

MORBIDITY AND MORTALITY WEEKLY REPORT

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## Update: Outbreaks of Cyclosporiasis - United States, 1997

During April and May 1997, CDC received reports of clusters of cases of cyclosporiasis in the United States (1). This report describes the preliminary findings of an investigation of an outbreak in New York and summarizes the findings from on-going investigations in other states.

## New York

On May 15, the Westchester County Health Department was notified of two laboratory-confirmed cases of cyclosporiasis and other cases of diarrheal illness among persons who attended a wedding reception on April 20 at a private residence in the county. A case of cyclosporiasis was defined as onset of diarrhea (three or more loose stools during a 24 -hour period) $1-14$ days after the reception. Of the 183 persons who attended the reception, 154 ( $84 \%$ ) were interviewed, and 140 were included in this analysis (persons who had loose stools that did not meet the case definition were excluded). Of the 140 persons, 20 ( $14 \%$ ) had illness that met the case definition; four cases were laboratory confirmed. The median incubation period was 8 days (range: 311 days), and for 19 persons, the duration of diarrheal illness was $\geq 3$ days.

Eating raspberries was the exposure most strongly associated with risk for illness in univariate analysis and was the only exposure significantly associated with risk for illness in multivariate logistic regression analysis. Sixteen (36\%) of the 45 persons who ate raspberries became ill, compared with three (4\%) of the 85 persons who did not eat raspberries (univariate relative risk=10.1; $95 \%$ confidence interval=3.1-32.8). The raspberries had not been washed.

## Other Investigations

CDC has received reports of eight event-associated (e.g., reception) clusters of cases of cyclosporiasis from five states (California, Florida, Nevada, New York [includes Westchester County], and Texas) and a report of cases among persons who, during March 29-April 5, had been on a cruise ship that left from Florida. The most recent of the eight events occurred on May 8. Approximately 90 event-associated cases of infection have been laboratory confirmed.

Fresh berries were served at six of the eight events. Raspberries were included in mixtures of various types of berries at four events, were served separately from other berries at one event (the event in Westchester County), and were the only type of berry

Cyclosporiasis Outbreaks - Continued
served at one event (in Nevada). Eating the food items that included raspberries was significantly associated with risk for illness for four events, including the two events at which raspberries could be distinguished from other berries (Westchester County and Nevada events); for one of the other two events, all 10 persons ate the berry mixture that was served and became ill. At one event where the implicated food item included a mixture of berries, the source of the raspberries was Guatemala; preliminary traceback data for the other events at which raspberries were served indicate that both Guatemala and Chile may be sources (i.e., each country was the source of at least one of the shipments of raspberries that could have been used).

State and local health departments, CDC, and the Food and Drug Administration (FDA) are continuing the investigations to identify the vehicles of infection, to trace the sources of implicated foods, and to determine whether transmission is ongoing.
Reported by: G Jacquette, MD, F Guido, MPA, J Jacobs, Westchester County Dept of Health, Hawthorne; P Smith, MD, State Epidemiologist, New York State Dept of Health. Other state and local health depts. D Adler, San Francisco, California. Office of Regulatory Affairs, and Center for Food Safety and Applied Nutrition, Food and Drug Administration. Foodborne and Diarrheal Diseases Br and Childhood and Respiratory Diseases Br, Div of Bacterial and Mycotic Diseases, and Div of Parasitic Diseases, National Center for Infectious Diseases, CDC.
Editorial Note: The preliminary findings of the investigations described in this report suggest that raspberries imported from Guatemala and possibly from Chile were the likely vehicle of infection for some of the outbreaks of cyclosporiasis during April and May. In the spring and summer of 1996, an outbreak of cyclosporiasis in the United States and Canada was linked to eating raspberries imported from Guatemala (2). However, the mode of contamination of the implicated raspberries in that outbreak was not determined-in part because the methods for testing produce and other environmental samples for Cyclospora are insensitive.

Produce should always be thoroughly washed before it is eaten. This practice should decrease, but may not eliminate, the risk for transmission of Cyclospora. Because raspberries are fragile and replete with crevices (3), even thorough washing may not eliminate contamination of the fruit. State and local health departments, CDC, and FDA are evaluating the findings from the investigations to determine the need for additional public health measures.

Health-care providers should consider Cyclospora infection in persons with prolonged diarrheal illness and specifically request laboratory testing for this parasite. Cases should be reported to local and state health departments; health departments that identify cases of cyclosporiasis should contact CDC's Division of Parasitic Diseases, National Center for Infectious Diseases, telephone (770) 488-7760.

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## Dog-Bite-Related Fatalities - United States, 1995-1996

From 1979 through 1994, attacks by dogs resulted in 279 deaths of humans in the United States (1,2). Such attacks have prompted widespread review of existing local and state dangerous-dog laws, including proposals for adoption of breed-specific restrictions to prevent such episodes (3). To further characterize this problem and the involvement of specific breeds, CDC analyzed data from the Humane Society of the United States (HSUS) and media accounts in the NEXIS database*. This report presents three recent cases of dog-bite-related fatalities (DBRFs), summarizes characteristics of such deaths during 1995-1996, and provides breed-specific data for DBRFs during 1979-1996. The findings in this report indicate that most DBRFs occurred among children and suggest approaches for prevention.

In January 1995, a 2-year-old boy in South Dakota wandered into a neighbor's yard, where he was attacked and killed by two chained wolf-German shepherd hybrids. In September 1995, a 3-week-old girl in Pennsylvania was killed in her crib by the family Chow Chow while her parents slept in the next room. In March 1996, an 86-year-old woman in Tennessee went outside of her home to check the weather and was fatally mauled by two rottweilers owned by a neighbor; the dogs had attacked and injured the woman 1 month before the fatal attack.

The HSUS attempts to identify all DBRFs ( 1,2 ) and maintains a registry of these incidents. A DBRF was defined as a death caused by acute trauma from a dog attack. Case reports in the registry include details such as date of death, age and sex of decedent, city and state of attack, number and breeds of dogs involved, and circumstances. To supplement HSUS reports, CDC included data from the NEXIS database and death certificates. However, death-certificate data were not available for 1995-1996. Deaths associated with infection secondary to dog bites were excluded.

Data from HSUS and NEXIS were merged to maximize detection of cases and avoid duplicate reports. Because news media accounts can inaccurately report breeds of dogs involved in DBRFs, only breed data from the HSUS were used (4). When multiple dogs of the same breed were involved in a fatality, that breed was counted only once. When crossbred animals were involved in a fatality, each breed in the dog's parentage was counted once. Dogs were also classified as on or off the owner's property and whether they were restrained (e.g., chained or leashed) at the time of the attack.

During 1995-1996, at least 25 persons died as the result of dog attacks (11 in 1995 and 14 in 1996). Of the 25 DBRFs, 20 ( $80 \%$ ) occurred among children (three were aged $\leq 30$ days [neonates], one was aged 5 months, 10 were aged $1-4$ years, and six were aged 5-11 years), and five occurred among adults (ages 39, 60, 75, 81, and 86 years). Most (18 [72\%]) DBRFs occurred among males.

Of 23 deaths with sufficient information for classification, seven (30\%) involved an unrestrained dog off the owner's property, five (22\%) involved a restrained dog on the owner's property, and $11(48 \%)$ involved an unrestrained dog on the owner's property. Of the 25 deaths, nine ( $36 \%$ ) involved one dog, nine ( $36 \%$ ) involved two dogs, two (8\%) involved three dogs, and five ( $20 \%$ ) involved six to 11 dogs. All the attacks by unrestrained dogs off the owner's property involved more than one dog. Of the three

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## Dog Bites - Continued

deaths among neonates, all occurred on the dog owner's property and involved one dog and a sleeping child.

During 1995-1996, rottweilers were the most commonly reported breed involved in fatal attacks (Table 1). Fatal attacks were reported from 14 states (California [four deaths]; Florida and Pennsylvania [three each]; Arizona, Arkansas, Colorado, and South Dakota [two each]; and Connecticut, Massachusetts, Missouri, North Carolina, Ohio, Tennessee, and Washington [one each]).
Reported by: R Lockwood, PhD, Humane Society of the United States, Washington, DC. Div of Unintentional Injuries Prevention, National Center for Injury Prevention and Control, CDC.
Editorial Note: During 1979-1996, fatal dog attacks occurred in 45 states (Figure 1). In 1986, nonfatal dog bites resulted in an estimated 585,000 injuries that required medical attention or restricted activity; in that year, dog bites ranked 12th among the leading causes of nonfatal injury in the United States (5). In 1994, an estimated 4.7 million persons ( $1.8 \%$ of the U.S. population) sustained a dog bite; of these, approximately $800,000(0.3 \%)$ sought medical care for the bite (6).

The findings in this report are subject to at least two limitations. First, because death-certificate data were not available, the two sources used for case finding in 1995-1996 probably underestimated the number of DBRFs and may represent only $74 \%$ of actual cases (1,2). Second, to definitively determine whether certain breeds are disproportionately represented, breed-specific fatality rates should be calculated. The numerator for such rates requires complete ascertainment of deaths and an accurate determination of the breed involved, and the denominator requires reliable

FIGURE 1. Number of dog-bite-related fatalities, by state — United States, 1979-1996*

*For 1979-1994, data obtained from the Humane Society of the United States registry, NEXIS database accounts, and death certificates. For 1995-1996, data from death certificates were not available.

## Dog Bites - Continued

breed-specific population data (i.e., number of deaths involving a given breed divided by number of dogs of that breed). However, such denominator data are not available, and official registration or licensing data cannot be used because owners of certain breeds may be less likely than those owning other breeds to register or license their animals (3).

Three categories of strategies can be considered for preventing dog bites:

1. Owner and public education. Dog owners, through proper selection, socialization, training, care, and treatment of a dog, can reduce the likelihood of owning a dog that will eventually bite ( 7 ). Male and unspayed/unneutered dogs are more likely to bite than are female and spayed/neutered dogs (7). Educational and prevention efforts should be directed at parents and children. Veterinarians and pediatricians should address strategies for bite prevention, including the need for appropriate supervision of children. Other strategies include dissemination of information on preventing bites (see box), school-based educational programs on bite prevention and canine behavior, and educational programs regarding responsible dog selection, ownership, and training.
2. Animal control at the community level. Animal-control programs should be supported, and laws for regulating dangerous or vicious dogs should be promulgated and enforced vigorously (8). For example, in this report, $30 \%$ of DBRFs resulted from groups of owned dogs that were free roaming off the owner's property. Some of these deaths might have been prevented through more stringent animal-control laws and enforcement. Although some breeds were disproportionately represented in the fatal attacks described in this report, the representation of breeds changes over time (Table 1). As a result, targeting a specific breed may be unproductive; a more effective approach may be to target chronically irresponsible dog owners (9).
3. Bite reporting. Evaluation of prevention efforts requires improved surveillance for dog bites. Dog bites should be reported as required by local or state ordinances, and reports of such incidents should include information about the circumstances of the bite; ownership, breed, sex, age, spay/neuter status, and history of prior aggression of the animal; and the nature of restraint before the bite incident.
Dogs provide many health and social benefits (10). Most of the approximately 55 million dogs in the United States never bite or kill humans. However, the findings in this report indicate that DBRFs continue to occur and that most are preventable.

