



MORBIDITY AND MORTALITY WEEKLY REPORT

- 985 Knowledge About Causes of Peptic Ulcer Disease — United States, March–April 1997
- 987 Childhood Pedestrian Deaths During Halloween — United States, 1975–1996
- 990 Smallpox Surveillance Worldwide
 994 Progress Toward Poliomyelitis
 Eradication Europe and Central Asian
 Republics, 1991–September 1997
- 1000 Adult Blood Lead Epidemiology and Surveillance — United States, Second Quarter, 1997
- 1002 Notices to Readers

Knowledge About Causes of Peptic Ulcer Disease — United States, March–April 1997

An estimated 25 million persons in the United States have had peptic ulcer disease (PUD) during their lifetimes (1). A high proportion (at least 90%) of PUD cases are caused by infection with *Helicobacter pylori*—an association first reported in 1983 (2,3). However, in 1995, most (72%) of the general public was unaware of this association (4). To increase awareness among the general public and health-care providers about the relation between *H. pylori* infection and PUD, CDC, in collaboration with other federal agencies, academic institutions, and partners from private industry, has developed an awareness and education campaign. The campaign is being initiated during October 19–25, 1997, in conjunction with National Infection Control Week. In preparation for the education campaign, during early 1997 a population-based survey was conducted to provide more current estimates of knowledge about the causes of PUD. This report summarizes the survey findings and describes the campaign; the findings indicate that only 27% of the general public is aware of the association between *H. pylori* infection and PUD.

Questions about the causes of PUD were included as part of the Health Styles Supplemental Survey, which was administered during March–April 1997 (5). Questionnaires were mailed to a representative sample of 3064 U.S. adults aged ≥18 years; of these, 2512 (82%) persons completed the questionnaire. Respondents read statements about the causes of PUD and were asked whether they agreed or disagreed with each statement; therefore, respondents could identify more than one cause. To compensate for differential nonresponse rates in various demographic categories, data were weighted to the 1992 distribution of the U.S. population by age, sex, race/ethnicity, income level, and region.

Approximately 60% (95% confidence interval [CI]=58%–62%) of respondents believed that ulcers were caused by too much stress; 17% (95% CI=16%–18%), that eating spicy foods caused ulcers; and 27% (95% CI=25%–29%), that a bacterial infection caused ulcers. The belief that stress was the most likely cause was highest among persons aged 18–24 years (78% [95% CI=65%–81%]) and among persons with annual household incomes of <\$15,000 (65% [95% CI=60%–70%]). Similarly, the belief that spicy food was the most common cause of ulcers was highest among persons aged 18–24 years (33% [95% CI=18%–48%]) and among persons with annual household incomes of <\$15,000 (26% [95% CI=22%–30%]). The proportion of respondents who

Peptic Ulcer Disease — Continued

believed that PUD was caused by an infection increased with increasing age, from 12% (95% Cl=2%–22%) among persons aged 18–24 years to 33% (95% Cl=30%–36%) among persons aged ≥55 years.

Reported by: Porter Novelli, Washington, DC. Foodborne and Diarrheal Diseases Br, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: PUD is the primary reported cause of death in approximately 6500 persons in the United States each year (1). The estimated direct costs of patient care and indirect costs caused by work and productivity loss for PUD are \$6 billion annually (6). Before 1983, the major causes of PUD were considered to be excess acid, diet, smoking, and stress, and most patients with recurrent PUD were treated with maintenance doses of acid-reducing medications. With the discovery of the association between *H. pylori* infection and PUD, appropriate antibiotic regimens can now successfully eradicate gastrointestinal infection with this organism and permanently cure ulcers in a high proportion of patients.

In 1994, a National Institutes of Health consensus development conference panel concluded that patients with ulcers caused by *H. pylori* infection require treatment with antimicrobial agents (7). Therapy consists of a combination of effective antibiotics for 7–14 days; cure rates for established therapies range from approximately 70% to 90%, depending on the specific regimen (8). Five *H. pylori* treatment regimens have been approved by the Food and Drug Administration.

