and 166 (2%) were clinically unspecified. Of 2,866 neuroinvasive cases reported from 42 states and DC, 232 (8%) were fatal. The 2003 WNV epidemic in the United States was comparable in size to, but focused further west than, the 2002 epidemic, which was centered in states along the Mississippi River Valley (1). Illness onset dates were April 14–December 5; the epidemic peak occurred during the week ending August 16. In 2003, a total of 818 presumptively WNV-viremic blood donors were identified through nationwide blood screening, and investigations were initiated to track birth outcomes among approximately 70 women with WNV illness acquired during pregnancy (2,3). Increased surveillance for human WNV illness cases might have resulted in improved surveillance for other domestic arboviruses of public health importance.

In 2003, WNV activity was reported from 2,358 counties in 46 states and D.C., including first-ever activity in Arizona, Nevada, and Utah, and first evidence of ecologic WNV transmission in California. In addition, 12,066 WNV-infected dead birds were reported from 43 states and D.C.; 5,145 WNV-infected horses and 106 other WNVinfected animals were reported from 43 states; and WNV seroconversions were reported in 1,956 sentinel bird flocks from 21 states. *Culex* mosquitoes accounted for 94% of 8,384 reported WNV-positive pools. *Cx. tarsalis* was the most commonly reported WNV-infected mosquito species and was considered a major epizootic and epidemic vector in western states.

In 2003, a total of 14 cases of neuroinvasive illness caused by eastern equine encephalitis virus were reported from eight states (Alabama, Florida, Georgia, Louisiana, New Jersey, North Carolina, South Carolina, and Virginia), equaling the maximum number reported to CDC in any year during 1964– 2003. In addition, a large eastern equine encephalitis epizootic among equines (713 cases) and including dogs (two cases) and other veterinary species (18 cases) was reported in 19 states. During 1964–2003, a median of four (mean: five; range: 0–14) human cases were reported annually in the United States.

- 1. O'Leary DR, Marfin AA, Montgomery SP, et al. The epidemic of West Nile virus in the United States, 2002. Vector Borne Zoonotic Dis 2004;4:61–9.
- CDC. West Nile virus screening of blood donations and transfusionassociated transmission—United States, 2003. MMWR 2004;53:281–4.
- CDC. Interim guidelines for the evaluation of infants born to mothers with West Nile virus infection during pregnancy. MMWR 2004;53:154–7.

PART 1

Summaries of Notifiable Diseases in the United States, 2003

| | Abbreviations and Symbols Used in Tables |
|--------|--|
| U | Data not available. |
| N | Not notifiable (i.e., report of disease is not required in that jurisdiction. No reported cases. |
| Notes: | Rates <0.01 after rounding are listed as 0. Data in the MMWR Summary of Notifiable Diseases — United States, 2003 might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and case definition. |

| TABLE 1. Reported cases of notifiable diseases,* k | by month — United States, 2003 |
|--|--------------------------------|
|--|--------------------------------|

| TABLE 1. Reported | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|--|--------|----------|--------|----------|-----------|--------|-----------|-----------|-----------|-----------|--------|--------|---------|
| 1 | | | | | | | | | · · | | | | |
| AIDS [†] | 2,265 | 3,057 | 4,180 | 2,883 | 3,916 | 3,765 | 3,443 | 3,713 | 3,829 | 4,479 | 3,436 | 5,266 | 44,232 |
| Botulism | | | | | | | | | | | | | |
| Foodborne | 1 | _ | 3 | 1 | 1 | 1 | 1 | _ | 1 | 2 | 1 | 8 | 20 |
| Infant | 6 | 8 | 6 | 4 | 6 | 1 | 7 | 7 | 6 | 5 | 12 | 8 | 76 |
| Other (includes wound | | | | | | | | | | | | | |
| and unspecified) | — | 1 | 4 | 1 | 2 | 2 | 6 | _ | 5 | 5 | 1 | 6 | 33 |
| Brucellosis | 4 | 7 | 4 | 10 | 12 | 5 | 10 | 13 | 8 | 9 | 10 | 12 | 104 |
| Chancroid§ | 1 | 12 | 1 | 3 | 9 | 3 | 7 | 1 | 7 | 6 | 2 | 2 | 54 |
| Chlamydia ^{§¶} | 54,988 | 67,590 | 85,499 | 68,695 | 83,561 | 67,315 | 61,388 | 83,633 | 67,459 | 70,657 | 84,924 | 81,769 | 877,478 |
| Cholera | _ | _ | _ | — | _ | 1 | _ | _ | — | — | — | 1 | 2 |
| Coccidioidomycosis** | 224 | 270 | 412 | 232 | 231 | 124 | 427 | 449 | 382 | 337 | 718 | 1,064 | 4,870 |
| Cryptosporidiosis | 126 | 120 | 204 | 146 | 199 | 188 | 276 | 563 | 634 | 397 | 352 | 301 | 3,506 |
| Cyclosporiasis | 4 | 3 | 3 | 4 | 5 | 11 | 15 | 12 | 1 | 3 | 5 | 9 | 75 |
| Diphtheria | _ | _ | _ | _ | _ | — | _ | _ | _ | 1 | _ | _ | 1 |
| Ehrlichiosis | | | | | | | | | | | | | |
| Human granulocytic | 1 | 2 | 6 | 6 | 19 | 35 | 50 | 86 | 35 | 33 | 31 | 58 | 362 |
| Human monocytic | 6 | 3 | 3 | _ | 16 | 25 | 51 | 46 | 44 | 27 | 33 | 67 | 321 |
| Encephalitis/meningitis, arb | oviral | | | | | | | | | | | | |
| California serogroup | _ | _ | 1 | _ | _ | 4 | 32 | 42 | 20 | 9 | _ | _ | 108 |
| Eastern equine | _ | _ | _ | _ | 1 | _ | 7 | 4 | 1 | _ | _ | 1 | 14 |
| St. Louis | _ | _ | _ | _ | 1 | 1 | 6 | 24 | 7 | 1 | 1 | _ | 41 |
| West Nile | _ | _ | _ | _ | 1 | 20 | 413 | 1,473 | 828 | 103 | 25 | 3 | 2,866 |
| Enterohemorrhagic | | | | | - | | | ., | | | | - | _, |
| Escherichia coli (EHEC) | | | | | | | | | | | | | |
| EHEC 0157:H7 | 75 | 66 | 87 | 95 | 151 | 208 | 292 | 471 | 355 | 347 | 298 | 226 | 2,671 |
| EHEC non-O157 | 8 | 11 | 20 | 13 | 21 | 11 | 25 | 54 | 14 | 27 | 25 | 23 | 2,071 |
| EHEC not serogrouped | 6 | 5 | 6 | 13 | 18 | 6 | 16 | 28 | 20 | 18 | 23 | 13 | 156 |
| Giardiasis | 1,045 | 1,159 | 1,498 | 1,179 | 1,538 | 1,268 | 1,466 | 2,526 | 2,055 | 1,908 | 2,066 | 2,001 | 19,709 |
| Gonorrhea [§] | , | , | , | , | , | | , | | , | , | , | , | , |
| | 22,468 | 26,193 | 30,600 | 23,984 | 30,889 | 25,401 | 24,559 | 33,339 | 27,283 | 27,211 | 32,362 | 30,815 | 335,104 |
| Haemophilus influenzae, invasive, all ages/serotype | ac 110 | 142 | 187 | 159 | 215 | 151 | 159 | 164 | 126 | 124 | 147 | 320 | 2,013 |
| Age <5 yrs, serotype b | 4 | 2 | | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 147 | 520 | 2,013 |
| Age <5 yrs, serotype b Age <5 yrs, nonserotype | | 10 | 16 | 11 | 15 | 11 | 6 | 10 | 6 | 5 | 5 | 17 | 117 |
| | 0 5 | 10 | 10 | 11 | 15 | 11 | 0 | 10 | 0 | 5 | 5 | 17 | 117 |
| Age <5 yrs, unknown serotype | 13 | 19 | 24 | 21 | 28 | 11 | 14 | 13 | 12 | 13 | 20 | 39 | 227 |
| Hansen disease (leprosy) | 6 | 2 | 16 | 4 | 6 | 5 | 11 | 8 | 9 | 1 | 20 | 20 | 95 |
| Hantavirus pulmonary | 0 | 2 | 10 | - | 0 | 5 | | 0 | 3 | | ' | 20 | 55 |
| syndrome | 2 | 2 | _ | 1 | 6 | 3 | _ | 3 | 1 | _ | 3 | 5 | 26 |
| Hemolytic uremic syndrome | | 2 | | | 0 | 0 | | 0 | ' | | 0 | 0 | 20 |
| postdiarrheal | 5 | 9 | 13 | 4 | 14 | 13 | 21 | 19 | 21 | 22 | 18 | 19 | 178 |
| Hepatitis A, acute | 405 | 504 | 624 | 505 | 590 | 505 | 485 | 637 | 753 | 709 | 1,233 | 703 | 7,653 |
| Hepatitis B, acute | 405 | 513 | 689 | 508 | 688 | 568 | 593 | 707 | 533 | 612 | 697 | 1,013 | 7,526 |
| Hepatitis C, acute | 405 | 75 | 123 | 70 | 97 | 76 | 84 | 707 | 82 | 78 | 119 | 1,013 | 1,102 |
| | 95 | 75 82 | 85 | 70 69 | 97 113 | 223 | 84 282 | 79 382 | 82 260 | 78 191 | 217 | 233 | 2,232 |
| Legionellosis | | | | | | | | | | | | | |
| Listeriosis | 34 | 41 | 40 | 36 | 54 | 59 | 67 | 106 | 58 | 73 | 45 | 83 | 696 |

| (ADEE 1, (OUNINGED) (EQ CASES OF NOUNABLE DISCASES, by monumer of the order of th | TABLE 1. (Continued | Reported cases of notifiable diseases | ,* by month — | United States, 200 |
|--|---------------------|---|---------------|--|
|--|---------------------|---|---------------|--|

| Disease | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|-------------|-------------|-------|-------------|---------------|
| Lyme disease | 479 | 605 | 741 | 573 | 1,175 | 2,136 | 4,094 | 4,032 | 2,195 | 1,411 | 1,550 | 2,282 | 21,273 |
| Malaria | 68 | 88 | 95 | 74 | 71 | 96 | 135 | 188 | 161 | 126 | 124 | 176 | 1,402 |
| Measles | 1 | 3 | 3 | 11 | 7 | 6 | 6 | 11 | 3 | _ | 1 | 4 | 56 |
| Meningococcal disease | 124 | 165 | 247 | 152 | 166 | 140 | 95 | 101 | 71 | 110 | 134 | 251 | 1,756 |
| Mumps | 14 | 15 | 32 | 13 | 23 | 19 | 12 | 20 | 18 | 11 | 24 | 30 | 231 |
| Pertussis | 436 | 448 | 701 | 530 | 695 | 660 | 685 | 1,108 | 964 | 1,102 | 1,729 | 2,589 | 11,647 |
| Plague | _ | _ | _ | _ | _ | 1 | _ | _ | _ | _ | _ | _ | 1 |
| Psittacosis | 1 | 1 | 1 | _ | 2 | _ | 1 | 3 | _ | 2 | 1 | _ | 12 |
| Q fever | 4 | 4 | 1 | 12 | 10 | 11 | 4 | 7 | 1 | 2 | 4 | 11 | 71 |
| Rabies | | | | | | | | | | | | | |
| Animal | 347 | 386 | 719 | 753 | 709 | 577 | 541 | 751 | 616 | 494 | 503 | 450 | 6,846 |
| Human | _ | _ | _ | _ | _ | _ | _ | 1 | 1 | _ | _ | _ | 2 |
| Rocky Mountain spotted fe | ver 19 | 13 | 30 | 31 | 49 | 96 | 87 | 167 | 162 | 92 | 124 | 221 | 1,091 |
| Rubella | _ | 2 | _ | 1 | 1 | 1 | 1 | _ | 1 | _ | _ | _ | 7 |
| Congenital syndrome | _ | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 1 |
| Salmonellosis | 1,782 | 1,950 | 2,446 | 2,178 | 3,278 | 3,736 | 5,061 | 6,345 | 4,883 | 4,252 | 4,008 | 3,738 | 43,657 |
| SARS-CoV ^{††} | _ | _ | 6 | 1 | 1 | _ | _ | _ | _ | _ | _ | _ | 8 |
| Shigellosis | 1,502 | 1,406 | 1,881 | 1,397 | 2,813 | 2,231 | 1,927 | 2,386 | 2,015 | 1,790 | 2,118 | 2,115 | 23,581 |
| Streptococcal disease, | | | | | | | | | | | | | |
| invasive, group A | 356 | 645 | 853 | 650 | 660 | 458 | 357 | 339 | 221 | 222 | 441 | 670 | 5,872 |
| Streptococcal toxic-shock | | | | | | | | | | | | | |
| syndrome | 14 | 16 | 27 | 19 | 19 | 17 | 5 | 6 | 6 | 6 | 6 | 20 | 161 |
| Streptococcus pneumoniae invasive | 9, | | | | | | | | | | | | |
| | 150 | 000 | 000 | 010 | 000 | 100 | 447 | 100 | 00 | 110 | 150 | E 44 | 0.050 |
| Drug-resistant | 158 | 223 | 288 | 219 | 208 | 132 | 117 | 106 | 88 | 118 | 158 | 541 | 2,356 |
| Age <5 yrs** | 61 | 79 | 78 | 68 | 72 | 71 | 41 | 33 | 34 | 54 | 94 | 160 | 845 |
| Syphilis, total, all stages§ | 2,261 42 | 2,622 38 | 3,737 42 | 2,831 28 | 3,355 32 | 2,612 37 | 2,585 37 | 3,159 | 2,455 30 | 2,550 25 | 3,030 | 3,073 35 | 34,270 413 |
| Congenital (age <1 yr)§ | | | | | | | | 34 | | | 33 | | |
| Primary and secondary§ | 496 | 526 | 714 | 574 | 641 | 570 | 525 | 647 | 535 | 550 | 684 | 715 | 7,177 |
| Tetanus | 1 | | | | 2 | 1 | 1 | 8 | 2 | 1 | 1 | 3 | 20 |
| Toxic-shock syndrome | 5 | 10 | 14 | 15 | 16 | 10 | 5 | 10 | 11 | 7 | 11 | 19 | 133 |
| Trichinellosis | | | 1 001 | 1 004 | 1 014 | 1 000 | 1.010 | 1 107 | 1 | 1 005 | 3 | 2 | 6 |
| Tuberculosis ^{§§} | 593 | 912 | 1,021 | 1,284 | 1,214 | 1,296 | 1,216 | 1,197 | 1,202 | 1,385 | 1,057 | 2,497 | 14,874 |
| Tularemia | 2 | 1 | 1 | | 5 | 15 | 15 | 13 | 13 | 9 | 5 | 50 | 129 |
| Typhoid fever | 14 | 26 | 38 | 23 | 24 | 25 | 34 | 51 | 51 | 22 | 24 | 24 | 356 |
| Varicella | 1,471 | 1,370 | 1,642 | 1,587 | 2,430 | 1,129 | 797 | 535 | 914 | 1,619 | 2,250 | 5,204 | 20,948 |
| Varicella deaths ^{¶¶} | _ | | | | | _ | | _ | | 1 | 1 | | 2 |

* No cases of anthrax, Powassan encephalitis, western equine encephalitis, paralytic poliomyelitis, or yellow fever were reported in 2003.

[†] Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2003.

§ Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 1, 2004.

[¶] Chlamydia refers to genital infections caused by *Chlamydia trachomatis*

** Notifiable in <40 states.

⁺⁺ Severe acute respiratory syndrome-associated coronavirus; data reported to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases, notifiable as of July 1, 2003.

^{§§} Totals reported to the Division of Tuberculosis Elimination, NCHSTP, as of April 1, 2004.

In Death counts provided by Epidemiology and Surveillance Division, National Immunization Program.

TABLE 2. Reported cases of notifiable diseases,* by geographic division and area — United States, 2003

| | Total resident population | | | Botulism | | | |
|-----------------------|---------------------------|-------------------|-----------|----------|--------------------|-------------|-----------|
| Area | (in thousands) | AIDS [†] | Foodborne | Infant | Other [§] | Brucellosis | Chancroid |
| JNITED STATES | 287,974 | 44,232** | 20 | 76 | 33 | 104 | 54 |
| IEW ENGLAND | 14,134 | 1,697 | 1 | 1 | - | - | 3 |
| laine | 1,295 | 52 | - | - | - | - | - |
| I.H. ′t. | 1,274 616 | 37 16 | 1 | - | - | - | - |
| lass. | 6,422 | 757 | - | - | - | - | - 3 |
| .1. | 1,068 | 102 | - | - | - | - | - |
| onn. | 3,459 | 733 | - | 1 | - | - | - |
| IID. ATLANTIC | 40,038 | 10,142 | 1 | 23 | 1 | 9 | 11 |
| pstate N.Y. | 11,385 | 1,589 | - | 2 | - | 1 | 1 |
| .Y. City | 7,749 | 5,133 | - | 1 | 1 | 3 | 9 |
| .J. | 8,575 | 1,514 | - 1 | 3 | - | 1 4 | - 1 |
| a. | 12,329 | 1,906 | I | 17 | - | | I |
| .N. CENTRAL | 45,635 | 3,875 | - | 3 | - | 9 | - |
| vhio nd. | 11,409 6,157 | 775 506 | - | 2 1 | - | 1 | - |
| | 12,586 | 1,734 | - | - | - | - | |
| lich. | 10,043 | 676 | - | - | - | 5 | - |
| /is. | 5,440 | 184 | - | - | - | 3 | - |
| /.N. CENTRAL | 19,464 | 844 | - | - | 1 | 4 | - |
| 1inn. | 5,025 | 179 | - | - | - | 2 | - |
| owa | 2,936 | 75 | - | - | - | - | - |
| lo. | 5,670 | 404 | - | - | - | - | - |
| l. Dak. . Dak. | 634 760 | 2 13 | - | - | - | - 1 | - |
| ebr. | 1,728 | 60 | - | - | - | 1 | - |
| ans. | 2,712 | 111 | - | - | - | - | - |
| . ATLANTIC | 53,564 | 12,191 | _ | 5 | _ | 13 | 29 |
| el. | 806 | 216 | - | 3 | - | - | - |
| ld. | 5,451 | 1,572 | - | 1 | - | - | 1 |
| .C. | 569 | 961 | - | - | - | - | - |
| a. | 7,288 | 786 | - | - | - | 2 | - |
| <i>I</i> .Va. I.C. | 1,805 8,306 | 95 1,102 | - | - | - | - 1 | 2 |
| .C. | 4,104 | 778 | - | - | - | - | 24 |
| ia. | 8.544 | 1,907 | - | 1 | - | - | - |
| la. | 16,692 | 4,774 | - | - | - | 10 | 2 |
| .S. CENTRAL | 17,225 | 2,035 | - | 1 | - | 4 | 1 |
| íy. | 4,090 | 220 | - | - | - | - | 1 |
| enn. | 5,790 | 835 | - | 1 | - | - | - |
| la. liss. | 4,479 2,867 | 471 509 | - | - | - | 1 3 | - |
| | | | - | - | - | | |
| V.S. CENTRAL | 32,409 | 4,864 | - | 1 | 3 | 34 | 3 |
| rk. a. | 2,706 4,476 | 189 1,048 | - | - | - | 1 | - |
| kla. | 3,490 | 214 | - | - | - | - | - |
| ex. | 21,737 | 3,413 | - | 1 | 3 | 32 | 3 |
| IOUNTAIN | 19,033 | 1,501 | 2 | 9 | 1 | 8 | 5 |
| lont. | 910 | 7 | - | - | - | - | - |
| laho | 1,343 | 25 | - | - | - | - | - |
| /yo. | 499 | 8 | - | - | - | 1 | 1 |
| olo. . Mex. | 4,501 1,852 | 368 111 | 1 | 2 | 1 | 1 3 | - |
| riz. | 5,441 | 628 | - | - | - | 1 | 2 |
| tah | 2,319 | 75 | 1 | 5 | - | 2 | 2 |
| ev. | 2,167 | 279 | - | 2 | - | - | - |
| ACIFIC | 46,472 | 6,863 | 16 | 33 | 27 | 23 | 2 |
| lash. | 6,067 | 527 | 11 | - | - | 1 | - |
| reg. | 3,520 | 242 | - | 3 | 1 | - | 2 |
| alif. | 35,002 | 5,967 | 2 | 29 | 26 | 19 | - |
| laska Iawaii | 641 | 17 | 3 | - 1 | - | 1 | - |
| awaii | 1,241 | 110 | - | I | - | 2 | - |
| luam | 161 | 7 | - | - | - | - | 7 |
| !R. | 3,859 | 1,065 | - | - | - | - | - |
| '.I. .mer. Samoa | 108 57 | 34 1 | - | - | - | - | - |
| C.N.M.I. | 74 | 2 | 1 | | | | |

* No cases of anthrax were reported in 2003.

⁺ Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2003.

§ Includes cases reported as wound and unspecified botulism.

[¶] Totals reported to the Division of STD Prevention, NCHSTP, as of May 1, 2004.

** Total includes 220 cases among persons with unknown state of residence.

| Area | Chlamydia* | Cholera | Coccidioidomycosis | Cryptosporidiosis | Cyclosporiasis | Diphtheria |
|----------------------|-------------------|---------|--------------------|-------------------|----------------|------------|
| INITED STATES | 877,478 | 2 | 4,870 | 3,506 | 75 | 1 |
| EW ENGLAND | 28,400 | - | 1 | 193 | 10 | - |
| laine | 2,030 | - | Ň | 20 | - | - |
| I.H. | 1,616 | - | - | 26 | - | - |
| /t. | 1,060 | - | - | 32 | N | - |
| lass. | 11,301 | - | - | 78 | 6 | - |
| ?.l. | 3,000 | - | 1 N | 17 | - | - |
| Conn. | 9,393 | - | IN | 20 | 4 | - |
| /ID. ATLANTIC | 110,682 | - | | 452 | 27 | 1 |
| Jpstate N.Y. | 21,853 | - | N | 140 | 3 | - |
| I.Y. City I.J. | 35,369 16,169 | - | - | 126 19 | 9 9 | - |
| a. | 37,291 | - | N | 167 | 6 | 1 |
| | | | | | | |
| E.N. CENTRAL Dhio | 158,405 42,522 | - | 7 | 1,039 173 | 2 | - |
| nd. | 42,522 | - | N | 126 | - | - |
| I. | 48,294 | - | - | 102 | - | - |
| /lich. | 32,572 | - | 7 | 152 | 2 | - |
| Vis. | 17,942 | - | - | 486 | - | - |
| V.N. CENTRAL | 52,026 | - | 4 | 600 | - | - |
| /linn. | 10,714 | - | Ň | 155 | - | - |
| owa | 6,491 | - | Ν | 122 | - | - |
| No. | 18,570 | - | 1 | 52 | - | - |
| I. Dak. | 1,655 | - | N | 15 | N | - |
| 3. Dak. Nebr. | 2,608 4,739 | - | - 3 | 49 33 | - | - |
| Kans. | 7,249 | - | N | 174 | - | |
| | | | | | 05 | |
| S. ATLANTIC Del. | 163,936 | - | 5 N | 430 | 35 | - |
| /d. | 3,035 16,831 | - | 5 | 5 29 | 1 | - |
| D.C. | 3,168 | - | - | 14 | 8 | - |
| /a. | 19,439 | - | - | 54 | 2 | - |
| V. Va. | 2,585 | - | N | 4 | - | - |
| 1.C. | 26,187 | - | Ν | 57 | 2 | - |
| S.C. | 14,623 | - | - | 16 | - | - |
| a. Ia. | 35,686 42,382 | - | N | 122 129 | 8 14 | - |
| | | | | | 14 | |
| E.S. CENTRAL | 54,763 | - | 1 | 136 | - | - |
| (y. Tenn. | 7,981 20,380 | - | N N | 27 43 | N | - |
| Ala. | 14,209 | - | - | 56 | - | - |
| Aiss. | 12,193 | - | 1 | 10 | - | - |
| V.S. CENTRAL | 109,039 | | 10 | 131 | 1 | |
| v.s. central | 7,856 | - | - | 22 | - | - |
| .a. | 20,970 | - | - | 5 | - | - |
| Okla. | 11,013 | - | Ν | 24 | - | - |
| ēx. | 69,200 | - | 10 | 80 | 1 | - |
| IOUNTAIN | 48,934 | 1 | 2,751 | 139 | - | - |
| /lont. | 2,547 | - | _,N | 18 | - | - |
| daho | 2,366 | - | Ν | 27 | - | - |
| Vyo. | 960 | - | 1 | 5 | - | - |
| Colo. | 13,039 | - | N 10 | 38 | - | - |
| I. Mex. vriz. | 7,480 12,819 | - 1 | 10 2,695 | 17 6 | N | - |
| Jtah | 3,893 | - | 2,095 | 20 | - | - |
| lev. | 5,830 | - | 36 | 8 | - | - |
| ACIFIC | 151,293 | 1 | 2,091 | 386 | - | - |
| lash. | 16,797 | - | | 62 | - | - |
|)reg. | 7,688 | - | - | 36 | - | - |
| alif. | 117,428 | - | 2,091 | 287 | - | - |
| laska | 3,900 | - | - | 1 | - | - |
| lawaii | 5,480 | 1 | - | - | - | - |
| luam | 598 | - | - | - | - | - |
| ?R. | 2,722 | - | Ν | Ν | N | - |
| ⁽ .1. | 410 | - | - | - | - | - |
| Amer. Samoa | - | - | - | - | - | - |
| C.N.M.I. | 218 | - | - | - | - | - |

N: Not notifiable. U: Unavailable. -: No reported cases. P.R.: Puerto Rico V.I.: U.S. Virgin Islands C.N.M.I.: Commonwealth of Northern Mariana Islands * Totals reported to the Division of STD Prevention, NCHSTP, as of May 1, 2004. Chlamydia refers to genital infections caused by *Chlamydia trachomatis*.