HSUS and the U.S. Postal Service have designated June 9-13, 1997, as National Dog Bite Prevention Week. Additional information about preventing dog bites is available from HSUS, 100 L Street, NW, Washington, DC 20037; telephone (202) 452-1100; or on the World-Wide Web at http//:www.hsus.org.

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## Dog Bites - Continued

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## Measures for Preventing Dog Bites

- Realistically evaluate environment and lifestyle and consult with a professional (e.g., veterinarian, animal behaviorist, or responsible breeder) to determine suitable breeds of dogs for consideration.
- Dogs with histories of aggression are inappropriate in households with children.
- Be sensitive to cues that a child is fearful or apprehensive about a dog and, if so, delay acquiring a dog.
- Spend time with a dog before buying or adopting it. Use caution when bringing a dog or puppy into the home of an infant or toddler.
- Spay/neuter virtually all dogs (this frequently reduces aggressive tendencies).
- Never leave infants or young children alone with any dog.
- Properly socialize and train any dog entering the household. Teach the dog submissive behaviors (e.g., rolling over to expose abdomen and relinquishing food without growling).
- Immediately seek professional advice (e.g., from veterinarians, animal behaviorists, or responsible breeders) if the dog develops aggressive or undesirable behaviors.
- Do not play aggressive games with your dog (e.g., wrestling).
- Teach children basic safety around dogs and review regularly:
- Never approach an unfamiliar dog.
- Never run from a dog and scream.
- Remain motionless when approached by an unfamiliar dog (e.g., "be still like a tree").
- If knocked over by a dog, roll into a ball and lie still (e.g., "be still like a log").
- Never play with a dog unless supervised by an adult.
- Immediately report stray dogs or dogs displaying unusual behavior to an adult.
- Avoid direct eye contact with a dog.
- Do not disturb a dog who is sleeping, eating, or caring for puppies.
- Do not pet a dog without allowing it to see and sniff you first.
- If bitten, immediately report the bite to an adult.

Source: Reference 2.

## Update: Progress Toward Poliomyelitis Eradication South East Asia Region, 1995-1997

In 1988, the World Health Assembly established the goal of global poliomyelitis eradication by the year 2000. Since then, substantial progress has been reported from all World Health Organization (WHO) regions by implementing strategies to prevent, detect, and interrupt transmission of poliovirus (1). In WHO's South-East Asia Region* (SEAR), the successful application of these strategies has resulted in a $96 \%$ decrease in the number of annually reported polio cases during 1988-1996 (from 25,711 cases to 1116 cases). Acceleration of intensified surveillance continues to be critically important for identifying the remaining reservoirs of poliovirus circulation for targeted mass vaccination campaigns. This report summarizes data on progress in SEAR toward polio eradication as of April 1, 1997, and updates previous reports (2-4).

## Vaccination Coverage

Routine vaccination. During 1986-1995, all countries in SEAR implemented the Expanded Program on Immunization. During 1986-1990, overall coverage in SEAR with three doses of oral poliovirus vaccine (OPV3) among children aged <1 year increased from $42 \%$ to $82 \%$ and, during 1991-1995, coverage ranged from $85 \%$ to $91 \%$.

Supplementary vaccination. In 1994, annual National Immunization Days (NIDs) ${ }^{\dagger}$ were first held in Thailand, followed in 1995 by Bangladesh, Bhutan, India, Indonesia, and Sri Lanka, and in 1996 by the Democratic People's Republic (DPR) of Korea, Myanmar, and Nepal. South Asia Association for Regional Cooperation (SAARC) member countries in the WHO South-East Asia and Eastern Mediterranean regions coordinated NIDs during December 1996-January 1997. In SEAR, supplementary doses of OPV were administered during this period to 165 million children aged $<5$ years during NIDs conducted simultaneously in six (Bangladesh, Bhutan, India, Myanmar, Nepal, and Thailand) of the region's 10 countries.

## Incidence of Polio

During 1988-1996, the annual number of reported polio cases in SEAR decreased by $96 \%$ (from 25,711 cases to 1116 cases). The cases reported in SEAR in 1996 (1116) accounted for $30 \%$ of the worldwide burden of paralytic poliomyelitis (3755) and, in 1988 and 1994, for $73 \%$ and $67 \%$ of cases worldwide, respectively. Five countries in the region (Bangladesh, India, Indonesia, Myanmar, and Nepal) accounted for $99 \%$ (1109 of 1116) of the total number of cases reported in the region in 1996 (Table 1). From 1994 (implementation of the first NIDs in the region [Thailand]) to 1996, reported polio cases decreased by $78 \%$ (from 5118 cases to 1116 cases).

The substantial decline in reported cases primarily reflects improved control of polio in India ( 1996 population: 952,969,000 [76\% of the region's population]). Following the implementation of India's first NIDs during December 1995-January 1996, reported cases decreased by 69\% from 1995 to 1996 (from 3263 cases to 1005 cases) (Figure 1).

[^1]| Country | 1995 |  |  |  |  |  | 1996 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. AFP cases | No. confirmed cases |  | AFP rate ${ }^{\text {§ }}$ |  | \% AFP cases with two stool specimens ${ }^{\\|}$ | No. AFP cases | No. confirmed cases |  | AFP rate |  | \% AFP cases with two stool specimens |
|  |  |  | Wild virus |  |  | Clinical |  | Wild virus isolated |  |  |  |
|  |  | Clinical | isolated | Total | Nonpolio |  |  |  | Total | Nonpolio |  |
| Bangladesh | 108 | 49 | 2 | 0.23 | 0.12 | $N R^{* *}$ | 87 | 24 | 10 | 0.18 | 0.13 | 16 |
| DPR Korea ${ }^{\dagger \dagger}$ | 12 | 7 | 2 | 0.17 | 0.07 | NR | 13 | 6 | 4 | 0.19 | 0.10 | 43 |
| India ${ }^{\text {® }}$ | 3263 | 3263 | 313 | 2.20 | 0 | NR | 1005 | 1005 | 110 | 0.30 | 0 | NR |
| Indonesia | 22 | 12 | 2 | 0.03 | 0.01 | NR | 68 | 63 | 0 | 0.11 | 0.01 | 42 |
| Myanmar | 7 | 7 | 0 | 0.04 | 0 | NR | 15 | 8 | 0 | 0.09 | 0.04 | 23 |
| Nepal | 15 | 9 | 7 | 0.16 | 0.06 | NR | 11 | 9 | 1 | 0.12 | 0.02 | 50 |
| Sri Lanka | 94 | 0 | 0 | 1.67 | 1.67 | 44 | 96 | 0 | 0 | 1.72 | 1.72 | 61 |
| Thailand | 122 | 2 | 2 | 0.74 | 0.73 | 75 | 86 | 1 | 1 | 0.56 | 0.52 | 40 |
| Total | 3643 | 3349 | 328 | - | - | - | 1381 | 1116 | 126 | - | - | - |

*A confirmed case of polio is defined as AFP and at least one of the following: 1) laboratory-confirmed wild poliovirus infection, 2 ) residual paralysis at 60 days, 3) death, or 4) no follow-up investigation at 60 days.
${ }^{\dagger}$ Bhutan and Maldives were excluded from this analysis because both are polio-free countries and have population sizes too small for meaningful analysis of nonpolio AFP data.
${ }^{\S}$ Number of AFP cases per 100,000 population aged $<15$ years. Expected rate is $\geq 1$ case per 100,000 nonpolio AFP cases per year
TTwo stool specimens collected at an interval of $24-48$ hours within 14 days of paralysis onset from $\geq 80 \%$ of AFP cases.
**Not reported.
${ }^{\dagger \dagger}$ Democratic People's Republic of Korea.
${ }^{\S \S}$ Source: Routine clinical polio surveillance, Ministry of Health and Family Welfare, Government of India. Implementation of AFP reporting is under way. indicators, by country - South-East Asia Region ${ }^{\dagger}$, World Health Organization (WHO), 1995-1996

## Polio Eradication - Continued

FIGURE 1. Reported cases of poliomyelitis,* by state - India, 1995 and $1996{ }^{\dagger}$

${ }^{*} \mathrm{n}=3263$ for 1995 and $\mathrm{n}=1005$ for 1996.
${ }^{\dagger}$ One dot=one case. Dots are randomly distributed within borders of states.

## Polio Eradication - Continued

During 1996, six other countries reported polio cases, including Indonesia (63 cases [6\% of the regional total]), Bangladesh (24 cases [2\%]), Myanmar (11 [1\%]), Nepal (nine [ $<1 \%]$ ), DPR Korea (six [ $<1 \%]$ ), and Thailand (one [ $<1 \%]$ ); three countries (Bhutan, Maldives, and Sri Lanka) reported zero polio cases. Bhutan (1996 population: 1,634,000; last reported polio case was in 1986) and Maldives (1996 population: 251,000; last reported case [imported] was in 1994) have implemented "zero case" reporting ${ }^{\S}$ for cases of acute flaccid paralysis (AFP) from all reporting units. Sri Lanka, which has maintained intensified surveillance ${ }^{\text {f }}$ since 1991, last reported polio cases in 1993.

## Surveillance

By 1995, all SEAR countries were conducting surveillance for clinically confirmed paralytic poliomyelitis; however, only two countries (Sri Lanka and Thailand) had established surveillance for AFP. By 1996, all member countries had initiated procedures for the mandatory reporting and investigation of all cases of AFP in children aged <15 years. In some countries (Bangladesh, India, Indonesia, Myanmar, and Nepal), intensive training has been instituted for public health officials and physicians in clinical practice regarding immediate reporting and investigation of all AFP cases.

In 1996, Sri Lanka was the only country to achieve or exceed the WHO-established minimum AFP reporting rate indicative of a sensitive surveillance system ( $\geq 1$ nonpolio AFP case per 100,000 population aged <15 years); the nonpolio AFP rate reported for Sri Lanka was 1.7. No country in the region has achieved the WHOrecommended target of two stool specimens collected at a 24 - to 48 -hour interval within 14 days of paralysis onset from at least $80 \%$ of AFP cases; the proportion of cases in 1996 with two stools collected within 14 days ranged from $16 \%$ (Bangladesh) to $61 \%$ (Sri Lanka).

## Virologic Investigations

Enterovirus isolation, identification, and intratypic differentiation is performed by the SEAR Poliovirus Laboratory network** on stool specimens collected from AFP cases. Based on an expected nonpolio AFP rate of at least 1 case per 100,000 population aged <15 years, the minimum expected number of cases in SEAR would be 5033 per year. However, in 1996, a total of 1381 AFP cases were reported from all countries in the region; of these, 1116 were classified as confirmed polio. Virologic investigations were conducted for 978 ( $71 \%$ ) of the 1381 reported AFP cases. Of these, 106 (11\%) were positive for wild poliovirus type 1; five ( $0.5 \%$ ), for wild poliovirus type 2 ; and 11 ( $1 \%$ ), for wild poliovirus type 3.