The development of effective treatment has enabled a new public health approach to PUD, which was previously considered a chronic disease. Further research of this emerging infectious disease is needed, including modes of transmission and factors associated with the development of asymptomatic illness. Even though effective primary prevention strategies remain to be defined, appropriate diagnosis and antibiotic treatment can substantially reduce the burden of PUD. This secondary prevention strategy depends on awareness that PUD is caused by a curable infection.

In 1994 and 1996, national surveys of primary-care physicians and gastroenterologists about knowledge of the association between *H. pylori* infection and PUD indicated that approximately 90% of these physicians identified *H. pylori* infection as the primary cause of PUD (9,10). However, primary-care physicians reported treating approximately 50% of patients with first-time ulcer symptoms with antisecretory agents without testing for *H. pylori*; in comparison, gastroenterologists reported treating approximately 30% of patients with first-time ulcer symptoms with these agents (T. Breuer, Baylor College of Medicine, personal communication, 1996). These findings suggest that further education of the medical community is needed.

The findings of the survey described in this report are consistent with those of the population-based survey in 1995 (4) and confirm limited awareness among the general population about *H. pylori* infection as a treatable cause of PUD. CDC, in collaboration with partner organizations, has developed a national campaign to increase awareness among and educate the general public and the medical community about the association between *H. pylori* infection and PUD. This month, public service announcements for television and radio are being released in both English and Spanish. In addition, consumer education brochures and information about treatment strategies are being mailed to health-care providers. These materials also are available from CDC, telephone (888) 698-5237 ([888] MY-ULCER).

Peptic Ulcer Disease — Continued

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Childhood Pedestrian Deaths During Halloween — United States, 1975–1996

During 1995, pedestrian deaths accounted for approximately 15% of all motor-vehicle-related deaths sustained by children aged 0–19 years in the United States (1). Because of the levels of participation in Halloween-related activities by elementary and middle school-aged children, these children might be more likely to sustain pedestrian injuries on that evening than on other evenings. To characterize the occurrence of fatal pedestrian injury among children on Halloween, CDC analyzed mortality data from the Fatal Analysis Reporting System (FARS) of the National Highway Traffic Safety Administration (NHTSA) during 1975–1996. This report summarizes the results of the analysis and suggests measures to prevent Halloween-related pedestrian injuries and deaths among children. The findings indicate that the number of childhood pedestrian deaths increased fourfold among children on Halloween evenings when compared with all other evenings.

FARS is a record of all motor-vehicle crashes that occur on public roads in the United States and result in the death of an occupant or nonmotorist within 30 days. NHTSA compiles data from police crash reports, death certificates, coroner reports, hospital records, emergency medical system reports, state highway department information, and other sources. For this analysis, Halloween-related pedestrian deaths were defined as deaths resulting from motor-vehicle crashes on October 31 each year from 4 p.m. through 10 p.m. This time period was selected because most outdoor Halloween activities among persons aged 5–14 years occur during these hours.

Childhood Pedestrian Deaths — Continued

During 1975–1996, from 4 p.m. through 10 p.m. on October 31, a total of 89 deaths occurred among pedestrians aged 5–14 years, compared with 8846 on all other evenings. Overall, among children aged 5–14 years, an average of four deaths occurred on Halloween during these hours each year, compared with an average of one death during these hours on every other day of the year.

Reported by: Div of Unintentional Injury Prevention, National Center for Injury Prevention and Control, CDC.

Editorial Note: The findings in this report indicate that, during 1975–1996, the number of deaths among young pedestrians was fourfold higher on Halloween evening when compared with the same time period during all other evenings of the year. This analysis may undercount the number of deaths because 1) FARS does not include off-road motor-vehicle crashes (e.g., crashes that occur in driveways, parking lots, and on sidewalks); 2) Halloween activities occasionally occur on another day, particularly if October 31 is a Sunday; and 3) some Halloween activities extend beyond 10 p.m.