C.N.M.I.: Commonwealth of Northern Mariana Islands

| Human granulocyticHuman monocyticHuman serogroupCalifornia equineEastern equineSt. LouisWest NiUNTED STATES36232110814412,866NEW ENGLAND1513731NH111NH111NH111NH1112Mase631512Conn2912Pate8018-2222223Upstate NX62111Upstate NX62111PateNN1145Ohio261715Id16193714Ohio261730Mth.1113014Ohio261730Mth.1301414Ohio261730Mth.1301414Mth.130Mth.1- | TABLE 2. (Continued) hep | Ehrlichio | | by geographic di | | eningitis, arboviral | |
|--|--------------------------|-----------|---------|------------------|---------|----------------------|-----------|
| UNITED STATES 362 321 10 14 41 2.866 NEW KNGLAND 151 37 - - - 31 Maine 4 - - - - - 31 N.H. 1 1 - - - - 2 Mas. 54 15 - - - - 12 Mas. 54 15 - - - 12 12 Mas. 54 15 - - - 12 12 Mas. 54 16 - 2 2 22 22 22 22 22 122 Upstate N.Y. 60 14 - - - 12 | _ | Human | Human | | Eastern | | |
| NEW FNGLAND 151 37 - - - 31 Maine 1 1 - - - 2 N.H. 1 1 - - - 2 Mass. 54 15 - - 12 Mass. 54 15 - - 12 Mil. ATLANTIC 80 18 - 2 2 223 Upstate N.Y. 62 11 - - 12 - 12 NJ.M.Y.City 8 4 - - 1 151 7 - 4 150 NM.C.ENTFAL 16 19 37 - 4 161 14 16 161 <td< th=""><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th></td<> | | | - | | | | |
| Maine 4 - - - - - - - - - - 2 1 <th1< th=""> <th1< th=""></th1<></th1<> | | | | 108 | 14 | 41 | |
| N.H. 1 1 - - - 2 Mass. 54 15 - - - 12 Mass. 54 15 - - - 12 Rl. 63 21 - - - 12 Opin 29 - - - - 12 Upstate N. 62 11 - - - 12 N.Y. City 8 4 - - 1 - - - 11 - - - 1 17 7 1 14 15 - - 1 14 15 - - 1 | | | | - | - | - | |
| Mass. 54 15 - - 12 Pal. 63 21 - - 12 Conn. 29 - - 2223 Upstate N.N. 62 11 - 2 223 Upstate N.N. 62 11 - - 2 223 N.Y. City 8 4 - - 157 7.1. 10 3 - 2 - 211 157 N.Y. City 8 4 10 - - 114 145 E.N. CENTRAL 16 19 37 - 4 150 Ohio 2 6 11 - - 163 Ill. 2 6 11 - - 163 Moxa 1 - 9 - 4 144 Wis. 11 - 9 - 164 164 Iowa 1 - - - 17 17 17 NO.ACENTRAL < | N.H. | | | - | - | - | |
| R.I. 63 21 - - - 5 Conn. 29 - - - - 12 MID ATLANTIC 80 18 - 2 2 223 NU 8 4 - - 1 57 NY.V. 8 4 - - 1 57 Pa. N N N - - 1 145 EN.CENTRAL 16 19 37 - 4 100 Ohio 2 6 17 - - 15 Ind. 1 6 - - - 15 Mich. 11 - 9 - - 16 Mis. 11 - 9 - - 16 Mis. 11 - 9 - - 16 Mis. 1 - - - 16 Mis. 1 - - - 16 Mis. < | | - 54 | | - | - | - | |
| MID. ATLANTIC 80 18 - 2 2 223 Upstate N.Y. 62 11 - - - - - - - - - - - - - - - - - - - 1 51 - - 1 16 - - 1 145 - - 1 146 - - 1 146 - - 1 146 - - 1 146 - - 1 146 - - 1 146 - - 1 - - 161 - - 161 - - 30 - 1 146 - - - 161 1 - - 161 1 - - 161 1 - - 161 1 - 161 1 161 1 161 1 | R.I. | 63 | 21 | - | - | - | 5 |
| Upstate NY. 62 11 - - - - - - - - - 1 57 N.Y. City 8 4 - - 1 57 N.J. 10 3 - 2 - 21 11 145 Pa. 16 19 37 - 4 150 000 2 6 17 - 4 150 Ohio 2 6 17 - 4 150 000 000 16 16 11 - 9 - 4 150 000 000 16 11 - 9 - 4 14 Wis. 11 - 9 - - 4 14 <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> | | | | - | - | - | |
| N.J. 10 3 - 2 - 21 14 Pa. N N - - 1 145 E.N.CENTRAL 16 19 37 - - 4 150 Ohio 2 6 17 - - 84 Ind. 1 6 - - - 84 Mich. - 1 - - 4 14 Wis. 11 - 9 - - 30 Mich. 1 - 9 - - 30 Mich. 1 - 9 - - 30 Mich. 77 2 3 - - 41 41 Mo. 9 31 - - - 30 30 N. Dak. N N - - - 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30< | Upstate N.Y. | 80 62 | | - | | | - |
| Pa. N N - - 1 145 E.N. CENTRAL 16 19 37 - 4 150 Ohio 2 6 17 - - 164 Ind. 1 6 - - - 150 Mich. - 1 - 9 - 7 WN. CENTRAL 88 34 3 - 1 696 Minn. 77 2 3 - 1 698 Iowa 1 - 9 - - 818 No. CENTRAL 88 34 3 - 1 696 Minn. 77 2 3 - - 818 No. 9 31 - - 819 No. N N - - 919 No. - - 194 919 191 Del. 9 3 - - 194 Del. 9 3 - - 191 Del. 9 3 - - 194 Del. 9 2 1 - 194 <td>N.Y. City</td> <td></td> <td>4</td> <td>-</td> <td>-</td> <td>1</td> <td></td> | N.Y. City | | 4 | - | - | 1 | |
| Ohio 2 6 17 - - 84 Ind. 1 6 - - 15 III. 2 6 11 - - 30 Minch. 11 - 9 - - 7 W.N. CENTRAL 88 34 3 - 1 696 Minn. 77 2 3 - - 489 Iowa 1 - - - 39 N.Dak. N N - - - 39 N.Dak. 1 1 - - - 194 Kans. 1 1 - - - 194 Kans. 1 1 - - - 194 Kans. 1 1 - - 194 Kans. 1 1 - - 194 Kans. 1 <t< td=""><td></td><td></td><td></td><td>-</td><td>-</td><td>1</td><td></td></t<> | | | | - | - | 1 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | E.N. CENTRAL | | 19 | 37 | - | 4 | |
| III.261130Mich1-97Wis.11-97Wis.88343-1696Imm.772348Iowa181Mo.93189N. Dak.NN1151Nebr1151Nebr194Kans.11194Del.9312Md.55112Del.921-191Del.921-12Md.55112Md.55114D.C.NN191D.C.221-10N.C.2222S.G.222Ga2-22Fila.13222Md12-2Md.12-23Ga12-2Md.12-< | | | | | - | - | 84 |
| Wis. 11 - 9 - - 7 W.N. CENTRAL 88 34 3 - 1 696 Imin. 77 2 3 - - 48 Iowa 1 - - - 81 Mo. 9 31 - - 83 N.Dak N N - - 94 S.Dak. - - - 11 151 Nebr. - - - - 194 Kans. 1 1 - - - 192 S.ATLANTIC 23 119 42 9 - 191 Md. 5 51 - - - 122 Md. 5 51 - - 13 3 Va. - 9 2 1 - 16 S.C.ATLANTIC 2 28 | III. | | 6 | | - | - | 30 |
| W.N. CENTRAL 88 34 3 - 1 696 Minn. 77 2 3 - - 48 Mo. 9 31 - - 81 Mo. 9 31 - - 93 N. Dak. N N - - 94 S. Dak. - - - 164 N. Dak. - - - 194 S. ATLANTIC 23 119 42 9 - 191 Del. 9 31 - - 122 149 Md. 5 51 - - 129 149 D.C. N N - - 199 2 1 191 WA. - - 23 - - 19 NC. 2 28 17 1 - 161 S.C. 2 3 | | | | | - | 4 | 14 |
| Minn. 77 2 3 - - 48 lowa 1 - - - 81 Mo. 9 31 - - 39 N. Dak. N N - - 93 S. Dak. - - - 151 Nebr. - - - 194 Kans. 1 1 - - 194 Kans. 1 1 - - 194 Kans. 1 1 - - 194 Kans. 9 3 - - 191 Del. 9 3 - - 122 Md. 5 51 - - 19 Va. - 9 2 1 - 19 NC. 2 28 17 1 - 16 S.C. 2 2 2 | | | | | - | - 1 | |
| Mo.93139N. Dak.NN94S. Dak1Nebr194Kans.11194S. ATLANTIC23119429-191Del.9312191Del.955112Md.55119119D.C.NN33Va921-19D.C.NN333Va23111N.C.228171-16S.C.2228171-16S.C.220-22-2733Ga20-22291Ky431111Tenn33192534Miss1-2343414234Miss1-23-232423341434351434351435353535353434343434353 | Minn. | 77 | 2 | | - | - | 48 |
| N. Dak.NN94S. Dak1151Nebr1194Kans.11194Kans.11194Kans.11194Kans.23119429-191Del.2319429-122Md.5511249D.C.NN194Va921-19W.Va2319N.C.222-16S.C.22-33Ga20-2-291Ky431111E.S. CENTRAL139232291Ala.12-2-2534Miss1-26611W.S. CENTRAL3543126611Mathematical12-2234Mathematical12-23434Mathematical12-126611Mathematical12- | | | | - | - | - | |
| Nebr. Kans194Kans.11194S. ATLANTIC23119429-191Del.9312Md.55149D.C.NN191W.Va921-191W.Va921-191N.C.22.8171-16S.C.22.8171-16S.C.222-33Ga20-2-27Fla.58-3-61Tenn331921Ala.12-23434W.S.CENTRAL3543126611Ark19232323La.NN319101Okla.23323La.NN319101Okla.23356Tex.1217431 | N. Dak. | N | Ν | - | - | - | 94 |
| Kans.1189S. ATLANTIC23119429-191Del.9312Md.55149D.C.NN33Va921-NC.228171-N.C.228171-S.C.2-22-16S.C.2-22-37Fla.58-3-61E.S.CENTRAL139232291Ky443-2121Ala.12-23411Ala.12-234Miss1923Miss1923La.NN319Okla.3543126Ital.N319101Okla.1223Ital.NN319Okla.12-17431 | | - | - | - | - | 1 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 1 | 1 | - | - | - | |
| Md.55149D.C.NN3Va921-19W.Va231N.C.228171-16S.C.222-37Ga20-22-27Fla.58-3-61E.S. CENTRAL139232291Ky4311Tenn331925Miss1-234W.S. CENTRAL3543126611Ark1923Miss1-234Okia.23325Tex.1223Ark1923La.NN319101Okia.23356Tex.1217431 | | 23 | | 42 | 9 | - | |
| D.C.NN3Va921-19W.Va2316N.C.228171-16S.C.222-3Ga20-2-3Ga20-2-61E.S. CENTRAL139232291Ky43-11Tenn331921Ala.12-2-25Miss1-234W.S. CENTRAL3543126611Ark192334Okla.2335656Tex.1256 | Del. Md. | | 3 51 | - | - | - | 12 49 |
| W.Va231N.C.228171-16S.C.22-33Ga20-22-27Fla.58-3-61E.S. CENTRAL139232291Ky4311Tenn331921Ala.12-234W.S. CENTRAL3543126611Ark192334Okla.2335656Tex.1217431 | D.C. | | Ν | - | - | - | 3 |
| N.C.228171-16S.C.22-3Ga20-2-27Fla.58-2291Ky4311Tenn331921Ala.12-2234WS.CENTRAL3543126611Ark1-2334Okla.233234Okla.2335656Tex.1217431 | va. W. Va. | - | | 23 | 1 | - | |
| Ga20-2-27Fla.58-3-61E.S.CENTRAL139232291Ky4311Tenn331921Ala.12-2-25Miss1-234W.S.CENTRAL3543126611Ark1923La.NN319101Okla.23356Tex.1217431 | N.C. | | | 17 | | - | 16 |
| Fla.58-3-61E.S. CENTRAL139232291Ky4311Tenn331921Ala.12-2-25Miss1-234W.S. CENTRAL3543126611Ark1923La.NN319101Okla.23356Tex.1217431 | | - | | - | 2 | - | 27 |
| Ky4311Tenn331921Ala.12-2225Miss1-234W.S. CENTRAL3543126611Ark1923La.NN319101Okla.23356Tex.1217431 | | 5 | | | 3 | - | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 1 | | | | | |
| Miss. - - 1 - 2 34 W.S. CENTRAL 3 54 3 1 26 611 Ark. - 19 - - 23 La. N N 3 1 9 101 Okla. 2 33 - - 56 Tex. 1 2 - - 17 431 | Tenn. | - | 33 | | - | - | 21 |
| W.S. CENTRAL 3 54 3 1 26 611 Ark. - 19 - - 23 La. N N 3 1 9 101 Okla. 2 33 - - 56 Tex. 1 2 - - 17 431 | | 1 | | | | | |
| Ark. - 19 - - 23 La. N N 3 1 9 101 Okla. 2 33 - - 56 Tex. 1 2 - 17 431 | | - | | | | | |
| Okla. 2 33 - - 56 Tex. 1 2 - 17 431 | Ark. | - | 19 | - | - | - | 23 |
| Tex. 1 2 17 431 | | | | 3 | 1 | | |
| | | | 2 | - | - | | |
| | MOUNTAIN | - | 1 | - | - | 6 | 871 |
| Mont. - - - 75 Idaho - - - - 75 | | - | - | - | - | - | |
| Wyo 92 | Wyo. | - | | - | - | - | 92 |
| Cólo. N - - 621 N. Mex. - - - 1 74 | | N - | N | - | - | - | 621 74 |
| Ariz 5 7 | Ariz. | - | - | - | - | 5 | 7 |
| Utah 2 | | - | - 1 | - | - | - | - 2 |
| PACIFIC 2 | | - | - | - | - | - | |
| Wash | Wash. | - | - | - | - | - | - |
| Oreg 2 | Calif. | - | - | - | - | - | 2 |
| Alaska | Alaska | - | - | - | - | - | - |
| Hawaii | | - | - | - | - | - | - |
| Guam | | - | - | - | - | - | - |
| V.I | V.I. Amer Samoa | - | - | - | - | - | - |
| Amer. Samoa - - - - - - - C.N.M.I. - - - - - - - | | - | - | - | - | - | - |

TABLE 2. (Continued) Reported cases of notifiable diseases,* by geographic division and area — United States, 2003

N: Not notifiable. U: Unavailable. -: No reported cases. P.R.: Puerto Rico V.I.: U.S. Virgin Islands C.N.M.I.: Come * No cases of Powassan or western equine encephalitis or meningitis were reported in 2003. * Totals reported to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNET Surveillance).

20

| <u>_</u> | Enterohemorrh | | richia coli (EHEC) | <u>)</u> | | Haemopl | hilus influenz | ae, invasive dise | ase |
|-------------------------------|---------------|--------------|--------------------|----------------|------------------|------------------------|----------------|-------------------|---------------------|
| | | | toxin positive | | | | | Age <5 years | |
| Area | O157:H7 | Non- O157 | Not serogrouped | Giardiasis | Gonorrhea* | All ages, serotypes | Serotype b | Nonserotype b | Unknown serotype |
| UNITED STATES | 2,671 | 252 | 156 | 19,709 | 335,104 | 2,013 | 32 | 117 | 227 |
| NEW ENGLAND | 163 | 47 | 13 | 1,700 | 7,443 | 176 | 2 | 7 | 6 |
| Maine N.H. | 11 21 | 4 3 | - | 186 44 | 233 125 | 6 20 | - 1 | - 2 | 1 |
| Vt. | 18 | - | - | 122 | 97 | 11 | - | - | 1 |
| Mass. R.I. | 72 4 | 10 | 13 | 854 126 | 2,901 973 | 80 15 | 1 | 5 | 3 1 |
| Conn. | 37 | 30 | - | 368 | 3,114 | 44 | - | - | - |
| MID. ATLANTIC Upstate N.Y. | 256 105 | 25 13 | 36 20 | 4,030 1,284 | 41,976 8,484 | 409 155 | 3 3 | 4 | 50 10 |
| N.Y. City | 7 | - | N | 1,200 | 13,682 | 70 | - | - | 13 |
| N.J. Pa. | 31 113 | 2 10 | - 16 | 520 1,026 | 7,944 11,866 | 70 114 | - | - | 11 16 |
| E.N. CENTRAL | 580 | 35 | 20 | 3,254 | 70,663 | 323 | 3 | 6 | 61 |
| Ohio Ind. | 132 91 | 16 | 20 | 903 N | 22,537 | 78 59 | - | 1 | 14 11 |
| III. | 122 | 2 | - | 940 | 6,681 21,817 | 109 | - | - | 24 |
| Mich. Wis. | 94 141 | 2 15 | - | 781 630 | 13,965 5,663 | 26 51 | 3 | 5 | 1 11 |
| W.N. CENTRAL | 451 | 56 | 22 | 2,161 | 18,147 | 125 | 2 | 8 | 14 |
| Minn. | 132 | 22 | 1 | 851 | 3,202 | 57 | 2 | 8 | 2 |
| Iowa Mo. | 104 85 | - 20 | - 1 | 277 515 | 1,554 8,792 | 42 | - | - | - 11 |
| N. Dak. | 14 | 4 | 8 | 50 | 103 | 8 | - | - | - |
| S. Dak. Nebr. | 29 51 | 4 6 | - | 89 145 | 226 1,623 | 1 2 | - | - | - |
| Kans. | 36 | - | 12 | 234 | 2,647 | 15 | - | - | 1 |
| S. ATLANTIC Del. | 168 11 | 51 N | 48 N | 2,883 57 | 81,875 1,128 | 453 | 2 | 20 | 33 |
| Md. | 18 | 3 | 1 | 118 | 8,032 | 109 | 1 | 9 | 1 |
| D.C. Va. | 1 50 | - 15 | - | 61 423 | 2,508 9,066 | 2 68 | - | - | - 9 |
| W.Va. N.C. | 7 | 1 | - 38 | 64 N | 847 15,116 | 17 41 | - | - 3 | - |
| S.C. | 6 | - | | 175 | 8,518 | 13 | - | - | 2 5 |
| Ga. Fla. | 27 48 | 8 24 | - 9 | 853 1,132 | 17,686 18,974 | 81 122 | - | - 8 | 9 7 |
| E.S. CENTRAL | 86 | 2 | 6 | 416 | 27,728 | 100 | 1 | 4 | 13 |
| Ky. | 29 | 2 | 6 | N | 3,578 | 12 | - | 3 | 2 |
| Tenn. Ala. | 36 17 | - | - | 200 216 | 8,519 9,303 | 61 25 | - 1 | 1 | 8 3 |
| Miss. | 4 | - | - | - | 6,328 | 2 | - | - | - |
| W.S. CENTRAL Ark. | 102 13 | 4 | 4 | 314 154 | 45,248 4,251 | 85 6 | 3 | 13 1 | 5 |
| La. | 3 | - | Ν | 15 | 11,850 | 22 | - | 2 | 4 |
| Okla. Tex. | 30 56 | - 4 | - 4 | 145 N | 4,552 24,595 | 52 5 | - 3 | 10 | - 1 |
| MOUNTAIN | 327 | 27 | 7 | 1,641 | 10,472 | 191 | 9 | 27 | 21 |
| Mont. Idaho | 17 85 | - 16 | - | 115 206 | 122 68 | - 7 | - | - | - 3 |
| Wyo. | 5 | 1 | 2 | 23 | 46 | 2 | - | - | - |
| Colo. N. Mex. | 67 13 | 4 5 | 7 | 467 55 | 2,854 1,169 | 40 24 | - 1 | - 6 | 7 2 |
| Ariz. | 41 | N | Ν | 256 | 3,580 | 93 | 8 | 11 | 5 |
| Utah Nev. | 75 24 | - 1 | - | 380 139 | 412 2,221 | 15 10 | - | 6 4 | 4 |
| PACIFIC | 538 | 5 | - | 3,310 | 31,552 | 151 | 7 | 28 | 24 |
| Wash. Oreg. | 128 102 | 1 4 | - | 435 411 | 2,753 1,000 | 14 42 | 3 | 7 | 3 4 |
| Calif. | 294 | - | N | 2,281 | 25,963 | 60 | 4 | 21 | 10 |
| Alaska Hawaii | 5 9 | - | - | 89 94 | 573 1,263 | 21 14 | - | - | 7 |
| Guam | - | - | - | 2 | 68 | - | - | - | - |
| P.R. V.I. | 3 | - | - | 364 | 277 87 | 2 | - | - | 2 |
| Amer. Samoa | - | - | - | - | 2 | - | - | - | - |
| C.N.M.I. | - | - | - | - | 31 | - | - | - | - |

TABLE 2. (Continued) Reported cases of notifiable diseases, by geographic division and area — United States, 2003

N: Not notifiable. U: Unavailable. -: No reported cases. P.R.: Puerto Rico * Totals reported to the Division of STD Prevention, NCHSTP, as of May 1, 2004.

V.I.: U.S. Virgin Islands

C.N.M.I.: Commonwealth of Northern Mariana Islands

| ` | Hansen disease | Hantavirus pulmonary | Hemolytic uremic syndrome, | | Hepatitis, acute viral | | , | |
|---------------------------|-------------------|-------------------------|----------------------------------|-------------|------------------------|-----------|---------------|-------------|
| Area | (leprosy) | syndrome | postdiarrheal | Α | B | С | Legionellosis | Listeriosis |
| UNITED STATES | 95 | 26 | 178 | 7,653 | 7,526 | 1,102 | 2,232 | 696 |
| NEW ENGLAND | 4 | - | 11 | 370 | 367 | 17 | 122 | 57 |
| Maine | N | - | - | 21 | 7 | 3 | 2 | 7 |
| N.H. | - | - | - 1 | 19 | 24 4 | N | 9 | 4 |
| Vt. Mass. | 4 | - | 8 | 6 217 | 213 | 13 | 6 57 | 1 19 |
| R.I. | - | - | - | 17 | 21 | 1 | 20 | 4 |
| Conn. | - | N | 2 | 90 | 98 | - | 28 | 22 |
| MID. ATLANTIC | 12 | - | 23 | 1,821 | 780 | 143 | 632 | 139 |
| Upstate N.Y. N.Y. City | 1 8 | - | 18 | 146 450 | 110 193 | 26 | 176 71 | 44 24 |
| N.J. | 3 | - | 3 | 208 | 183 | - | 94 | 24 |
| Pa. | - | - | 2 | 1,017 | 294 | 117 | 291 | 47 |
| E.N. CENTRAL | 3 | - | 17 | 681 | 634 | 127 | 459 | 92 |
| Ohio Ind. | 2 | - | 5 1 | 171 73 | 160 70 | 9 12 | 226 34 | 27 10 |
| III. | - | - | 3 | 186 | 130 | 22 | 50 | 24 |
| Mich. | 1 | - | 4 | 206 | 223 | 79 | 131 | 21 |
| Wis. | - | - | 4 | 45 | 51 | 5 | 18 | 10 |
| W.N. CENTRAL Minn. | 2 1 | 5 | 27 9 | 195 52 | 377 55 | 285 23 | 75 5 | 20 6 |
| lowa | - | 1 | 2 | 40 | 18 | 1 | 12 | 1 |
| Mo. | - | - | 8 | 60 | 248 | 258 | 37 | 6 |
| N. Dak. S. Dak. | N | - 1 | 1 1 | 2 | 2 4 | - | 1 2 | - |
| Nebr. | 1 | 1 | 6 | 14 | 32 | 3 | 7 | 4 |
| Kans. | - | 2 | - | 27 | 18 | - | 11 | 3 |
| S. ATLANTIC | 10 | - | 13 | 1,781 | 2,090 | 165 | 553 | 150 |
| Del. Md. | - 1 | - | - N | 9 178 | 14 132 | - 9 | 31 134 | N 27 |
| D.C. | - | - | - | 43 | 13 | - | 19 | 2 |
| Va. | - | - | 1 | 141 | 227 | 15 | 109 | 18 |
| W.Va. N.C. | N | - | 1 3 | 38 126 | 43 163 | 20 13 | 26 42 | 7 18 |
| S.C. | - | - | - | 56 | 201 | 26 | 11 | 9 |
| Ga. Fla. | N 9 | - | 2 6 | 791 399 | 666 631 | 13 69 | 34 147 | 31 38 |
| | | - | | | | | | |
| E.S. CENTRAL Ky. | 1 | - | 14 N | 282 36 | 531 94 | 100 26 | 108 46 | 33 9 |
| Tenn. | 1 | - | 14 | 206 | 229 | 25 | 37 | 9 |
| Ala. | - | - | - | 24 | 96 | 6 | 20 | 13 |
| Miss. | - | - | - | 16 | 112 | 43 | 5 | 2 |
| W.S. CENTRAL Ark. | 24 3 | 5 | 8 | 729 38 | 1,249 91 | 161 3 | 84 2 | 50 1 |
| La. | 2 | Ν | - | 50 | 117 | 102 | 1 | 5 |
| Okla. Tex. | - 19 | - 5 | 4 4 | 28 613 | 76 965 | 6 50 | 10 71 | 3 41 |
| | | | | | | | | |
| MOUNTAIN Mont. | 3 | 12 | 15 | 486 8 | 595 16 | 53 4 | 90 4 | 34 2 |
| Idaho | - | 2 | 1 | 18 | 8 | 1 | 7 | 2 |
| Wyo. Colo. | - | 1 4 | - | 2 63 | 31 82 | - | 2 12 | - 9 |
| N. Mex. | - | 4 | 8 | 25 | 36 | 14 | 5 | 3 |
| Ariz. | 1 | - | Ν | 280 | 283 | 7 | 21 | 12 |
| Utah Nev. | 1 | 3 1 | 5 1 | 39 51 | 52 87 | - 27 | 27 12 | 2 4 |
| PACIFIC | • | | | | | | | |
| Wash. | 36 N | 4 | 50 | 1,308 76 | 903 90 | 51 | 109 14 | 121 13 |
| Oreg. | N | - | 7 | 62 | 121 | 16 | 17 | 5 |
| Calif. Alaska | 21 | 2 | 42 | 1,147 10 | 657 8 | 31 | 77 | 98 |
| Hawaii | 15 | - | 1 | 13 | 27 | 4 | - 1 | 5 |
| Guam | 11 | - | - | 2 | 10 | 5 | 1 | - |
| P.R. | 1 | Ν | Ν | 102 | 144 | - | - | - |
| V.I. Amer. Samoa | - | - | - | - 1 | - 5 | - | - | - |
| C.N.M.I. | - | - | - | - | 1 | - | - | - |
| N: Not potificable | | . No non-orte d | | arta Diaa | | 0.11.11.0 | | |

TABLE 2. (Continued) Reported cases of notifiable diseases, by geographic division and area — United States, 2003

N: Not notifiable.

U: Unavailable. -: No reported cases.

P.R.: Puerto Rico V.

co V.I.: U.S. Virgin Islands

C.N.M.I.: Commonwealth of Northern Mariana Islands

| | Lyme | | Mea | sles | Meningococcal | | | |
|-------------------------|----------------|-------------|---------------|-------------|--------------------------|---------|---------------------|-------------------|
| Area | disease | Malaria | Indigenous | Imported* | disease | Mumps | Pertussis | Plague |
| UNITED STATES | 21,273 | 1,402 | 32 | 24 | 1,756 | 231 | 11,647 | 1 |
| NEW ENGLAND | 4,079 | 74 | 1 | - | 86 | 4 | 2,083 | - |
| Maine | 175 | 5 | - | - | 6 | - | 91 | - |
| N.H. | 190 | 7 | 1 | - | 12 | 2 | 119 | - |
| Vt. Mass. | 43 1,532 | 2 32 | - | - | 4 45 | - 1 | 71 1,670 | - |
| R.I. | 736 | 7 | - | - | 45 | - | 55 | _ |
| Conn. | 1,403 | 21 | - | - | 15 | 1 | 77 | - |
| MID. ATLANTIC | 14,016 | 368 | 14 | 4 | 210 | 30 | 1,757 | - |
| Upstate N.Y. | 5,179 | 63 | 2 | - | 55 | 3 | 1,067 | - |
| N.Y. City | 220 | 194 | 3 | 2 | 43 | 12 | 150 | - |
| N.J. | 2,887 | 61 | 1 | 1 | 31 | 6 | 188 | - |
| Pa. | 5,730† | 50 | 8 | 1 | 81 | 9 | 352 | - |
| E.N. CENTRAL | 914 | 109 | 3 | 3 | 262 | 28 | 1,590 | - |
| Ohio Ind. | 66 25 | 23 4 | 1 | 1 | 60 48 | 7 3 | 328 104 | - |
| III. | 25 71 | 46 | - | 1 | 73 | 8 | 321 | - |
| Mich. | 12 | 25 | 2 | - | 50 | 8 | 140 | - |
| Wis. | 740 | 11 | - | 1 | 31 | 2 | 697 | - |
| W.N. CENTRAL | 609 | 57 | - | - | 131 | 11 | 657 | - |
| Minn. | 474 | 28 | - | - | 29 | 1 | 207 | - |
| Iowa | 58 | 6 | - | - | 28 | 2 | 166 | - |
| Mo. N. Dak. | 70 | 7 1 | - | - | 49 1 | 5 | 208 7 | - |
| S. Dak. | 1 | 3 | - | - | 1 | - | 7 | - |
| Nebr. | 2 | - | - | - | 8 | - | 16 | - |
| Kans. | 4 | 12 | - | - | 15 | 3 | 46 | - |
| S. ATLANTIC | 1,370 | 351 | - | 3 | 287 | 28 | 855 | - |
| Del. | 212 | 2 | - | - | 9 | 2 | 9 | - |
| Md. | 691 | 80 | - | 1 | 28 | 5 | 94 | - |
| D.C. Va. | 14 195 | 17 59 | - | - | 6 28 | - 1 | 4 219 | - |
| W. Va. | 31 | 59 4 | - | - | 20 7 | 3 | 219 | - |
| N.C. | 156 | 25 | - | 1 | 37 | 2 | 144 | - |
| S.C. | 18 | 5 | - | - | 29 | 5 | 208 | - |
| Ga. | 10 | 67 | - | 1 | 37 | 3 | 36 | - |
| Fla. | 43 | 92 | - | - | 106 | 7 | 113 | - |
| E.S. CENTRAL | 66 | 32 | - | - | 97 | 10 | 170 | - |
| Ky. | 17 20 | 11 7 | - | - | 23 30 | - 5 | 53 83 | - |
| Tenn. Ala. | 20 | 7 | - | - | 21 | 5 4 | 19 | - |
| Miss. | 21 | 7 | - | - | 23 | 1 | 15 | - |
| W.S. CENTRAL | 92 | 139 | - | - | 193 | 22 | 879 | _ |
| Ark. | - | 4 | - | - | 21 | 1 | 92 | - |
| La. | 7 | 5 | - | - | 43 | 1 | 11 | - |
| Okla. | - | 5 | - | - | 24 | 2 | 106 | - |
| Tex. | 85 | 125 | - | - | 105 | 18 | 670 | - |
| MOUNTAIN | 15 | 54 | - | 1 | 103 | 15 | 1,040 | 1 |
| Mont. | - 3 | - 1 | - | - | 6 | - 1 | 5 82 | - |
| Idaho Wyo. | 3 | 2 | - | - | 9 2 | 1 | 130 | - |
| Colo. | - | 23 | - | - | 27 | 1 | 372 | - |
| N. Mex. | 1 | 3 | - | - | 12 | 1 | 78 | 1 |
| Ariz. | 4 | 17 | - | 1 | 34 | 1 | 211 | - |
| Utah | 2 3 | 6 2 | - | - | 5 8 | 5 5 | 127 35 | - |
| Nev. | | | - | - | | | | - |
| PACIFIC | 112 | 218 34 | 14 | 13 | 387 | 83 | 2,616 | - |
| Wash. Oreg. | 7 16 | 34 11 | - | - 3 | 61 63 | 11 N | 844 438 | - |
| Calif. | 86 | 166 | - | 5 | 242 | 58 | 1,255 | - |
| Alaska | 3 | 1 | - | - | 7 | 1 | 67 | - |
| Hawaii | Ν | 6 | 14 | 5 | 14 | 13 | 12 | - |
| Guam | - | 1 | 5 | - | - | 3 | 1 | - |
| P.R. | Ν | 2 | - | - | 12 | 2 | 5 | - |
| V.I. | - | - | - | - | - | - | - | - |
| Amer. Samoa C.N.M.I. | - | - | 1 | - | - | 1 | - | - |
| | - | - | - | - | - | - | - | - |
| N: Not notifiable | U: Unavailable | - No report | ad cases PR·P | Puerto Rico | VI · U.S. Virgin Islands | | monwealth of Northe | rn Mariana Island |

TABLE 2. (Continued) Reported cases of notifiable diseases, by geographic division and area — United States, 2003

N: Not notifiable. U: Unavailable. -: No reported cases. P.R.: Puerto Rico * Imported cases include only those directly related to importation from other countries. * Includes 4,722 confirmed and 1,008 suspected cases. N: Not notifiable.

V.I.: U.S. Virgin Islands

C.N.M.I.: Commonwealth of Northern Mariana Islands

| | | | | | | Ru | ıbella | | | |
|-------------------------------|-----------------|---------------|------------|-------------------|----------------------|------------|-----------------|----------------------|---------------|--|
| | | | | Rabies | | | Congenital | _ | SARS- | |
| Area | Psittacosis | Q Fever | Animal | Human | RMSF [†] | Rubella | syndrome | Salmonellosis | CoV§ | |
| UNITED STATES | 12 | 71 | 6,846 | 2 | 1,091 | 7 | 1 | 43,657 | 8 | |
| NEW ENGLAND | 1 | 6 | 616 | - | 10 | 1 | - | 2,127 | - | |
| Maine N.H. | - 1 | 2 | 73 29 | - | N | - | - | 141 152 | - | |
| Vt. | - | - | 39 | - | - | - | - | 73 | - | |
| Mass. | - | 4 | 216 | - | 9 | 1 | - | 1,223 | - | |
| R.I. Conn. | - N | - | 71 188 | - | 1 | - | - | 137 401 | - | |
| | | | | | | - | - | | - | |
| MID. ATLANTIC Upstate N.Y. | 2 | 2 | 929 432 | - | 41 | 3 | 1 | 4,995 1,282 | 2 | |
| N.Y. City | - | 2 | 6 | - | 13 | 1 | 1 | 1,301 | - | |
| N.J. Pa. | - 2 | - N | 62 429 | - | 16 12 | 2 | - | 857 1,555 | 1 | |
| | 2 | | | - | | - | - | | I | |
| E.N. CENTRAL Ohio | - | 12 8 | 175 53 | - | 22 10 | - | - | 5,614 1,326 | | |
| Ind. | - | 2 | 32 | - | 1 | - | - | 587 | - | |
| III. | - | - 1 | 24 | - | 5 | - | - | 1,955 | - | |
| Mich. Wis. | - | 1 | 52 14 | - | 6 | - | - | 798 948 | - | |
| W.N. CENTRAL | | 7 | 646 | | 65 | | | 2,525 | | |
| Minn. | - | 1 | 48 | - | 2 | - | - | 2,525 | - | |
| Iowa | - | - | 105 | - | 2 | - | - | 415 | - | |
| Mo. N. Dak. | - | 3 1 | 43 57 | - | 51 | - | - | 882 46 | - | |
| S. Dak. | - | - | 132 | - | 5 | - | - | 131 | | |
| Nebr. | - | 1 | 98 | - | 4 | - | - | 183 | - | |
| Kans. | - | 1 | 163 | - | 1 | - | - | 294 | - | |
| S. ATLANTIC | 6 | 12 | 2,657 | 1 | 610 | - | - | 11,382 | 2 | |
| Del. Md. | - | N | 64 351 | - | 1 106 | - | - | 105 856 | - | |
| D.C. | - | 2 | - | - | 1 | - | - | 55 | - | |
| Va. | 1 | - | 542 | 1 | 34 | - | - | 1,187 | 1 | |
| W.Va. N.C. | - | N 2 | 82 773 | - | 6 331 | - | - | 152 1,435 | - 1 | |
| S.C. | 2 | 1 | 255 | - | 49 | - | - | 866 | - | |
| Ga. | - | 1 | 402 | - | 65 | - | - | 2,057 | - | |
| Fla. | 3 | 6 | 188 | - | 17 | - | - | 4,669 | - | |
| E.S. CENTRAL Ky. | - | 15 9 | 210 39 | - | 131 3 | - | - | 2,979 404 | - | |
| Tenn. | - | 6 | 103 | - | 74 | - | - | 781 | - | |
| Ala. | - | - | 64 | - | 21 | - | - | 792 | - | |
| Miss. | - | - | 4 | - | 33 | - | - | 1,002 | - | |
| W.S. CENTRAL | - | 4 | 1,200 | - | 201 | - | - | 6,079 | - | |
| Ark. La. | - | - | 69 5 | - | 48 1 | - | - | 838 879 | - | |
| Okla. | - | Ν | 204 | - | 138 | - | - | 494 | - | |
| Tex. | N | 4 | 922 | - | 14 | - | - | 3,868 | - | |
| MOUNTAIN | 1 | 3 | 181 | - | 10 | 1 | - | 2,379 | 2 | |
| Mont. Idaho | - 1 | - 1 | 23 15 | - | 1 2 | - | - | 112 181 | - | |
| Wyo. | - | - | 6 | - | 2 | - | - | 77 | - | |
| Colo. | - | - | 38 | - | 3 | 1 | - | 503 | - | |
| N. Mex. Ariz. | - | - | 5 75 | - | 1 | - | - | 304 789 | 1 | |
| Utah | - | - | 14 | - | 1 | - | - | 234 | 1 | |
| Nev. | - | 2 | 5 | - | - | - | - | 179 | - | |
| PACIFIC | 2 | 10 | 232 | 1 | 1 | 2 | - | 5,577 | 2 | |
| Wash. | - | - | - 7 | - | N | - | - | 699 | - | |
| Oreg. Calif. | 1 | 1 9 | 216 | - 1 | - 1 | - 1 | - | 425 4,127 | 2 | |
| Alaska | - | - | 9 | - | - | - | - | 96 | - | |
| Hawaii | - | - | - | - | - | 1 | - | 230 | - | |
| Guam | - | - | | - | - | 1 | - | 44 | - | |
| P.R. V.I. | N | - | 71 | 1 | N | - | - | 798 | - | |
| Amer. Samoa | - | - | - | - | - | - | - | - | - | |
| C.N.M.I. | - | - | - | - | - | - | - | 21 | - | |
| N: Not notifiable. | U: Unavailable. | -: No reporte | ed cases. | P.R.: Puerto Rico | V.I.: U.S. Virgin Is | slands C.N | N.M.I.: Commonw | ealth of Northern Ma | riana Islands | |