In 1996, wild poliovirus was isolated from stool specimens from 126 AFP cases ${ }^{\dagger \dagger}$ in the region; of these, $110(87 \%)$ were from India. Of these 110 isolates, $94(85 \%)$ were wild poliovirus type 1; five (5\%), wild poliovirus type 2; and 11 ( $10 \%$ ), wild poliovirus

[^2]
## Polio Eradication - Continued

type 3. India was the only country in the region from which wild poliovirus type 2 was isolated (from the northern states of New Delhi [one case], Haryana [one], and Uttar Pradesh [one], and from the southern state of Tamil Nadu [two]). Wild poliovirus type 1 was isolated from Bangladesh ( 10 cases), Nepal (one), and Thailand (one).
Reported by: South-East Asia Regional Office, New Delhi, India; Global Program for Vaccines and Immunization, World Health Organization, Geneva, Switzerland. Respiratory and Enterovirus Br, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Polio Eradication Activity, National Immunization Program, CDC.
Editorial Note: As of April 1, 1997, all SEAR countries with endemic polio had conducted from one to three successful NIDs, and coverage with OPV3 was $>95 \%$ in the target population in every country. The synchronized vaccination activities in the region resulted in the substantial decrease in reported polio cases in 1996 and the decrease in the proportion of total global polio cases accounted for by countries in SEAR. Because all 10 member countries plan to conduct NIDs during 1997-1998, such progress should be sustained in the region. During 1996-1997, coordination of NIDs in SEAR was enhanced by the active participation of SAARC, one of the partner organizations in the regional effort to eradicate polio. In addition, simultaneous coordination of NIDs or sub-NIDs by Pakistan ( 27 million children) in the Eastern Mediterranean Region and China ( 65 million children) in the Western Pacific Region resulted in vaccination of 257 million children in these contiguous countries with endemic polio. The political, financial, social, and logistic coordination needed to synchronize multinational NIDs now should also be targeted toward strengthening surveillance both to prioritize eradication strategies and to document the eventual eradication of wild poliovirus.

Although all countries in SEAR have implemented mandatory reporting of AFP cases, only one country in the region has achieved the recommended minimum rate of reporting. One priority is the development of highly sensitive epidemiologic and laboratory surveillance that meets standard performance criteria for identifying all remaining reservoirs of wild poliovirus. The persistent circulation of wild poliovirus in India during 1996 underscores the importance of establishing surveillance to enable precise identification of the virus reservoirs that can be targeted for routine or supplementary vaccination activities. Recent receipt of funds designated for surveillance from partner organizations, ${ }^{\text {§§ }}$ including DANIDA (Danish government), Rotary International, U.S. Agency for International Development, and NORAD (Norwegian government), ensures that adequate financial resources are available to begin purchasing laboratory and field operations equipment, hire surveillance personnel, and support case investigation.

Because some countries initiated polio-eradication strategies earlier than others, neighboring countries may reach the goal of elimination of wild poliovirus circulation at different times. Wild polioviruses circulated in countries or regions bordering emerging polio-free zones during 1995 and 1996, when cases of paralytic poliomyelitis occurred in children who resided in Myanmar but presented for treatment at a hospital in the neighboring province of Yunnan, China ( 5,6 ). To expedite rapid investigation of all such cases, all countries must ensure immediate notification of cases of AFP to the designated national authorities, neighboring countries, and relevant international organizations. To achieve the goal of global eradication of polio by 2000, international

[^3]
## Polio Eradication - Continued

coordination of NIDs must be complemented by or integrated with cross-border coordination of surveillance.

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## Decreasing Incidence of Perinatal Group B Streptococcal Disease United States, 1993-1995

Group B streptococcal (GBS) infections are the leading cause of bacterial disease and death among newborns in the United States and an important cause of morbidity among peripartum women and nonpregnant adults with chronic medical conditions. Disease in infants usually presents as sepsis, pneumonia, or meningitis but also may include cellulitis or osteomyelitis (1). In 1990, GBS infections caused an estimated 7600 serious illnesses and 310 deaths among U.S. infants aged $\leq 90$ days; infections among infants aged $<7$ days (i.e., early-onset disease) accounted for approximately $80 \%$ of these illnesses (2). To determine the incidence of GBS disease during 19931995, CDC conducted surveillance for this disease in an aggregate population of 12.5 million persons with 190,000 annual live-born infants. This report summarizes the findings of surveillance in this population, which indicate that a statistically significant decline in the incidence of early-onset GBS disease occurred in some surveillance areas.

Surveillance was conducted in the three-county San Francisco Bay area, California; four urban counties in Tennessee; the eight-county metropolitan area of Atlanta, Georgia; and the entire state of Maryland. At biweekly intervals, surveillance personnel requested standardized reports of cases of invasive GBS disease from contacts in each laboratory that served acute-care hospitals within specified surveillance areas. Periodic audits of all laboratories were conducted to validate completeness of reporting. A case of invasive GBS disease was defined as isolation of group B streptococci from a normally sterile site (e.g., blood or cerebrospinal fluid) from a resident of an area under surveillance. Cases were categorized as early-onset and late-onset (illness onset at age 7-90 days). To calculate the incidence of neonatal GBS disease for the surveillance areas, the number of live-born infants for 1993-1995 was obtained from the respective state health departments or from CDC's National Center for Health Statistics. Race-specific data are presented only for blacks and whites because numbers for other racial/ethnic groups were too small for meaningful analysis.

## Group B Streptococcal Disease - Continued

During 1993-1995, a total of 3023 cases of invasive GBS disease were reported from the surveillance areas; 1071 ( $35 \%$ ) cases occurred among newborns aged <90 days. Of the 1071 cases among newborns, 520 ( $49 \%$ ) occurred among blacks and 478 ( $45 \%$ ), among whites. Approximately three fourths ( 822 [ $77 \%$ ]) of cases were early-onset disease. Bacteremia (89\%) and meningitis with or without bacteremia ( $10 \%$ ) were the most common types of neonatal disease.

The case-fatality rates were $4.0 \%$ for neonatal disease, $4.5 \%$ for early-onset disease, and $2.4 \%$ for late-onset disease. Of the 708 ( $66 \%$ ) infants for whom data about gestational age were available; 85 (12\%) were born at <34 weeks' gestation; 65 (9\%), at $34-36$ weeks' gestation; and 558 ( $79 \%$ ), at $\geq 37$ weeks. In comparison, of all infants born in the United States in $1993,89 \%$ were born at $\geq 37$ weeks (3). Preterm infants were more likely to die than those born at $\geq 37$ weeks ( 23 [ $16 \%$ ] of 148 versus 11 [ $2 \%$ ] of 553 ).

During 1993-1995, the overall annual incidence of early-onset GBS disease in the surveillance areas declined $24 \%$, from 1.7 cases per 1000 live-born infants in 1993 to 1.3 per 1000 in 1995 (Figure 1). The race-specific incidence rate declined $27 \%$ for black newborns and $18 \%$ for white newborns. The decline in the overall incidence primarily

FIGURE 1. Incidence rate* of early-onset group B streptococcal (GBS) disease, ${ }^{\dagger}$ by year and site - selected sites, ${ }^{\S}$ 1993-1995


[^4]Group B Streptococcal Disease - Continued
reflected changes in rates for newborns in Maryland and San Francisco: in both of these sites, the rate of early-onset GBS disease decreased $43 \%$, from 1.4 per 1000 in 1993 to 0.8 per 1000 in 1995. No significant decline occurred in Tennessee or Atlanta during this period. In 1995, the rate varied by geographic location, ranging from 0.8 (Maryland and San Francisco) to 1.9 (Atlanta), and race-specific rates were higher for black newborns (1.8) than for white newborns (1.2). During this same period, the rates of late-onset neonatal GBS disease ( 0.5 in 1993 and in 1995) and of GBS disease for adults remained stable.
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Editorial Note: Since the mid-1980s, multiple studies have demonstrated consistently that early-onset GBS disease can be prevented by targeted use of antimicrobial prophylaxis after onset of labor or membrane rupture (4). The overall incidence of early-onset GBS disease remained relatively constant during 1991-1993 (5); however, findings in this report of more recent surveillance indicate that, during 1993-1995, the incidence declined significantly in some areas. The recent decline may reflect the impact of adopting measures to prevent early-onset neonatal GBS infections and improved implementation of existing clinical and laboratory policies during 1994 and early 1995. For example, in mid-1993, the proportion of obstetric-care providers in Georgia who reported using optimal techniques for detecting GBS carriage was limited-only $9 \%$ of those who performed prenatal screening cultures for GBS collected swabs from recommended sites (both the vagina and rectum), and only $4 \%$ of laboratories used the optimal method (selective broth media) for isolating GBS $(6,7)$. In comparison, a survey conducted during mid-1994 (including three of the sites in this report) indicated that $38 \%$ of hospital obstetric programs had adopted a formal strategy for preventing perinatal GBS disease and only $12 \%$ had written policies (7); however, of those programs without prevention policies at the time of the survey, approximately two thirds reported they were considering or developing such policies.

In addition to adoption of prevention measures for early-onset GBS, other factors probably contributed to the recent decline in early-onset GBS disease. First, during 1992, the American College of Obstetricians and Gynecologists (ACOG) and the American Academy of Pediatrics (AAP) issued statements about preventing earlyonset GBS disease (4). Second, during 1994, state legislatures in California and Florida considered bills that would have mandated development and implementation of practice guidelines for preventing GBS. Although the proposed legislation was not enacted, the issues were widely publicized and resulted in state-sponsored prevention activities. Third, in 1994, CDC issued draft prevention guidelines for public comment (8) and, in 1995, provided educational materials to clinicians who had participated in previous surveys.

Because of the geographical variation in the incidence rates of GBS disease, the decline in early-onset GBS disease documented in the surveillance sites in this report may not represent national trends. However, the changes probably are not the result

## Group B Streptococcal Disease - Continued

of surveillance artifacts because the incidence of early-onset disease declined while rates for late-onset and adult GBS disease remained stable, and because audits of microbiology laboratories have been routinely conducted in all surveillance areas. These findings are consistent with the effect of prevention efforts that can interrupt mother-to-infant transmission, rather than a change in virulence of circulating GBS strains or decreasing prevalences of GBS carriage among all age groups. Ongoing surveillance in these and additional sites is assessing whether the decline in earlyonset GBS disease will continue and become more widespread.

The greater risk for early-onset GBS disease among black newborns than among white newborns may be multifactorial, although GBS carriage rates among pregnant women who are black have been higher than those among women in other racial groups ( 1,4 ), and rates of GBS disease have been higher among blacks of all age groups $(2,5)$. More cases of early-onset GBS disease occur in hospitals with higher proportions of deliveries to black women or women without prenatal care. These associations are independent of the frequency of low birthweight (<5 lbs 8 oz [ $<2500 \mathrm{~g}$ ]) or patients receiving medical assistance (7).