Child pedestrian injuries result from an interrelated set of factors involving the driver, the child, and their surroundings. Halloween poses special environmental and behavioral risks compounded by the inherent limitations of the child's developmental stage. Most of the time children spend outdoors is during daylight hours; however, Halloween-related activities occur primarily after dark. This period of darkness is lengthened by the return to Standard Time, which immediately precedes Halloween. In addition, children engaged in door-to-door "trick or treat" activities frequently cross streets at midblock rather than at corners or crosswalks, a known risk factor for pedestrian collision (2). Black costumes can further limit the visibility of young pedestrians to drivers. Sensory acuity may be decreased by masks that can restrict peripheral vision and hearing. Attention to sensory input may be decreased because of distractions, including urges to acquire the best candy, shouts from other children, eyecatching costumes and decorations, and time pressure to acquire candy.

In addition to these holiday-specific problems, the pedestrian skills of children are limited by at least five factors related to their physical attributes (e.g., size and motor coordination) and developmental stage that impair their street-crossing skills until approximately age 12 years (3). First, young children may lack the physical ability to rapidly cross the street, and their short stature limits their visibility to drivers. Second, children are likely to choose the shortest rather than safest route across streets, often darting out at mid-block or entering the roadway between parked cars (4). Third, children normally disregard peripheral vision, have reduced attentiveness, localize sounds poorly, and lack sufficient impulse control (5). Fourth, young children do not evaluate potential traffic threats effectively; they cannot anticipate driver behavior, have less acute sensory perception, and process sensory information more slowly than adults (3,6). Fifth, children may engage in "magical thinking" that leads them to believe, for example, that they are protected from vehicular harm within the confines of a painted crosswalk (6,7).

Parents and caregivers of young children may overestimate the ability of their children to negotiate traffic independently (8), underscoring the need for constant adult supervision of school-aged children during trick-or-treat activities. Public health departments and schools should emphasize the importance of adult supervision and other injury-prevention measures just before Halloween (see box).

Childhood Pedestrian Deaths — Continued

Safety Tips for Halloween

Pedestrian Safety

- Parents should establish a route for children in a known neighborhood.
- Children should use flashlights, stay on sidewalks, and avoid crossing yards.
- Children should cross streets at the corner (using crosswalks when they exist) and not between parked cars.
- Children should stop at all corners and stay together in a group before crossing.
- Motorists should drive slowly, watch for children in the street and on medians, and exit driveways and alleyways carefully.
- Children should wear clothing that is bright, reflective, and flame retardant.
- Children should consider using face paint instead of masks, or should wear masks that are well-fitting with eye- and ear-holes that do not obscure sight or hearing; children should not wear floppy hats or hats that will slide over the eyes.
- To reduce the likelihood of tripping, children should not wear long, baggy, or loose costumes or oversized shoes.

General Safety Planning

- Parents should establish a curfew for older youth.
- Children should only go to well-lit houses and remain on porches rather than entering houses.
- Children should travel in small groups and should be accompanied by an adult.
- Children should know their phone number and carry coins for emergency telephone calls.
- Children should have their names and addresses attached to their costumes.
- Children should bring treats home before eating them so parents can inspect them
- Adults should prepare homes for trick-or-treaters by clearing porches, lawns, and sidewalks and by placing jack-o-lanterns away from doorways or landings.
- Children should use costume knives and swords that are flexible, not rigid or sharp.
- Adults and children who are carving pumpkins should use stable, flat surfaces
 with good lighting; draw and follow patterns on the outside of the pumpkin instead of freehand carving; and use blunt instruments with dull serrations
 specially designed for pumpkin carving.

Sources: U.S. Consumer Product Safety Commission and the National SAFE KIDS Campaign.

Childhood Pedestrian Deaths — Continued

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As part of its continuing commemoration of CDC's 50th anniversary in July 1996, MMWR is reprinting selected MMWR articles of historical interest to public health, accompanied by current editorial notes. Reprinted below are the reports published January 6, 1978, and May 5, 1978, describing the final case of naturally acquired small-pox and steps toward certifying countries as smallpox-free.