TABLE 2. (Continued) Reported cases of notifiable diseases,* by geographic division and area — United States, 2003

N: Not notifiable. U: Unavailable. -: No reported cases. P.R.: Puerto Rico V.I.: U.S. Virgin Islands C.N.M.I.: Commonwealth of Northern Mariana Islands * No cases of paralytic poliomyelitis were reported in 2003. * Rocky Mountain spotted fever. * Totals reported to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases. Data are displayed from all states or territories reporting cases, whether or not that state or territory added SARS to its notifiable disease list.

| TABLE 2. (Continued) Repo | orted cases of notifiable diseases, | by geographic division and area - | United States, 2003 |
|---------------------------|-------------------------------------|-----------------------------------|---|
|---------------------------|-------------------------------------|-----------------------------------|---|

| | | Streptococcal disease, | Streptococcal | Streptococcus | | | Syphilis* | | | |
|---------------------|----------------|------------------------|---------------|----------------|------------|-------------------------|-------------|-------------|--|--|
| | | invasive, | toxic-shock | invas | | | Congenital | Primary and | | |
| Area | Shigellosis | group A | syndrome | Drug-resistant | Age <5 yrs | All stages [†] | (age <1 yr) | secondary | | |
| UNITED STATES | 23,581 | 5,872 | 161 | 2,356 | 845 | 34,270 | 413 | 7,177 | | |
| NEW ENGLAND | 353 | 488 | 7 | 123 | 17 | 1,000 | 1 | 224 | | |
| Maine N.H. | 7 10 | 29 34 | - | - | N | 21 37 | - | 8 19 | | |
| Vt. | 8 | 19 | 3 | 9 | 5 | 1 | - | 1 | | |
| Mass. R.I. | 236 22 | 210 35 | 2 2 | N 25 | N 12 | 644 90 | - | 133 33 | | |
| Conn. | 70 | 161 | Ū | 89 | Ŭ | 207 | 1 | 30 | | |
| MID. ATLANTIC | 2,399 | 953 | 8 | 152 | 92 | 6,155 | 65 | 913 | | |
| Upstate N.Y. | 645 416 | 362 146 | - | 88 U | 88 U | 535 3,825 | 12 30 | 53 | | |
| N.Y. City N.J. | 360 | 174 | 1 | - | 4 | 1,089 | 21 | 531 170 | | |
| Pa. | 978 | 271 | 7 | 64 | Ν | 706 | 2 | 159 | | |
| E.N. CENTRAL | 1,882 | 1,305 | 106 | 475 | 331 | 3,203 | 75 | 886 | | |
| Ohio Ind. | 301 201 | 287 136 | 24 14 | 285 190 | 98 38 | 481 375 | 3 15 | 197 50 | | |
| III. | 1,006 | 349 | 68 | - | 134 | 1,376 | 19 | 374 | | |
| Mich. Wis. | 235 139 | 357 176 | N | N N | N 61 | 860 111 | 38 | 249 16 | | |
| W.N. CENTRAL | 796 | 363 | 11 | 188 | 91 | 559 | 6 | 159 | | |
| Minn. | 103 | 181 | 9 | 167 | 74 | 195 | - | 47 | | |
| lowa | 94 | N 81 | - 2 | N | N | 46 207 | - | 12 | | |
| Mo. N. Dak. | 356 10 | 18 | - | 16 4 | 3 9 | 207 | 4 | 61 2 | | |
| S. Dak. | 17 | 25 | - | 1 | - | 5 | - | 2 | | |
| Nebr. Kans. | 92 124 | 27 31 | - | - N | 5 N | 27 77 | 1 | 10 25 | | |
| S. ATLANTIC | 6,973 | 987 | 11 | 1,149 | 85 | 8,744 | 76 | 1,940 | | |
| Del. | 164 | 8 | - | N | N | 47 | - | 7 | | |
| Md. D.C. | 579 76 | 233 11 | N | 27 1 | - 9 | 974 330 | 8 1 | 312 48 | | |
| Va. | 453 | 111 | 3 | Ν | N | 552 | 1 | 82 | | |
| W.Va. N.C. | 4 1,061 | 39 111 | 4 | 113 N | 12 U | 11 848 | - 18 | 2 152 | | |
| S.C. | 620 | 50 | - | 153 | Ň | 548 | 11 | 94 | | |
| Ga. Fla. | 1,169 | 195 229 | N N | 249 606 | 64 N | 2,152 | 11 26 | 585 658 | | |
| E.S. CENTRAL | 2,847 1,058 | 223 | 7 | 168 | - | 3,282 | 8 | 322 | | |
| E.S. CENTRAL Ky. | 136 | 52 | 6 | 31 | N | 2,037 160 | o 1 | 322 | | |
| Tenn. | 405 | 170 | 1 | 137 | N | 876 | 2 | 135 | | |
| Ala. Miss. | 342 175 | - | - | - | N | 566 435 | 3 2 | 114 40 | | |
| W.S. CENTRAL | 6,047 | 315 | - | 85 | 155 | 6,221 | 81 | 952 | | |
| Ark. | 113 | 7 | - | 24 | 8 | 296 | 2 | 51 | | |
| La. Okla. | 447 1,078 | 2 99 | - N | 61 N | 30 77 | 1,576 353 | 1 1 | 183 64 | | |
| Tex. | 4,409 | 207 | - | N | 40 | 3,996 | 77 | 654 | | |
| MOUNTAIN | 1,354 | 598 | 11 | 12 | 74 | 1,725, | 42 | 337 | | |
| Mont. Idaho | 2 36 | 1 19 | - 2 | N | N | - 45 | - 4 | - 15 | | |
| Wyo. | 8 | 2 | 1 | 10 | - | 4 | - | - | | |
| Colo. N. Mex. | 333 286 | 147 127 | 4 | - | 55 12 | 144 205 | 3 6 | 39 71 | | |
| Ariz. | 572 | 259 | - | N | Ň | 1,106 | 29 | 186 | | |
| Utah Nev. | 51 66 | 41 2 | 3 | 2 | 7 | 72 149 | - | 14 12 | | |
| PACIFIC | 2,719 | 641 | I | - | - | | 50 | 1,444 | | |
| Wash. | 188 | 74 | - | 4 | N | 4,626 239 | 59 | 82 | | |
| Oreg. | 211 | N | - | N | N | 118 | - | 48 | | |
| Calif. Alaska | 2,261 11 | 428 | - | N | N N | 4,202 8 | 59 | 1,299 1 | | |
| Hawaii | 48 | 139 | - | 4 | - | 59 | - | 14 | | |
| Guam | 41 | - | - | - | - | 2 | 1 | 1 | | |
| P.R. V.I. | 33 | N | N | N _ | N | 1,391 1 | 15 | 204 1 | | |
| Amer. Samoa | 6 | - | - | - | - | 1 | - | 1 | | |
| C.N.M.I. | 128 | - | - | - | - | 8 | - | 8 | | |

N: Not notifiable. U: Unavailable. -: No reported cases. P.R.: Puerto Rico V.I.: U.S. Virgin Islands C.N.M.I.: Commonwealth of Northern Mariana Islands * Totals reported to the Division of STD Prevention, NCHSTP, as of May 1, 2004. * Includes the following categories: primary, secondary, latent (including neurosyphilis, early latent, late latent, late with clinical manifestations other than neurosyphilis, and unknown duration), and congenital syphilis.

| | , , | Toxic-shock | | | | Typhoid | United States, 20 Varicella | Varicella |
|-----------------------------|---------|-------------|----------------|---------------------------|-----------|----------|--------------------------------|-----------|
| Area | Tetanus | syndrome | Trichinellosis | Tuberculosis [†] | Tularemia | fever | (chickenpox) | deaths |
| NITED STATES | 20 | 133 | 6 | 14,874 | 129 | 356 | 20,948 | 2 |
| EW ENGLAND | 1 | 8 | 1 | 467 | 6 | 29 | 5,522 | - |
| aine | - | 1 | - | 25 | - | - | 1,012 | - |
| .Н. | - | 2 | 1 | 15 | - | 4 | - | - |
| | 1 | 1 | - | 9 | - | - | 930 | - |
| ass. .I. | - | 3 1 | - | 261 46 | 6 | 15 2 | 1,993 5 | - |
| onn. | - | N | - | 111 | - | 8 | 1,582 | - |
| | | | | | | | | |
| ID. ATLANTIC pstate N.Y. | 1 | 16 6 | 1 1 | 2,311 340 | 1 | 80 12 | 43 | - |
| Y. City | - | 1 | - | 1,140 | - | 37 | - | - |
| .J. | - | - | - | 495 | - | 21 | - | - |
| a. | - | 9 | - | 336 | - | 10 | 43 | - |
| .N. CENTRAL | 3 | 39 | _ | 1,314 | 2 | 33 | 6,484 | _ |
| hio | 2 | 12 | - | 229 | - | 2 | 1,302 | - |
| d. | 1 | 2 | - | 143 | - | 4 | - | - |
| | - | 9 | - | 633 | 1 | 17 | - | - |
| ich. | - | 13 | - | 243 | - | 10 | 4,171 | - |
| is. | - | 3 | - | 66 | 1 | - | 1,011 | - |
| N. CENTRAL | 1 | 29 | - | 514 | 46 | 7 | 103 | - |
| inn. | - | 10 | - | 214 | 1 | 3 | Ň | - |
| wa | - | 5 | - | 40 | N | 2 | N | - |
| 0. | - | 4 | - | 131 | 32 | 1 | 1 | - |
| Dak. | - | 1 | - | 6 | - | - | 102 | - |
| Dak. | - | 1 | - | 20 | 5 | - | - | - |
| ebr. | 1 | 7 1 | - | 28 75 | 5 3 | 1 | N | - |
| ans. | - | | - | | | - | - | - |
| ATLANTIC | 5 | 10 | - | 2,933 | 9 | 59 | 2,433 | 1 |
| el. | - | - | - | 33 | 3 | | 29 | - |
| d. | 1 | N | - | 268 | 1 | 11 | _1 | 1 |
| C. a. | I | 1 3 | - | 79 332 | - 4 | 16 | 55 682 | - |
| Va. | | - | - | 21 | 4 | - | 1,330 | |
| .C. | - | 2 | - | 374 | 1 | 9 | N,000 | - |
| .C. | - | - | - | 254 | - | - | 336 | - |
| a. | - | 4 | Ν | 526 | - | 8 | N | - |
| a. | 3 | N | - | 1,046 | - | 15 | N | - |
| S. CENTRAL | 3 | 2 | 2 | 809 | 7 | 8 | | _ |
| y. | - | - | Ň | 138 | 2 | 1 | Ν | - |
| enn. | 1 | 1 | 2 | 285 | 3 | 3 | - | - |
| la. | 1 | 1 | - | 258 | 1 | 4 | - | - |
| iss. | 1 | - | - | 128 | 1 | - | - | - |
| I.S. CENTRAL | 1 | - | - | 2,144 | 43 | 31 | 5,481 | 1 |
| rk. | - | - | - | 127 | 32 | - | - | 1 |
| ι. | - | - | - | 260 | - | - | 16 | - |
| kla. | - | - | - | 163 | 9 | 1 | N | - |
| ex. | 1 | Ν | - | 1,594 | 2 | 30 | 5,465 | - |
| OUNTAIN | - | 19 | - | 625 | 10 | 8 | 882 | - |
| ont. | - | - | - | 7 | - | - | - | - |
| aho | - | - | - | 13 | - | 1 | - | - |
| yo. | - | - | - | 4 | 3 | - | 113 | - |
| olo. | - | 5 | - | 111 | 3 | 4 | N | - |
| Mex. | - | 1 | - | 49 | 1 | 1 | 7 | - |
| iz. | - | 9 | - | 295 | 1 | 2 | N | - |
| ah ev. | - | 2 | - | 39 107 | 2 | - | 762 | - |
| | - | | - | | | - | - | - |
| CIFIC | 5 | 10 | 2 | 3,757 | 5 | 101 | - | - |
| ash. | - | - | - | 250 | 3 | 4 | N | - |
| eg. | - | - | - | 106 | - | 4 | N | - |
| alif. aska | 5 | 10 | 2 | 3,227 57 | 2 | 91 | N | - |
| aska awaii | - | - | - | 117 | - | 2 | - | - |
| | - | - | - | | - | 2 | - | - |
| uam | - | - | - | 61 | - | - | 153 | - |
| R. | - | N | - | 115 | - | - | 626 | - |
| l. mar Samaa | - | - | - | - | - | - | - | - |
| mer. Samoa .N.M.I. | - | - | - | - | - | I | 21 | - |
| IN IVI I | - | - | - | 45 | - | - | - | - |

TABLE 2 (Continued) Reported cases of notifiable diseases * by geographic division and area United States 2003

N: Not notifiable. U: Unavailable. -: No reported cases. P.R.: Puerto Rico V.I.: U.S. Virg. * No cases of yellow fever were reported in 2003. * Totals reported to the Division of TB Elimination, NCHSTP, as of April 1, 2004. § Death counts provided by the Epidemiology and Surveillance Division, National Immunization Program.

| TABLE 3. Reported cases and incidence* of notifiable diseases, | [†] by age group — United States 2003 |
|--|--|
| IABLE 3. Reported cases and incidence [*] of notifiable diseases, | by age group — United States, 200 |

| | < | 1 yr | 1- | 4 yrs | 5-1 | 4 yrs | 15 | –24 yrs | 25- | 39 yrs | 40- | -64 yrs | <u>></u> 6 | 5 yrs | Age no | t |
|------------------------------------|-----|----------|-------|---------|-------|--------|---------|------------|-----------|----------|--------|---------|---------------|--------|--------|----------|
| Disease | No. | (Rate) | No. | (Rate) | No. | (Rate) | No | . (Rate) | No. | (Rate) | No. | (Rate) | No. | (Rate) | stated | Total |
| AIDS§ | 46 | (1.14) | 39 | (0.25) | 174 | (0.42) | 2,019 | (4.97) | 19,966 | (32.28) | 21,209 | (23.65) | 779 | (2.19) | _ | 44,232 |
| Botulism, foodborne | 3 | (0.07) | 1 | (0.01) | _ | (0) | 2 | (0) | 3 | (0) | 9 | (0.01) | 1 | (0) | 1 | 20 |
| Infant | 72 | (1.78) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | 4 | 76 |
| Other (includes wound | | | | | | | | | | | | | | | | |
| and unspecified) | 1 | (0.02) | _ | (0) | 1 | (0) | _ | (0) | 4 | (0.01) | 25 | (0.03) | 1 | (0) | 1 | 33 |
| Brucellosis | 1 | (0.02) | 2 | (0.01) | 16 | (0.04) | 10 | (0.02) | 26 | (0.04) | 36 | (0.04) | 10 | (0.03) | 3 | 104 |
| Chlamydia [¶] ** | _ | (0) | _ | (0) | _ | (0) | 630,385 | (1,553.06) | 201,630 (| (326.03) | 21,985 | (24.51) | 677 | (1.90) | 6,246 | 877,478 |
| Cholera | _ | (0) | _ | (0) | 1 | (0) | _ | (0) | 1 | (0) | _ | (0) | _ | (0) | _ | 2 |
| Coccidioidomycosis ^{††} | 20 | (1.39) | 36 | (0.65) | 238 | (1.64) | 511 | (3.65) | 1,152 | (5.43) | 1,895 | (6.60) | 979 | (9.21) | 39 | 4,870 |
| Cryptosporidiosis | 75 | (1.86) | 684 | (4.39) | 593 | (1.45) | 385 | (0.95) | 750 | (1.21) | 720 | (0.80) | 213 | (0.60) | 86 | 3,506 |
| Cyclosporiasis | _ | (0) | _ | (0) | 5 | (0.01) | 4 | (0.01) | 18 | (0.03) | 34 | (0.04) | 12 | (0.04) | 2 | 75 |
| Diphtheria | _ | (0) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | 1 | (0) | _ | (0) | _ | 1 |
| Ehrlichiosis | | . , | | . , | | | | . , | | . , | | . , | | . , | | |
| Human granulocytic | _ | (0) | 1 | (0.01) | 15 | (0.04) | 26 | (0.07) | 58 | (0.10) | 169 | (0.20) | 92 | (0.28) | 1 | 362 |
| Human monocytic | 1 | (0.03) | 5 | (0.03) | 13 | (0.03) | 17 | (0.05) | 47 | (0.08) | 151 | (0.18) | 87 | (0.27) | _ | 321 |
| Encephalitis/meningitis, arboviral | | . , | | . , | | . , | | . , | | . , | | . , | | . , | | |
| California serogroup | _ | (0) | 16 | (0.10) | 79 | (0.19) | 3 | (0.01) | 2 | (0) | 5 | (0.01) | 3 | (0.01) | _ | 108 |
| Eastern equine | 1 | (0.02) | 3 | (0.02) | 3 | (0.01) | _ | (0) | _ | (0) | 3 | (0) | 4 | (0.01) | _ | 14 |
| St. Louis | _ | (0) | _ | (0) | _ | (0) | 1 | (0) | 4 | (0.01) | 24 | (0.03) | 12 | (0.03) | _ | 41 |
| West Nile | 5 | (0.12) | 12 | (0.08) | 64 | (0.16) | 175 | (0.43) | 411 | (0.66) | 1,121 | (1.25) | 987 | (2.77) | 91 | 2,866 |
| Enterohemorrhagic | | · · / | | () | | ` ' | | . , | | · · / | | . , | | · / | | |
| Escherichia coli (EHEC) | | | | | | | | | | | | | | | | |
| EHEC O157:H7 | 61 | (1.51) | 556 | (3.57) | 562 | (1.37) | 419 | (1.03) | 279 | (0.45) | 458 | (0.51) | 314 | (0.88) | 22 | 2,671 |
| EHEC non-O157 | 18 | (0.46) | 53 | (0.35) | 46 | (0.11) | 37 | (0.09) | 21 | (0.03) | 43 | (0.05) | 30 | (0.09) | 4 | 252 |
| EHEC not serogrouped | 10 | (0.31) | 31 | (0.25) | 20 | (0.06) | 21 | (0.06) | 27 | (0.05) | 27 | (0.04) | 19 | (0.06) | 1 | 156 |
| Giardiasis | 322 | (9.40) | 3,415 | (25.88) | 2,637 | (7.52) | 1,375 | (3.96) | 3,858 | (7.28) | 4,542 | (5.86) | 981 | (3.15) | 2,579 | 19,709 |
| Gonorrhea** | _ | (0) | · | (0) | · _ | (0) | 195,987 | (482.85) | 103,741 (| (167.75) | 26,873 | (29.96) | 702 | (1.97) | 2,200 | 335,104 |
| Haemophilus influenzae, invasiv | е | () | | () | | () | , | . , | , , | , | , | · / | | · / | , | <i>.</i> |
| All ages/serotypes | _ | (0) | _ | (0) | 97 | (0.24) | 94 | (0.23) | 114 | (0.18) | 476 | (0.53) | 802 | (2.25) | 430 | 2,013 |
| Age <5 yrs, serotype b | 19 | (0.47) | 13 | (0.08) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | _ | 32 |
| Age <5 yrs, nonserotype b | 59 | (1.46) | 58 | (0.37) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | _ | 117 |
| Age <5 yrs, unknown serotype | 134 | (3.32) | 93 | (0.60) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | | 227 |
| Hansen disease (leprosy) | _ | (0) | _ | (0) | 1 | (0) | 10 | (0.03) | 30 | (0.05) | 26 | (0.03) | 12 | (0.04) | 16 | 95 |
| Hantavirus pulmonary syndrome | _ | (0) | _ | (0) | _ | (0) | 1 | (0) | 9 | (0.01) | 11 | (0.01) | 3 | (0.01) | 2 | 26 |
| Hemolytic uremic syndrome | | () | | () | | () | | · · / | | · · / | | . , | | · / | | |
| postdiarrheal | 6 | (0.16) | 83 | (0.56) | 47 | (0.12) | 9 | (0.02) | 5 | (0.01) | 18 | (0.02) | 10 | (0.03) | _ | 178 |
| Hepatitis A, acute | 28 | (0.69) | 203 | (1.30) | 935 | (2.28) | 1,124 | (2.77) | 1,868 | (3.02) | 2,382 | (2.66) | 993 | (2.79) | 120 | 7,653 |
| Hepatitis B, acute | 8 | (0.20) | 5 | (0.03) | 22 | (0.05) | 886 | (2.18) | 3,075 | (4.97) | 2,942 | (3.28) | 344 | (0.97) | 244 | 7,526 |
| Hepatitis C, acute | 6 | (0.15) | 2 | (0.01) | 3 | (0.01) | 159 | (0.39) | 352 | (0.57) | 529 | (0.59) | 37 | (0.10) | 14 | 1,102 |
| Legionellosis | 2 | (0.05) | _ | (0) | 5 | (0.01) | 29 | (0.07) | 191 | (0.31) | 1,187 | (1.32) | 796 | (2.24) | 22 | 2,232 |
| Listeriosis | 61 | (1.52) | 7 | (0.05) | 3 | (0.01) | 24 | (0.06) | 58 | (0.09) | 181 | (0.20) | 350 | (0.99) | 12 | 696 |
| Lyme disease | 62 | (1.54) | 1,048 | (6.76) | 4,035 | (9.87) | 1,987 | (4.92) | 3,057 | (4.96) | 8,096 | (9.07) | 2,670 | (7.53) | 318 | 21,273 |
| _, | | 、···• ·/ | .,0.0 | (00) | .,000 | (0.0.) | ., | (| 0,007 | (| 0,000 | (0.0.) | 2,0.0 | (| 0.0 | ,0 |

.

| | | <1 yr | 1- | 4 yrs | 5 | 14 yrs | 15-2 | 24 yrs | 25 | 39 yrs | 40- | 64 yrs | <u>></u> 6 | 5 yrs | Age no | t |
|--------------------------------|-------|----------|-------|---------|-------|---------|-------|--------|-------|--------|-------|--------|---------------|---------|----------|--------|
| Disease | No. | (Rate) | No. | (Rate) | No. | (Rate) | No. | (Rate) | No. | (Rate) | No. | (Rate) | No. | (Rate) | - stated | Total |
| Malaria | 1 | (0.02) | 50 | (0.32) | 142 | (0.35) | 238 | (0.59) | 426 | (0.69) | 468 | (0.52) | 51 | (0.14) | 26 | 1,402 |
| Measles | 11 | (0.27) | 8 | (0.05) | 5 | (0.01) | 15 | (0.04) | 9 | (0.01) | 7 | (0.01) | 1 | (0) | _ | 56 |
| Meningococcal disease | 206 | (5.11) | 240 | (1.54) | 210 | (0.51) | 354 | (0.87) | 176 | (0.28) | 303 | (0.34) | 246 | (0.69) | 21 | 1,756 |
| Mumps | 2 | (0.05) | 30 | (0.19) | 70 | (0.17) | 17 | (0.04) | 44 | (0.07) | 58 | (0.07) | 6 | (0.02) | 4 | 231 |
| Pertussis | 2,217 | (54.96) | 1,138 | (7.31) | 3,481 | (8.48) | 2,272 | (5.60) | 1,030 | (1.67) | 1,328 | (1.48) | 135 | (0.38) | 46 | 11,647 |
| Plague | _ | (0) | — | (0) | — | (0) | _ | (0) | _ | (0) | _ | (0) | 1 | (0) | _ | 1 |
| Psittacosis | _ | (0) | _ | (0) | _ | (0) | _ | (0) | 2 | (0) | 9 | (0.01) | 1 | (0) | _ | 12 |
| Q fever | _ | (0) | _ | (0) | _ | (0) | 6 | (0.02) | 10 | (0.02) | 36 | (0.04) | 19 | (0.06) | _ | 71 |
| Rabies, human | _ | (0) | _ | (0) | _ | (0) | _ | (0) | 1 | (0) | _ | (0) | 1 | (0) | _ | 2 |
| Rocky Mountain spotted fever | 2 | (0.05) | 37 | (0.24) | 84 | (0.21) | 106 | (0.27) | 242 | (0.40) | 462 | (0.53) | 153 | (0.44) | 5 | 1,091 |
| Rubella | _ | (0) | _ | (0) | 2 | (0) | 3 | (0.01) | 2 | (0) | _ | (0) | | (0) | _ | 7 |
| Salmonellosis | 4,356 | (107.99) | 7,656 | (49.15) | 5,596 | (13.64) | 3,591 | (8.85) | 5,688 | (9.20) | 7,825 | (8.72) | 3,958 | (11.12) | 4,987 | 43,657 |
| SARS-CoV ^{§§} | | (0) | | (0) | | (0) | 1 | (0) | 3 | (0) | 4 | (0) | _ | (0) | _ | 8 |
| Shigellosis | 418 | (10.36) | 6,665 | (42.79) | 7,259 | (17.69) | 1,517 | (3.74) | 2,833 | (4.58) | 1,818 | (2.03) | 362 | (1.02) | 2,709 | 23,581 |
| Streptococcal disease, | | | | | | | | | | | | | | | | |
| invasive, group A | 138 | (3.49) | 273 | (1.79) | 424 | (1.06) | 252 | (0.64) | 760 | (1.26) | 1,880 | (2.15) | 1,798 | (5.18) | 347 | 5,872 |
| Streptococcal toxic-shock | | · / | | () | | · / | | () | | () | | . , | | · , | | |
| syndrome | 1 | (0.03) | 4 | (0.03) | 6 | (0.02) | 7 | (0.02) | 23 | (0.04) | 64 | (0.09) | 56 | (0.19) | _ | 161 |
| Streptococcus pneumoniae, | | | | | | | | | | | | | | | | |
| invasive disease | | | | | | | | | | | | | | | | |
| Drug-resistant | 93 | (5.97) | 288 | (4.77) | 103 | (0.64) | 57 | (0.35) | 179 | (0.74) | 732 | (1.98) | 789 | (5.04) | 115 | 2,356 |
| Age <5 yrs ^{††} | 284 | (14.53) | 561 | (7.41) | _ | (0) | _ | (0) | _ | (0) | _ | (0) | | (0) | _ | 845 |
| Syphilis, primary and secondar | y** — | (0) | _ | (0) | _ | (0) | 1,182 | (2.91) | 3,585 | (5.80) | 2,351 | (2.62) | 42 | (0.12) | 1 | 7,177 |
| Tetanus | | (0) | _ | (0) | _ | (0) | 4 | (0.01) | 4 | (0.01) | 6 | (0.01) | 6 | (0.02) | _ | 20 |
| Toxic-shock syndrome | 3 | (0.09) | 2 | (0.02) | 26 | (0.08) | 34 | (0.10) | 26 | (0.05) | 31 | (0.04) | 11 | (0.04) | _ | 133 |
| Trichinellosis | _ | (0) | _ | (0) | 2 | (0.01) | _ | (0) | 1 | (0) | 3 | (0) | _ | (0) | _ | 6 |
| Tuberculosis ^{¶¶} | 101 | (2.50) | 454 | (2.91) | 367 | (0.90) | 1,573 | (3.88) | 3,710 | (6.00) | 5,666 | (6.32) | 2,694 | (7.57) | 309 | 14,874 |
| Tularemia | _ | (0) | 13 | (0.08) | 31 | (0.08) | 4 | (0.01) | 21 | (0.03) | 36 | (0.04) | 22 | (0.06) | 2 | 129 |
| Typhoid fever | 4 | (0.10) | 42 | (0.27) | 66 | (0.16) | 57 | (0.14) | 99 | (0.16) | 74 | (0.08) | 9 | (0.03) | 5 | 356 |

* Per 100,000 population.

[†] No cases of anthrax, Powassan encephalitis or meningitis, western equine encephalitis or meningitis, paralytic poliomyelitis, or yellow fever were reported in 2003.

§ Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2003.

[¶] Chlamydia refers to genital infections caused by *Chlamydia trachomatis*.

** Age-related data are collected on aggregate forms different from those used for the number of reported cases. Thus, total cases reported here will differ slightly from other tables. Cases among persons aged <15 years are not shown because some might not be caused by sexual transmission; these cases are included in the totals. Totals reported to the Division of STD Prevention, NCHSTP, as of May 1, 2004.

^{††} Notifiable in <40 states.

Severe acute respiratory syndrome-associated coronavirus; age data provided by the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases.

Totals reported to the Division of TB Elimination, NCHSTP, as of April 1, 2004.

TABLE 4. Reported cases and incidence* of notifiable diseases,[†] by sex — United States, 2003

| | N | lale | | male | Sex not stated | |
|---|---------|----------|---------|----------|----------------|---------|
| Disease | No. | (Rate) | No. | (Rate) | No. | Total |
| AIDS§ | 32,851 | (23.19) | 11,380 | (7.76) | 1 | 44,232 |
| Botulism | | | | | | |
| Foodborne | 10 | (0.01) | 10 | (0.01) | _ | 20 |
| Infant | 36 | (1.74) | 40 | (2.03) | _ | 76 |
| Other (includes wound and unspecified) | 24 | (0.02) | 8 | (0.01) | 1 | 33 |
| Brucellosis | 52 | (0.04) | 50 | (0.03) | 2 | 104 |
| Chancroid [¶] | 25 | (0.02) | 29 | (0.02) | _ | 54 |
| Chlamydia [¶] ** | 190,244 | (134.30) | 685,017 | (466.93) | 2,217 | 877,478 |
| Cholera | 1 | (0) | 1 | (0) | _ | 2 |
| Coccidioidomycosis ^{††} | 2,867 | (6.02) | 1,973 | (4.07) | 30 | 4,870 |
| Cryptosporidiosis | 1,920 | (1.36) | 1,512 | (1.03) | 74 | 3,506 |
| Cyclosporiasis | 37 | (0.03) | 37 | (0.03) | 1 | 75 |
| Diphtheria | 1 | (0) | _ | (0) | _ | 1 |
| Ehrlichiosis | | | | | | |
| Human granulocytic | 218 | (0.17) | 142 | (0.11) | 2 | 362 |
| Human monocytic | 186 | (0.14) | 133 | (0.10) | 2 | 321 |
| Encephalitis/meningitis, arboviral | | · · · | | | | |
| California serogroup | 61 | (0.04) | 47 | (0.03) | _ | 108 |
| Eastern equine | 8 | (0.01) | 6 | (0) | _ | 14 |
| St. Louis | 24 | (0.02) | 17 | (0.01) | _ | 41 |
| West Nile | 1,679 | (1.19) | 1,180 | (0.80) | 7 | 2,866 |
| Enterohemorrhagic Escherichia coli (EHEC) | | · · · | | | | , |
| EHEC 0157:H7 | 1,175 | (0.83) | 1,483 | (1.01) | 13 | 2,671 |
| EHEC non-O157 | 110 | (0.08) | 135 | (0.09) | 7 | 252 |
| EHEC not serogrouped | 81 | (0.71) | 75 | (0.64) | _ | 156 |
| Giardiasis | 9,472 | (7.78) | 7,728 | (6.12) | 2,509 | 19,709 |
| Gonorrhea [¶] | 160,106 | (113.02) | 174,230 | (118.76) | 768 | 335,104 |
| Haemophilus influenzae, invasive, all ages/ serotypes | 920 | (0.65) | 1,080 | (0.74) | 13 | 2,013 |
| Age <5 yrs, serotype b | 19 | (0.19) | 13 | (0.14) | _ | 32 |
| Age <5 yrs, nonserotype b | 76 | (0.76) | 40 | (0.42) | 1 | 117 |
| Age <5 yrs, unknown serotype | 118 | (1.18) | 106 | (1.11) | 3 | 227 |
| Hansen disease (leprosy) | 59 | (0.05) | 20 | (0.01) | 16 | 95 |
| Hantavirus pulmonary syndrome | 17 | (0.01) | 7 | (0) | 2 | 26 |
| Hemolytic uremic syndrome, postdiarrheal | 76 | (0.06) | 102 | (0.07) | _ | 178 |
| Hepatitis A, acute | 4,024 | (2.84) | 3,589 | (2.45) | 40 | 7,653 |
| Hepatitis B, acute | 4,548 | (3.21) | 2,923 | (1.99) | 55 | 7,526 |
| Hepatitis C, acute | 648 | (0.46) | 452 | (0.31) | 2 | 1,102 |
| Legionellosis | 1,473 | (1.04) | 743 | (0.51) | 16 | 2,232 |

| | N | ale | Fe | male | Sex not stated | |
|--|--------|---------|--------|---------|----------------|--------|
| Disease | No. | (Rate) | No. | (Rate) | No. | Total |
| Listeriosis | 344 | (0.24) | 350 | (0.24) | 2 | 696 |
| Lyme disease | 11,294 | (8.01) | 9,800 | (6.71) | 179 | 21,273 |
| Malaria | 901 | (0.64) | 487 | (0.33) | 14 | 1,402 |
| Measles | 30 | (0.02) | 26 | (0.02) | _ | 56 |
| Meningococcal disease | 856 | (0.60) | 889 | (0.61) | 11 | 1,756 |
| Mumps | 129 | (0.09) | 100 | (0.07) | 2 | 231 |
| Pertussis | 5,367 | (3.79) | 6,223 | (4.24) | 57 | 11,647 |
| Plague | _ | (0) | 1 | (0) | _ | 1 |
| Psittacosis | 5 | (0) | 7 | (0.01) | _ | 12 |
| Q fever | 55 | (0.04) | 16 | (0.01) | _ | 71 |
| Rabies, human | 2 | (0) | _ | (0) | _ | 2 |
| Rocky Mountain spotted fever | 649 | (0.47) | 437 | (0.31) | 5 | 1,091 |
| Rubella | 2 | (0) | 5 | (0) | _ | 7 |
| Salmonellosis | 19,013 | (13.42) | 20,073 | (13.68) | 4,571 | 43,657 |
| SARS-CoV ^{§§} | 4 | (0) | 4 | (0) | _ | 8 |
| Shigellosis | 9,859 | (6.96) | 11,169 | (7.61) | 2,553 | 23,581 |
| Streptococcal disease, invasive, group A | 2,895 | (2.09) | 2,688 | (1.87) | 289 | 5,872 |
| Streptococcal toxic-shock syndrome | 70 | (0.06) | 89 | (0.07) | 2 | 161 |
| Streptococcus pneumoniae, invasive disease | | . , | | . , | | |
| Drug-resistant | 1,204 | (1.49) | 1,152 | (1.36) | _ | 2,356 |
| Age <5 yrs | 462 | (9.49) | 374 | (8.03) | 9 | 845 |
| Syphilis, primary and secondary [¶] | 5,956 | (4.20) | 1,217 | (0.83) | 4 | 7,177 |
| Tetanus | 8 | (0.01) | 11 | (0.01) | 1 | 20 |
| Toxic-shock syndrome | 26 | (0.02) | 107 | (0.09) | _ | 133 |
| Trichinellosis | 3 | (0) | 3 | (0) | _ | 6 |
| Tuberculosis ^{¶¶} | 9,114 | (6.44) | 5,754 | (3.93) | 6 | 14,874 |
| Tularemia | 94 | (0.07) | 35 | (0.02) | _ | 129 |
| Typhoid fever | 175 | (0.12) | 180 | (0.12) | 1 | 356 |

* Per 100,000 population.