In collaboration with ACOG, AAP, and a multidisciplinary panel of experts, CDC has developed two strategies (a screening approach and a nonscreening approach) for preventing perinatal GBS disease $(4,9,10)$. The screening approach specifies that all pregnant women should be screened at 35-37 weeks' gestation for GBS carriage, and all identified carriers and women who deliver preterm before availability of a culture result should be offered intrapartum antimicrobial prophylaxis. The nonscreening approach specifies that intrapartum antimicrobial agents should be offered to women with risk factors (e.g., those with elevated intrapartum temperature, membrane rupture $\geq 18$ hours, or premature onset of labor or rupture of membranes at $<37$ weeks). Copies of the guidelines and educational materials for prenatal patients are available from CDC's Division of Bacterial and Mycotic Diseases, National Center for Infectious Diseases, Mailstop C-23, 1600 Clifton Road NE, Atlanta, GA 30333, or from the WorldWide Web at http://www.cdc.gov/ncidod/diseases/bacter/strep_b.htm.

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## Notice to Readers

## Satellite Videoconference on Immunization

Immunization Update 1997, a live satellite videoconference, will be broadcast Thursday, September 11, 1997, from 8 a.m. to 10:30 a.m. eastern standard time (EST) with repeat broadcasts from 11 a.m. to 1:30 p.m. EST and from 2 p.m. to $4: 30$ p.m. EST. Cosponsors are CDC's National Immunization Program and the Public Health Training Network. This course is for primary-care physicians, pharmacists, and other healthcare professionals.

The course will feature information on new and combination vaccines, polio vaccine and global polio eradication, rotavirus vaccine, new recommendations from the Advisory Committee on Immunization Practices for measles, hepatitis B, pneumococcal and influenza vaccines, and assessment of vaccination levels in private practice.

Registration information is available from state or local health department vaccination programs. Continuing education credits will be awarded.

## Notice to Readers

## Satellite Videoconference on Hepatitis C

Hepatitis C: Diagnosis, Clinical Management, and Prevention, a live satellite videoconference, will be broadcast Saturday, November 22, 1997, from 8:30 to 11 a.m. eastern standard time (EST) and repeated from noon to 2:30 p.m. EST. Cosponsors are CDC, the Public Health Training Network, and the Hepatitis Foundation International. The course is for primary-care physicians, physician specialists, and other health-care professionals.

The course will feature practical information for counseling patients and for making patient-care decisions. Course participants will be able to interact with experts from private practice, CDC, National Institutes of Health, University of California at San Francisco, Veterans Administration Medical Center, and Columbia MetroWest Medical Center of Framingham, Massachusetts.

Registration information is available through the CDC fax information system, telephone (888) 232-3299 [CDC-FAXX], by requesting document number 130010. Continuing education credits will be awarded.

## Quarterly Immunization Table

To track progress toward achieving the goals of the Childhood Immunization Initiative (CII), CDC publishes quarterly a tabular summary of the number of cases of nationally notifiable diseases preventable by routine childhood vaccination reported during the previous quarter and year-to-date (provisional data). In addition, the table compares provisional data with final data for the previous year and highlights the number of reported cases among children aged $<5$ years, who are the primary focus of CII. Data in the table are reported through the National Electronic Telecommunications System for Surveillance (NETSS).

Number of reported cases of nationally notifiable diseases preventable by routine childhood vaccination - United States, January-March 1997 and 1996-1997*

| Disease | No. cases, JanuaryMarch 1997 | Total cases January-March |  | No. cases among children aged $<5$ years ${ }^{\dagger}$ January-March |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1996 | 1997 | 1996 | 1997 |
| Congenital rubella |  |  |  |  |  |
| syndrome | 2 | 1 | 2 | 1 | 2 |
| Diphtheria | 1 | 1 | 1 | 0 | 0 |
| Haemophilus influenzae§ | 256 | 301 | 256 | 71 | 53 |
| Hepatitis BI | 1865 | 2111 | 1865 | 14 | 59 |
| Measles | 19 | 67 | 19 | 9 | 12 |
| Mumps | 134 | 152 | 134 | 26 | 24 |
| Pertussis | 1100 | 662 | 1100 | 296 | 444 |
| Poliomyelitis, paralytic** | 0 | 3 | 0 | 2 | 0 |
| Rubella | 8 | 39 | 8 | 2 | 4 |
| Tetanus | 9 | 3 | 9 | 0 | 0 |

* Data for 1996 and 1997 are provisional.
${ }^{\dagger}$ 'For 1996 and 1997, age data were available for $\geq 95 \%$ of cases, except for 1996 age data for measles, which were available for $91 \%$ of cases.
§Invasive disease; H. influenzae serotype is not routinely reported to the National Notifiable Diseases Surveillance System. Of 53 cases among children aged $<5$ years, serotype was reported for 26 cases, and of those, 11 were type b, the only serotype of H. influenzae preventable by vaccination.
${ }^{1}$ Because most hepatitis B virus infections among infants and children aged $<5$ years are asymptomatic (although likely to become chronic), acute disease surveillance does not reflect the incidence of this problem in this age group or the effectiveness of hepatitis $B$ vaccination in infants.
**Two suspected cases with onset in 1996 and one with onset in 1995 remain under investigation.

FIGURE I. Selected notifiable disease reports, comparison of provisional 4-week totals ending May 24, 1997, with historical data - United States

*Ratio of current 4-week total to mean of 154 -week totals (from previous, comparable, and subsequent 4 -week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

## TABLE I. Summary - provisional cases of selected notifiable diseases, United States, cumulative, week ending May 24, 1997 (21st Week)

|  | Cum. 1997 |  | Cum. 1997 |
| :---: | :---: | :---: | :---: |
| Anthrax | - | Plague | 1 |
| Brucellosis | 16 | Poliomyelitis, paralytic | - |
| Cholera | 2 | Psittacosis | 15 |
| Congenital rubella syndrome | 2 | Rabies, human | 2 |
| Cryptosporidiosis* | 449 | Rocky Mountain spotted fever (RMSF) | 53 |
| Diphtheria | 4 | Streptococcal disease, invasive Group A | 555 |
| Encephalitis: California* | 4 | Streptococcal toxic-shock syndrome* | 13 |
| eastern equine* | - | Syphilis, congenital ${ }^{\text {d }}$ | 62 |
| St. Louis* | 1 | Tetanus | 12 |
| western equine* | - | Toxic-shock syndrome | 44 |
| Hansen Disease | 45 | Trichinosis | 3 |
| Hantavirus pulmonary syndrome* ${ }^{+1}$ | 4 | Typhoid fever | 103 |
| Hemolytic uremic syndrome, post-diarrheal* HIV infection, pediatric*§ | 17 92 | Yellow fever | - |

## :no reported cases

*Not notifiable in all states.
${ }^{\dagger}$ Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).
${ }^{\S}$ Updated monthly to the Division of HIV/AIDS Prevention-Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), last update April 29, 1997.
${ }^{4}$ Updated from reports to the Division of STD Prevention, NCHSTP.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending May 24, 1997, and May 25, 1996 (21st Week)