Smallpox Surveillance — Worldwide

A total of 3,234 cases of smallpox have been reported from Eastern Africa to the World Health Organization (WHO) in the period January 1–December 6, 1977. Since October 16, 1975 — more than 2 years ago — when a case occurred in Bangladesh, smallpox has been detected only in Ethiopia, Kenya, and Somalia, 3 countries which together with Djibouti are linked by the Ogaden Desert to form one epidemiologic unit.

To date, the last known case of smallpox occurred in Somalia on October 26 in the Merca District. The source of this case was a known outbreak in the nearby district of Kurtuware. All 211 contacts were traced, revaccinated, and kept under surveillance. There have been no secondary cases. As of December 6, there were 6 pending outbreaks* in Somalia — the one in Merca and 5 in Bardere.

During October and November surveillance in Somalia has been severely hampered by heavy rains that have made it difficult or impossible to travel by vehicle. Since work has had to be continued on foot, there have been some delays in reporting and incomplete search coverage in certain areas. To combat this, personnel have been concentrated in those areas considered to be at highest risk of having undetected foci or where information is most limited. Currently there are 1,670 national staff and 24 WHO epidemiologists involved in the program. Increased mobility with restoration of complete active searches will be necessary to ensure that all foci have been

^{*}An outbreak is defined as one or more cases; a pending outbreak is one in which 6 weeks has not elapsed since the onset of rash of the last case.

detected. Accordingly, intensified activities are planned during the dry season, January through April 1978.

The last known case of smallpox in Ethiopia occurred on August 9, 1976, in El Kere Region. In Kenya, the last case was on February 5, 1977, in the Mandera District. Reported by the World Health Organization in the Weekly Epidemiological Record 52:389-391, 1977

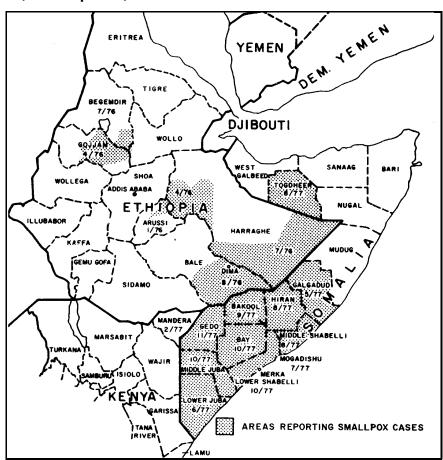
International Notes

Smallpox Surveillance — Worldwide

As of April 14, 1978, no cases of smallpox have been reported to the World Health Organization (WHO) from anywhere in the world since the last case had onset of rash on October 26, 1977, in Merka town, Somalia. However, a total of 2 years of effective surveillance must elapse before this last endemic area can be confirmed to be smallpox-free.

Worldwide, since January 1, 1976, smallpox cases have been detected only in certain areas of Ethiopia, Kenya, and Somalia (Figure 1). One year and 9 months has

FIGURE 1. Eastern Africa: The world's last known smallpox foci by area and dates of last cases, as of April 14, 1978



elapsed since cases were detected in Ethiopia; 1 year and 1 month has elapsed since 5 cases were detected in Kenya after an importation from Somalia; and 6 months has passed since the last case was found in Somalia.

With the apparent interruption of transmission of the disease on a global basis, smallpox activities are being directed toward promptly certifying and providing authoritative endorsement of this historic event. In January 1978 the Executive Board of WHO endorsed the recommendations of a consultant group on worldwide certification of smallpox eradication which met in October 1977. Recognizing that this certification is based on verifying that 2 years has elapsed with no case of smallpox being detected by a surveillance system which would have detected any case had it occurred, the recommendations called for the establishment of a Global Commission. This independent group of experts is to monitor and review the following steps to be undertaken in 1978 and 1979: (1) certification by international commissions in the 15 countries not yet visited by commissions; (2) special documentation or visits to be required for 16 countries; (3) the request for statements from other countries declaring their smallpox-free status.