[†] No cases of anthrax, Powassan encephalitis or meningitis, western equine encephalitis or meningitis, paralytic poliomyelitis, or yellow fever were reported in 2003.

§ Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2003.

 \P Totals reported to the Division of STD Prevention, NCHSTP, as of May 1, 2004.

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

^{††} Notifiable in <40 states.

§§ Severe acute respiratory syndrome-associated coronavirus; data on sex provided by the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases.

¹¹ Totals reported to the Division of TB Elimination, NCHSTP, as of April 1, 2004.

TABLE 5. Reported cases and incidence* of notifiable diseases,[†] by race — United States, 2003

| | Am | erican lian or | A | sian Pacific | <u>5, by rac</u> | | u otates, | | | Race not | |
|------------------------------------|------------------|-------------------|--------|-----------------|------------------|----------|-----------|----------|--------|-------------|----------------------|
| | | a Native | | ander | В | lack | v | /hite | Other | | |
| Disease | No. | (Rate) | No. | (Rate) | No. | (Rate) | No. | (Rate) | No. | No. | Total |
| AIDS§ | 230 | (7.48) | 564 | (4.41) | 21,287 | (56.39) | 13,777 | (5.87) | 0 | 8,374 | 44,232¶ |
| Botulism | | | | | | | | | | | |
| Infant | _ | (—) | 5 | (2.68) | 3 | (0.44) | 46 | (1.47) | 2 | 20 | 76 |
| Other (includes wound | | | | | | | | | | | |
| and unspecified) | 0 | (0) | 0 | (0) | 2 | (0.01) | 16 | (0.01) | 0 | 15 | 33 |
| Brucellosis | 2 | (0.07) | 1 | (0.01) | 2 | (0.01) | 46 | (0.02) | 3 | 50 | 104 |
| Chlamydia** ^{††} | 12,067 | (392.28) | 12,848 | (100.39) | 296,564 | (785.65) | 268,366 | (114.32) | 17,390 | 270,243 | 877,478 [¶] |
| Coccidioidomycosis§§ | 29 | (2.11) | 103 | (1.69) | 219 | (2.08) | 1,188 | (1.52) | 26 | 3,305 | 4,870 |
| Cryptosporidiosis | 21 | (0.68) | 36 | (0.28) | 269 | (0.71) | 2,141 | (0.91) | 46 | 993 | 3,506 |
| Cyclosporiasis | 0 | (0) | 2 | (0.02) | 3 | (0.01) | 45 | (0.02) | 1 | 24 | 75 |
| Ehrlichiosis | | | | | | | | | | | |
| Human granulocytic | 3 | (0.10) | 0 | (0) | 5 | (0.01) | 198 | (0.09) | 2 | 154 | 362 |
| Human monocytic | 2 | (0.07) | 0 | (0) | 11 | (0.03) | 266 | (0.12) | 0 | 42 | 321 |
| Encephalitis/meningitis, arboviral | | | | | | | | | | | |
| California serogroup | 0 | (0) | 0 | (0) | 0 | (0) | 84 | (0.04) | 0 | 24 | 108 |
| St. Louis | 0 | (0) | 0 | (0) | 0 | (0) | 32 | (0.01) | 2 | 7 | 41 |
| West Nile | 56 | (1.82) | 5 | (0.04) | 0 | (0) | 1,856 | (0.79) | 13 | 936 | 2,866 |
| Enterohemorrhagic Escherichia | <i>coli</i> (EHE | EC) | | | | | | | | | |
| EHEC O157:H7 | 16 | (0.52) | 46 | (0.36) | 50 | (0.13) | 1,811 | (0.77) | 66 | 682 | 2,671 |
| EHEC non-O157 | 2 | (0.07) | 0 | (0) | 6 | (0.02) | 156 | (0.07) | 7 | 81 | 252 |
| EHEC not serogrouped | _ | (—) | 1 | (0.01) | 4 | (0.01) | 106 | (0.56) | 6 | 39 | 156 |
| Giardiasis | 69 | (2.49) | 459 | (3.88) | 957 | (2.95) | 8,378 | (4.17) | 384 | 9,462 | 19,709 |
| Gonorrhea ^{††} | 1,971 | (64.07) | 2,218 | (17.33) | 183,274 | (485.52) | 62,032 | (26.43) | 4,572 | 81,037 | 335,104 [¶] |
| Haemophilus influenzae, | | | | | | | | | | | |
| invasive, all ages/serotypes | 44 | (1.43) | 29 | (0.23) | 252 | (0.67) | 1,193 | (0.51) | 24 | 471 | 2,013 |
| Age <5 yrs, serotype b | 2 | (0.83) | _ | (—) | 1 | (0.03) | 22 | (0.14) | 0 | 7 | 32 |
| Age <5 yrs, nonserotype b | 12 | (4.98) | 5 | (0.56) | 19 | (0.59) | 52 | (0.34) | 0 | 29 | 117 |
| Age <5, unknown serotype | 10 | (4.15) | 1 | (0.11) | 30 | (0.93) | 108 | (0.71) | 0 | 78 | 227 |
| Hansen disease (leprosy) | 0 | (0) | 18 | (0.15) | 3 | (0.01) | 27 | (0.01) | 3 | 44 | 95 |
| Hantavirus pulmonary syndrome | 0 | (0) | 0 | (0) | 0 | (0) | 19 | (0.01) | 0 | 7 | 26 |
| Hemolytic uremic syndrome | | | | | | | | | | | |
| postdiarrheal | 0 | (0) | 2 | (0.02) | 2 | (0.01) | 133 | (0.06) | 3 | 38 | 178 |
| Hepatitis A, acute | 33 | (1.07) | 235 | (1.84) | 545 | (1.44) | 3,551 | (1.51) | 90 | 3,199 | 7,653 |
| Hepatitis B, acute | 61 | (1.98) | 197 | (1.54) | 1,235 | (3.27) | 2,724 | (1.16) | 115 | 3,194 | 7,526 |
| Hepatitis C, acute | 9 | (0.29) | 11 | (0.09) | 111 | (0.29) | 626 | (0.27) | 6 | 339 | 1,102 |
| Legionellosis | 5 | (0.16) | 14 | (0.11) | 316 | (0.84) | 1,399 | (0.60) | 30 | 468 | 2,232 |
| | | | | | | | | | | | |

TABLE 5. (Continued) Reported cases and incidence* of notifiable diseases,[†] by race — United States, 2003

| | | American Indian or Alaska Native | | Asian or Pacific Islander | | Black | | White | | Race not stated | |
|---|-----|--|-------|---------------------------------|-------|---------|--------|---------|-----|-----------------------|--------------------|
| Disease | No. | (Rate) | No. | (Rate) | No. | (Rate) | No. | (Rate) | No. | No. | Total |
| Listeriosis | 0 | (0) | 26 | (0.20) | 70 | (0.19) | 419 | (0.18) | 17 | 164 | 696 |
| Lyme disease | 37 | (1.20) | 81 | (0.68) | 181 | (0.48) | 10,636 | (4.54) | 74 | 10,264 | 21,273 |
| Malaria | 6 | (0.20) | 92 | (0.72) | 606 | (1.61) | 324 | (0.14) | 34 | 340 | 1,402 |
| Measles | 0 | (0) | 23 | (0.18) | 1 | (0) | 20 | (0.01) | 2 | 10 | 56 |
| Meningococcal disease | 8 | (0.26) | 35 | (0.27) | 237 | (0.63) | 1,067 | (0.45) | 20 | 389 | 1,756 |
| Mumps | 2 | (0.07) | 21 | (0.17) | 10 | (0.03) | 119 | (0.05) | 5 | 74 | 231 |
| Pertussis | 97 | (3.15) | 124 | (0.97) | 572 | (1.52) | 8,658 | (3.69) | 101 | 2,095 | 11,647 |
| Q fever | 0 | (0) | 0 | (0) | 3 | (0.01) | 45 | (0.02) | 0 | 23 | 71 |
| Rocky Mountain spotted fever | 41 | (1.39) | 1 | (0.01) | 80 | (0.21) | 827 | (0.36) | 2 | 140 | 1,091 |
| Salmonellosis | 284 | (9.23) | 613 | (4.79) | 4,142 | (10.97) | 21,086 | (8.98) | 796 | 16,736 | 43,657 |
| Shigellosis | 352 | (11.44) | 151 | (1.18) | 4,945 | (13.10) | 9,902 | (4.22) | 352 | 7,879 | 23,581 |
| Streptococcal disease, | | | | | | | | | | | |
| invasive, group A | 83 | (2.76) | 145 | (1.15) | 749 | (1.99) | 3,151 | (1.38) | 105 | 1,639 | 5,872 |
| Streptococcal toxic-shock syndrome | e 0 | (0) | 2 | (0.02) | 14 | (0.05) | 132 | (0.07) | 2 | 11 | 161 |
| Streptococcus pneumoniae, | | | | | | | | | | | |
| invasive disease | | | | | | | | | | | |
| Drug-resistant | 3 | (0.22) | 16 | (0.31) | 472 | (2.01) | 1,484 | (10.95) | 49 | 332 | 2,356 |
| Age <5 yrs ^{§§} | 7 | (5.89) | 14 | (4.06) | 146 | (9.13) | 454 | (6.08) | 0 | 224 | 845 |
| Syphilis, primary and secondary ^{††} | 67 | (2.18) | 128 | (1.00) | 2,693 | (7.13) | 3,690 | (1.57) | 251 | 348 | 7,177 [¶] |
| Toxic-shock syndrome | 0 | (0) | 2 | (0.02) | 8 | (0.03) | 104 | (0.05) | 2 | 17 | 133 |
| Tuberculosis | 189 | (6.14) | 3,575 | (28.00) | 4,261 | (11.29) | 6,755 | (2.88) | 0 | 94 | 14,874 |
| Tularemia | 5 | (0.16) | 0 | (0) | 3 | (0.01) | 76 | (0.03) | 2 | 43 | 129 |
| Typhoid fever | 0 | (0) | 100 | (0.78) | 26 | (0.07) | 54 | (0.02) | 21 | 155 | 356 |

* Per 100,000 population.

[†] No cases of anthrax, Powassan encephalitis or meningitis, western equine encephalitis or meningitis, paralytic poliomyelitis, or yellow fever were reported in 2003. Disease conditions with <25 reported cases are not included in this table.</p>

§ Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2003.

¹ Includes the following cases originally reported as Hispanic: 8,154 for AIDS; 122,559 for chlamydia; 21,297 for gonorrhea; and 1,097 for syphilis, primary and secondary.

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

^{+†} In addition to data collected through the National Electronic Telecommunications System for Surveillance (NETSS), certain data on ethnicity are collected on aggregate forms different from those used for reported cases. Thus, the total number of cases reported here can differ slightly from totals reported in other surveillance summaries. Totals reported to the Division of STD Prevention, NCHSTP, as of May 1, 2004.

§§ Notifiable in <40 states.

[¶] Totals reported to the Division of TB Elimination, NCHSTP, as of April 1, 2004.

TABLE 6. Reported cases and incidence* of notifiable diseases,[†] by ethnicity — United States, 2003

| | Hi | spanic | Non-I | Hispanic | Ethnicity not stated | Total |
|--|---------|----------|---------|----------|----------------------------|---------|
| Disease | No. | (Rate) | No. | (Rate) | | |
| AIDS§ | 8,154 | (21.04) | 35,064 | (14.05) | 1,014 | 44,232 |
| Botulism | | . , | | . , | | |
| Infant | 15 | (1.80) | 38 | (1.19) | 23 | 76 |
| Other (includes wound and unspecified) | 14 | (0.04) | 16 | (0.01) | 3 | 33 |
| Brucellosis | 62 | (0.16) | 17 | (0.01) | 25 | 104 |
| Chlamydia ^{¶**} | 122,559 | (316.19) | 448,456 | (179.66) | 306,463 | 877,478 |
| Coccidioidomycosis ^{††} | 747 | (3.22) | 1,238 | (1.70) | 2,885 | 4,870 |
| Cryptosporidiosis | 235 | (0.61) | 1,834 | (0.73) | 1,437 | 3,506 |
| Cyclosporiasis | 10 | (0.03) | 33 | (0.01) | 32 | 75 |
| Ehrlichiosis | | | | | | |
| Human granulocytic | 3 | (0.01) | 147 | (0.06) | 212 | 362 |
| Human monocytic | 4 | (0.01) | 232 | (0.10) | 85 | 321 |
| Encephalitis/meningitis, arboviral | | | | | | |
| California serogroup | 1 | (0) | 34 | (0.01) | 73 | 108 |
| St. Louis | 5 | (0.01) | 20 | (0.01) | 16 | 41 |
| West Nile | 248 | (0.64) | 1,366 | (0.55) | 1,252 | 2,866 |
| Enterohemorrhagic Escherichia coli (EHEC) | | | | | | |
| EHEC O157:H7 | 112 | (0.29) | 1,563 | (0.63) | 996 | 2,671 |
| EHEC non-O157 | 13 | (0.03) | 113 | (0.05) | 126 | 252 |
| EHEC not serogrouped | 2 | (0.01) | 82 | (0.40) | 72 | 156 |
| Giardiasis | 1,173 | (3.82) | 7,422 | (3.42) | 11,114 | 19,709 |
| Gonorrhea** | 21,297 | (54.94) | 203,594 | (81.57) | 110,213 | 335,104 |
| Haemophilus influenzae, invasive, all ages/serotypes | 122 | (0.31) | 1,003 | (0.40) | 888 | 2,013 |
| Age <5 yrs, serotype b | 11 | (0.29) | 18 | (0.12) | 3 | 32 |
| Age <5 yrs, nonserotype b | 18 | (0.48) | 66 | (0.42) | 33 | 117 |
| Age <5, unknown serotype | 28 | (0.75) | 83 | (0.53) | 116 | 227 |
| Hansen disease (leprosy) | 34 | (0.09) | 26 | (0.01) | 35 | 95 |
| Hantavirus pulmonary syndrome | 3 | (0.01) | 15 | (0.01) | 8 | 26 |
| Hemolytic uremic syndrome, postdiarrheal | 21 | (0.06) | 113 | (0.05) | 44 | 178 |
| Hepatitis A, acute | 1,083 | (2.79) | 3,036 | (1.22) | 3,534 | 7,653 |
| Hepatitis B, acute | 424 | (1.09) | 3,154 | (1.26) | 3,948 | 7,526 |
| Hepatitis C, acute | 63 | (0.16) | 506 | (0.20) | 533 | 1,102 |
| Legionellosis | 72 | (0.19) | 1,139 | (0.46) | 1,021 | 2,232 |
| Listeriosis | 87 | (0.22) | 344 | (0.14) | 265 | 696 |

TABLE 6. (*Continued*) Reported cases and incidence* of notifiable diseases,[†] by ethnicity — United States, 2003

| | | | | | Ethnicity | |
|--|-------|---------|--------|----------|-----------|--------|
| | His | spanic | Non-H | lispanic | not | Total |
| Disease | No. | (Rate) | No. | (Rate) | stated | |
| Lyme disease | 257 | (0.66) | 6,529 | (2.63) | 14,487 | 21,273 |
| Malaria | 94 | (0.24) | 787 | (0.32) | 521 | 1,402 |
| Measles | 1 | (0) | 39 | (0.02) | 16 | 56 |
| Meningococcal disease | 193 | (0.50) | 952 | (0.38) | 611 | 1,756 |
| Mumps | 52 | (0.14) | 104 | (0.04) | 75 | 231 |
| Pertussis | 1,294 | (3.34) | 8,033 | (3.22) | 2,320 | 11,647 |
| Q fever | 8 | (0.02) | 42 | (0.02) | 21 | 71 |
| Rocky Mountain spotted fever | 17 | (0.04) | 750 | (0.31) | 324 | 1,091 |
| Salmonellosis | 3,300 | (8.51) | 17,603 | (7.05) | 22,754 | 43,657 |
| Shigellosis | 3,774 | (9.74) | 10,029 | (4.02) | 9,778 | 23,581 |
| Streptococcal disease, invasive, group A | 419 | (1.09) | 2,568 | (1.05) | 2,885 | 5,872 |
| Streptococcal toxic-shock syndrome | 5 | (0.01) | 98 | (0.05) | 58 | 161 |
| Streptococcus pneumoniae, invasive | | | | | | |
| Drug-resistant | 121 | (0.93) | 1,032 | (6.76) | 1,203 | 2,356 |
| Age <5 yrs ^{††} | 79 | (4.69) | 351 | (4.48) | 415 | 845 |
| Syphilis, primary and secondary** | 1,097 | (2.83) | 5,417 | (2.17) | 663 | 7,177 |
| Toxic-shock syndrome | 7 | (0.03) | 79 | (0.04) | 47 | 133 |
| Tuberculosis | 4,115 | (10.62) | 10,675 | (4.28) | 84 | 14,874 |
| Tularemia | 3 | (0.01) | 58 | (0.02) | 68 | 129 |
| Typhoid fever | 62 | (0.16) | 155 | (0.06) | 139 | 356 |

* Per 100,000 population.

[†] No cases of anthrax, Powassan encephalitis or meningitis, western equine encephalitis or meningitis, paralytic poliomyelitis, or yellow fever were reported in 2003. Diseases with <25 reported cases are not included in this table.

§ Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention—Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2003.

[¶] Chlamydia refers to genital infections caused by *Chlamydia trachomatis*.

** In addition to data collected through the National Electronic Telecommunications System for Surveillance (NETSS), certain data on ethnicity are collected on aggregate forms different from those used for reported cases. Thus, the total number of cases reported here can differ slightly from totals reported in other surveillance summaries. Totals reported to the Division of STD Prevention, NCHSTP, as of May 1, 2004

^{††} Notifiable in <40 states.

§§ Totals reported to the Division of TB Elimination, NCHSTP, as of April 1, 2004.

PART 2

Graphs and Maps for Selected Notifiable Diseases in the United States, 2003

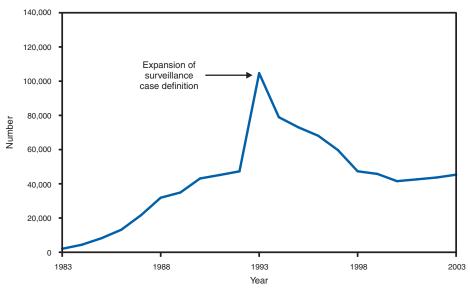
Abbreviations and Symbols Used in Graphs and Maps

- **U** Data not available.
- **N** Not notifiable (i.e., report of disease not required in that jurisdiction).

AS American Samoa

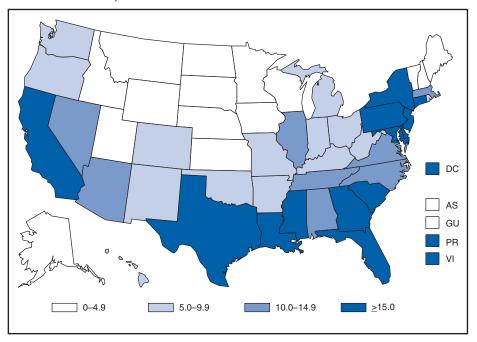
- **CNMI** Commonwealth of Northern Mariana Islands
- GU Guam
- PR Puerto Rico
- VI U.S. Virgin Islands





* Total number of AIDS cases includes all cases reported to CDC as of December 31, 2003. Total includes cases among residents in U.S. territories and 220 cases among persons with unknown state of residence.

During 1994–2000, the number of AIDS cases reported to CDC decreased 47.4%, predominantly attributable to effective antiretroviral therapies. During 2000–2003, the number of reported AIDS cases increased 8.5%. This increase might be attributable to increased AIDS case ascertainment in areas with recent HIV reporting implementation.



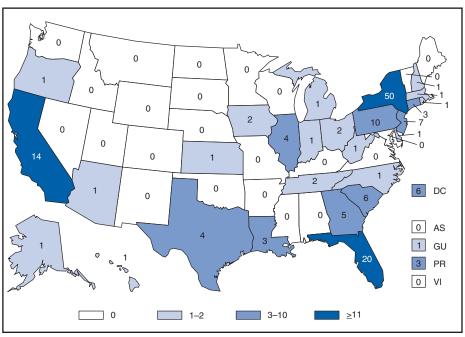
ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS). Incidence* — United States[†] and U.S. territories, 2003

* Per 100,000 population.

[†]Includes 220 cases with unknown state of residence.

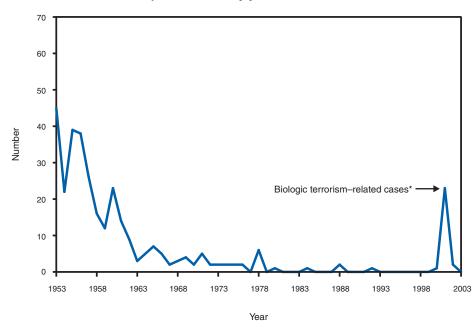
The highest AIDS rates were observed in the northeastern part of the country. High incidence (\geq 15 cases per 100,000 residents) also was observed in the Southeast, the U.S. Virgin Islands, and Puerto Rico.

ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS). Number of reported pediatric* cases — United States and U.S. territories, 2003



*Children and adolescents aged <13 years.

During 2003, a total of 157 new cases were reported in the United States and U.S. territories.



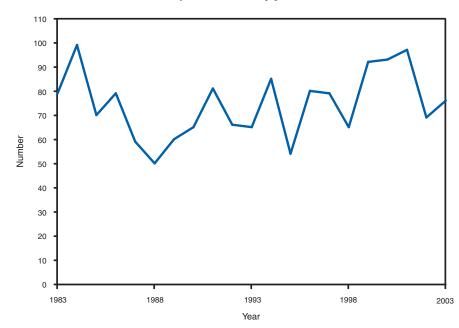
ANTHRAX. Number of reported cases, by year - United States, 1953-2003

* One epizootic-associated cutaneous case was reported in 2001 from Texas.

110 100 90 80 Outbreak caused by sauteed onions, Illinois 70 Outbreak caused by baked potatoes, Texas Outbreak caused by fermented Number 60 fish/seafood products, Arkansas Outbreak caused by chili sauce, Texas 50 40 30 20 10 0 1983 1988 1993 1998 2003 Year

BOTULISM, FOODBORNE. Number of reported cases, by year — United States, 1983–2003

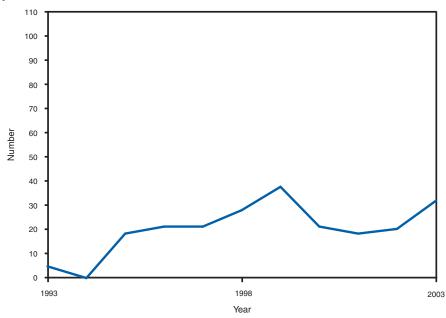
Home-canned foods and Alaska Native foods consisting of fermented foods of aquatic origin remain the principal sources of foodborne botulism in the United States.



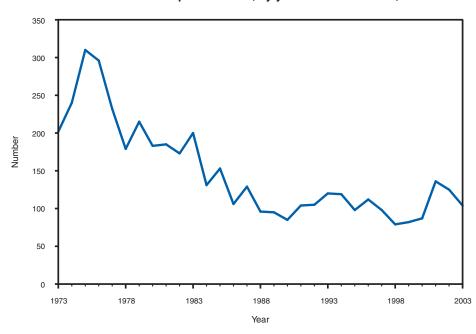
BOTULISM, INFANT. Number of reported cases, by year - United States, 1983-2003

Infant botulism is the most common type of botulism in the United States. Cases are sporadic, and risk factors remain substantially unknown.

BOTULISM, OTHER (includes wound and unspecified). Number of reported cases, by year — United States, 1993–2003

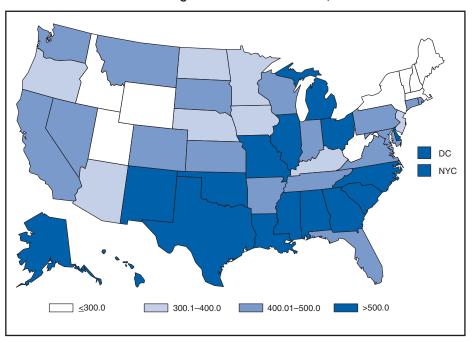


Wound botulism, which continues to constitute a substantial proportion of adult botulism cases, occurs almost exclusively among injection-drug users in the western United States and appears to be associated with injection of a particular type of heroin known as Black Tar Heroin.



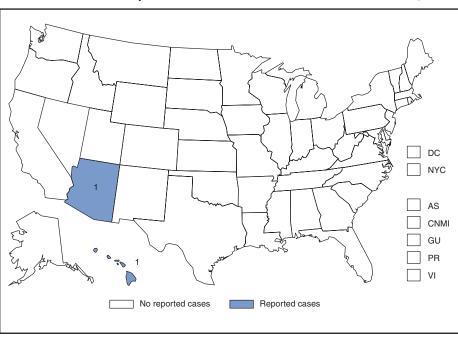
BRUCELLOSIS. Number of reported cases, by year - United States, 1973-2003

The majority of cases of brucellosis in the United States occur among returned travelers or immigrants from areas in which brucellosis is endemic.



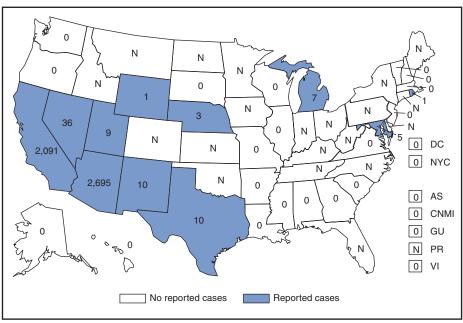
CHLAMYDIA. Incidence* among women — United States, 2003

Chlamydia refers to genital infections caused by *Chlamydia trachomatis*. In 2003, the chlamydia rate among women was 466.9 cases per 100,000 population. Rates for men are not given because reporting for men is limited.



CHOLERA. Number of reported cases — United States and U.S. territories, 2003

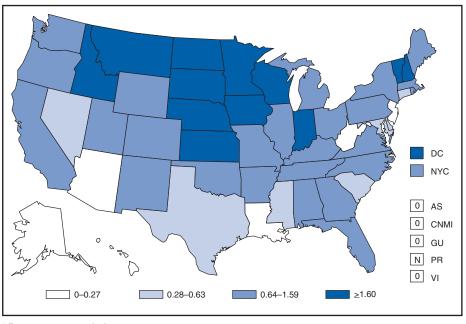
The majority of cholera infections in the United States are acquired in developing countries or through consumption of contaminated seafood. Cholera vaccine is not recommended for international travelers and is no longer available in the United States.



COCCIDIOIDOMYCOSIS. Number of reported cases — United States* and U.S. territories, 2003

* In the United States, coccidioidomycosis is endemic in the southwestern states. However, cases have been reported in other states, usually among travelers returning from areas in which the disease is endemic.

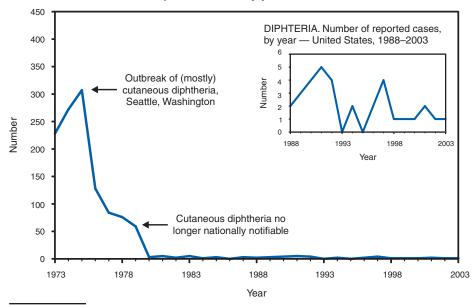
During 2002–2003, the number of coccidioidomycosis cases in California increased from 1,727 to 2,091, whereas the number of cases in Arizona declined from 3,133 to 2,695. Physicians should maintain a high suspicion for acute coccidioidomycosis, especially for patients with a flu-like illness who live in or have visited areas in which disease is endemic.



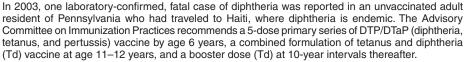
CRYPTOSPORIDIOSIS. Incidence* — United States and U.S. territories, 2003

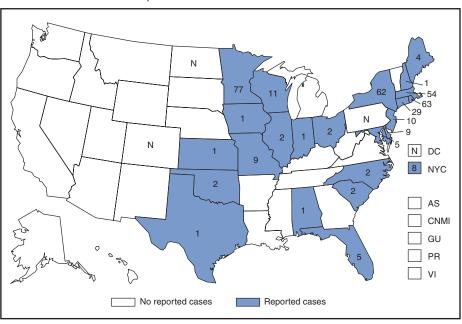
* Per 100,000 population.

Surveillance data from 2003 indicate that infection with *Cryptosporidium* species is geographically widespread in the United States. The diagnosis or transmission of cryptosporidiosis might be higher in northern states, particularly in the Midwest; however, state-by-state differences should be interpreted with caution because different state surveillance systems have varying capabilities to detect cases. Reported illness onset dates exhibited a seasonal increase from early summer through early fall.