| Reporting Area | AIDS |  | Chlamydia |  | Escherichia coli 0157:H7 |  | Gonorrhea |  | Hepatitis C/NA,NB |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | NETSS ${ }^{\dagger}$ | PHLIS ${ }^{\text { }}$ |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & \text { 1997* } \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \end{aligned}$ |  |  | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \end{gathered}$ |
| UNITED STATES | 20,222 | 26,546 | 154,813 | 164,191 | 424 | 177 | 97,789 | 121,599 | 1,174 | 1,304 |
| NEW ENGLAND | 671 | 942 | 6,432 | 7,532 | 33 | 16 | 2,144 | 3,126 | 18 | 41 |
| Maine | 25 | 15 | 369 | U | 1 | - | 22 | 20 |  |  |
| N.H. | 8 | 31 | 277 | 293 | 2 | - | 50 | 59 | 3 | 2 |
| Vt . | 16 | 9 | 158 | 176 | 2 | 1 | 21 | 25 | - | 12 |
| Mass. | 282 | 549 | 2,805 | 2,665 | 24 | 15 | 893 | 865 | 13 | 24 |
| R.I. | 55 | 61 | 845 | 847 | 1 | - | 198 | 214 | 2 | 3 |
| Conn. | 285 | 277 | 1,978 | 3,551 | 3 | - | 960 | 1,943 | - | - |
| MID. ATLANTIC | 6,683 | 7,577 | 18,485 | 28,611 | 32 | 4 | 11,041 | 17,169 | 134 | 108 |
| Upstate N.Y. | 1,143 | 794 | N | N | 19 | 3 | 2,058 | 2,744 | 106 | 86 |
| N.Y. City | 3,308 | 4,474 | 9,220 | 15,210 | 5 | - | 4,219 | 6,660 | - | 2 |
| N.J. | 1,444 | 1,414 | 2,856 | 5,887 | 8 | - | 1,640 | 3,634 | - | - |
| Pa. | 788 | 895 | 6,409 | 7,514 | N | 1 | 3,124 | 4,131 | 28 | 20 |
| E.N. CENTRAL | 1,416 | 2,208 | 23,932 | 36,039 | 71 | 25 | 14,372 | 23,251 | 237 | 212 |
| Ohio | 270 | 487 | 5,455 | 8,195 | 22 | 10 | 3,499 | 5,734 | 7 | 4 |
| Ind. | 302 | 306 | 3,316 | 3,891 | 13 | 5 | 2,307 | 2,643 | 5 | 6 |
| III. | 509 | 980 | 4,540 | 10,240 | 16 | - | 2,225 | 6,760 | 20 | 51 |
| Mich. | 259 | 318 | 7,672 | 9,285 | 20 | 2 | 5,073 | 6,165 | 205 | 151 |
| Wis. | 76 | 117 | 2,949 | 4,428 | N | 8 | 1,268 | 1,949 | - | - |
| W.N. CENTRAL | 383 | 570 | 8,959 | 13,242 | 54 | 39 | 4,250 | 6,656 | 68 | 28 |
| Minn. | 79 | 125 | U | 2,293 | 29 | 20 | U | 1,659 | 2 | - |
| lowa | 59 | 43 | 1,895 | 1,624 | 12 | 8 | 488 | 428 | 16 | 10 |
| Mo. | 150 | 232 | 4,436 | 5,595 | 5 | 8 | 2,994 | 3,390 | 32 | 10 |
| N. Dak. | 4 | 5 | 339 | 425 | 3 | 2 | 23 | 12 | 2 | - |
| S. Dak. | 2 | 7 | 473 | 565 | 1 | - | 47 | 80 | - | - |
| Nebr. | 35 | 39 | 374 | 810 | 2 | - | 115 | 166 | 1 | 4 |
| Kans. | 54 | 119 | 1,442 | 1,930 | 2 | 1 | 583 | 921 | 15 | 4 |
| S. ATLANTIC | 4,846 | 6,549 | 32,725 | 22,227 | 51 | 13 | 32,207 | 38,350 | 107 | 71 |
| Del. | 69 | 142 | - | - | 1 | 1 | 443 | 588 | - | - |
| Md. | 576 | 847 | 2,857 | 2,519 | 2 | 1 | 5,266 | 5,176 | 6 | 1 |
| D.C. | 282 | 431 | N | N | - | - | 1,319 | 62 | - | - |
| Va . | 421 | 359 | 4,297 | 4,790 | N | 5 | 3,220 | 3,892 | 8 | 7 |
| W. Va. | 27 | 50 | 1,387 | 849 | N | - | 398 | 276 | 5 | 6 |
| N.C. | 281 | 280 | 6,743 | U | 14 | 6 | 6,322 | 7,785 | 23 | 19 |
| S.C. | 270 | 344 | 4,751 | U | 1 | - | 4,236 | 4,581 | 18 | 14 |
| Ga. | 683 | 868 | 3,482 | 4,735 | 15 | - | 4,551 | 8,850 | U |  |
| Fla. | 2,237 | 3,228 | 9,208 | 9,287 | 18 | - | 6,452 | 7,140 | 47 | 24 |
| E.S. CENTRAL | 609 | 870 | 12,948 | 12,146 | 34 | 7 | 12,814 | 12,675 | 150 | 252 |
| Ky. | 60 | 152 | 2,674 | 2,833 | 10 | - | 1,628 | 1,685 | 7 | 12 |
| Tenn. | 285 | 310 | 5,013 | 5,179 | 18 | 7 | 4,211 | 4,449 | 88 | 207 |
| Ala. | 151 | 276 | 3,071 | 3,525 | 3 | - | 4,350 | 5,386 | 5 | 1 |
| Miss. | 113 | 132 | 2,190 | 609 | 3 | - | 2,625 | 1,155 | 50 | 32 |
| W.S. CENTRAL | 2,040 | 2,638 | 19,688 | 8,623 | 24 | 4 | 13,129 | 8,156 | 126 | 148 |
| Ark. | 83 | 121 | 474 | 656 | 2 | 1 | 986 | 1,639 | - | 3 |
| La. | 385 | 649 | 3,194 | 2,744 | 3 | 3 | 3,029 | 2,932 | 79 | 67 |
| Okla. | 116 | 100 | 2,983 | 2,790 | 1 | - | 1,866 | 1,757 | 4 | 43 |
| Tex. | 1,456 | 1,768 | 13,037 | 2,433 | 18 | - | 7,248 | 1,828 | 43 | 35 |
| MOUNTAIN | 601 | 785 | 9,689 | 6,332 | 44 | 25 | 2,886 | 3,143 | 147 | 269 |
| Mont. | 16 | 10 | 311 | 513 | 3 | - | 14 | 13 | 5 | 9 |
| Idaho | 18 | 10 | 590 | 642 | 10 | 1 | 44 | 36 | 20 | 67 |
| Wyo. | 11 | 2 | 211 | 295 | 3 | - | 24 | 13 | 57 | 85 |
| Colo. | 156 | 245 | 1,733 | 8 | 16 | 8 | 751 | 712 | 18 | 25 |
| N. Mex. | 58 | 45 | 1,421 | 1,595 | 4 | 3 | 534 | 358 | 27 | 34 |
| Ariz. | 158 | 233 | 3,694 | 1,469 | N | 10 | 1,142 | 1,536 | 15 | 28 |
| Utah | 41 | 85 | 674 | 624 | 5 | - | 88 | 122 | 2 | 11 |
| Nev. | 143 | 155 | 1,055 | 1,186 | 3 | 3 | 289 | 353 | 3 | 10 |
| PACIFIC | 2,973 | 4,407 | 21,955 | 29,439 | 81 | 41 | 4,946 | 9,073 | 187 | 175 |
| Wash. | 241 | 309 | 3,716 | 4,094 | 17 | 4 | 799 | 941 | 10 | 26 |
| Oreg. | 128 | 223 | 1,410 | 2,250 | 26 | 15 | 217 | 201 | 4 | 3 |
| Calif. | 2,570 | 3,784 | 15,675 | 22,004 | 35 | 19 | 3,582 | 7,534 | 109 | 63 |
| Alaska | 12 | 11 | 551 | 374 | 3 | - | 181 | 188 | - | 2 |
| Hawaii | 22 | 80 | 603 | 717 | N | 3 | 167 | 209 | 64 | 81 |
| Guam | 2 | 3 | 31 | 176 | N | - | 3 | 29 | - | 5 |
| P.R. | 520 | 423 | N | N | 21 | U | 248 | 121 | 43 | 13 |
| V.I. | 29 | 9 | N | N | N | U | - | - | - | - |
| Amer. Samoa |  | - |  | - | N | U | - | - | - |  |
| C.N.M.I. | - | - | N | N | N | U | 11 | 11 | 2 | - |
| N : Not notifiable | U: Unavailable $\quad-:$ no reported cases |  |  |  | C.N.M.I.: Commonwealth of Northern Mariana Islands |  |  |  |  |  |
| *Updated monthly to the Division of HIV/AIDS Prevention-Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention,last update April 29,1997 .$\dagger$ National Electronic Telecommunications System for Surveillance.§Public Health Laboratory Information System. |  |  |  |  |  |  |  |  |  |  |

TABLE II. (Cont'd.) Provisional cases of selected notifiable diseases, United States,
weeks ending May 24, 1997, and May 25, 1996 (21st Week)

| Reporting Area | Legionellosis |  | Lyme Disease |  | Malaria |  | Syphilis <br> (Primary \& Secondary) |  | Tuberculosis |  | Rabies, Animal <br> Cum. <br> 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1996 \end{aligned}$ | $\begin{gathered} \text { Cum. } \\ 1997 \end{gathered}$ | $\begin{aligned} & \text { Cum. } \\ & 1996 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { Cum. } \\ 1996 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1996 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1996 \end{aligned}$ |  |
| UNITED STATES | 324 | 295 | 1,039 | 1,584 | 455 | 456 | 3,219 | 4,709 | 5,450 | 6,908 | 2,820 |
| NEW ENGLAND | 24 | 15 | 222 | 173 | 14 | 14 | 62 | 74 | 135 | 206 | 429 |
| Maine | 1 | 1 | 3 | 2 | 1 | 3 | - | - | 2 | 8 | 92 |
| N.H. | 4 | - | 5 | 3 | 1 | 1 | - | 1 | 1 | 4 | 19 |
| Vt. | 3 | 2 | 3 | - | 1 | 2 | - | - | 2 | - | 69 |
| Mass. | 8 | 6 | 51 | 16 | 9 | 5 | 35 | 31 | 84 | 58 | 86 |
| R.I. | 4 | 6 | 34 | 21 | 2 | 3 | - | - | 13 | 20 | 8 |
| Conn. | 4 | N | 126 | 131 | - | - | 27 | 42 | 33 | 116 | 155 |
| MID. ATLANTIC | 54 | 66 | 636 | 1,234 | 110 | 136 | 149 | 209 | 1,203 | 1,182 | 616 |
| Upstate N.Y. | 11 | 14 | 95 | 591 | 22 | 28 | 14 | 24 | 158 | 128 | 452 |
| N.Y. City | - | 4 | 6 | 64 | 55 | 73 | 33 | 68 | 641 | 613 | - |
| N.J. | 7 | 7 | 139 | 144 | 24 | 26 | 61 | 72 | 241 | 267 | 59 |
| Pa. | 36 | 41 | 396 | 435 | 9 | 9 | 41 | 45 | 163 | 174 | 105 |
| E.N. CENTRAL | 119 | 107 | 20 | 16 | 30 | 59 | 282 | 786 | 636 | 741 | 50 |
| Ohio | 68 | 38 | 16 | 9 | 4 | 6 | 99 | 309 | 136 | 109 | 39 |
| Ind. | 15 | 27 | 4 | 5 | 3 | 4 | 67 | 108 | 57 | 76 | 5 |
| III. | - | 14 | - | 2 | 5 | 29 | 24 | 212 | 296 | 407 | 2 |
| Mich. | 31 | 18 | - | - | 15 | 11 | 45 | 71 | 102 | 116 | 3 |
| Wis. | 5 | 10 | U | U | 3 | 9 | 47 | 86 | 45 | 33 | 1 |
| W.N. CENTRAL | 30 | 18 | 11 | 42 | 13 | 11 | 53 | 185 | 188 | 197 | 164 |
| Minn. | 1 | 1 | 9 | 1 | 5 | 3 | U | 22 | 48 | 48 | 16 |
| lowa | 7 | 2 | - | 5 | 5 | 1 | 3 | 13 | 20 | 23 | 66 |
| Mo. | 6 | 4 | - | 17 | 2 | 5 | 33 | 134 | 81 | 76 | 8 |
| N. Dak. | 2 | - | - | - | - | - | - | - | 4 | 2 | 22 |
| S. Dak. | 1 | 2 | - | - | - | - | - | - | 2 | 13 | 17 |
| Nebr. | 9 | 7 | 2 | - | 1 | - | 1 | 6 | 4 | 13 | 1 |
| Kans. | 4 | 2 | - | 19 | - | 2 | 16 | 10 | 29 | 22 | 34 |
| S. ATLANTIC | 50 | 32 | 99 | 60 | 114 | 73 | 1,320 | 1,546 | 1,160 | 1,260 | 1,205 |
| Del. | 4 | 2 | - | 32 | 2 | 2 | 11 | 16 | 7 | 22 | 28 |
| Md. | 16 | 5 | 73 | 6 | 33 | 21 | 340 | 252 | 118 | 101 | 212 |
| D.C. | 2 | 1 | 5 | 1 | 6 | 3 | 41 | 8 | 35 | 54 | 2 |
| Va . | 8 | 10 | - | - | 22 | 8 | 116 | 199 | 111 | 118 | 253 |
| W. Va. | - | 1 | - | 3 | - | 1 | 1 | 2 | 21 | 23 | 31 |
| N.C. | 5 | 3 | 7 | 12 | 6 | 8 | 291 | 440 | 132 | 158 | 374 |
| S.C. | 2 | 3 | 1 | 2 | 7 | 3 | 168 | 186 | 125 | 141 | 57 |
| Ga. | - | - | 1 | - | 12 | 8 | 229 | 286 | 215 | 262 | 112 |
| Fla. | 13 | 7 | 12 | 4 | 26 | 19 | 123 | 157 | 396 | 381 | 136 |
| E.S. CENTRAL | 10 | 18 | 25 | 22 | 13 | 13 | 755 | 1,146 | 444 | 534 | 107 |
| Ky. | - | 2 | 2 | 6 | 2 | 3 | 68 | 60 | 79 | 96 | 11 |
| Tenn. | 5 | 8 | 10 | 6 | 4 | 5 | 322 | 379 | 120 | 169 | 69 |
| Ala. | 1 | 1 | 2 | 1 | 4 | 2 | 195 | 236 | 170 | 180 | 27 |
| Miss. | 4 | 7 | 11 | 9 | 3 | 3 | 170 | 471 | 75 | 89 | - |
| W.S. CENTRAL | 4 | 2 | 4 | 7 | 5 | 11 | 443 | 479 | 140 | 760 | 117 |
| Ark. | - | - | - | 4 | 1 | - | 29 | 120 | 80 | 73 | 19 |
| La. | 1 | - | 1 | - | 4 | 1 | 163 | 223 | - | 3 | 1 |
| Okla. | - | 2 | 2 | 2 | - | - | 51 | 62 | 60 | 62 | 50 |
| Tex. | 3 | - | 1 | 1 | - | 10 | 200 | 74 | U | 622 | 47 |
| MOUNTAIN | 18 | 17 | 2 | - | 29 | 26 | 65 | 58 | 211 | 224 | 37 |
| Mont. | 1 | 1 | - | - | 2 | 2 | - | - | 2 | 7 | 6 |
| Idaho | 2 | - | - | - | - | - | - | 1 | 4 | 4 | - |
| Wyo. | 1 | 2 | 1 | - | 1 | 2 | - | 1 | 2 | 3 | 12 |
| Colo. | 3 | 6 | - | - | 14 | 13 | 2 | 17 | 44 | 41 | - |
| N. Mex. | 1 | - | - | - | 4 | 1 | - | - | 8 | 34 | 3 |
| Ariz. | 5 | 4 | 1 | - | 4 | 3 | 54 | 35 | 97 | 91 | 15 |
| Utah | 4 | 1 | - | - | 1 | 3 | 3 | 35 | 10 | 10 |  |
| Nev. | 1 | 3 | - | - | 3 | 2 | 6 | 4 | 44 | 34 | 1 |
| PACIFIC | 15 | 20 | 20 | 30 | 127 | 113 | 90 | 226 | 1,333 | 1,804 | 95 |
| Wash. | 4 | 1 | - | 1 | 8 | 7 | 6 | 2 | 82 | 107 | - |
| Oreg. | - | - | 8 | 9 | 8 | 8 | 3 | 4 | 58 | 72 | 1 |
| Calif. | 10 | 19 | 12 | 19 | 107 | 93 | 79 | 219 | 1,090 | 1,522 | 81 |
| Alaska | - | - | - | - | 2 | 1 | 1 | - | 36 | 39 | 13 |
| Hawaii | 1 | - | - | 1 | 2 | 4 | 1 | 1 | 67 | 64 | - |
| Guam | - | - | - | - | - | - | - | 3 | 5 | 45 | - |
| P.R. | - | - | - | - | 3 | - | 88 | 52 | 88 | 58 | 25 |
| V.I. | - | - | - | - | - | - | - | - | - | - | - |
| Amer. Samoa | - | - | - | - | - | - | - | - | - | - | - |
| C.N.M.I. | - | - | - | - | - | - | 4 | 1 | - | - | - |

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending May 24, 1997,
and May 25, 1996 (21st Week)

| Reporting Area | H. influenzae, invasive |  | Hepatitis (Viral), by type |  |  |  | Measles (Rubeola) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A |  | B |  | Indigenous |  | Imported ${ }^{\dagger}$ |  | Total |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & \text { 1997* } \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \\ \hline \end{gathered}$ | 1997 | $\begin{gathered} \hline \text { Cum. } \\ 1997 \\ \hline \end{gathered}$ | 1997 | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \end{aligned}$ |
| UNITED STATES | 460 | 503 | 10,740 | 10,668 | 3,282 | 3,644 | 1 | 31 | - | 14 | 45 | 168 |
| NEW ENGLAND | 26 | 11 | 233 | 130 | 72 | 86 | - | - | - | - | - | 6 |
| Maine | 3 | - | 35 | 10 | 5 | 2 | - | - | - | - | - | - |
| N.H. | 2 | 6 | 16 | 4 | 5 | 6 | U | - | U | - | - | - |
| Vt. | - | - | 6 | 3 | 1 | 5 | - | - | - | - | - | 1 |
| Mass. | 18 | 5 | 101 | 64 | 42 | 21 | - | - | - | - | - | 4 |
| R.I. | 2 | - | 22 | 4 | 8 | 5 | - | - | - | - | - | - |
| Conn. | 1 | - | 53 | 45 | 11 | 47 | - | - | - | - | - | 1 |
| MID. ATLANTIC | 53 | 99 | 779 | 712 | 443 | 602 | - | 7 | - | 4 | 11 | 12 |
| Upstate N.Y. | 4 | 24 | 101 | 152 | 89 | 135 | - | 1 | - | 3 | 4 | 4 |
| N.Y. City | 17 | 23 | 274 | 250 | 144 | 232 | - | 4 | - | 1 | 5 | 7 |
| N.J. | 23 | 30 | 146 | 152 | 104 | 120 | - | 1 | - | - | 1 | - |
| Pa. | 9 | 22 | 258 | 158 | 106 | 115 | - | 1 | - | - | 1 | 1 |
| E.N. CENTRAL | 64 | 87 | 1,152 | 1,024 | 364 | 454 | - | 4 | - | 2 | 6 | 12 |
| Ohio | 41 | 49 | 173 | 408 | 39 | 51 | - | - | - | - | - | 2 |
| Ind. | 5 | 3 | 124 | 137 | 35 | 61 | - | - | - | - | - | - |
| III. | 11 | 25 | 228 | 236 | 78 | 132 | - | 4 | - | 1 | 5 | 2 |
| Mich. | 6 | 5 | 564 | 148 | 198 | 171 | - |  | - | 1 | 1 | 2 |
| Wis. | 1 | 5 | 63 | 95 | 14 | 39 | - | - | - | - | - | 6 |
| W.N. CENTRAL | 20 | 17 | 779 | 820 | 207 | 184 | - | 9 | - | 1 | 10 | 15 |
| Minn. | 12 | 10 | 69 | 37 | 18 | 13 | - | - | - | 1 | 1 | 14 |
| lowa | 2 | 2 | 104 | 171 | 29 | 21 | - | - | - | - | - | - |
| Mo. | 2 | 3 | 408 | 401 | 136 | 118 | - | 1 | - | - | 1 | 1 |
| N. Dak. | - | - | 7 | 22 | 1 |  | U | - | U | - | - | - |
| S. Dak. | 2 | 1 | 12 | 35 | - | - | - | 8 | - | - | 8 | - |
| Nebr. | 1 | 1 | 56 | 97 | 9 | 14 | - | - | - | - | - | - |
| Kans. | 1 | - | 123 | 57 | 14 | 18 | - | - | - | - | - | - |
| S. ATLANTIC | 104 | 92 | 649 | 386 | 470 | 456 | 1 | 1 | - | 2 | 3 | 4 |
| Del. | - | 1 | 11 | 5 | 2 | 2 | - | - | - | - | - | 1 |
| Md. | 38 | 31 | 118 | 84 | 72 | 70 | - | - | - | 1 | 1 | - |
| D.C. | 2 | 4 | 13 | 15 | 18 | 15 | - | - | - | 1 | 1 | - |
| Va . | 6 | 4 | 73 | 61 | 45 | 62 | - | - | - | - | - | 2 |
| W. Va. | 3 | 4 | 5 | 10 | 6 | 11 | - | - | - | - | - | - |
| N.C. | 14 | 14 | 90 | 49 | 93 | 129 | - | - | - | - | - | - |
| S.C. | 4 | 3 | 54 | 29 | 42 | 38 | - | - | - | - | - | - |
| Ga . | 17 | 26 | 117 | 15 | 47 | 7 | - | - | - | - | - | - |
| Fla. | 20 | 5 | 168 | 118 | 145 | 122 | 1 | 1 | - | - | 1 | 1 |
| E.S. CENTRAL | 32 | 17 | 313 | 713 | 290 | 342 | - | - | - | - | - | - |
| Ky. | 5 | 4 | 29 | 14 | 14 | 35 | - | - | - | - | - | - |
| Tenn. | 19 | 7 | 203 | 509 | 179 | 207 | - | - | - | - | - | - |
| Ala. | 8 | 5 | 46 | 94 | 29 | 22 | - | - | - | - | - | - |
| Miss. | - | 1 | 35 | 96 | 68 | U | U | - | U | - | - | - |
| W.S. CENTRAL | 23 | 19 | 2,293 | 1,721 | 412 | 321 | - | 3 | - | 1 | 4 | 2 |
| Ark. | 1 | - | 121 | 214 | 22 | 35 | - | - | - | - | - | - |
| La. | 3 | 1 | 84 | 53 | 45 | 46 | - | - | - | - | - | - |
| Okla. | 14 | 17 | 705 | 772 | 11 | 19 | - | - | - | - | - | - |
| Tex. | 5 | 1 | 1,383 | 682 | 334 | 221 | - | 3 | - | 1 | 4 | 2 |
| MOUNTAIN | 42 | 27 | 1,675 | 1,665 | 376 | 454 | - | 2 | - | - | 2 | 15 |
| Mont. | - | - | 46 | 53 | 5 | 4 | - | - | - | - | - | - |
| Idaho | 1 | 1 | 72 | 122 | 13 | 54 | - | - | - | - | - | 1 |
| Wyo. | - | - | 18 | 18 | 20 | 14 | - | - | - | - | - | - |
| Colo. | 6 | 5 | 191 | 157 | 77 | 55 | - | - | - | - | - | 4 |
| N. Mex. | 3 | 7 | 119 | 208 | 133 | 150 | - | - | - | - | - | - |
| Ariz. | 13 | 9 | 817 | 571 | 73 | 102 | - | 2 | - | - | 2 | 3 |
| Utah | 3 | 5 | 307 | 388 | 38 | 52 | - |  | - | - | 2 | 3 |
| Nev. | 16 | - | 105 | 148 | 17 | 23 | U | - | U | - | - | 4 |
| PACIFIC | 96 | 134 | 2,867 | 3,497 | 648 | 745 | - | 5 | - | 4 | 9 | 102 |
| Wash. | 1 | 1 | 220 | 220 | 27 | 46 | - |  | - | - | - | 30 |
| Oreg. | 19 | 19 | 160 | 499 | 50 | 51 | - | - |  | - | - | 4 |
| Calif. | 70 | 110 | 2,413 | 2,711 | 553 | 645 | U | 2 | U | 4 | 6 | 3 |
| Alaska | 1 | 2 | 16 | 28 | 12 | 1 | - | - | - | - | - | 63 |
| Hawaii | 5 | 2 | 58 | 39 | 6 | 2 | - | 3 | - | - | 3 | 2 |
| Guam | - | - | - | 3 | 1 | , | U | - | U | - | - | - |
| P.R. | - | - | 152 | 24 | 531 | 82 | U | - | U | - | - | 2 |
| V.I. | - | - |  |  | , |  | U | - | U | - | - | 2 |
| Amer. Samoa | - | - | , | , | - | - | U | - | U | - | - | - |
| C.N.M.I. | 4 | 10 | 1 | 1 | 19 | 5 | U | 1 | U | - | 1 | - |
| N : Not notifiable | U: Un | ailable | -: no | orted c |  |  |  |  |  |  |  |  |