DIPHTHERIA. Number of reported cases, by year — United States, 1973–2003

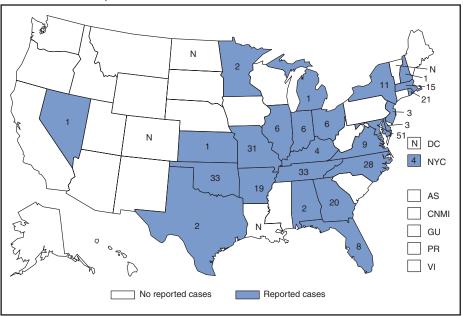




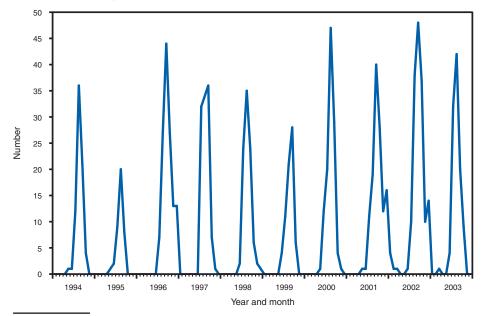
EHRLICHIOSIS, HUMAN GRANULOCYTIC. Number of reported cases — United States and U.S. territories, 2003

Human ehrlichiosis is an emerging tickborne disease that became nationally notifiable in 1999 (in certain states, ehrlichiosis is not a notifiable disease). Identification and reporting of human ehrlichioses are incomplete, and numbers of cases reported here are not indicative of the overall distribution or the regional prevalence of disease.

EHRLICHIOSIS, HUMAN MONOCYTIC. Number of reported cases — United States and U.S. territories, 2003



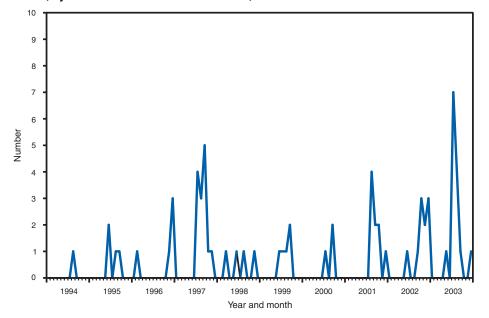
Human ehrlichiosis is an emerging tickborne disease that became nationally notifiable in 1999 (in certain states, ehrlichiosis is not a notifiable disease). Identification and reporting of human ehrlichioses are incomplete, and numbers of cases reported here are not definitive for the overall distribution or the regional prevalence of disease.



ENCEPHALITIS/MENINGITIS, ARBOVIRAL, CALIFORNIA SEROGROUP. Number of reported cases, by month of onset — United States, 1994–2003

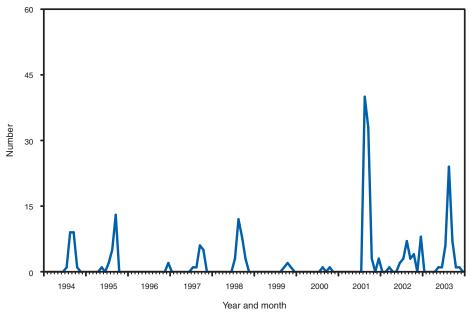
California (CAL) serogroup viruses (mainly La Crosse virus in the eastern United States, where the eastern treehole mosquito, *Ochleotatus triseriatus*, is the primary vector) are a cause of endemic meningoencephalitis, especially in children. In 2003, a total of 108 cases were reported from 11 states (Illinois, Kentucky, Louisiana, Minnesota, Mississippi, North Carolina, Ohio, Tennessee, Virginia, West Virginia, and Wisconsin). During 1964–2003, a median of 68 (average: 80; range: 29–167) cases were reported per year in the United States.

ENCEPHALITIS/MENINGITIS, ARBOVIRAL, EASTERN EQUINE. Number of reported cases, by month of onset — United States, 1994–2003



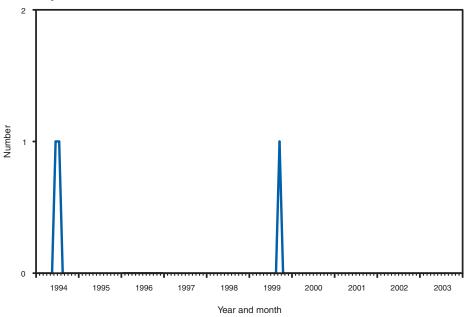
Cases of eastern equine encephalitis among humans, often associated with high mortality rates (>20%) and severe neurologic sequelae, occur sporadically in the eastern United States. In 2003, a total of 14 cases were reported from eight states (Alabama, Florida, Georgia, Louisiana, New Jersey, North Carolina, South Carolina, and Virginia), equaling the greatest number reported to CDC in any year during 1964–2003. During 1964–2003, a median of four (average: five; range, 0–14) cases were reported per year in the United States.

ENCEPHALITIS/MENINGITIS, ARBOVIRAL, ST. LOUIS. Number of reported cases, by month of onset — United States, 1994–2003



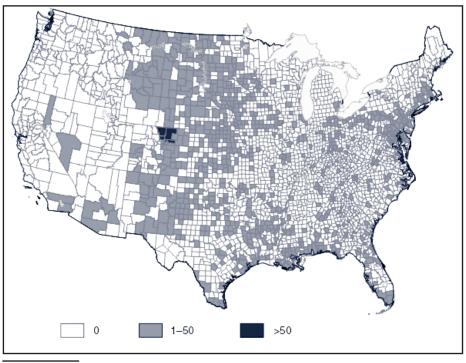
Before the emergence of West Nile virus (WNV) in the United States, St. Louis encephalitis (SLE) virus was the primary cause of epidemic viral encephalitis in the United States. In 2003, a total of 41 SLE cases were reported from nine states (Arizona, Louisiana, Michigan, Mississippi, New Mexico, New York, Pennsylvania, South Dakota, and Texas). During 1964–2003, a median of 27 (average: 116; range: 2–1,967) cases were reported per year in the United States.

ENCEPHALITIS/MENINGITIS, ARBOVIRAL, WESTERN EQUINE. Number of reported cases, by month of onset — United States, 1994–2003



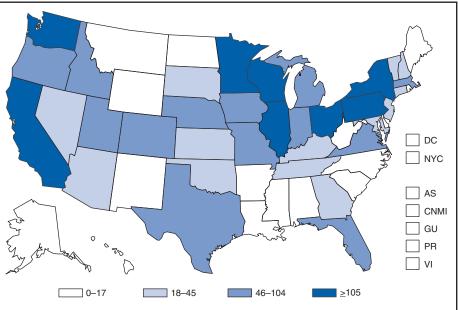
The most recent epidemic of western equine encephalitis occurred in Colorado in 1987. The reasons for the recent absence of epidemic transmission are poorly understood. No cases were reported nationally in 2003. During 1964–2003, a median of two (average: 16; range: 0–172) cases were reported per year in the United States.

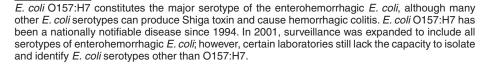
ENCEPHALITIS/MENINGITIS, ARBOVIRAL, WEST NILE. Number of reported cases, by county — United States, 2003

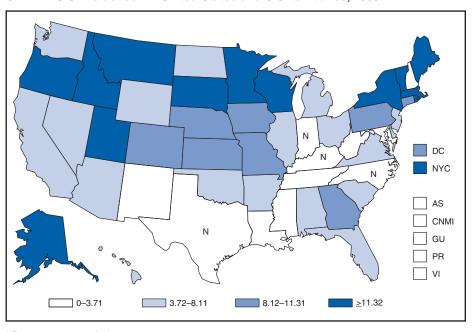


In 2003, a total of 2,866 West Nile virus (WNV) neuroinvasive cases were reported from 42 states and the District of Columbia (DC) compared with 2,942 cases from 36 states and DC in 2002. Since WNV was first discovered during an encephalitis outbreak in New York City in 1999, a median of 64 (average: 1,170; range: 19–2,942) neuroinvasive cases were reported per year in the United States.



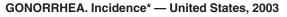


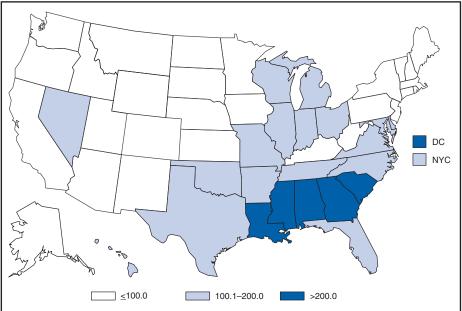




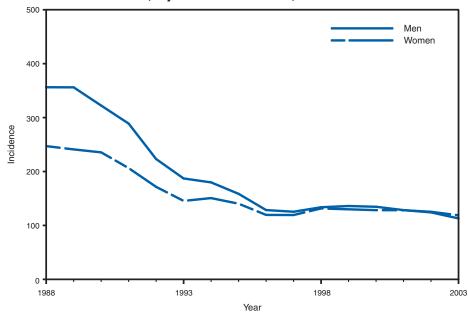
GIARDIASIS. Incidence* — United States and U.S. territories, 2003

Surveillance data from 2003 indicate that infection with *Giardia intestinalis* is geographically widespread in the United States. The diagnosis or transmission of giardiasis might be higher in the northern states; however, state-by-state differences should be interpreted with caution because different state surveillance systems have varying capabilities to detect cases. Reported illness onset dates exhibited a seasonal increase from early summer through early fall.





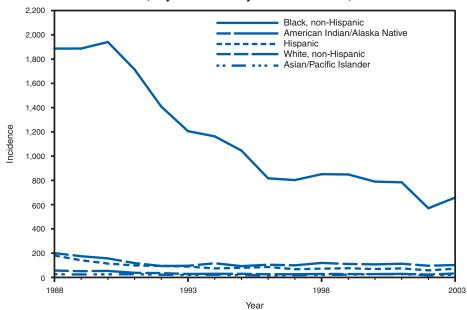
In 2003, the overall U.S. gonorrhea rate was 116.3 per 100,000 population. The *Healthy People 2010* national objective is ≤19 cases per 100,000 population. Eight states (Idaho, Maine, Montana, New Hampshire, North Dakota, Utah, Vermont and Wyoming) reported rates below the national objective.



GONORRHEA. Incidence,* by sex — United States, 1988-2003

* Per 100,000 population.

The overall incidence of gonorrhea in the United States has declined since 1975. In 2003, incidence was slightly higher among women than among men.

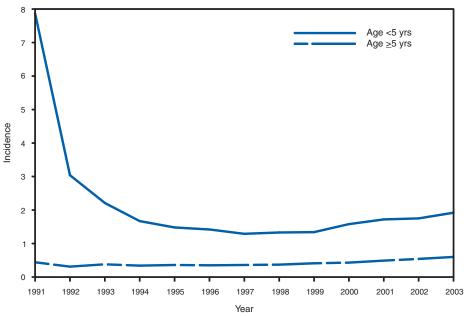


GONORRHEA. Incidence,* by race/ethnicity - United States, 1988-2003

* Per 100,000 population.

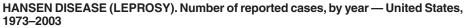
Gonorrhea incidence among blacks decreased considerably in the 1990s but continues to be the highest among all race/ethnic groups. In 2003, gonorrhea incidence among non-Hispanic blacks was approximately 20 times greater than that for non-Hispanic whites.

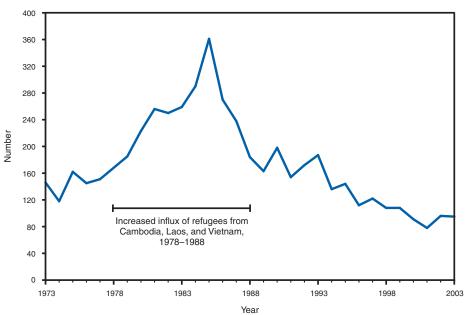
HAEMOPHILUS INFLUENZAE, INVASIVE DISEASE. Incidence,* by age group — United States, 1991–2003



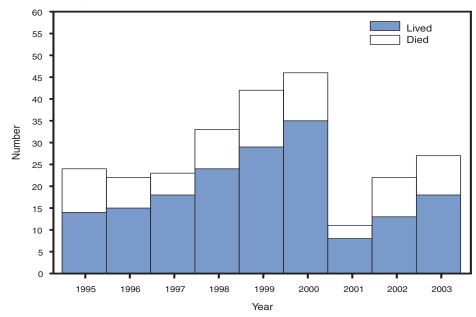
* Per 100,000 population.

Before the introduction of conjugate *Haemophilus influenzae* serotype b (Hib) vaccines in 1987, incidence of invasive Hib disease among children aged <5 years was estimated to be 100 per 100,000 population. In 2003, incidence of invasive *H. influenzae* disease (all serotypes) was 1.9 per 100,000 in this age group (376 reported cases; 32 [9%] reported as Hib, 117 [31%] as other serotypes or nontypeable isolates, and 227 [60%] with serotype information unknown or missing).





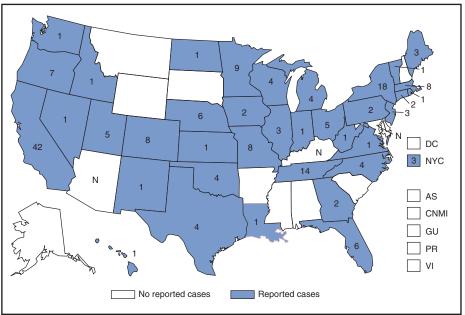
HANTAVIRUS PULMONARY SYNDROME. Number of reported cases, by survival status*, and year — United States, 1995–2003



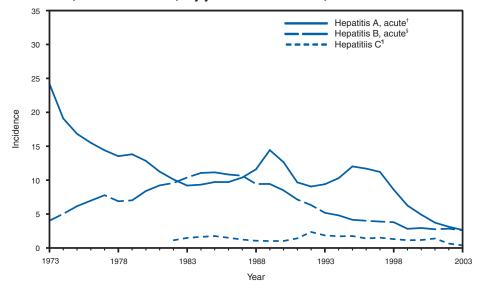
* Data from National Center for Infectious Diseases.

Hantavirus pulmonary syndrome incidence varies with ecologic conditions that affect rodent reservoir species. Human infection is associated with high mortality, even with appropriate medical care.

HEMOLYTIC UREMIC SYNDROME, POSTDIARRHEAL. Number of reported cases — United States and U.S. territories, 2003



In the United States, the majority of cases of postdiarrheal hemolytic uremic syndrome are caused by infection with *Escherichia coli* O157:H7. Approximately 50% of cases occur among children aged <5 years.



HEPATITIS, VIRAL. Incidence,* by year - United States, 1973-2003

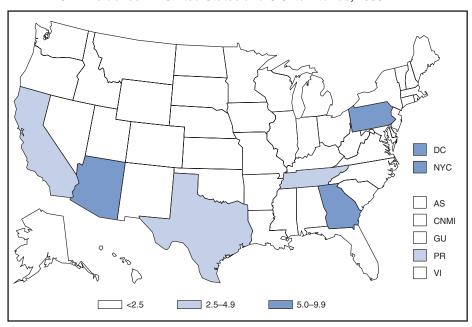
* Per 100,000 population.

[†]Hepatitis A vaccine was first licensed in 1995.

[§]Hepatitis B vaccine was first licensed in June 1982.

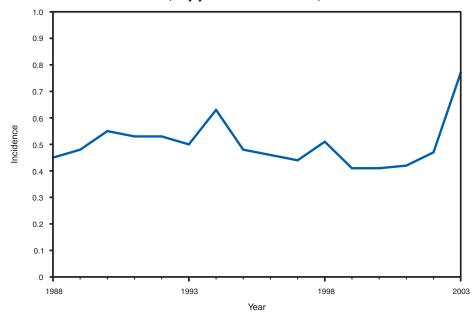
[¶]An anti-HCV antibody test first became available in May 1990.

Hepatitis A incidence continues to decline and in 2003 was the lowest ever recorded. However, cyclic increases in hepatitis A have been observed approximately every 10 years, and incidence could increase again. Hepatitis B incidence, which declined >65% during 1990–2000, has remained unchanged for the past 4 years, reflecting ongoing transmission in adult populations at high risk. The trend in reported hepatitis C/non-A, non-B (renamed hepatitis C, acute, in 2003) cases after 1990 is misleading because reported cases have included those based only on a positive laboratory test for anti-HCV, and the majority of these cases represent chronic hepatitis C virus (HCV) infection.





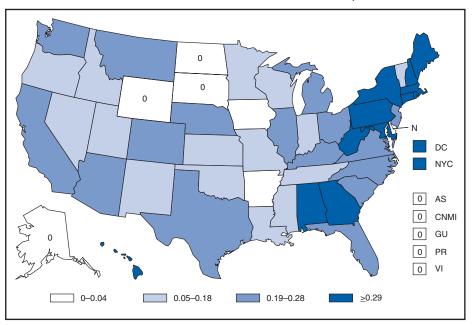
In 1999, routine hepatitis A vaccination was recommended for children living in 11 states with consistently elevated disease rates. Since then, hepatitis A rates have declined in all regions, with the greatest declines occurring in the West, where 10 of these states are located. Hepatitis A rates are now similar in all regions.



LEGIONELLOSIS. Incidence,* by year — United States, 1988-2003

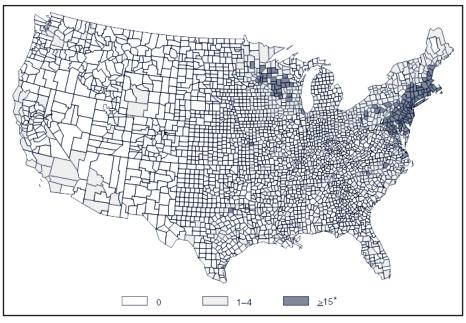
* Per 100,000 population.

The increased incidence of legionellosis in 2003 was influenced largely by increases in the incidence of sporadic, community-acquired Legionnaire disease in certain mid- and south Atlantic states. During this same period and in these same states, no changes occurred in diagnostic methods, diagnostic test volume, or surveillance methods. These states did experience record levels of rainfall that correlated with the increased incidence of Legionnaire disease; however, the precise nature of this association is unknown.





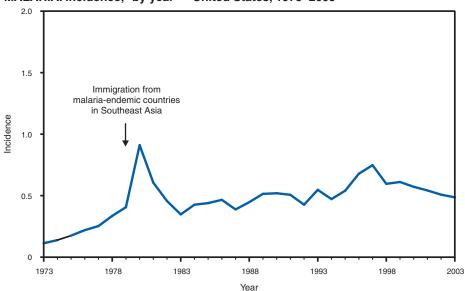
Listeriosis was made a nationally notifiable disease in 2000. Although the infection is relatively uncommon, listeriosis is a leading cause of death attributable to foodborne illness in the United States. Recent outbreaks have been linked to unpasteurized cheese.



LYME DISEASE. Number of reported cases, by county — United States, 2003

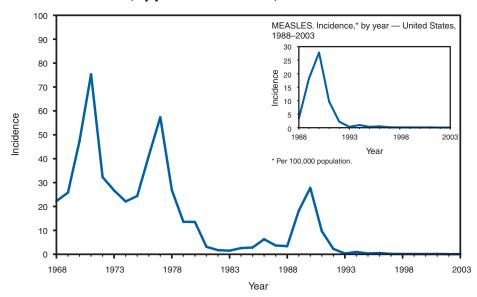
* The total number of cases from these counties represented 90% of all cases reported in 2003.

A rash that might be misdiagnosed as Lyme disease can occur following bites of the Lone Star tick (*Amblyomma americanum*). These ticks, which do not transmit the Lyme disease bacterium, are common human-biting ticks in the southern and southeastern United States.



MALARIA. Incidence,* by year - United States, 1973-2003

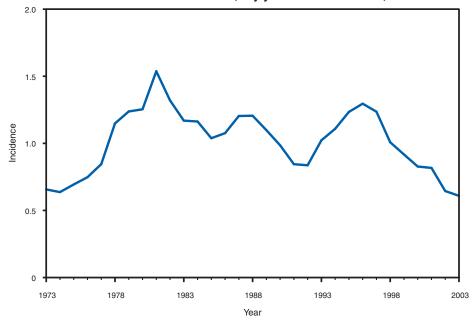
Since 1997, the number of malaria cases has decreased. This decline might reflect decreased international travel and immigration after the September 11, 2001, attacks on New york City and the District of Columbia.



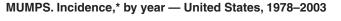
MEASLES. Incidence, by year - United States, 1968-2003

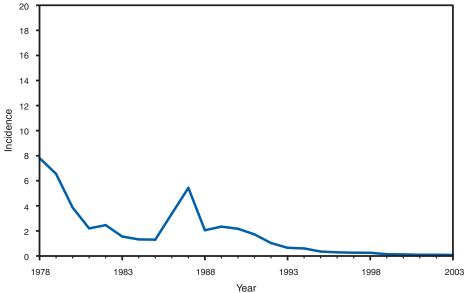
* Per 100,000 population.

In 2003, a total of 56 cases were reported, two of them fatal; measles incidence remains at less than one case per 1,000,000 population for the seventh consecutive year. Of 56 confirmed cases reported in 2003, a total of 24 were identified as international importations, and 19 others were epidemiologically linked to an imported case. The continued low reported incidence of measles disease and the high percentage of import-associated cases support the conclusion that measles is not endemic in the United States.



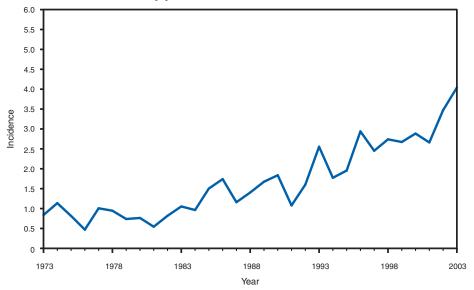
MENINGOCOCCAL DISEASE. Incidence,* by year — United States, 1973–2003



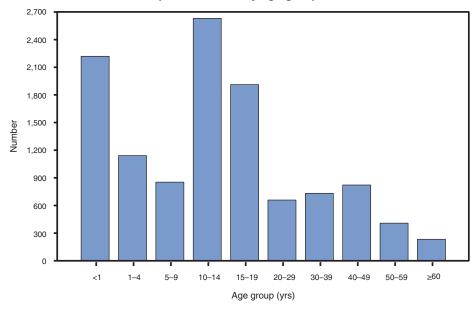


* Per 100,000 population.

A mumps vaccine was first licensed in December 1967. Because of the recommendation of 2 doses of measles-mumps-rubella vaccine and the continued high coverage rate in the United States, mumps incidence continues to be low, with 231 cases reported for 2003, thus meeting the *Healthy People 2010* objective of <500 cases per year.



Pertussis epidemics occur every 3–5 years. In 2003, a total of 11, 647 cases were reported, the highest number reported since 1964.



PERTUSSIS. Number of reported cases,* by age group — United States, 2003

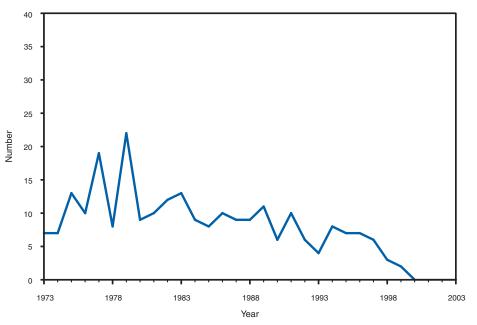
* Of 11,647 cases, age was reported unknown for 46 (0.4%) cases.

In 2003, a total of 1,982 (17%) reported cases occurred among infants aged <6 months (who were too young to receive 3 diptheria and tetanus toxoids and acellular pertussis doses), and 7,394 (63%) cases occurred among persons aged \geq 10 years (no pertussis vaccine is currently licensed for persons aged \geq 7 years).

Prairie dog and rock squirrel epizootics Number Year

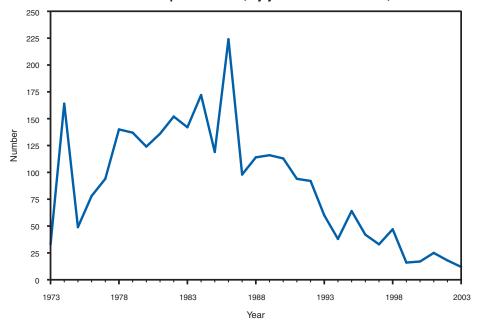
PLAGUE. Number of reported cases among humans, by year — United States, 1973–2003

In 2003, a single case of plague was reported, bringing the 3-year total for 2001–2003 to five cases. This is the lowest sustained rate of naturally occurring plague in the United States in 40 years. The low number of cases was expected because of prolonged drought conditions in the Southwest during the past 5 years. Increased precipitation in the Southwest in 2004 might result in increased human cases in 2005.

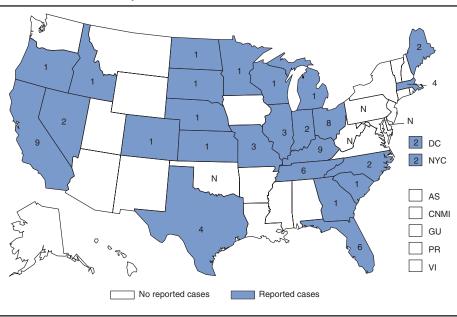


POLIOMYELITIS, PARALYTIC. Number of reported cases, by year — United States, 1973–2003

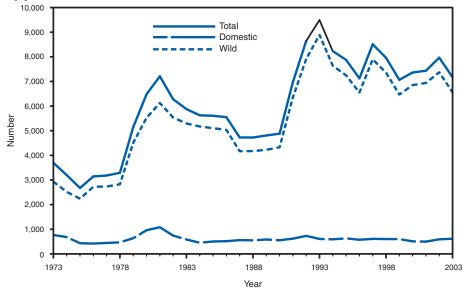
An inactivated poliomyelitis vaccine (IPV) was first licensed in 1955. An oral vaccine was licensed in 1961. No cases of vaccine-associated paralytic poliomyelitis have been reported since the IPV schedule was implemented in 2000.



Q FEVER. Number of reported cases — United States and U.S. territories, 2003



Q fever became nationally notifiable in 1999. Identification and reporting of Q fever are incomplete, and the number of cases reported do not represent the overall distribution or regional prevalence of disease.



RABIES, ANIMAL. Number of reported cases among wild and domestic animals,* by year – United States and Puerto Rico, 1973–2003

* Data from National Center for Infectious Diseases.

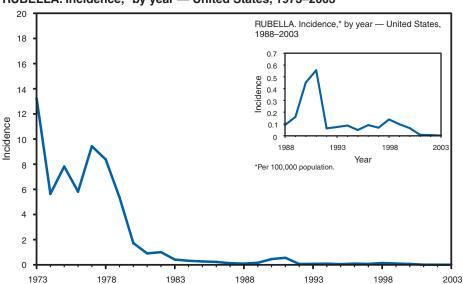
Periods of resurgence and decline of rabies incidence are primarily the result of cyclic reemergence, mainly among raccoons in the eastern United States. Wildlife populations increase and reach densities sufficient to support epizootic transmission of the disease, resulting in substantial increases in reported cases. As populations are decimated by these epizootics, numbers of reported cases decline until populations again reach levels to support epizootic transmission of the disease.

0.6 0.5 0.4 Incidence 0.3 0.2 0.1 0 1973 1978 1983 1988 1993 1998 2003 Year

ROCKY MOUNTAIN SPOTTED FEVER. Incidence,* by year — United States, 1973–2003

* Per 100,000 population.

Changes in the number of reported cases of Rocky Mountain spotted fever might reflect alterations to surveillance algorithms for this and other tickborne diseases. Biological factors (e.g., changes in tick populations resulting from fluctuating environmental conditions) also might be involved.

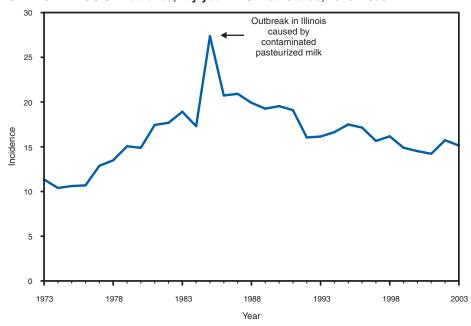


RUBELLA. Incidence,* by year — United States, 1973-2003

* Per 100,000 population.

A rubella vaccine was first licensed in 1969. In 2003, only seven confirmed cases of rubella were reported by six states, which is the lowest number of rubella cases ever reported. None were identified as importations. The majority of reported cases continue to occur among persons aged >20 years. Of the cases in persons with known ethnicity, >50% occurred among Hispanics. Of ill persons for whom the country of birth was known and disease occurred in 2003, half were foreign born.

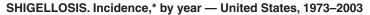
Year

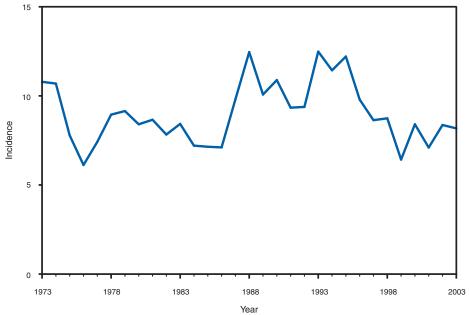


SALMONELLOSIS. Incidence,* by year - United States, 1973-2003

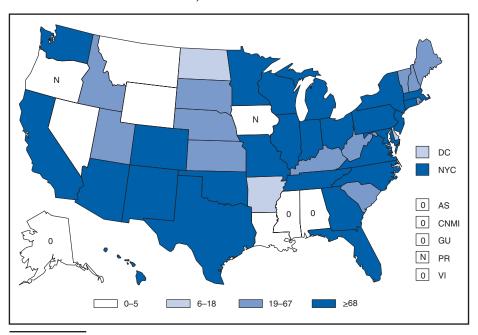
* Per 100,000 population.

Foodborne transmission accounts for approximately 95% of salmonellosis in the United States. CDC estimates that approximately 38 cases occur for every one case reported through national surveillance. The three *Salmonella* serotypes that cause the majority of cases are *S. enterica* serotype Typhimurium, *S. enterica* serotype Enteritidis, and *S. enterica* serotype Newport.





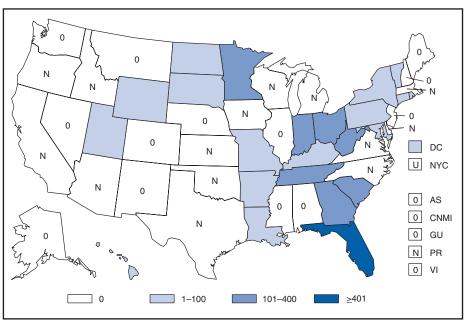
Although incidence of shigellosis declined during 1993–2003, prolonged and extensive outbreaks of *Shigella sonnei* infections continue to occur in child care settings. These child care-associated infections are responsible for a substantial proportion of the shigellosis cases reported in the United States. Resistance to first-line antimicrobial agents, including trimethoprim-sulfamethoxazole, continues to increase among *S. sonnei* cases in the United States.



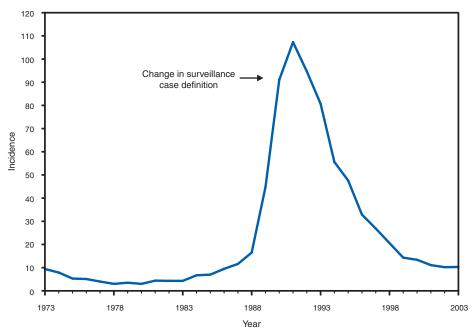
STREPTOCOCCAL DISEASE, INVASIVE, GROUP A. Number of reported cases — United States and U.S. territories, 2003

Passive reporting likely underestimates the numbers of invasive group A *Streptococcus* (GAS) infections in the United States. In 2003, approximately 1,190 invasive GAS infections were reported by nine sites participating in CDC's Active Bacterial Core Surveillance (ABCs). On the basis of ABCs data, CDC estimates that approximately 11,000 cases and 1,700 deaths attributable to invasive GAS disease occurred in the United States in 2003.

STREPTOCOCCUS PNEUMONIAE, INVASIVE, DRUG-RESISTANT. Number of reported cases — United States and U.S. territories, 2003



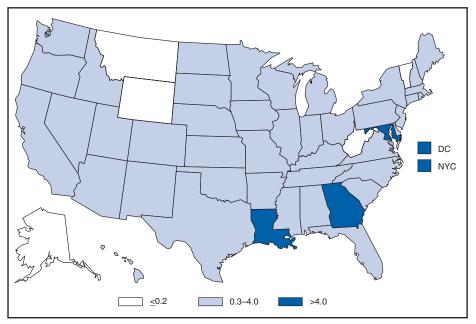
A conjugate pneumococcal vaccine was licensed for young children in early 2000. Data from CDC's Active Bacterial Core Surveillance/Emerging Infections Program Network indicate that rates of invasive disease caused by drug-resistant pneumococci have declined since the vaccine was licensed.



SYPHILIS, CONGENITAL. Incidence* among infants aged <1 year — United States, 1973–2003

Incidence of congenital syphilis has declined steadily since 1991.

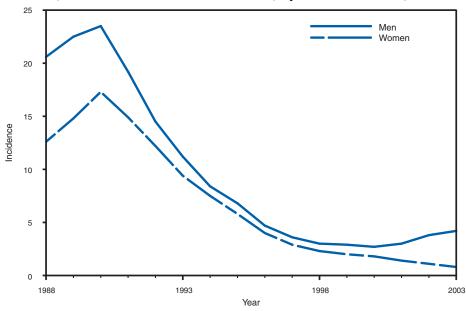
^{*} Per 100,000 live births.



SYPHILIS, PRIMARY AND SECONDARY. Incidence* — United States, 2003

* Per 100,000 population.

In 2003, the overall U.S. rate of primary and secondary syphilis was 2.5 cases per 100,000 population, which is above the *Healthy People 2010* objective of 0.2 cases per 100,000 population per year. Five states reported rates at or below the national objective. Seven states reported fewer than three cases.

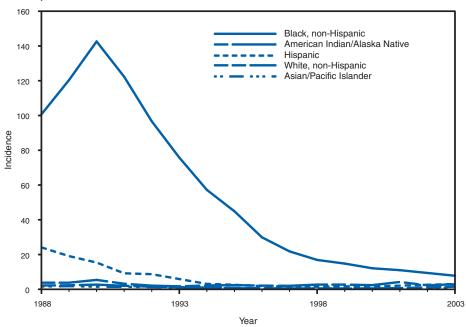


SYPHILIS, PRIMARY AND SECONDARY: Incidence,* by sex - United States, 1988-2003

* Per 100,000 population.

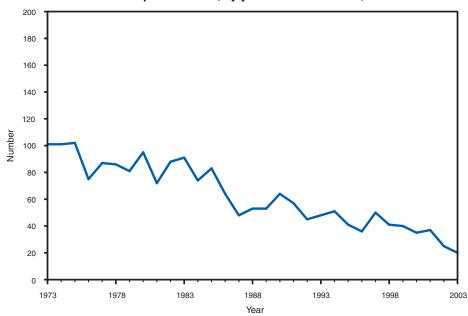
During 2002–2003, incidence of primary and secondary syphilis in the United States increased slightly, from 2.4 to 2.5 cases per 100,000 population. Among women, incidence continued to decline, from 1.1 cases per 100,000 women in 2001 to 0.8 cases per 100,000 in 2003, the lowest rate for women since reporting began in 1941. Among men, rates increased from 3.7 cases per 100,000 in 2002 to 4.2 cases per 100,000 in 2003, after a low rate of 2.6 cases per 100,000 in 2000.

SYPHILIS, PRIMARY AND SECONDARY. Incidence,* by race/ethnicity — United States, 1988–2003



During 2002–2003, incidence of primary and secondary syphilis declined among non-Hispanic blacks, from 9.5 to 7.2 cases per 100,000 population. Increases occurred among all other race/ethnic populations: incidence for non-Hispanic whites increased from 1.2 to 1.5 per 100,000 population, incidence among Hispanics increased from 2.5 to 2.8 per 100,000 population, incidence among Asian/Pacific Islanders increased from 0.8 to 1.0 per 100,000 population, and incidence among American Indians/Alaska Natives increased from 2.1 to 2.2 per 100,000 population. During 1992–2003, overall incidence among ono-Hispanic blacks decreased from 64 times that for non-Hispanic whites.

TETANUS. Number of reported cases, by year - United States, 1973-2003

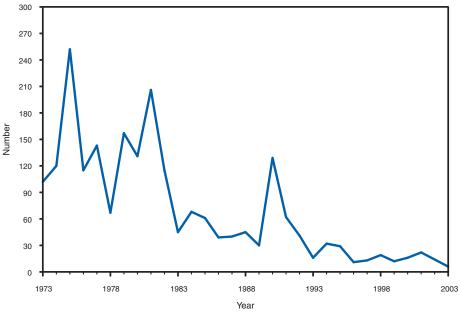


In 2003, a total of 20 cases of tetanus were reported, two (10%) of them fatal. Nineteen (95%) cases occurred among persons who had not completed a 3-dose primary tetanus toxoid vaccination series or for whom vaccination history was uncertain. No neonatal cases or cases among persons aged <18 years occurred.

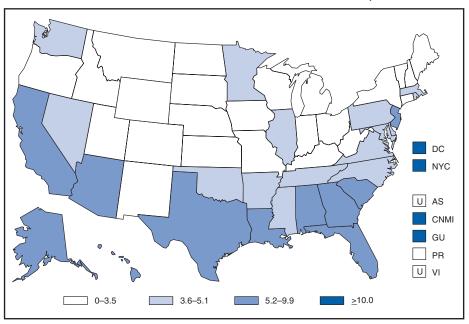
Number 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 Year and quarter

TOXIC-SHOCK SYNDROME. Number of reported cases, by quarter — United States, 1988–2003

TRICHINELLOSIS. Number of reported cases, by year — United States, 1973–2003



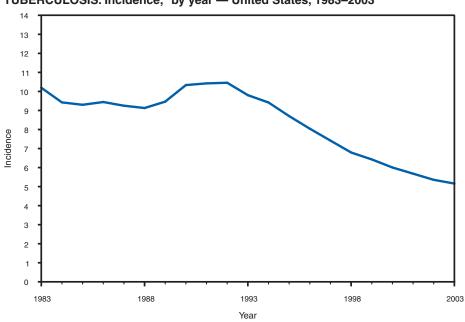
In 2003, six cases of trichinellosis (trichinosis) were reported by four states (California, New Hampshire, New York, and Tennessee); this was the eighth consecutive year in which <25 cases were reported.



TUBERCULOSIS. Incidence* — United States and U.S. territories, 2003

* Per 100,000 population.

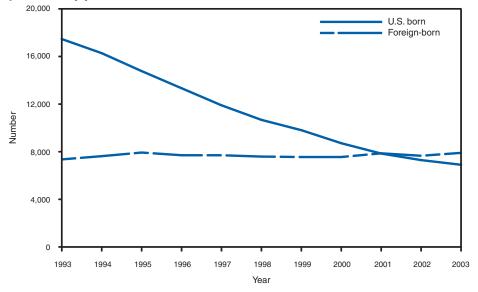
In 2003, a total of 25 states and Puerto Rico had tuberculosis rates \leq 3.5 cases per 100,000 population, which is the interim (i.e., year 2000) incidence target for the elimination of tuberculosis by 2010. During 2002-2003, the number of states that reported tuberculosis incidence below the national average (5.1 cases per 100,000) increased from 37 to 39.



TUBERCULOSIS. Incidence,* by year — United States, 1983–2003

* Per 100,000 population.

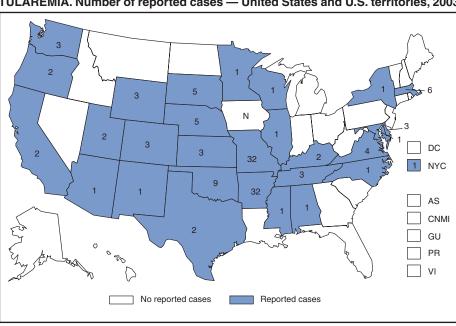
During 2002-2003, the number of cases of tuberculosis reported to CDC decreased 1.3%, and incidence decreased 1.9%. Although the number and incidence of tuberculosis cases are the lowest since national surveillance began in 1953, the decline for each was the smallest since 1988.



TUBERCULOSIS. Number of reported cases among U.S.-born and foreign-born persons,* by year - United States, 1993-2003

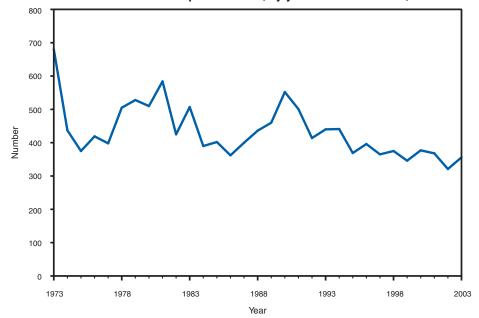
* For 69 cases, origin of patients was unknown.

CDC is collaborating with public health partners to implement tuberculosis (TB) control initiatives for recent international arrivals and residents along the border between the United States and Mexico and to strengthen TB programs in countries with a high incidence of disease.

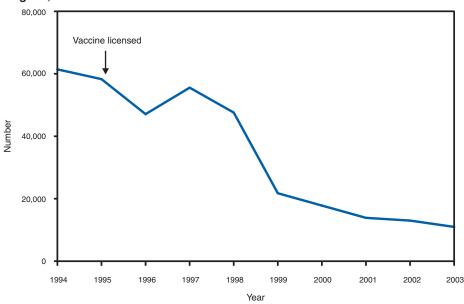


TULAREMIA. Number of reported cases — United States and U.S. territories, 2003

In 2003, a total of 129 cases of tularemia were reported. Areas with high rates of infection included Arkansas, Missouri, and Martha's Vineyard, Massachusetts. In 2000, tularemia was reinstituted as a nationally notifiable disease.



In 2003, approximately 71% of reported cases of typhoid fever were acquired by travelers to countries where the disease is endemic. Increasing antimicrobial resistance has complicated the treatment of typhoid fever.



VARICELLA. Number of reported cases — Michigan, Rhode Island, Texas, and West Virginia,* 1994–2003

* These four states maintained consistent and adequate surveillance by reporting cases constituting ≥5% of their birth cohort during 1990–1995 (**Source:** CDC, National Immunization Program).

The number of varicella cases in these four states during 2003 is the lowest ever reported, constituting a 15.6% decline compared with cases reported in 2002 and an 81.0% decline compared with cases reported in the 3 years before vaccine was licensed in 1995.

PART 3

Historical Summaries of Notifiable Diseases in the United States, 1972–2003

| Abbreviations | and | Symbols | Used | in | Tables | |
|----------------------|-----|----------------|------|----|--------|--|
|----------------------|-----|----------------|------|----|--------|--|

NA Data not available.

– No reported cases.

Notes: Rates < 0.01 after rounding are listed as 0.

Data in the MMWR Summary of Notifiable Diseases — United States, 2003 might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and case definitions.

| Disease | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|--|------------|--------|------------------|-------------|------------|------------|------------|------------|------------|-----------|-----------|
| AIDS [†] | 40.20 | 30.07 | 27.20 | 25.21 | 21.85 | 7.21 | 16.66 | 14.95 | 14.88 | 15.29 | 15.36 |
| Amebiasis | 1.21 | 1.20 | § | § | § | § | § | § | § | § | § |
| Anthrax | — | _ | _ | _ | — | _ | — | 0 | 0.01 | 0 | 0 |
| Aseptic meningitis | 5.39 | 3.71 | § | § | § | § | § | § | § | § | § |
| Botulism, total (includes | | | | | | | | | | | |
| wound and unspecified) | 0.04 | 0.06 | 0.04 | 0.05 | 0.05 | 0.04 | 0.06 | 0.05 | 0.06 | 0.03 | 0.01 |
| Foodborne | 0.01 | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0 | 0.01 |
| Brucellosis | 0.05 | 0.05 | 0.04 | 0.05 | 0.04 | 0.03 | 0.03 | 0.03 | 0.05 | 0.04 | 0.04 |
| Chancroid | 0.54 ** | 0.30 | 0.20 | 0.15 | 0.09 | 0.07 | 0.06 | 0.03 | 0.01 | 0.02 | 0.02 |
| Chlamydia [¶] | | ** | 182.60 | 188.10 | 196.80 | 236.57 | 254.10 | 257.76 | 278.32 | 296.55 | 304.71 |
| Cholera | 0 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| Coccidioidomycosis | | ** | 0.46 | 0.64 | 0.65 | 0.99 | 3.58 | 4.69 | 6.71 | 3.03 | 2.57 |
| Cryptosporidiosis | ** | ** | 1.13 | 1.07 ** | 1.12 | 1.61 | 0.92 | 1.17 | 1.34 | 1.07 | 1.22 |
| Cyclosporiasis | | ** | ** | | ** | ** | 0.07 | 0.03 | 0.07 | 0.06 | 0.03 |
| Diphtheria | 0 | 0 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ehrlichiosis | ** | ** | | | | | | | | | |
| Human granulocytic | ** | ** | ** | ** | ** | 0.16 | 0.14 | 0.15 | 0.10 | 0.18 | 0.13 |
| Human monocytic | | | ** | | ** | 0.03 | 0.06 | 0.09 | 0.05 | 0.08 | 0.11 |
| Encephalitis, primary | 0.36 | 0.28 | § | § | § | § | § | § | § | § | ş |
| Postinfectious | 0.07 | 0.06 | § | § | § | § | § | § | § | § | § |
| Encephalitis/meningitis, arboviral | ** | ** | _ | | | | | | | | |
| California serogroup | ** | ** | 0 | 0.04 | 0.04 | 0.04 | 0.03 | 0.04 | 0.05 | 0.06 | 0.06 |
| Eastern equine | ** | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Powassan | ** | ** | ** | ** | ** | ** | ** | ** | ** | 0 | 0 |
| St. Louis | ** | ** | 0 ** | 0 | 0.01 ** | 0.01 | 0 | 0 | 0.03 | 0.01 | 0.01 |
| West Nile | ** | ** | | | | | | | | 1.01 | 1.00 |
| Western equine | | ** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Enterohemorrhagic Escherichia co | | | | | | | | | | | |
| (EHEC) | ** | | | | | | | | | | |
| EHEC O157:H7 | ** | 0.06 | 1.01 | 1.18 ** | 1.04 ** | 1.28 ** | 1.77 ** | 1.74 ** | 1.22 | 1.36 | 0.93 |
| EHEC non-O157 | ** | ** | ** | ** | ** | ** | ** | ** | 0.19 | 0.08 | 0.09 |
| EHEC not serogrouped | ** | ** | ** | ** | ** | ** | ** | ** | 0.06 ** | 0.02 | 0.05 |
| Giardiasis | | | | | | | | | | 8.06 | 6.84 |
| Gonorrhea | 172.40 | 168.40 | 149.50 | 122.80 § | 121.40 | 132.88 | 133.20 | 131.65 | 128.53 | 125.03 | 116.37 |
| Granuloma inguinale | 0 | 0 | § | 3 | § | § | § | § | § | § | ş |
| Haemophilus influenzae, | 0.55 | 0.45 | 0.45 | 0.45 | 0.44 | 0.44 | 0.48 | 0.51 | 0.57 | 0.62 | 0.70 |
| invasive, all ages/serotypes | 0.55 | 0.45 | 0.45 | 0.45 ** | 0.44 | 0.44 | 0.48 | 0.51 ** | 0.57 ** | 0.62 | 0.70 |
| Age <5 yrs, serotype b | ** | ** | ** | ** | ** | ** | ** | ** | ** | 0.18 | 0.16 |
| Age <5 yrs, nonserotype b | ** | ** | ** | ** | ** | ** | ** | ** | ** | 0.75 | 1.15 |
| Age <5 yrs, unknown serotype | 0.07 | 0.05 | 0.06 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.03 | 0.80 | 0.03 |
| Hansen disease (leprosy) | ** | 0.05 | NA ^{††} | 0.05 NA | 0.05 NA | 0.05 NA | 0.04 NA | 0.04 | 0.03 | 0.04 | 0.03 |
| Hantavirus pulmonary syndrome | | | NA'' | INA | NA | INA | NA | 0.02 | 0 | 0.01 | 0.01 |
| Hemolytic uremic syndrome postdiarrheal | ** | ** | NA | NA | NA | NA | NA | 0.10 | 0.08 | 0.08 | 0.06 |
| Hepatitis A, acute | 9.40 | 10.29 | 12.13 | 11.70 | 11.22 | 8.59 | 6.25 | 4.91 | 3.77 | 3.13 | 2.66 |
| Hepatitis B, acute | 5.18 | 4.81 | 4.19 | 4.01 | 3.90 | 3.80 | 2.82 | 2.95 | 2.79 | 2.84 | 2.60 |
| Hepatitis C, acute | 1.86 | 1.78 | 1.78 | 1.41 | 1.43 | 1.30 | 1.14 | 1.17 | 1.41 | 0.65 | 0.38 |
| Hepatitis, unspecified | 0.24 | 0.17 | 1.70 § | 1.41 § | 1.43 § | 1.30 § | 1.14 § | 1.17 § | 1.41 § | 0.65 § | 0.30 § |
| Legionellosis | 0.24 | 0.17 | 0.48 | 。 0.47 | 0.44 | 0.51 | 0.41 | 0.42 | 0.42 | 。 0.47 | 0.78 |
| Legionellosis | 0.50 | 0.05 | 0.40 | 0.47 | 0.44 | 0.51 | 0.41 | 0.42 | 0.42 | 0.47 | 0.70 |

| TABLE 7. (Continued |) Reported incidence | * of notifiable diseases — | - United States, 1993–2003 |
|---------------------|----------------------|----------------------------|----------------------------|
|---------------------|----------------------|----------------------------|----------------------------|

| Disease | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|---------------------------------|----------------|---------------|---------------|---------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Leptospirosis | 0.02 | 0.02 | § | § | § | § | § | § | § | § | § |
| Listeriosis | ** | ** | ** | ** | ** | ** | 0.31 | 0.29 | 0.22 | 0.24 | 0.24 |
| Lyme disease | 3.20 | 5.01 | 4.49 | 6.21 | 4.79 | 6.39 | 5.99 | 6.53 | 6.05 | 8.44 | 7.39 |
| Lymphogranuloma venereum | 0.10 | 0.10 | § | § | § | § | § | § | § | § | § |
| Malaria | 0.55 | 0.47 | 0.55 | 0.68 | 0.75 | 0.60 | 0.61 | 0.57 | 0.55 | 0.51 | 0.49 |
| Measles | 0.12 | 0.37 | 0.12 | 0.20 | 0.06 | 0.04 | 0.04 | 0.03 | 0.04 | 0.02 | 0.02 |
| Meningococcal disease | 1.02 | 1.11 | 1.25 | 1.30 | 1.24 | 1.01 | 0.92 | 0.83 | 0.83 | 0.64 | 0.61 |
| Mumps | 0.66 | 0.60 | 0.35 | 0.29 | 0.27 | 0.25 | 0.14 | 0.13 | 0.10 | 0.10 | 0.08 |
| Murine typhus fever | 0.01 | 0.01 | § | § | § | § | § | § | § | § | § |
| Pertussis | 2.55 | 1.77 | 1.97 | 2.94 | 2.46 | 2.74 | 2.67 | 2.88 | 2.69 | 3.47 | 4.04 |
| Plague | 0 | 0.01 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| Poliomyelitis, paralytic | 0 | 0 | 0 | 0.03 | 0.02 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| Psittacosis | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0 |
| Q Fever | ** | ** | ** | ** | ** | ** | 0 | 0.01 | 0.01 | 0.02 | 0.02 |
| Rabies, human | 0 | 0 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rheumatic fever, acute | 0.08 | 0.09 | § | § | § | § | § | § | § | § | § |
| Rocky Mountain spotted fever | 0.18 | 0.18 | 0.23 | 0.32 | 0.16 | 0.14 | 0.21 | 0.18 | 0.25 | 0.39 | 0.38 |
| Rubella | 0.07 | 0.09 | 0.05 | 0.10 | 0.07 | 0.13 | 0.21 | 0.06 | 0.01 | 0.01 | 0 |
| Rubella, congenital syndrome | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmonellosis | 16.15 | 16.64 | 17.66 | 17.15 | 15.66 | 16.17 | 14.89 | 14.51 | 14.39 | 15.73 | 15.16 |
| SARS-CoV ^{¶¶} | ** | ** | ** | ** | ** | ** | ** | ** | ** | ** | 0 |
| Shigellosis | 12.48 | 11.44 | 12.32 | 9.80 | 8.64 | 8.74 | 6.43 | 8.41 | 7.19 | 8.37 | 8.19 |
| Streptococcal disease, | | | | | | | | | | | |
| invasive, Group A | ** | ** | 0.23 | 0.55 | 0.75 | 0.83 | 0.87 | 1.45 | 1.60 | 1.69 | 2.04 |
| Streptococcal toxic-shock | | | | | | | | | | | |
| syndrome | ** | ** | 0 | 0 | 0.01 | 0.02 | 0.02 | 0.04 | 0.04 | 0.05 | 0.06 |
| Streptococcus pneumoniae, invas | sive | ** | 0.10 | 0.57 | 0.07 | 1.44 | 0.00 | 0.77 | 0.11 | | 0.00 |
| Drug-resistant | ** | ** | 0.12 ** | 0.57 ** | 0.67 ** | 1.44 | 2.39 | 2.77 ** | 2.11 1.03 | 1.14 3.62 | 0.99 |
| Age <5 yrs | | | | | | | | | | | 8.86 |
| Syphilis, total, all stages | 39.70 10.40 | 32.00 8.10 | 26.20 6.30 | 19.97 4.29 | 17.39 | 14.19 2.61 | 13.07 2.50 | 11.58 2.19 | 11.45 2.17 | 11.68 2.44 | 11.90 2.50 |
| Primary and secondary | 0.02 | | 6.30 0.02 | | 3.19 | 2.61 | 2.50 0.01 | | | 2.44 | 2.50 |
| Tetanus | | 0.02 0.10 | 0.02 | 0.02 0.06 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Toxic-shock syndrome | 80.0 | | | | 0.06 | 0.06 | | 0.06 | 0.05 | | |
| Trichinellosis | 0.01 | 0.01 | 0.01 8.70 | 0.01 | 0.01 | 0.01 6.79 | 0 6.43 | 0.01 | 0.01 | 0.01 | 0 |
| Tuberculosis | 9.82 | 9.36 | 8.70 § | 8.04 § | 7.42 § | 6.79 § | 6.43 § | 6.01 | 5.68 | 5.36 | 5.17 |
| Tularemia | 0.05 | 0.04 | | | ° | | | 0.06 | 0.05 | 0.03 | 0.04 |
| Typhoid fever | 0.17 | 0.17 | 0.14 | 0.15 | 0.14 | 0.14 | 0.13 | 0.14 | 0.13 | 0.11 | 0.12 |
| Varicella*** | 118.54 | 135.76 | 118.11 | 44.13 | 93.55 | 70.28 | 44.56 | 26.18 | 19.51 | 10.27 | 7.27 |
| Yellow fever | — | _ | _ | 0 | — | — | 0 | _ | — | 0 | 0 |

Note: Rates < 0.01 after rounding are listed as 0. Data in the MMWR Summary of Notifiable Diseases — United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and the use of different case definitions.

Per 100,000 population.

⁺ Acquired immunodeficiency syndrome (AIDS).

[§] No longer nationally notifiable.
 [¶] Chlamydia refers to genital infections caused by *Chlamydia trachomatis*.

** Not nationally notifiable.

^{††} Data not available.

88 Before 2003, hepatitis C, acute, was termed hepatitis C/non-A, non-B; anti-HCV antibody test became available May 1990.

Severe acute respiratory syndrome-associated coronavirus disease.
 *** Varicella was not a notifiable disease before 2003.

| TABLE 9 Departed second of motificable | discoso United States 1006 2002 |
|--|--------------------------------------|
| TABLE 8. Reported cases of notifiable | diseases — Officed States, 1990-2003 |

| Disease | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|--|---------|----------|---------|---------|----------|----------|----------|----------------------|
| AIDS* | 66,885 | 58,492 | 46,521 | 45,104 | 40,758 | 41,868 | 42,745 | 44,232† |
| Anthrax | _ | _ | _ | _ | 1 | 23 | 2 | _ |
| Botulism, total (includes wound | | | | | | | | |
| and unspecified) | 119 | 132 | 116 | 154 | 138 | 155 | 118 | 129 |
| Foodborne | 25 | 31 | 22 | 23 | 23 | 39 | 28 | 20 |
| Infant | 80 | 79 | 65 | 92 | 93 | 97 | 69 | 76 |
| Brucellosis | 112 | 98 | 79 | 82 | 87 | 136 | 125 | 104 |
| Chancroid | 386 | 243 | 189 | 143 | 78 | 38 | 67 | 54 [§] |
| Chlamydia [¶] | 498,884 | 526,671 | 604,420 | 656,721 | 702,093 | 783,242 | 834,555 | 877,478 [§] |
| Cholera | 4 | 6 | 17 | 6 | 5 | 3 | 2 | 2 |
| Coccidioidomycosis | 1,697 | 1,749 | 2,274 | 2,826 | 2,867 | 3,922 | 4,968 | 4,870 |
| Cryptosporidiosis | 2,827 | 2,566 | 3,793 | 2,361 | 3,128 | 3,785 | 3,016 | 3,506 |
| Cyclosporiasis | ** | ** | ** | 56 | 60 | 147 | 156 | 75 |
| Diphtheria | 2 | 4 | 1 | 1 | 1 | 2 | 1 | 1 |
| Ehrlichiosis | - | | · | · | | - | · | |
| Human granulocytic | ** | ** | ** | 203 | 351 | 261 | 511 | 362 |
| Human monocytic | ** | ** | ** | 99 | 200 | 142 | 216 | 321 |
| Encephalitis/meningitis, arboviral | | | | | 200 | | 2.0 | 02. |
| California serogroup | 123 | 129 | 97 | 70 | 114 | 128 | 164 | 108†† |
| Eastern equine | 5 | 14 | 4 | 5 | 3 | 0 | 10 | 14 ^{††} |
| Powassan | ** | ** | ** | ** | ** | ** | 1 | |
| St. Louis | 2 | 13 | 24 | 4 | 2 | 79 | 28 | 41†† |
| West Nile | ** | ** | ** | ** | ** | ** | 2,840 | 2,866†† |
| Western equine | _ | _ | _ | 1 | _ | _ | 2,040 | |
| Enterohemorrhagic Escherichia coli (EHEC | ~) | | | | | | | |
| EHEC 0157:H7 | 2,741 | 2,555 | 3,161 | 4,513 | 4,528 | 3,287 | 3,840 | 2,671 |
| EHEC non-O157 | ** | ** | ** | ** | ** | 171 | 194 | 252 |
| EHEC not serogrouped | ** | ** | ** | ** | ** | 20 | 60 | 156 |
| Giardiasis | ** | ** | ** | ** | ** | ** | 21,206 | 19,709 |
| Gonorrhea | 325,883 | 324,907 | 355,642 | 360,076 | 358,995 | 361,705 | 351,852 | 335,104 [§] |
| Haemophilus influenzae, invasive, all | 323,003 | 324,907 | 355,042 | 300,070 | 330,995 | 301,705 | 331,032 | 335,104* |
| | 1.170 | 1.162 | 1,194 | 1,309 | 1,398 | 1.597 | 1.743 | 2,013 |
| ages/serotpyes Age <5 yrs, serotype b | 1,170 | 1,102 | 1,194 | 1,309 | 1,390 | 1,597 | 34 | 2,013 |
| Age <5 yrs, nonserotype b | ** | ** | ** | ** | ** | ** | 144 | 117 |
| 0 1 | ** | ** | ** | ** | ** | ** | 153 | 227 |
| Age <5 yrs, unknown serotype | 112 | 122 | 108 | 108 | 91 | 79 | 96 | 95 |
| Hansen disease (leprosy) | NA | NA | NA | 33 | 91 41 | 79 8 | 90 19 | 95 26 |
| Hantavirus pulmonary syndrome | | NA 91 | | | | 8 202 | 216 | 20 178 |
| Hemolytic uremic syndrome, postdiarrheal | | | 119 | 181 | 249 | | | |
| Hepatitis A, acute | 31,032 | 30,021 | 23,229 | 17,047 | 13,397 | 10,609 | 8,795 | 7,653 |
| Hepatitis B, acute | 10,637 | 10,416 | 10,258 | 7,694 | 8,036 | 7,843 | 7,996 | 7,526 |
| Hepatitis C, acute ^{§§} | 3,716 | 3,816 | 3,518 | 3,111 | 3,197 | 3,976 | 1,835 | 1,102 |
| Legionellosis | 1,198 | 1,163 | 1,355 | 1,108 | 1,127 | 1,168 | 1,321 | 2,232 |
| Listeriosis | | | | 823 | 755 | 613 | 665 | 696 |
| Lyme disease | 16,455 | 12,801 | 16,801 | 16,273 | 17,730 | 17,029 | 23,763 | 21,273 |
| Malaria | 1,800 | 2,001 | 1,611 | 1,666 | 1,560 | 1,544 | 1,430 | 1,402 |
| Measles | 508 | 138 | 100 | 100 | 86 | 116 | 44 | 56 |
| Meningococcal disease | 3,437 | 3,308 | 2,725 | 2,501 | 2,256 | 2,333 | 1,814 | 1,756 |
| Mumps | 751 | 683 | 666 | 387 | 338 | 266 | 270 | 231 |
| Pertussis | 7,796 | 6,564 | 7,405 | 7,288 | 7,867 | 7,580 | 9,771 | 11,647 |

| TABLE 8. (Continue | d) Reported cases | s of notifiable diseases | — United States, 1996–2003 |
|--------------------|-------------------|--------------------------|----------------------------|
|--------------------|-------------------|--------------------------|----------------------------|

| Disease | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|--|--------|--------|--------|--------|--------|--------|--------|-----------------------|
| Plague | 5 | 4 | 9 | 9 | 6 | 2 | 2 | 1 |
| Poliomyelitis, paralytic ^{¶¶} | 7 | 6 | 3 | 2 | _ | _ | _ | _ |
| Psittacosis | 42 | 33 | 47 | 16 | 17 | 25 | 18 | 12 |
| Q Fever | ** | ** | ** | ** | 21 | 26 | 61 | 71 |
| Rabies | | | | | | | | |
| Animal | 6,982 | 8,105 | 7,259 | 6,730 | 6,934 | 7,150 | 7,609 | 6,846 |
| Human | 3 | 2 | 1 | _ | 4 | 1 | 3 | 2 |
| Rocky Mountain spotted fever | 831 | 409 | 365 | 579 | 495 | 695 | 1,104 | 1,091 |
| Rubella | 238 | 181 | 364 | 267 | 176 | 23 | 18 | 7 |
| Rubella, congenital syndrome | 4 | 5 | 7 | 9 | 9 | 3 | 1 | 1 |
| Salmonellosis | 45,471 | 41,901 | 43,694 | 40,596 | 39,574 | 40,495 | 44,264 | 43,657 |
| SARS-CoV*** | ** | ** | ** | ** | ** | ** | ** | 8††† |
| Shigellosis | 25,978 | 23,117 | 23,626 | 17,521 | 22,922 | 20,221 | 23,541 | 23,581 |
| Streptococcal disease, invasive, Group A | 1,445 | 1,973 | 2,260 | 2,667 | 3,144 | 3,750 | 4,720 | 5,872 |
| Streptococcal toxic-shock syndrome | 19 | 33 | 58 | 65 | 83 | 77 | 118 | 161 |
| Streptococcus pneumoniae, invasive | | | | | | | | |
| Drug-resistant | 1,514 | 1,799 | 2,823 | 4,625 | 4,533 | 2,896 | 2,546 | 2,356 |
| Age <5 yrs | ** | ** | ** | ** | ** | 498 | 513 | 845 |
| Syphilis, total, all stages | 52,976 | 46,540 | 37,977 | 35,628 | 31,575 | 32,221 | 32,871 | 34,270 [§] |
| Primary and secondary | 11,387 | 8,550 | 6,993 | 6,657 | 5,979 | 6,103 | 6,862 | 7,177 [§] |
| Tetanus | 36 | 50 | 41 | 40 | 35 | 37 | 25 | 20 |
| Toxic-shock syndrome | 145 | 157 | 138 | 113 | 135 | 127 | 109 | 133 |
| Trichinellosis | 11 | 13 | 19 | 12 | 16 | 22 | 14 | 6 |
| Tuberculosis | 21,337 | 19,851 | 18,361 | 17,531 | 16,377 | 15,989 | 15,075 | 14,874 ^{§§§} |
| Tularemia | 111 | 111 | 111 | 111 | 142 | 129 | 90 | 129 |
| Typhoid fever | 396 | 365 | 375 | 346 | 377 | 368 | 321 | 356 |
| Varicella**** | 83,511 | 98,727 | 82,455 | 46,016 | 27,382 | 22,536 | 22,841 | 20,948 |
| Varicella deaths | ** | ** | ** | ** | ** | ** | 9 | 2 |
| Yellow fever ^{††††} | 1 | — | — | 1 | — | — | 1 | — |

Note: Data in the *MMWR Summary of Notifiable Diseases* — United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and the use of different case definitions.