TABLE III. (Cont'd.) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending May 24, 1997, and May 25, 1996 (21st Week)

| Reporting Area | Meningococcal Disease |  | Mumps |  |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | 1997 | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | 1997 | $\begin{gathered} \hline \text { Cum. } \\ 1997 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | 1997 | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \end{aligned}$ |
| UNITED STATES | 1,645 | 1,533 | 5 | 264 | 285 | 30 | 2,004 | 1,337 | 1 | 21 | 85 |
| NEW ENGLAND | 99 | 57 | - | 7 | - | 1 | 448 | 236 | - | - | 11 |
| Maine | 9 | 8 | - | - | - | - | 6 | 10 | - | - | - |
| N.H. | 9 | 1 | U | - | - | U | 57 | 16 | U | - | - |
| Vt. | 2 | 3 | - | - | - | - | 159 | 7 | U | - | 2 |
| Mass. | 54 | 20 | - | 2 | - | 1 | 209 | 200 | - | - | 7 |
| R.I. | 7 | 5 | - | 4 | - | - | 12 |  | - | - |  |
| Conn. | 18 | 20 | - | 1 | - | - | 5 | 3 | - | - | 2 |
| MID. ATLANTIC | 140 | 149 | - | 24 | 39 | - | 140 | 92 | - | 1 | 5 |
| Upstate N.Y. | 37 | 38 | - | 4 | 9 | - | 52 | 49 | - | - | 3 |
| N.Y. City | 24 | 26 | - | - | 11 | - | 19 | 14 | - | 1 | 1 |
| N.J. | 31 | 34 | - | - | 2 | - | 5 | 4 | - | - | 1 |
| Pa . | 48 | 51 | - | 20 | 17 | - | 64 | 25 | - | - | - |
| E.N. CENTRAL | 223 | 233 | 2 | 29 | 74 | 1 | 154 | 199 | - | 2 | 3 |
| Ohio | 94 | 78 | - | 12 | 26 | 1 | 63 | 66 | - | - | - |
| Ind. | 25 | 32 | - | 4 | 5 | - | 22 | 12 | - | - | - |
| III. | 67 | 71 | - | 7 | 14 | - | 23 | 53 | - | - | 1 |
| Mich. | 19 | 26 | 2 | 6 | 28 | - | 26 | 11 | - | - | 2 |
| Wis. | 18 | 26 | - | - | 1 | - | 20 | 57 | - | 2 | - |
| W.N. CENTRAL | 120 | 119 | 1 | 9 | 4 | 2 | 108 | 58 | - | - | - |
| Minn. | 12 | 14 | - | 3 | 1 | 2 | 67 | 38 | - | - | - |
| Iowa | 25 | 25 | 1 | 4 | - | - | 15 | 2 | - | - | - |
| Mo. | 62 | 49 | - | - | 1 | - | 16 | 11 | - | - | - |
| N. Dak. | 1 | 2 | U | - | 2 | U | 2 | - | U | - | - |
| S. Dak. | 4 | 3 | - | - | - | - | 1 | 1 | - | - | - |
| Nebr. | 5 | 12 | - | 2 | - | - | 2 | 2 | - | - | - |
| Kans. | 11 | 14 | - | - | - | - | 5 | 4 | - | - | - |
| S. ATLANTIC | 299 | 236 | - | 39 | 33 | 4 | 182 | 120 | - | 2 | 12 |
| Del. | 4 | 2 | - | - | - | - | - | 11 | - | - | - |
| Md. | 31 | 26 | - | 4 | 15 | 1 | 68 | 52 | - | - | - |
| D.C. | 1 | 3 | - | - | - | - | 2 | - | - | - | 1 |
| Va . | 27 | 28 | - | 4 | 3 | - | 19 | 5 | - | 1 | - |
| W. Va. | 10 | 10 | - | - | - | - | 3 | 2 | - | - | - |
| N.C. | 49 | 36 | - | 6 | - | - | 35 | 24 | - | - | - |
| S.C. | 39 | 33 | - | 9 | 5 | - | 8 | 1 | - | 1 | 1 |
| Ga. | 58 | 72 | - | 4 | 2 | 1 | 7 | 7 | - | - | - |
| Fla. | 80 | 26 | - | 12 | 8 | 2 | 40 | 18 | - | - | 10 |
| E.S. CENTRAL | 128 | 118 | - | 15 | 11 | 1 | 37 | 127 | - | - | - |
| Ky. | 32 | 17 | - | 2 | - | - | 2 | 110 | - | - | - |
| Tenn. | 48 | 35 | - | 4 | 1 | - | 16 | 11 | - | - | - |
| Ala. | 32 | 34 | - | 5 | 3 | 1 | 11 | 3 | - | - | - |
| Miss. | 16 | 32 | U | 4 | 7 | U | 8 | 3 | U | - | N |
| W.S. CENTRAL | 168 | 175 | 1 | 29 | 23 | - | 31 | 42 | 1 | 4 | 7 |
| Ark. | 23 | 24 | - | - | - | - | 5 | 2 | - | - | - |
| La. | 29 | 35 | - | 7 | 9 | - | 7 | 4 | - | - | 1 |
| Okla. | 21 | 14 | - | - | - | - | 5 | 4 | - | - | - |
| Tex. | 95 | 102 | 1 | 22 | 14 | - | 14 | 32 | 1 | 4 | 6 |
| MOUNTAIN | 101 | 90 | - | 34 | 13 | 19 | 617 | 153 | - | 2 | 5 |
| Mont. | 7 | 3 | - | - | - | - | 5 | 5 | - | - | - |
| Idaho | 7 | 12 | - | 2 | - | 12 | 462 | 56 | - | - | 2 |
| Wyo. | - | - | - | 1 | - | 1 | 4 |  | - | - | - |
| Colo. | 29 | 15 | N | 3 | 1 | 3 | 107 | 26 | - | - | 1 |
| N. Mex. | 17 | 18 | N | N | N | 2 | 24 | 27 | - | - | - |
| Ariz. | 23 | 25 | - | 22 | 1 | 1 | 10 | 11 | - | 2 | 1 |
| Utah | 12 | 9 | - | 4 | 2 | - | 3 | 5 | - | - | 1 |
| Nev. | 6 | 8 | U | 2 | 9 | U | 2 | 23 | U | - | 1 |
| PACIFIC | 367 | 356 | 1 | 78 | 88 | 2 | 287 | 310 | - | 10 | 42 |
| Wash. | 48 | 48 | 1 | 10 | 8 | 2 | 154 | 136 | - | - | 7 |
| Oreg. | 79 | 67 | - | 1 | - | - | 15 | 28 | - | - | 1 |
| Calif. | 237 | 235 | U | 56 | 65 | U | 111 | 135 | U | 5 | 32 |
| Alaska | 1 | 4 | - | 2 | 2 | - | 1 | 1 | - | - |  |
| Hawaii | 2 | 2 | - | 9 | 13 | - | 6 | 10 | - | 5 | 2 |
| Guam | - | 1 | U | 1 | 4 | U | - | - | U | - | - |
| P.R. | 8 | 2 | - | 4 | 1 | - | - | - | - | - | - |
| V.I. | - | - | U | - | - | U | - | - | U | - | - |
| Amer. Samoa | - | - | U | - | - | U | - | - | U | - | - |
| C.N.M.I. | - | - | U | 1 | - | U | - | - | U | - | - |