* Acquired immunodeficiency syndrome.

† The total number of acquired immunodeficiency syndrome (AIDS) cases includes all cases reported to the Division of HIV/AIDS Prevention–Surveillance, and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2003.

[§] Cases were updated through the Division of STD Prevention, NCHSTP, as of May 1, 2004.

[¶] Chlamydia refers to genital infections caused by *Chlamydia trachomatis*.

** Not previously nationally notifiable.

^{††} Data provided by the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (NCID) (ArboNET Surveillance).

^{§§} Before 2003, hepatitis C, acute, was termed hepatitis C/non-A, non-B; anti-HCV antibody test became available May 1990.

Numbers might not reflect changes based on retrospective case evaluations or late reports (see CDC. Current trends poliomyelitis—United States, 1975–1984. MMWR 1986;35:180–2).

*** Severe acute respiratory syndrome-associated coronavirus disease.

⁺⁺⁺ Includes all confirmed and probable cases (according to the revised 2003 SARS surveillance case definition) reported to the Division of Viral and Rickettsial Diseases, NCID. SARS-CoV became nationally notifiable as of July 2003.

SSS Cases were updated through the Division of TB Elimination, NCHSTP, as of April 1, 2004.

At that time not a nationally notifiable disease.

**** Varicella was taken off the nationally notifiable disease list in 1991. Varicella became nationally notifiable again in 2003.

⁺⁺⁺⁺ The last indigenous case of yellow fever was reported in 1911, and the last imported case was reported in 1999.

| IABLE 9. Reported cases of notifiab | le diseases* — United States, 1988–1995 |
|-------------------------------------|---|

| Disease | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|--|-----------|-----------|------------|-----------|----------|----------|----------|----------------------|
| AIDS [†] | 31,001 | 33,722 | 41,595 | 43,672 | 45,472 | 103,691 | 78,279 | 71,547 |
| Amebiasis | 2,860 | 3,217 | 3,328 | 2,989 | 2,942 | 2,970 | 2,983 | § |
| Anthrax | 2 | _ | _ | _ | 1 | _ | _ | _ |
| Aseptic meningitis | 7,234 | 10,274 | 11,852 | 14,526 | 12,223 | 12,848 | 8,932 | § |
| Botulism, total (includes wound | | | | | | | | |
| and unspecified) | 84 | 89 | 92 | 114 | 91 | 97 | 143 | 97 |
| Foodborne | 28 | 23 | 23 | 27 | 21 | 27 | 50 | 24 |
| Infant | 50 | 60 | 65 | 81 | 66 | 65 | 85 | 54 |
| Brucellosis | 96 | 95 | 82 | 104 | 105 | 120 | 119 | 98_ |
| Chancroid | 5,001 | 4,692 | 4,212 | 3,476 | 1,886 | 1,399 | 773 | 606¶ |
| Chlamydia** | †† | ++ | †† | ++ | ++ | ++ | †† | 477,638 [¶] |
| Cholera | 8 | | 6 | 26 | 103 | 18 | 39 | 23 |
| Coccidioidomycosis | tt | tt | †† | ++ | †† | †† | ++ | 1,212 |
| Cryptosporidiosis | †† | †† | ++ | ++ | †† | †† | ++ | 2,970 |
| Diphtheria | 2 | 3 | 4 | 5 | 4 | _ | 2 | _ |
| Encephalitis | | | | | | | | 6 |
| Primary ^{§§} | 882 | 981 | 1,341 | 1,021 | 774 | 919 | 717 | § |
| Postinfectious | 121 | 88 | 105 | 82 | 129 | 170 | 143 | § |
| Encephalitis/meningitis, arboviral | †† | †† | † † | ++ | ++ | ++ | t† | |
| California serogroup | 11 †† | 11 †† | 11 †† | 11 †† | 11 †† | 11 †† | 11 †† | 11 |
| Eastern equine | 11 †† | 11 †† | 11 †† | ++ | 11 †† | 11 †† | 11 †† | 1 †† |
| St. Louis | 11 †† | 11 †† | 11 †† | 11 †† | 11 †† | 11 †† | 11 †† | 11 |
| Western equine | 11 †† | 11 †† | 11 †† | 11 †† | 11 †† | 11 †† | | |
| Escherichia coli O157:H7 | | | | | | | 1,420 | 2,139 |
| Gonorrhea | 719,536 | 733,151 | 690,169 | 620,478 | 501,409 | 439,673 | 418,068 | 392,848 [¶] |
| Granuloma inguinale | 11 †† | 7 †† | 97 †† | 29 †† | 6 | 19 | 3 | ş |
| Haemophilus influenzae, invasive | | | | | 1,412 | 1,419 | 1,174 | 1,180 |
| Hansen disease (leprosy) | 184 | 163 †† | 198 | 154 †† | 172 | 187 | 136 | 144 |
| Hantavirus pulmonary syndrome | ++ ++ | 11 †† | †† †† | 11 †† | ++ ++ | †† †† | †† †† | |
| Hemolytic uremic syndrome, postdiarrheal | | | | | | | | 72 |
| Hepatitis A, acute | 28,507 | 35,821 | 31,441 | 24,378 | 23,112 | 24,238 | 26,796 | 31,582 |
| Hepatitis B, acute | 23,177 | 23,419 | 21,102 | 18,003 | 16,126 | 13,361 | 12,517 | 10,805 |
| Hepatitis C/nonA, non-B ¹¹ | 2,619 | 2,529 | 2,553 | 3,582 | 6,010 | 4,786 | 4,470 | 4,576 |
| Hepatitis, unspecified | 2,470 | 2,306 | 1,671 | 1,260 | 884 | 627 | 444 | ş |
| Legionellosis | 1,085 | 1,190 | 1,370 | 1,317 | 1,339 | 1,280 | 1,615 | 1,241 |
| Leptospirosis | 54 †† | 93 †† | 77 †† | 58 †† | 54 | 51 | 38 | § |
| Lyme disease | | | | | 9,895 | 8,257 | 13,043 | 11,700 |
| Lymphogranuloma venereum | 185 | 189 | 277 | 471 | 302 | 285 | 235 | § |
| Malaria | 1,099 | 1,277 | 1,292 | 1,278 | 1,087 | 1,411 | 1,229 | 1,419 |
| Measles | 3,396 | 18,193 | 27,786 | 9,643 | 2,237 | 312 | 963 | 309 |

| Disease | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|--|---------|---------|---------|---------|---------|---------|---------|---------------------|
| Meningococcal disease | 2,964 | 2,727 | 2,451 | 2,130 | 2,134 | 2,637 | 2,886 | 3,243 |
| Mumps | 4,866 | 5,712 | 5,292 | 4,264 | 2,572 | 1,692 | 1,537 | 906 |
| Murine typhus fever | 54 | 41 | 50 | 43 | 28 | 25 | § | § |
| Pertussis | 3,450 | 4,157 | 4,570 | 2,719 | 4,083 | 6,586 | 4,617 | 5,137 |
| Plague | 15 | 4 | 2 | 11 | 13 | 10 | 17 | 9 |
| Poliomyelitis, paralytic | 9 | 11 | 6 | 10 | 6 | 4 | 8 | 7 |
| Psittacosis | 114 | 116 | 113 | 94 | 92 | 60 | 38 | 64 |
| Rabies, | | | | | | | | |
| Animal | 4,651 | 4,724 | 4,826 | 6,910 | 8,589 | 9,377 | 8,147 | 7,811 |
| Human | _ | 1 | 1 | 3 | 1 | 3 | 6 | 5 |
| Rheumatic fever, acute | 158 | 144 | 108 | 127 | 75 | 112 | 112 | § |
| Rocky Mountain spotted fever | 609 | 623 | 651 | 628 | 502 | 456 | 465 | 590 |
| Rubella | 225 | 396 | 1,125 | 1,401 | 160 | 192 | 227 | 128 |
| Congenital syndrome | 6 | 3 | 11 | 47 | 11 | 5 | 7 | 6 |
| Salmonellosis, excluding typhoid fever | 48,948 | 47,812 | 48,603 | 48,154 | 40,912 | 41,641 | 43,323 | 45,970 |
| Shigellosis | 30,617 | 25,010 | 27,077 | 23,548 | 23,931 | 32,198 | 29,769 | 32,080 |
| Streptococcal disease, invasive, Group A | †† | †† | †† | †† | †† | †† | ++ | 613 |
| Streptococcus pneumoniae, invasive, | | | | | | | | |
| drug-resistant | †† | †† | †† | ++ | †† | †† | ++ | 309 |
| Streptococcal toxic-shock syndrome | †† | ++ | ++ | ++ | †† | †† | ++ | 10_ |
| Syphilis, total, all stages | 103,437 | 110,797 | 134,255 | 128,569 | 112,581 | 101,259 | 81,696 | 68,953 [¶] |
| Primary and secondary | 40,117 | 44,540 | 50,223 | 42,935 | 33,973 | 26,498 | 20,627 | 16,500 [¶] |
| Tetanus | 53 | 53 | 64 | 57 | 45 | 48 | 51 | 41 |
| Toxic-shock syndrome | 390 | 400 | 322 | 280 | 244 | 212 | 192 | 191 |
| Trichinellosis | 45 | 30 | 129 | 62 | 41 | 16 | 32 | 29 |
| Tuberculosis | 22,436 | 23,495 | 25,701 | 26,283 | 26,673 | 25,313 | 24,361 | 22,860*** |
| Tularemia | 201 | 152 | 152 | 193 | 159 | 132 | 96 | ş |
| Typhoid fever | 436 | 460 | 552 | 501 | 414 | 440 | 441 | 369 |
| Varicella ^{†††} | 192,857 | 185,441 | 173,099 | 147,076 | 158,364 | 134,722 | 151,219 | 120,624 |

Note: Data in the MMWR Summary of Notifiable Diseases — United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and the use of different case definitions.

* No cases of yellow fever were reported during 1988-1995.

[†] Acquired immunodeficiency syndrome (AIDS).

§ No longer nationally notifiable.

[¶] Cases were updated through the Division of STD Prevention, NCHSTP, as of March 1, 1996.

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

^{††} Not previously nationally notifiable.

§§ Beginning in 1984, data were recorded by date of record to state health departments. Before 1984, data were recorded by onset date.

Anti-HCV antibody test became available May 1990.

*** Cases were updated through the Division of TB Elimination, NCHSTP, as of May 29, 1996.

⁺⁺⁺ Varicella was taken off the nationally notifiable disease list in 1991. Many states continued to report these cases to CDC. Varicella became nationally notifiable again in 2003.

| Disease | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|--|-----------|---------|---------|---------|---------|---------|---------|---------|
| AIDS [†] | § | § | § | § | 4,445 | 8,249 | 12,932 | 21,070 |
| Amebiasis | 5,271 | 6,632 | 7,304 | 6,658 | 5,252 | 4,433 | 3,532 | 3,123 |
| Anthrax | 1 | · — | _ | · — | 1 | · — | · — | 1 |
| Aseptic meningitis | 8,028 | 9,547 | 9,680 | 12,696 | 8,326 | 10,619 | 11,374 | 11,487 |
| Botulism, total (includes wound | , | , | , | , | | , | , | 2 |
| and unspecified) | 89 | 103 | 97 | 133 | 123 | 122 | 109 | 82 |
| Foodborne | § | § | § | § | § | 49 | 23 | 17 |
| Infant | § | § | § | § | § | 70 | 79 | 59 |
| Brucellosis | 183 | 185 | 173 | 200 | 131 | 153 | 106 | 129 |
| Chancroid | 788 | 850 | 1,392 | 847 | 666 | 2,067 | 3,756 | 4,998 |
| Cholera | 9 | 19 | _ | 1 | 1 | 4 | 23 | 6 |
| Diphtheria [¶] | 3 | 5 | 2 | 5 | 1 | 3 | _ | 3 |
| Encephalitis | | | | | | | | |
| Primary | 1,362 | 1,492 | 1,464 | 1,761 | 1,257 | 1,376 | 1,302 | 1,418 |
| Postinfectious** | 40 | 43 | 36 | 34 | 108 | 161 | 124 | 121 |
| Gonorrhea | 1,004,029 | 990,864 | 960,633 | 900,435 | 878,556 | 911,419 | 900,868 | 780,905 |
| Granuloma inguinale | 51 | 66 | 17 | 24 | 30 | 44 | 61 | 22 |
| Hansen disease (leprosy) | 223 | 256 | 250 | 259 | 290 | 361 | 270 | 238 |
| Hepatitis A, acute | 29,087 | 25,802 | 23,403 | 21,532 | 22,040 | 23,210 | 23,430 | 25,280 |
| Hepatitis B, acute | 19,015 | 21,152 | 22,177 | 24,318 | 26,115 | 26,611 | 26,107 | 25,916 |
| Hepatitis C/non-A, non-B ^{††} | § | § | § | § | 3,871 | 4,184 | 3,634 | 2,999 |
| Hepatitis, unspecified | 11,894 | 10,975 | 8,564 | 7,149 | 5,531 | 5,517 | 3,940 | 3,102 |
| Legionellosis | 475 | 408 | 654 | 852 | 750 | 830 | 980 | 1,038 |
| Leptospirosis | 85 | 82 | 100 | 61 | 40 | 57 | 41 | 43 |
| Lymphogranuloma venereum | 199 | 263 | 235 | 335 | 170 | 226 | 396 | 303 |
| Malaria | 2,062 | 1,388 | 1,056 | 813 | 1,007 | 1,049 | 1,123 | 944 |
| Measles | 13,506 | 3,124 | 1,714 | 1,497 | 2,587 | 2,822 | 6,282 | 3,655 |
| Meningococcal disease | 2,840 | 3,525 | 3,056 | 2,736 | 2,746 | 2,479 | 2,594 | 2,930 |
| Mumps | 8,576 | 4,941 | 5,270 | 3,355 | 3,021 | 2,982 | 7,790 | 12,848 |
| Murine typhus fever | 81 | 61 | 58 | 62 | 53 | 37 | 67 | 49 |
| Pertussis | 1,730 | 1,248 | 1,895 | 2,463 | 2,276 | 3,589 | 4,195 | 2,823 |
| Plague | 18 | 13 | 19 | 40 | 31 | 17 | 10 | 12 |
| Poliomyelitis, total | 9 | 10 | 12 | 13 | 9 | 8 | 10 | \$§ |
| Paralytic ^{¶¶} | 9 | 10 | 12 | 13 | 9 | 8 | 10 | 9 |
| Psittacosis | 124 | 136 | 152 | 142 | 172 | 119 | 224 | 98 |
| Rabies | | | | | | | | |
| Animal | 6,421 | 7,118 | 6,212 | 5,878 | 5,567 | 5,565 | 5,504 | 4,658 |
| Human | _ | 2 | _ | 2 | 3 | 1 | _ | 1 |
| Rheumatic fever, acute | 432 | 264 | 137 | 88 | 117 | 90 | 147 | 141 |
| Rocky Mountain spotted fever | 1,163 | 1,192 | 976 | 1,126 | 838 | 714 | 760 | 604 |
| Rubella | 3,904 | 2,077 | 2,325 | 970 | 752 | 630 | 551 | 306 |
| Congenital syndrome | 50 | 19 | 7 | 22 | 5 | _ | 14 | 5 |
| Salmonellosis | 33,715 | 39,990 | 40,936 | 44,250 | 40,861 | 65,347 | 49,984 | 50,916 |
| Shigellosis | 19,041 | 19,859 | 18,129 | 19,719 | 17,371 | 17,057 | 17,138 | 23,860 |
| Syphilis, total, all stages | 68,832 | 72,799 | 75,579 | 74,637 | 69,888 | 67,563 | 68,215 | 86,545 |
| Primary and secondary | 27,204 | 31,266 | 33,613 | 32,698 | 28,607 | 27,131 | 27,883 | 35,147 |
| Tetanus | 95 | 72 | 88 | 91 | 74 | 83 | 64 | 48 |
| Toxic-shock syndrome | § | § | § | § | 482 | 384 | 412 | 372 |
| Trichinellosis | 131 | 206 | 115 | 45 | 68 | 61 | 39 | 40 |
| Tuberculosis | 27,749 | 27,373 | 25,520 | 23,846 | 22,255 | 22,201 | 22,768 | 22,517 |
| Tularemia | 234 | 288 | 275 | 310 | 291 | 177 | 170 | 214 |
| Typhoid fever | 510 | 584 | 425 | 507 | 390 | 402 | 362 | 400 |
| | | | | | | | | |

Note: Data in the *MMWR Summary of Notifiable Diseases* — *United States* might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and the use of different case definitions.

* No cases of yellow fever were reported during 1980-1987.

[†] Acquired immunodeficiency syndrome (AIDS).

§ Not previously nationally notifiable.

[¶] Cutaneous diphtheria ceased being notifiable nationally after 1979.

** Beginning in 1984, data were recorded by date of record to state health departments. Before 1984, data were recorded by onset date.

⁺⁺ Anti-HCV antibody test became available May 1990.

^{§§}No longer nationally notifiable.

M No cases of paralytic poliomyelitis caused by wild virus have been reported in the United States since 1979.

TABLE 11. Reported cases of notifiable diseases* — United States, 1972–1979

| Disease | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 |
|---------------------------------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| Amebiasis | 2,199 | 2,235 | 2,743 | 2,775 | 2,906 | 3,044 | 3,937 | 4,107 |
| Anthrax | 2 | 2 | 2 | 2 | 2 | _ | 6 | _ |
| Aseptic meningitis | 4,634 | 4,846 | 3,197 | 4,475 | 3,510 | 4,789 | 6,573 | 8,754 |
| Botulism, total (includes wound | | | | | | | | |
| and unspecified) | 22 | 34 | 28 | 20 | 55 | 129 | 105 | 45 |
| Brucellosis | 196 | 202 | 240 | 310 | 296 | 232 | 179 | 215 |
| Chancroid | 1,414 | 1,165 | 945 | 700 | 628 | 455 | 521 | 840 |
| Cholera | — | 1 | — | — | | 3 | 12 | 1 |
| Diphtheria | 152 | 228 | 272 | 307 | 128 | 84 | 76 | 59 |
| Encephalitis | | | | | | | | |
| Primary | 1,059 | 1,613 | 1,164 | 4,064 | 1,651 | 1,414 | 1,351 | 1,504 |
| Postinfectious | 243 | 354 | 218 | 237 | 175 | 119 | 78 | 84 |
| Gonorrhea | 767,215 | 842,621 | 906,121 | 999,937 | 1,001,994 | 1,002,219 | 1,013,436 | 1,004,058 |
| Granuloma inguinale | 81 | 62 | 47 | 60 | 71 | 75 | 72 | 76 |
| Hansen disease (leprosy) | 130 | 146 | 118 | 162 | 145 | 151 | 168 | 185 |
| Hepatitis A, acute | 54,074 | 50,749 | 40,358 | 35,855 | 33,288 | 31,153 | 29,500 | 30,407 |
| Hepatitis B, acute | 9,402 | 8,451 | 10,631 | 13,121 | 14,973 | 16,831 | 15,016 | 15,452 |
| Hepatitis, unspecified | † | † | † | † | 7,488 | 8,639 | 8,776 | 10,534 |
| Legionellosis | † | † | † | † | 235 | 359 | 761 | 593 |
| Leptospirosis | 41 | 57 | 8,351 | 93 | 73 | 71 | 110 | 94 |
| Lymphogranuloma venereum | 756 | 408 | 394 | 353 | 365 | 348 | 284 | 250 |
| Malaria | 742 | 237 | 293 | 373 | 471 | 547 | 731 | 894 |
| Measles | 32,275 | 26,690 | 22,094 | 24,374 | 41,126 | 57,345 | 26,871 | 13,597 |
| Meningococcal disease | 1,323 | 1,378 | 1,346 | 1,478 | 1,605 | 1,828 | 2,505 | 2,724 |
| Mumps | 74,215 | 69,612 | 59,128 | 59,647 | 38,492 | 21,436 | 16,817 | 14,225 |
| Murine typhus fever | 18 | 32 | 26 | 41 | 69 | 75 | 46 | 69 |
| Pertussis | 3,287 | 1,759 | 2,402 | 1,738 | 1,010 | 2,177 | 2,063 | 1,623 |
| Plague | 1 | 2 | 8 | 20 | 16 | 18 | 12 | 13 |
| Poliomyelitis, total | 31 | 8 | 7 | 13 | 10 | 19 | 8 | 22 |
| Paralytic | 29 | 7 | 7 | 13 | 10 | 19 | 8 | 22 |
| Psittacosis | 52 | 33 | 164 | 49 | 78 | 94 | 140 | 137 |
| Rabies | | | | | | | | |
| Animal | 4,369 | 3,640 | 3,151 | 2,627 | 3,073 | 3,130 | 3,254 | 5,119 |
| Human | 2 | 1 | _ | 2 | 2 | 1 | 4 | 4 |
| Rheumatic fever, acute | 2,614 | 2,560 | 2,431 | 2,854 | 1,865 | 1,738 | 851 | 629 |
| Rocky Mountain spotted fever | 523 | 668 | 754 | 844 | 937 | 1,153 | 1,063 | 1,070 |
| Rubella | 25,507 | 27,804 | 11,917 | 16,652 | 12,491 | 20,395 | 18,269 | 11,795 |
| Congenital syndrome | 42 | 35 | 45 | 30 | 30 | 23 | 30 | 62 |
| Salmonellosis | 22,151 | 23,818 | 21,980 | 22,612 | 22,937 | 27,850 | 29,410 | 33,138 |
| Shigellosis | 20,207 | 22,642 | 22,600 | 16,584 | 13,140 | 16,052 | 19,511 | 20,135 |
| Syphilis, total, all stages | 91,149 | 87,469 | 83,771 | 80,356 | 71,761 | 64,621 | 64,875 | 67,049 |
| Primary and secondary | 24,429 | 24,825 | 25,385 | 25,561 | 23,731 | 20,399 | 21,656 | 24,874 |
| Tetanus | 128 | 101 | 101 | 102 | 75 | 87 | 86 | 81 |
| Trichinellosis | 89 | 102 | 120 | 252 | 115 | 143 | 67 | 157 |
| Tuberculosis§ | 32,882 | 30,998 | 30,122 | 33,989 | 32,105 | 30,145 | 28,521 | 27,669 |
| Tularemia | 152 | 171 | 144 | 129 | 157 | 165 | 141 | 196 |
| Typhoid fever | 398 | 680 | 437 | 375 | 419 | 398 | 505 | 528 |
| Varicella | 164,114 | 182,927 | 141,495 | 154,248 | 183,990 | 188,396 | 154,089 | 199,081 |

Note: Data in the *MMWR Summary of Notifiable Diseases* — United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and the use of different case definitions.

* No cases of yellow fever were reported during 1972–1979.

[†]Not previously nationally notifiable.

[§]Case data after 1974 are not comparable with earlier years because of changes in reporting criteria that became effective in 1975.

| 78 | MMWR | April 22, 2005 |
|----|------|----------------|
| | | |

TABLE 12. Deaths from selected notifiable diseases — United States, 1996–2001

| Cause of death | | Cause-of- death codes | | 1996 No. of deaths according to | | 1997 No. of deaths according to | | 1998 No. of deaths according to | | 1999 No. of deaths | 2000 No. of deaths | 2001 No. of deaths |
|------------------------------|--------------|--------------------------|-------------------------------------|---------------------------------------|----------|---------------------------------------|----------|---------------------------------------|---------|--------------------------|--------------------------|--------------------------|
| | ICD-10* | | comparability ratio [§] | ICD-10 [¶] | ICD-9** | ICD-10 | ICD-9 | ICD-10 | ICD-9 | ICD-10 | ICD-10 | ICD-10 |
| AIDS ^{††} | B20–B24 | 042-044 | 1.0824 | 33,695 | 31,130 | 17,877 | 16,516 | 14,532 | 13,426 | 14,802 | 14,478 | 14,175 |
| Anthrax | A22 | 022 | §§ | · — | · — | · — | | ´ — | · — | · — | · — | <i></i> |
| Botulism, foodborne | A05.1 | 005.1 | §§ | _ | 1 | _ | 2 | _ | _ | 4 | 4 | 3 |
| Brucellosis | A23 | 023 | §§ | _ | _ | _ | 1 | _ | 1 | _ | 1 | — |
| Chancroid | A57 | 099.0 | §§ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Chlamydia ^{¶¶} | A56 | 099.5 | \$§ | — | — | _ | _ | _ | — | — | _ | _ |
| Cholera | A00 | 001 | §§ | — | 2 | _ | _ | _ | 1 | 1 | 1 | _ |
| Coccidioidomycosis | B38 | 114 | §§ | — | 102 | _ | 87 | | 81 | 82 | 67 | 58 |
| Cryptosporidiosis | A07.2 | 136.8 | \$§ | — | 7 | — | 4 | | 5 | — | 1 | — |
| Cyclosporiasis | A07.8 | 136.8 | §§ | *** | *** | *** | *** | *** | *** | — | _ | — |
| Diphtheria | A36 | 032 | §§ | — | _ | _ | | _ | 1 | 1 | _ | — |
| Ehrlichiosis (human granulo | | | | | | | | | | | | |
| and human monocytic) | A79.8 | 083.8 | §§ | *** | *** | *** | *** | *** | *** | 1 | _ | 2 |
| Encephalitis/meningitis, arb | | | | | | | | | | | | |
| California serogroup | A83.5 | 062.5 | §§ | _ | 1 | _ | 1 | _ | — | 1 | — | _ |
| Eastern equine | A83.2 | 062.2 | \$§ | _ | 1 | _ | 2 | _ | 1 | _ | _ | 1 |
| St. Louis | A83.3 | 062.3 | <u>§§</u> | — | _ | _ | 1 | _ | — | 2 | 1 | 2 |
| Western equine | A83.1 | 062.1 | §§ | _ | — | — | — | | 1 | — | 1 | — |
| Enterohemorrhagic | | | | | | | | | | | | |
| Escherichia coli | | | | | | | | | | | | |
| | A04.0–A04.4 | 005.8 | §§ | _ | 1 | _ | 1 | _ | 1 | 7 | 5 | 6 |
| Gonococcal infections | A54 | 098 | \$§ | _ | 4 | — | 3 | | 4 | 9 | 12 | 7 |
| Haemophilus influenzae | A49.2 | 041.5 | §§ | _ | 7 | — | 7 | | 11 | 6 | 6 | 11 |
| Hansen disease (leprosy) | A30 | 030 | §§ | _ | _ | _ | 2 | _ | — | 2 | 2 | _ |
| Hantavirus pulmonary synd | rome J12.8 | 79.89 | §§ | *** | *** | *** | *** | *** | *** | 2 | 4 | — |
| Hemolytic uremic syndrome | | | | | | | | | | | | |
| postdiarrheal | D59.3 | | | | | | | | | 35 | 35 | 35 |
| Hepatitis A, acute | B15 | 070.0-070.1 | 0.9328 | 113 | 121 | 118 | 127 | 106 | 114 | 134 | 106 | 83 |
| | B18.0, B18.1 | 070.2–070.3 | 0.6879 | 744 | 1,082 | 709 | 1,030 | 724 | 1,052 | 832 | 886 | 769 |
| Hepatitis C/non-A, non-B | , | 070.4-070.5 | 0.7114 | 1,692 | 2,378 | 1,940 | 2,727 | 2,457 | 3,454 | 3,763 | 4,225 | 4,609 |
| Legionellosis | A48.1 | 482.82 | \$\$ \$\$ | *** | *** | *** | *** | *** | *** | 78 | 84 | 70 |
| Listeriosis | A32 | 027.0 | \$§ | *** | *** | *** | *** | *** | *** | 42 | 45 | 33 |
| Lyme disease | A69.2,L90.4 | 088.81 | \$§ | _ | | — | _ | — | | 7 | 5 | 2 |
| Malaria | B50-B54 | 084 | \$\$ \$\$ | — | 4 | _ | 7 | _ | 6 | 7 | 3 | 9 |
| Measles | B05 | 055 | §§ | _ | 1 | | 2 | _ | _ | 2 | 1 | 1 |
| Meningococcal disease | A39 | 036 | 0.9861 | 286 | 290 | 305 | 309 | 231 | 234 | 227 | 211 | 199 |
| Mumps | B26 | 072 | \$\$ \$\$ | _ | 1 | — | | — | 1 | 1 | 2 | |
| Pertussis | A37 | 033 | \$§ | _ | 4 | — | 6 | — | 5 | 7 | 12 | 17 |
| Plague | A20 | 020 | \$\$ \$\$ | _ | 2 | — | — | — | — | 1 | — | _ |
| Poliomyelitis | A80 | 045 | §§ §§ | _ | | _ | — | — | — | _ | _ | _ |
| Psittacosis | A70 | 073 | | _ | 1 | — | _ | | _ | | _ | _ |
| Q fever | A78 | 083.0 | §§ §§ | _ | 1 | _ | _ | | _ | | _ | _ |
| Rabies, human | A82 | 071 | 55 §§ | _ | 3 | — | 4 | | 1 | | 3 | _ |
| Rocky Mountain spotted fev | | 082.0 | 99 §§ | _ | 6 | — | 12 | | 3 | 5 | 4 | 6 |
| Rubella | B06 | 056 | 55 §§ | _ | _ | _ | _ | | | _ | _ | 2 |
| Congenital syndrome | P35.0 | 771.0 | | _ | 4 | | 4 | _ | 4 | 8 | 4 | 4 |
| Salmonellosis | A02 | 003 | 0.8929 §§ | 52 | 58 | 46 | 51 | 33 | 37 | 38 | 28 | 40 |
| Shigellosis | . A03 | 004 | 22 | _ | 5 | _ | 5 | _ | 5 | 6 | 9 | 2 |
| Streptococcal disease, inva | | 041.0 | §§ | | 67 | | 07 | | 07 | 115 | 100 | 01 |
| 0 1 | A49.1, B95.0 | 041.0 | | | 67 72 | 40 | 87 62 | | 87 | 145 | 132 | 91 |
| Syphilis, total, all stages | A50–A53 | 090-097 | 0.7887 §§ | 58 | 73 | 49 | 62 | 35 | 45 | 33 | 41 | 36 |
| Tetanus | A35 | 037 | 55 §§ | _ | 1 | _ | 4 | _ | 7 | 7 | 5 | 5 |
| Toxic-shock syndrome | A48.3 | 041.1 | 55 §§ | _ | 207 | _ | 216 | _ | 235 | 55 | 74 | 75 |
| Trichinellosis | B75 | 124 | | 1 000 | 1 000 | 1.000 | 1 100 | | 1 1 1 0 | | | 704 |
| Tuberculosis | A16–A19 | 010-018 | 0.8821 §§ | 1,060 | 1,202 | 1,029 | 1,166 | 981 | 1,112 | 930 | 776 | 764 |
| Tularemia | A21 | 021 | 55 §§ | _ | | _ | 1 | _ | 1 | 1 | 3 | |
| Typhoid fever | A01.0 | 002.0 | | | 1 | | | | | 40 | | 1 |
| Varicella ^{†††} | B01 | 052 | 0.7848 §§ | 64 | 81 | 78 | 99 | 64 | 81 | 48 | 44 | 26 |
| Yellow fever | A95 | 060 | 22 | _ | 1 | | _ | _ | _ | 1 | _ | |

Source: CDC. CDC WONDER Compressed Mortality files (http://wonder.cdc.gov/mortSQL.html) provided by the National Center for Health Statistics. National Vital Statistics System, 1996–2000. Deaths are classified according to the *ICD-9* (1996–1998) and *ICD-10* (1999–2001). Data for 2002 and 2003 currently are not available. Data are limited by the accuracy of information regarding the underlying cause of death indicated on death certificates and reported to the National Vital Statistics System.

World Health Organization. International Statistical Classification of Disease and Related Health Problems, Tenth Revision, 1992.

World Health Organization. International Classification of Diseases, Ninth Revision, 1975. Unpublished estimates; see also Anderson RN, Minino AM, Hoyert DL, et al. Comparability of cause of death between ICD-9 and ICD-10: preliminary estimates. US Department of Health and Human Services, CDC, National Center for Health Statistics. 2001; DHHS publication no. (PHS) 2001-1120. (Natl Vital Stat Rep;49,2). § ¶

Number of deaths modified with the comparability ratio for ICD-10 code.

Number of deaths based on ICD-9 code; unmodified with the comparability ratio for ICD-10 code. **

†† Acquired immunodeficiency syndrome. In 1987, the National Center for Health Statistics introduced ICD-9 categories 042–044 for classifying and coding human immunodeficiency virus (HIV) infection.

88 Comparability ratio not calculated because it does not meet standards of reliability or precision.

Chlamydia refers to genital infections caused by *Chlamydia trachomatis*. Not previously nationally notifiable. 11 ***

111 Varicella was removed from the nationally notifiable disease list in 1991. Many states continue to report these cases to CDC.

Selected Reading

General

- Bayer R, Fairchild AL. Public health: surveillance and privacy. Science 2000;290:1898–9.
- CDC. Case definitions for infectious conditions under public health surveillance. MMWR 1997;46(No. RR-10). Additional information available at http://www.cdc.gov/epo/ dphsi/casedef/index.htm.
- CDC. Demographic differences in notifiable infectious disease morbidity—United States, 1992–1994. MMWR 1997;46:637–41.
- CDC. Framework for evaluating public health surveillance systems for early detection of outbreaks; recommendations from the CDC working group. MMWR 2004;53(No.. RR-5):1–13.
- CDC. Framework for program evaluation in public health. MMWR 1999;48(No. RR-11).
- CDC. Historical perspectives: notifiable disease surveillance and notifiable disease statistics—United States, June 1946 and June 1996. MMWR 1996;45:530–6.
- CDC. Manual of procedures for the reporting of nationally notifiable diseases to CDC. Atlanta, GA: US Department of Health and Human Services, Public Health Service, CDC; 1995.
- CDC. Manual for the surveillance of vaccine-preventable diseases. Atlanta, GA: US Department of Health and Human Services, Public Health Service, CDC; 1999. Available at http://www.cdc.gov/nip/publications/surv-manual/begin.pdf.
- CDC. National Electronic Disease Surveillance System (NEDSS): a standards-based approach to connect public health and clinical medicine. Journal of Public Health Management and Practice 2001;7:43–50.
- CDC. Reporting race and ethnicity data—National Electronic Telecommunications System for Surveillance, 1994–1997. MMWR 1999;48:305–12.
- CDC. Sexually transmitted disease surveillance 1998. Atlanta: US Department of Health and Human Services, Public Health Service, CDC; 1999.
- CDC. Ten leading nationally notifiable infectious diseases— United States, 1995. MMWR 1996;45:883–4.
- CDC. Updated guidelines for evaluating public health surveillance systems: recommendations from the guidelines working group. MMWR 2001;50(No. RR-13):1–36.
- CDC. Use of race and ethnicity in public health surveillance: summary of the CDC/ATSDR workshop. MMWR 1993;42(No. RR-10).
- Chang M-H, Glynn MK, Groseclose SL. Endemic, notifiable bioterrorism-related diseases, United States, 1992–1999. Emerg Infect Dis 2003;9:556–64.

- Chin JE, ed. Control of communicable diseases manual. 17th ed. Washington, DC: American Public Health Association; 2000.
- Doyle TJ, Glynn MK, Groseclose SL. Completeness of notifiable infectious disease reporting in the United States: an analytical literature review. Am J Epidemiol 2002;155:866–74.
- Effler P, Ching-Lee M, Bogard A, Ieong M-C, Nekomoto T, Jernigan D. Statewide system of electronic notifiable disease reporting from clinical laboratories: comparing automated reporting with conventional methods. JAMA 1999;282;1845–50.
- Freimuth V, Linnan HW, Potter P. Communicating the threat of emerging infections to the public. Emerg Infect Dis 2000;6:337–47.
- Government Accountability Office. Emerging infectious diseases: review of state and federal surveillance efforts. Washington, DC: Government Accountability Office. GAO-04-877; 2004. Available at http://www.gao.gov/ new.items/d04877.pdf.
- Jajosky RA, Groseclose SL. Evaluation of reporting timeliness of public health surveillance systems for infectious diseases. BMC Public Health 2004;4:29.
- Koo D, Caldwell B. The role of providers and health plans in infectious disease surveillance. Eff Clin Pract 1999;2:247–52. Available at http://www.acponline.org/journals/ecp/ sepoct99/koo.htm.
- Koo D, Wetterhall S. History and current status of the National Notifiable Diseases Surveillance System. Journal of Public Health Management and Practice 1996;2:4–10.
- Lin SS, Kelsey JL. Use of race and ethnicity in epidemiologic research: concepts, methodological issues, and suggestions for research. Epidemiol Rev 2000;22:187–202.
- Martin SM, Bean NH. Data management issues for emerging diseases and new tools for managing surveillance and laboratory data. Emerg Infect Dis 1995;1:124–8. Available at http://www.cdc.gov/ncidod/eid/vol1no4/ martin2.htm#top.
- Niskar AS, Koo D. Differences in notifiable infectious disease morbidity among adult women—United States, 1992– 1994. J Womens Health 1998;7:451–8.
- Panackal AA, M'ikanatha NM, Tsui FC, et al. Automatic electronic laboratory-based reporting of notifiable infectious diseases at a large health system. Emerg Infect Dis 2002;8:685–91.
- Pinner RW, Koo D, Berkelman RL. Surveillance of infectious diseases. In: Lederberg J, Alexander M, Bloom RB, eds. Encyclopedia of microbiology. 2nd ed. San Diego, CA: Academic Press; 2000;4:506–25.

- Pinner RW, Jernigan DB, Sutliff SM. Electronic laboratorybased reporting for public health. Military Medicine 2000;165(suppl 2):20–4.
- Roush S, Birkhead G, Koo D, Cobb A, Fleming D. Mandatory reporting of diseases and conditions by health care professionals and laboratories. JAMA 1999;282:164–70. Available at http://jama.ama-assn.org/issues/v282n2/abs/ joc90413.html.
- Teutsch SM, Churchill RE, eds. Principles and practice of public health surveillance. 2nd ed. New York, NY: Oxford University Press; 2000.
- Thacker SB, Choi K, Brachman PS. The surveillance of infectious diseases. JAMA 1983;249:1181–5.

AIDS

- CDC. Cases of HIV infection and AIDS in the United States, 2002 HIV/AIDS surveillance report, Vol.14. Atlanta, GA: US Department of Health and Human Services, CDC; 2004. Available at: http://www.cdc.gov/hiv/stats/hasr1402.htm.
- CDC. Guidelines for national human immunodeficiency virus case surveillance, including monitoring for human immunodeficiency virus infection and acquired immunodeficiency syndrome. MMWR 1999;48(No. RR-13):1–31.
- Nakashima AK, Fleming PL. HIV/AIDS surveillance in the United States, 1981–2001. J Acquir Immune Defic Syndr 2003;32:68–85.

Botulism

- Sobel J, Tucker N, MacLaughlin J, Maslanka S. Foodborne botulism in the United States, 1999-2000. Emerg Infect Dis 2004;10:1606–12. Available at http://www.cdc.gov/ncidod/ EID/vol10no9/03-0745.htm.
- CDC. Botulism in the United States, 1899–1996: handbook for epidemiologists, clinicians and laboratory workers. Atlanta, GA: US Department of Health and Services, CDC; 1998.
- Shapiro R, Hatheway C, Swerdlow DL. Botulism in the United States: a clinical and epidemiologic review. Ann Intern Med 1998;129:221–8.

Brucellosis

- CDC. Brucellosis: (*Brucella melitensis, abortus, suis*, and *canis*). Atlanta, GA: US Department of Health and Human Services, CDC. Available at http://www.cdc.gov/ncidod/dbmd/ diseaseinfo/brucellosis_g.htm.
- CDC. Brucellosis case definition. Atlanta, GA: US Department of Health and Human Services, CDC; 2001. Available at http://www.bt.cdc.gov/Agent/Brucellosis/ CaseDef.asp.
- CDC. Human exposure to *Brucella abortus* strain RB51— Kansas, 1997. MMWR 1998;47:172–5.

- Stevens, MG, Olsen SC, Palmer MV, Cheville NF. US Department of Agriculture, Agricultural Research Service National Animal Disease Center, Iowa State University. *Brucella abortus* strain RB51: a new brucellosis vaccine for cattle. Compendium 1997;19:766–74.
- Robichaud S, Libman M, Behr M, Rubin E. Prevention of laboratory-acquired brucellosis. Clin Infect Dis 2004;38:e119-22.
- Chomel BB, DeBess EE, Mangiamele DM, et al. Changing trends in the epidemiology of human brucellosis in California from 1973 to 1992: a shift toward foodborne transmission. J Infect Dis 1994;170:1216–23.

Chancroid

- DiCarlo RP, Armentor BS, Martin DH. Chancroid epidemiology in New Orleans men. J Infect Dis 1995;172:446–52.
- Mertz, KJ, Weiss JB, Webb RM, et al. An investigation of genital ulcers in Jackson, Mississippi, with use of a multiplex polymerase chain reaction assay: high prevalence of chancroid and human immunodeficiency virus infection. J Infect Dis 1998;178:1060–6.
- Mertz KJ, Trees D, Levine WC, et al. Etiology of genital ulcers and prevalence of human immunodeficiency virus coinfection in 10 US cities. The Genital Ulcer Disease Surveillance Group. J Infect Dis 1998;178:1795–8.

Chlamydia trachomatis, Genital Infection

- CDC. Sexually transmitted disease surveillance 2002 supplement: Chlamydia Prevalence Monitoring Project, annual report 2002. Atlanta, GA: US Department of Health and Human Services, CDC; 2003. Available at http:// www.cdc.gov/std/chlamydia2002.
- Gaydos CA, Howell MR, Pare B, et al. *Chlamydia trachomatis* infections in female military recruits. N Engl J Med 1998;339:739–44.
- Mertz KJ, McQuillian GM, Levine WC, et al. A pilot study of chlamydial infection in a national household survey. Sex Transm Dis 1998;25:225–8.
- Miller WC, Ford CA, Handcock MS, et al. Prevalance of chlamydial and gonococcal infections among young adults in the United States. JAMA 2004;291:2229–36.

Cholera

- Steinberg EB, Greene KD, Bopp CA, Cameron DN, Wells JG, Mintz ED. Cholera in the United States, 1995–2000: Trends at the end of the millennium. J Infect Dis 2001;184,799–802.
- World Health Organization. Cholera, 2003. Wkly Epidemiol Rec 2004;31:281–8.

- Mintz ED, Tauxe RV, Levine MM. The global resurgence of cholera. In: Noah ND, O'Mahony M, eds. Communicable disease epidemiology and control. Chichester, England: John Wiley & Sons; 1998:63–104.
- Mahon BE, Mintz ED, Greene KD, Wells JG, Tauxe RV. Reported cholera in the United Sates, 1992–1994: a reflection of global change in cholera epidemiology. JAMA 1996;276:307–12.

Cryptosporidiosis

- Roy SL, DeLong SM, Stenzel SA, et al. Risk factors for sporadic cryptosporidiosis among immunocompetent persons in the United States from 1999 to 2001. J Clin Microbiol 2004;42:2944–51.
- CDC. Diagnostic procedures for stool specimens: detection of parasite antigens. Atlanta, GA: US Department of Health and Human Services, CDC. Available at http:// www.dpd.cdc.gov/DPDx/HTML/DiagnosticProcedures.htm.
- Yoder JS, Blackburn BG, Craun GF, et al. Surveillance for waterborne-disease outbreaks associated with recreational water—United States, 2001–2002. In: Surveillance Summaries, October 22, 2004. MMWR 2002:53(No. SS-8): 1–21.
- Rose JB, Huffman DE, Gennaccaro A. Risk and control of waterborne cryptosporidiosis. FEMS Microbiol Rev 2002;26:113–23.

Cyclosporiasis

- Lopez AS, Bendik JM, Alliance JY, et al. Epidemiology of *Cyclospora cayetanensis* and other intestinal parasites in a community in Haiti. J Clin Microbiol 2003;41:2047–54.
- Ho AY, Lopez AS, Eberhard MG, et al. Outbreak of cyclosporiasis associated with imported raspberries, Philadelphia, Pennsylvania, 2000. Emerg Infect Dis 2002;8:783–8.
- Herwaldt BL. *Cyclospora cayetanensis*: a review, focusing on the outbreaks of cyclosporiasis in the 1990s. Clin Infect Dis 2000;31:1040–57.

Ehrlichiosis (Human Granulocytic and Human Monocytic)

- *Ehrlichia chafeensis*: a prototypical emerging pathogen [Review]. Paddock CD, Childs JE. J Clin Microbiol 2003;16:37–64.
- IJdo JW, Meek JI, Cartter ML, et al. The emergence of another tickborne infection in the 12-town area around Lyme, Connecticut: human granulocytic ehrlichiosis. J Infect Dis 2000;181:1388–93.
- McQuiston JH, Paddock CD, Holman RC, Childs JE. The human ehrlichioses in the United States [Review]. Emerg Infect Dis 1999;5:635–42. Available at http://www.cdc.gov/ ncidod/eid/vol5no5/mcquiston.htm.

Childs JE, Sumner JW, Nicholson WL, Massung RF, Standaert SM, Paddock CD. Outcome of diagnostic tests using samples from patients with culture-proven human monocytic ehrlichiosis: implications for surveillance. J Clin Microbiol 1999;37:2997–3000.

Giardiasis

- Stuart JM, Orr HJ, Warburton FG, et al. Risk factors for sporadic giardiasis: a case-control study in Southwestern England. Emerg Infect Dis 2003;9:229–33.
- CDC. Diagnostic procedures for stool specimens: detection of parasite antigens. Atlanta, GA: US Department of Health and Human Services, CDC; 2004. Available at http:// www.dpd.cdc.gov/DPDx/HTML/DiagnosticProcedures.htm.
- Blackburn BG, Craun GF, Yoder JS, et al. Surveillance for waterborne-disease outbreaks associated with drinking water—United States, 2001–2002. In: Surveillance Summaries, October 22, 2004. MMWR 2002:53(No. SS-8):23–45.
- Furness BW, Beach MJ, Roberts JM. Giardiasis surveillance— United States, 1992–1997. In: CDC Surveillance Summaries, August 11, 2000. MMWR 2000:49(No. SS-7):1–13.

Gonorrhea

- CDC. Increases in fluoroquinolone-resistant *Neisseria* gonorrhoeae among men who have sex with men—United States, 2003, and revised recommendations for gonorrhea treatment, 2004. MMWR 2004;53:335–8.
- CDC. Sexually transmitted diseases treatment guidelines, 2002. MMWR 2002;51(No. RR-6).
- CDC. Sexually transmitted diseases surveillance 2002 supplement: Gonococcal Isolate Surveillance Project (GISP) annual report 2002. Atlanta, GA: US Department of Health and Human Services, CDC; 2003.
- Fox KK, del Rio C, Holmes KK, et al. Gonorrhea in the HIV era: a reversal in trends among men who have sex with men. Am J Public Health 2001;91:959–64.

Haemophilus influenzae, Invasive Disease

- LaClaire LL, Tondella ML, Beall DS et al. Identification of *Haemophilus influenzae* serotypes by standard slide agglutination serotyping and PCR-based capsule typing. J Clin Micro 2003;41:393–6.
- CDC. Progress toward elimination of *Haemophilus influenzae* type b disease among infants and children—United States, 1998–2000. MMWR 2002;51:234–7.
- Fry AM, Lurie P, Gidley M, Schmink S, Lingappa J, Rosenstein NE. *Haemophilus influenzae* type b (Hib) disease among Amish children in Pennsylvania: reasons for persistent disease. Pediatrics 2001;108:1–6.

CDC. Recommendations for use of *Haemophilus* b conjugate vaccines and a combined diphtheria, tetanus, pertussis, and *Haemophilus* b vaccine: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1993;42(No. RR-13).

Hepatitis A

- Armstrong GL, Bell BP. Hepatitis A virus infections in the United States: model-based estimates and implications for childhood immunization. Pediatrics 2002;109:839–45.
- CDC. Prevention of hepatitis A through active or passive immunization: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1999;48(No. RR-12).
- Bell BP, Shapiro CN, Alter MJ, et al. The diverse patterns of hepatitis A epidemiology in the United States—implications for vaccination strategies. J Infect Dis 1998;178:1579–84.
- Lemon SM, Shapiro CN. The value of immunization against hepatitis A. Infect Agents Dis 1994;3:38–49.
- Shapiro CN, Coleman PJ, McQuillan GM, Alter MJ, Margolis HS. Epidemiology of hepatitis A: seroepidemiology and risk groups in the USA. Vaccine 1992;10(suppl 1):S59–62.

Hepatitis B

- Coleman PJ, McQuillan GM, Moyer LA, Lambert SB, Margolis HS. Incidence of hepatitis B virus infection in the United States, 1976–1994: estimates from the National Health and Nutrition Examination Surveys. J Infect Dis 1998;178:954–9.
- CDC. Hepatitis B virus: a comprehensive strategy for eliminating transmission in the United States through universal childhood vaccination: recommendations of the Immunization Practices Advisory Committee (ACIP). MMWR 1991;40(No. RR-13):1–19.
- Goldstein ST, Alter MJ, Williams IT, et al. Incidence and risk factors for acute hepatitis B in the United States, 1982–1998: implications for vaccination programs. J Infect Dis 2002;185:713–9.
- McQuillan GM, Coleman PJ, Kruszon-Moran D, Moyer LA, Lambert SB, Margolis HS. Prevalence of hepatitis B virus infection in the United States: The National Health and Nutrition Examination Surveys, 1976 through 1994. Am J Public Health 1999;89:14–8.
- Margolis HS, Alter MJ, Hadler SC. Hepatitis B: evolving epidemiology and implications for control [Review]. Semin Liver Dis 1991;11:84–92.

Hepatitis C

- Alter MJ, Kruszon-Moran D, Nainan OV, et al. The prevalence of hepatitis C virus infection in the United States, 1988 through 1994. N Engl J Med 1999;341:556–62.
- Armstrong GA, Alter MJ, McQuillan GM, Margolis HS. The past incidence of hepatitis C virus infection: implications for the future burden of chronic liver disease in the United States. Hepatology 2000;31:777–82.
- CDC. Recommendations for prevention and control of hepatitis C virus (HCV) infection and HCV-related chronic disease. MMWR 1998;47(No. RR-19).

Lyme Disease

- Stafford KC III. Tick management handbook: a integrated guide for homeowners, pest control operators, and public health officials for the prevention of tick-associated disease. Connecticut Agricultural Experiment Station; 2004. Available at http://www.caes.state.ct.us/SpecialFeatures/ TickHandbook.pdf.
- Hayes EB, Piesman J. How can we prevent Lyme disease? N Eng J Med 2003;348:2424–30.
- Bunikis J, Barbour AG. Laboratory testing for suspected Lyme disease. Med Clin North Am 2002;86:311–40.
- Guerra M, Walker E, Jone C, et al. Predicting risk of Lyme disease: habitat suitability for *Ixodes scapularis* in the North Central United States. Emerg Infect Dis 2002;8:289–97.

Malaria

- CDC. Malaria surveillance—United States, 2002. In: Surveillance Summaries, April 30, 2004. MMWR 2004;53(No. SS-1):21–34.
- CDC. Probable transfusion-transmitted malaria—Houston, Texas, 2003. MMWR 2003;52:1075–6.
- CDC. Local transmission of *Plasmodium vivax* malaria—Palm Beach County, Florida, 2003. MMWR 2003;52:908–11.
- Lobel HO, Kozarsky PE. Update on prevention of malaria for travelers. JAMA 1997;278:1767–71.

Measles

- Papania M, Hinman A, Katz S, Orenstein W, McCauley M, eds. Progress toward measles elimination—absence of measles as an endemic disease in the United States. J Infect Dis 2004;189(Suppl 1):S1–257.
- CDC. National, state, and urban area vaccination levels among children aged 19–35 months—United States, 2002. MMWR 2003;52:728–32.
- Rota PA, Liffick SL, Rota JS, et al. Molecular epidemiology of measles viruses in the United States, 1997–2001. Emerg Infect Dis 2002;8:902–8.

De Serres G, Gay NJ, Farrington CP. Epidemiology of transmissible diseases after elimination. Am J Epidemiol 2000;151:1039–48.

Plague

- CDC. Imported plague—New York City, 2002. MMWR 2003;53:725–8.
- Enscore RE, Biggerstaff BJ, Brown TL, et al. Modeling relationships between climate and the frequency of human plague cases in the southwestern United States, 1960–1997. Am J Trop Med Hyg 2002;66:186–96.
- Inglesby TV, Dennis DT, Henderson DA, et al. Plague as a biological weapon: medical and public health management. Working Group on Civilian Biodefense [Review]. JAMA 2000;283:2281–90.
- Dennis DT, Gage KL, Gratz N, Poland JD, Tikhomirov E. Plague manual: epidemiology, distribution, surveillance and control. Geneva, Switzerland: World Health Organization; 1999.

Rubella

- CDC. Control and prevention of rubella: evaluation and management of suspected outbreaks, rubella in pregnant women, and surveillance for congenital rubella syndrome. MMWR 2001;50(No. RR-12).
- Danovaro-Holliday MC, Gordon E, Woernle C, et al. Identifying risk factors for rubella susceptibility in a population at risk in the United States. Am J Public Health 2003;93:289–91.
- Reef SE, Frey TK, Theall K, et al. The changing epidemiology of rubella in the 1990s: on the verge of elimination and new challenges for control and prevention. JAMA 2002;287;464–72.
- Reef S, Plotkin S, Cordero J, et al. Preparing for congenital rubella syndrome elimination: summary of the Workshop on Congenital Rubella Elimination in the United States. Clin Infect Dis 2000;31:85–95.

Q Fever

- McQuiston JH, Childs JE. Q fever in humans and animals in the United States [Review]. Vector Borne and Zoonotic Dis 2002;179–191.
- CDC. Q Fever—California, Georgia, Pennsylvania, and Tennessee, 2000–2001. MMWR 2002;51:924–7.
- Raoult D, Tissot-Dupont H, Foucault C, et al. Q fever 1985– 1998. Clinical and epidemiologic features of 1,383 infections [Review]. Medicine 2000:79:109–25.
- Bernard KW, Parham GL, Winkler WG, Helmick CG. Q fever control measures: recommendations for research facilities using sheep. Infection Control 1982;3:461–65.

Rabies, Animal and Human

- CDC. Compendium of animal rabies prevention and control, 2004: National Association of State and Territorial Public Health Veterinarians, Inc. MMWR 2004;53(No.RR-9).
- CDC. Human rabies prevention—United States, 1999: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1999;48(No. RR-1).
- Krebs J.W., J.T. Wheeling, J.E. Childs. 2003. Rabies surveillance in the United States during 2002. J. Am Vet Med Assoc 223:1736–8.
- Noah DL, Drenzek CL, Smith JS, et al. Epidemiology of human rabies in the United States, 1980 to 1996 [Review]. Ann Intern Med 1998;128:922–0.

Rocky Mountain Spotted Fever

- Cases of Rocky Mountain spotted fever in family clusters three states, 2003. MMWR 2004:53:407–10.
- Treadwell TA, Holman RC, Clarke MA et al. Rocky Mountain spotted fever in the United States, 1993–1996. Am J Trop Med Hyg 2000;63:21–6.
- Thorner AR, Walker, DH, Petri WA. Rocky Mountain spotted fever [Review]. Clin Infect Dis 1998;27:1353–60.
- Dalton MJ, Clarke MJ, Holman RC, et al. National surveillance for Rocky Mountain spotted fever, 1981–1992: epidemiologic summary and evaluation of risk factors for fatal outcome. Am J Trop Med Hyg 1995;52:405–13.

Shigellosis

- Gupta A, Polyak CS, Bishop RD, Sobel J, Mintz ED. Laboratory-confirmed shigellosis in the United States, 1989–2002: epidemiologic trends and patterns. Clin Infect Dis 2004;38:1372–7.
- Kalluri P, Cummings K, Abbott S, et al. Epidemiological features of a newly described serotype of *Shigella boydii*. Epidemiol Infect 2004;132;579–83.
- Shane A, Crump J, Tucker N, Painter J, Mintz E. Sharing Shigella: risk factors and costs of a multi-community outbreak of shigellosis. Arch Pediatrics and Adolescent Medicine 2003;157:601–3.
- Naimi TS, Wicklund JH, Olsen SJ et al. Concurrent outbreaks of *Shigella sonnei* and enterotoxigenic *Escherichia coli* infections associated with parsley: implications for surveillance and outbreak control. Journal of Food Protection 2003;66:535–41.

Streptococcal Disease, Invasive, Group A

- The Prevention of Invasive Group A Streptococcal Infections Workshop Participants. Prevention of invasive group A streptococcal disease among household contacts of case patients and among postpartum and postsurgical patients: recommendations from the Centers for Disease Control and Prevention. Clin Infect Dis 2002;35:950–9.
- CDC. Active Bacterial Core Surveillance report. Emerging Infections Program Network. Group A streptococcus, 2003—preliminary. Atlanta, GA: Available at http:// www.cdc.gov/ncidod/dbmd/abcs/survreports/gas03prelim.pdf.
- O'Brien KL, Beall B, Barrett NL, et al. Epidemiology of invasive group A streptococcus disease in the United States, 1995– 1999. Clin Infect Dis 2002;35:268–76.
- Factor SH, Levine OS, Schwartz B, et al. Invasive group A streptococcal disease: risk factors for adults. Emerg Infect Dis 2003;9:970–7.

Streptococcus pneumoniae, Invasive, Drug-Resistant

- CDC. Preventing pneumococcal disease among infants and young children: recommendations of the Advisory Committee on Immunization Practices. MMWR 2000;49 (No. RR-9):1–38.
- Flannery B, Schrag S, Bennett NM, et al. Impact of childhood vaccination on racial disparities in invasive *Streptococcus pneumonias* infections in the United States, 1998–2002. JAMA 2004;291:2197–2203.
- Whitney CG, Farley MM, Hadler J, et al. Increasing prevalence of multidrug-resistant *Streptococcus pneumoniae* in the United States. N Engl J Med 2000;343:1917–24.
- Whitney CG, Farley MM, Hadler J, et al. Decline in invasive pneumococcal disease following the introduction of proteinpolysaccharide conjugate vaccine. N Engl J Med 2003; 348:1737–46.

Syphilis, Congenital

CDC. Congenital syphilis—United States, 2002. MMWR 2004;53:716–9.

Syphilis, Primary and Secondary

- CDC. The national plan to eliminate syphilis from the United States. Atlanta, GA: US Department of Health and Human Services, CDC; 1999.
- CDC. Trends in primary and secondary syphilis and HIV infections in men who have sex with men—San Francisco and Los Angeles, California, 1998–2002. MMWR 2004;53:575–8.

- CDC. Primary and secondary syphilis—United States, 2002. MMWR 2003;52:1117–20.
- CDC. Sexually transmitted disease surveillance supplement 2002: syphilis surveillance report. Atlanta, GA: US Department of Health and Human Services, CDC; 2004.

Tetanus

Pascual FB, McGinley EL, Zanardi LR, Cortese MM, Murphy TV. Tetanus surveillance—United States, 1998–2000. In: Surveillance Summaries, June 20, 2003. MMWR 2003;52(No. SS-3):1–8.

CDC. Tetanus—Puerto Rico, 2002. MMWR 2002;51:613-5.

- Fair E, Murphy T, Golaz A, Wharton M. Philosophic objection to vaccination as a risk for tetanus among children <15 years of age. Pediatrics 2002;109:E2.
- McQuillan GM, Kruszon-Moran D, Deforest A, Chu SY, Wharton M. Serologic immunity to diphtheria and tetanus in the United States. Ann Intern Med 2002;136:660–6.

Trichinellosis

CDC. Trichinellosis associated with bear meat—New York and Tennessee, 2003. MMWR 2004;53:606–10.

- Roy SL, Lopez AS, Schantz PM. Trichinellosis surveillance— United States, 1997–2001. In: Surveillance Summaries, July 25, 2003. MMWR 2003;52(No.SS-6):1–8.
- Moorhead A, Grunenwald PE, Dietz VJ, Schantz PM. Trichinellosis in the United States, 1991–1996: declining but not gone. Am J Trop Med Hyg 1999;60:66–9.

Tuberculosis

- CDC. Reported tuberculosis in the United States, 2003. Atlanta, GA: US Department of Health and Human Services, CDC; 2004. Available at http://www.cdc.gov/nchstp/tb.
- CDC. Trends in tuberculosis morbidity—United States, 1998–2003. MMWR 2004;53:209–14.
- Saraiya M, Cookson ST, Tribble P, et al. Tuberculosis screening among foreign-born persons applying for permanent US residence. Am J Public Health 2002;92:826–9.
- Talbot EA, Moore M, McCray E, Binkin NJ. Tuberculosis among foreign-born persons in the United States, 1993– 1998. JAMA 2000;284:2894–900.

CDC. Outbreak of trichinellosis associated with eating cougar jerky—Idaho, 1995. MMWR 1996;45:205–6.

Tularemia

- CDC. Outbreak of tularemia among commercially distributed prairie dogs, 2002. MMWR 2002;51:688,699.
- CDC. Tularemia—United States, 1990–2000. MMWR 2002;51:182–4.
- Dennis DT, Inglesby TV, Henderson DA, et al. Tularemia as a biological weapon: medical and public health management. JAMA 2001;285:2763–73.
- Feldman KA, Enscore RE, Lathrop SL, et al. Outbreak of primary pneumonic tularemia on Martha's Vineyard. N Engl J Med 2001:345:1219–26.

Typhoid Fever

- Steinberg EB, Bishop RB, Dempsey AF, et al. Typhoid fever in travelers: who should be targeted for prevention? Clin Infect Dis 2004;39:186–91.
- Crump JA, Luby SP, Mintz ED. The global burden of typhoid fever. Bull WHO 2004;84:346–53.

- Olsen SJ, Bleasdale SC, Magnano AR, et al. Outbreaks of typhoid fever in the United States, 1960–1999. Epidemiol Infect 2003;130:13–21.
- Reller M, Olsen S, Kressel A. Sexual transmission of typhoid fever: a multi-state outbreak among men who have sex with men. Clin Infect Dis 2003;37:141–4.

Varicella

- Seward JF, Zhang JX, Maupin TJ, Mascola L, Jumaan AO. Contagiousness of varicella in vaccinated cases: a household contact study. JAMA 2004;292:704–8.
- CDC. Outbreak of varicella among vaccinated children— Michigan, 2003. MMWR 2004;53:389–92.
- CDC. Prevention of varicella: updated recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1999;48(No. RR-6).
- CDC. Prevention of varicella: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1996;45(No. RR-11):1–25.

The Morbidity and Mortality Weekly Report (MMWR) Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available free of charge in electronic format and on a paid subscription basis for paper copy. To receive an electronic copy each week, send an e-mail message to *listserv@listserv.cdc.gov*. The body content should read *SUBscribe mmwr-toc*. Electronic copy also is available from CDC's World-Wide Web server at *http://www.cdc.gov/mmwr* or from CDC's file transfer protocol server at *ftp://ftp.cdc.gov/pub/publications/mmwr*. To subscribe for paper copy, contact Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone 202-512-1800.

Data in the weekly *MMWR* are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the following Friday. Address inquiries about the *MMWR* Series, including material to be considered for publication, to Editor, *MMWR* Series, Mailstop E-96, CDC, 1600 Clifton Rd., N.E., Atlanta, GA 30333; telephone 888-232-3228.

All material in the MMWR Series is in the public domain and may be used and reprinted without permission; citation as to source, however, is appreciated.

All MMWR references are available on the Internet at http://www.cdc.gov/mmwr. Use the search function to find specific articles.

Use of trade names and commercial sources is for identification only and does not imply endorsement by the U.S. Department of Health and Human Services.

References to non-CDC sites on the Internet are provided as a service to *MMWR* readers and do not constitute or imply endorsement of these organizations or their programs by CDC or the U.S. Department of Health and Human Services. CDC is not responsible for the content of these sites. URL addresses listed in *MMWR* were current as of the date of publication.

☆U.S. Government Printing Office: 2005-733-116/00079 Region IV ISSN: 0149-2195