TABLE IV. Deaths in 122 U.S. cities,* week ending
May 24, 1997 (21st Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{aligned} & \text { P\&I }{ }^{\dagger} \\ & \text { Total } \end{aligned}$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\& ${ }^{\dagger}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Ages | >65 | 45-64 | 25-44 | 1-24 | <1 |  |  | All Ages | >65 | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 515 | 366 | 95 | 37 | 10 | 7 | 35 | S. ATLANTIC | 1,229 | 812 | 264 | 111 | 27 | 15 | 74 |
| Boston, Mass. | 125 | 82 | 25 | 8 | 8 | 2 | 7 | Atlanta, Ga. | 168 | 107 | 40 | 15 | 5 | 1 | 12 |
| Bridgeport, Conn. | 31 | 25 | 1 | 4 |  | 1 | 1 | Baltimore, Md. | 144 | 102 | 24 | 15 | 2 | 1 | 8 |
| Cambridge, Mass. | 13 | 10 | 1 | 2 |  |  | 1 | Charlotte, N.C. | 60 | 45 | 7 | 6 |  | 2 | 4 |
| Fall River, Mass. | 21 | 15 | 5 | 1 | - | - | 3 | Jacksonville, Fla. | 146 | 92 | 34 | 15 | 4 | 1 | 7 |
| Hartford, Conn. | 22 | 18 | 3 | 1 | - | - |  | Miami, Fla. | 94 | 52 | 26 | 12 | 3 | 1 |  |
| Lowell, Mass. | 23 | 17 | 2 | 4 | - | - | - | Norfolk, Va. | 73 | 43 | 18 | 7 | 4 | 1 | 5 |
| Lynn, Mass. | 19 | 16 | 3 | - | - | - | - | Richmond, Va. | 87 | 56 | 21 | 7 | 3 | - | 9 |
| New Bedford, Mass. | 19 | 17 | 1 | 1 |  |  |  | Savannah, Ga. | 48 | 37 | 8 | 2 | 1 |  | 8 |
| New Haven, Conn. | 46 | 31 | 7 | 6 | 1 | 1 | 2 | St. Petersburg, Fla. | 56 | 42 | 8 | 5 | - | 1 | 4 |
| Providence, R.I. | 42 | 23 | 15 | 3 | 1 | - | 3 | Tampa, Fla. | 191 | 135 | 40 | 10 | 3 | 3 | 12 |
| Somerville, Mass. | 10 | 6 | 4 | - | - | $\overline{-}$ |  | Washington, D.C. | 151 | 90 | 38 | 17 | 2 | 4 | 5 |
| Springfield, Mass. | 43 | 37 | 5 | - |  | 1 | 3 | Wilmington, Del. | 11 | 11 | - | - |  |  | - |
| Waterbury, Conn. | 58 | 38 | 15 | 4 |  | 1 | 5 |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 43 | 31 | 8 | 3 | - | 1 | 10 | E.S. CENTRAL <br> Birmingham, Ala. | $\begin{aligned} & 842 \\ & 180 \end{aligned}$ | 580 131 | $\begin{array}{r} 173 \\ 34 \end{array}$ | 60 10 | 16 3 | 13 2 | 43 6 |
| MID. ATLANTIC | 2,339 | 1,585 | 473 | 192 | 45 | 44 | 123 | Chattanooga, Tenn. | 45 | 34 | 7 | 2 | 1 | 1 | 1 |
| Albany, N.Y. | 44 | 28 | 11 | 3 | 2 | - | 4 | Knoxville, Tenn. | 97 | 70 | 21 | 3 | 2 | 1 | 5 |
| Allentown, Pa. | 14 | 9 | 5 | - |  | - | 1 | Lexington, Ky. | 71 | 52 | 14 | 4 |  | 1 | 12 |
| Buffalo, N.Y. | 54 | 36 | 10 | 4 | 1 | 3 | 1 | Memphis, Tenn. | 153 | 96 | 34 | 15 | 4 | 4 | 14 |
| Camden, N.J. | 37 | 22 | 10 | 3 | 1 | 1 | 5 | Mobile, Ala. | 125 | 82 | 29 | 9 | 2 | 3 | - |
| Elizabeth, N.J. | 20 | 13 | 3 | 3 | 1 | - | - | Montgomery, Ala. | 35 | 25 | 5 | 4 | 1 |  |  |
| Erie, Pa. | 41 | 32 | 7 | 2 | - | - | 3 | Nashville, Tenn. | 136 | 90 | 29 | 13 | 3 | 1 | 5 |
| Jersey City, N.J. | 41 | 28 | 8 | 3 | , | 7 | 2 |  |  |  |  |  |  |  |  |
| New York City, N.Y. | 1,172 | 782 | 246 | 108 | 19 | 17 | 47 | W.S. CENTRAL Austin, Tex. | 1,343 66 | 890 39 | 238 | 123 6 | 48 | 44 | 85 |
| Newark, N.J. | 45 | 24 | 7 | 7 | 5 | 2 | - | Austin, Tex. | 66 25 | 39 14 | 15 5 | 6 3 | 3 | 3 | 1 |
| Paterson, N.J. | 25 | 17 | 76 |  | 2 9 | 8 |  | Baton Rouge, La. Corpus Christi, Tex. | 25 44 | 14 33 | 5 4 | 3 3 | 3 | 1 | 5 |
| Philadelphia, Pa. | 400 | 272 | 76 | 35 | 9 | 8 | 25 | Corpus Christi, Tex. Dallas, Tex. | 44 172 | 117 | 4 3 | 11 | 3 | 3 | 5 6 |
| Pittsburgh, Pa.§ | 76 | 50 | 13 | 6 | 1 | 6 | 5 | Dallas, Tex. El Paso, Tex. | 171 | 117 50 | 35 11 | 13 | 5 | 2 | 6 3 |
| Reading, Pa. Rochester, | 9 135 | 88 | 1 29 | 11 | 2 | 1 | 10 | El Paso, Tex. Ft. Worth, Tex. | 103 | 72 | 20 | 5 | 2 | 4 | 7 |
| Schenectady, N.Y. | 27 | 20 | 5 | 2 | - | - | 3 | Houston, Tex. | 256 | 164 | 44 | 30 | 10 | 8 | 25 |
| Scranton, Pa. | 27 | 20 | 4 | - | 1 | 2 | 1 | Little Rock, Ark. | 68 | 42 | 16 | 5 | 1 | 4 | 5 |
| Syracuse, N.Y. | 101 | 83 | 15 | 2 | - | 1 | 14 | New Orleans, La. | 151 | 97 | 22 | 22 | 5 | 5 |  |
| Trenton, N.J. | 32 | 20 | 7 | 3 | - | 2 | 1 | San Antonio, Tex. | 192 | 132 | 33 | 19 | 2 | 6 | 15 |
| Utica, N.Y. | 14 | 9 | 5 | - | - | - | - | Shreveport, La. | 61 | 41 | 11 | 5 | 4 |  | 7 |
| Yonkers, N.Y. | 25 | 20 | 5 | - | - | - | 1 | Tulsa, Okla. | 134 | 89 | 22 | 11 | 5 | 7 | 11 |
| E.N. CENTRAL | 2,129 | 1,437 | 384 | 173 | 59 | 74 | 116 | MOUNTAIN | 885 | 593 | 166 | 70 | 27 | 29 | 48 |
| Akron, Ohio | 55 | 40 | 12 | 1 | 1 | 1 |  | Albuquerque, N.M. | 107 | 65 | 31 | 7 | 2 | 2 | 6 |
| Canton, Ohio | 40 | 31 | 6 | 2 | - | 1 | 4 | Boise, Idaho | 41 | 32 | 5 | 2 | - | 2 | 3 |
| Chicago, III. | 462 | 281 | 79 | 56 | 19 | 26 | 34 | Colo. Springs, Colo. | 42 | 23 | 11 | 5 | 3 | - | 1 |
| Cincinnati, Ohio | 95 | 69 | 15 | 4 | 2 | 5 | 2 | Denver, Colo. | 84 | 57 | 16 | 4 | 3 | 4 | 8 |
| Cleveland, Ohio | 159 | 105 | 30 | 9 | 8 | 7 |  | Las Vegas, Nev. | 172 | 120 | 29 | 14 | 5 | 4 | 7 |
| Columbus, Ohio | 206 | 141 | 37 | 17 | 6 | 5 | 14 | Ogden, Utah | 27 | 18 | 7 | 15 | 1 | 1 | 1 |
| Dayton, Ohio | 134 | 100 | 25 | 5 | 2 | 2 | 4 | Phoenix, Ariz. | 150 | 97 | 24 | 15 | 5 | 9 | 10 |
| Detroit, Mich. | 194 | 111 | 46 | 20 | 8 | 8 | 5 | Pueblo, Colo. | 26 | 18 | 6 | 2 | 5 | 2 |  |
| Evansville, Ind. | 60 | 43 | 11 | 6 | - | 8 | 1 | Salt Lake City, Utah | 103 | 67 | 21 | 8 | 5 | 2 | 6 |
| Fort Wayne, Ind. | 47 | 30 | 12 | 4 | - | 1 | 2 | Tucson, Ariz. | 133 | 96 | 16 | 13 | 3 | 5 |  |
| Gary, Ind. | 7 | 4 | 3 | - | - | - | 11 | PACIFIC | 1,256 | 882 | 219 | 105 | 20 | 29 | 106 |
| Grand Rapids, Mich. | 55 | 47 | 6 | ${ }^{-}$ | 2 | $\square$ | 11 | Berkeley, Calif. | 1, 11 | 7 | 3 | 1 |  |  | 1 |
| Indianapolis, Ind. | 202 | 129 | 40 | 21 | 6 | 6 | 14 | Fresno, Calif. | 103 | 59 | 20 | 15 | 4 | 5 | 3 |
| Lansing, Mich. | U | U | U | U | U | U | U | Glendale, Calif. | U | U | U | U | U | U | U |
| Milwaukee, Wis. | 126 | 95 | 13 | 14 | 1 | 3 | 11 | Honolulu, Hawaii | 74 | 60 | 7 | 7 |  | - | 9 |
| Peoria, III. | 48 | 36 | 4 | 5 | 1 | 2 | 5 | Long Beach, Calif. | 87 | 58 | 20 | 7 | 2 | - | 17 |
| Rockford, III. | 42 | 29 | 10 | 2 | 1 | 3 | 2 | Los Angeles, Calif. | U | U | U | U | U | U | U |
| South Bend, Ind. | 45 | 32 | 8 | 2 | - | 3 | 2 | Pasadena, Calif. | U | U | U | U | U | U | U |
| Toledo, Ohio | 87 | 62 | 17 | 3 | 2 | 3 | 4 | Portland, Oreg. | 114 | 81 | 22 | 6 | 1 | 4 | 3 |
| Youngstown, Ohio | 65 | 52 | 10 | 2 | - | 1 | 1 | Sacramento, Calif. | 128 | 97 | 15 | 7 | 3 | 6 | 10 |
| W.N. CENTRAL | 845 | 610 | 148 | 52 | 16 | 13 | 41 | San Diego, Calif. | 107 | 70 | 15 | 16 | 2 | 6 | 12 |
| Des Moines, lowa | 113 | 82 | 20 | 8 | 2 | 1 | 6 | San Francisco, Calif. San Jose, Calif. | 147 185 | 97 140 | 28 | 18 | 2 | 1 | 17 |
| Duluth, Minn. | 29 | 21 | 5 | 2 | - | 1 | 1 | Santa Cruz, Calif. | 36 | + 32 | 3 | 1 | 2 | - | 18 6 |
| Kansas City, Kans. | 44 | 30 | 7 | 2 | 3 | 2 | 2 | Seattle, Wash. | 111 | 74 | 26 | 7 | 3 | 1 | 3 |
| Kansas City, Mo. | 115 | 75 | 22 | 7 | 4 | 1 | 7 | Spokane, Wash. | 73 | 53 | 11 | 6 | 2 | 1 | 5 |
| Lincoln, Nebr. | 30 | 27 144 | 1 4 | 1 | 1 | 3 | 4 9 | Tacoma, Wash. | 80 | 54 | 16 | 4 | 1 | 5 | 2 |
| Omaha, Nebr. | 90 | 68 | 14 | 4 | 1 | 3 | 3 | TOTAL | 11,383 ${ }^{\text {I }}$ | 7,755 | 2,160 | 923 | 268 | 268 | 671 |
| St. Louis, Mo. | 114 | 81 | 16 | 12 | 3 | 2 | 3 | TOTAL | 11,383 | 7,755 | 2,160 | 923 | 268 | 268 | 671 |
| St. Paul, Minn. | 51 | 40 | 7 | 3 | 1 | - | 6 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 59 | 42 | 12 | 5 | - | - | - |  |  |  |  |  |  |  |  |

*Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
${ }^{\dagger}$ Pneumonia and influenza.
${ }^{\S}$ Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
TTotal includes unknown ages.

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[^0]:    *An on-line service containing information from newspapers, magazines, wire services, and broadcast transcripts.

[^1]:    * Member countries are Bangladesh, Bhutan, Democratic People's Republic (DPR) of Korea, India, Indonesia, Maldives, Myanmar, Nepal, Sri Lanka, and Thailand.
    ${ }^{\dagger}$ Mass campaigns over a short period (days to weeks) in which two doses of OPV are administered to all children in the target age group, regardless of previous vaccination history, with an interval of 4-6 weeks between doses.

[^2]:    ${ }^{\S}$ Reporting the absence of cases.
    IAFP rate of 1 case per 100,000 population aged <15 years; two stool specimens collected at an interval of $24-48$ hours within 14 days of paralysis onset from $\geq 80 \%$ of AFP cases; stool specimens tested in WHO-accredited laboratory.
    ** Fifteen laboratories including three reference laboratories (in New Delhi, India; Colombo, Sri Lanka; and Nonthaburi, Thailand) and 12 national laboratories (in Dhaka, Bangladesh; Ahmedabad, Bangalore, Calcutta, Coonoor, Kasauli, Madras, and Mumbai, India; Bandung, Jakarta, and Surabaja, Indonesia; and Yangon, Myanmar).
    ${ }^{\dagger \dagger}$ Four cases of confirmed polio in DPR Korea had isolation of wild poliovirus in laboratories outside the SEAR laboratory network.

[^3]:    §§The polio-eradication initiative is supported by a coalition of organizations that include WHO, the United Nations Children's Fund (UNICEF), and other bilateral and multilateral organizations.

[^4]:    *Per 1000 live-born infants.
    ${ }^{\dagger}$ Defined as isolation of group B streptococci from a normally sterile site (e.g., blood or cerebrospinal fluid) from a resident of an area under surveillance. GBS cases were categorized as early-onset (illness onset at age $<7$ days) and late-onset (illness onset at age 7-90 days).
    $\S$ The three-county San Francisco Bay area, California; four urban counties in Tennessee; the eight-county metropolitan area of Atlanta, Georgia; and the entire state of Maryland.
    』For San Francisco, Maryland, and total, $\mathrm{p}<0.01$, chi-square for trend.