If no more cases of smallpox are detected, the countries of Somalia, Ethiopia, Djibouti, Kenya, Yemen, and Democratic Yemen will be eligible for certification in October 1979. These will be the last of the 15 countries to be certified by an international commission, and priority attention is being given to surveillance in these areas. Reported by the World Health Organization in the Weekly Epidemiological Record 53:97-99, 108, 1978.

Editorial Note—1997: Some things need be done only once in the entire history of the world. The development of smallpox vaccine and the eradication of smallpox disease are on the list. Perspective is elusive, even when one contemplates 20 years without a single case of smallpox in the world. Part of the reason is that we all begin our reading "in the middle of the book." Although the full story that went before can never be known, smallpox eradication became possible, and then inevitable, when Edward Jenner, using his clinical powers of observation over a 25-year period during the 18th century, became convinced that an infection with cowpox could protect against small-pox. He then took the next step, inducing immunity by transferring cowpox from the hand of Sarah Nelmes to the arm of James Phipps—creating a tool that would change the health of entire populations (1).

In a real sense, the history of modern public health started on that day, May 14, 1796. Word spread quickly, despite communication barriers. By 1806, Jefferson was able to visualize the last case of the disease when he wrote to Jenner, "future generations will know by history only that this loathsome disease has existed" (1).

It is a sad commentary that it took 170 years to finally organize to accomplish Jefferson's vision. But when it happened, it brought out the best in science and public health. The resolution at the World Health Assembly in 1965 was unanimous and led to excellent cooperation between the United States and the Soviet Union, even in the midst of Cold War politics. The value of WHO, which represented the health needs of every person in the world, was demonstrated. Workers and resources from around the world were organized for use in the areas of greatest need. The public health situation, rather than political concerns, dictated how the program was to be executed. The United States can be proud of its role in this exciting program, contributing hundreds

of workers and millions of dollars for the eradication of a disease that no longer involved our nation.

Twenty years have passed since the last naturally acquired case of smallpox occurred, as reported in the January 6 and May 5, 1978, issues of *MMWR*. Smallpox has not re-emerged from an unrecognized human or animal reservoir, from a variolator's store of infected scabs, or infected cadaver, either unearthed or thawed. There continues to be no evidence to support the theory of a "niche" for human pathogens that, when vacated, will be filled by another. Although speculation increased when monkeypox was recognized as causing human disease, fears decreased when monkeypox was shown to have a low secondary attack rate among unvaccinated humans (2). In addition, monkeypox virus, probably arising from a squirrel reservoir, is not ancestral to smallpox virus based on genomic studies (3).

The issue of monkeypox again emerged with outbreaks in 1996 (4) and 1997 (5) in the eastern Democratic Republic of the Congo with speculation about the need for smallpox vaccine to provide cross-protection for the populations at highest risks. Such recommendations must be considered carefully because of the adverse risks of the vaccine, particularly in persons who may be immunocompromised by human immunodeficiency virus infection (5). A better understanding of the current epidemiology/epizoology of monkeypox is needed.

Smallpox has been eradicated, but the etiologic agent is not extinct. The virus continues to exist in freezers in secure facilities at one institution in the United States and another in the Russian Federation. During the past 10 years, various individuals and three WHO committees have recommended destruction of virus stocks on the grounds that the world needs to be assured that smallpox will never again be a threat to humankind. In opposition to virus destruction are equally strong views that laboratory stocks serve as a counterbalance to terrorism and a source of unknown future benefits to humankind. In May 1996, the World Health Assembly recommended, subject to further review, that all stocks be destroyed in June 1999.

The legacy of the smallpox program, beyond eradication, has been enduring and includes the Expanded Program on Immunization (with its remarkable reductions of measles and other vaccine-preventable illnesses), the impending eradication of Guinea worm disease and poliomyelitis, and improved global disease surveillance and public health logistics systems. The growing interest in eradication as a global health strategy led to the creation of the International Task Force for Disease Eradication, which reviewed >80 potential candidate diseases and concluded in 1993 that six were eradicable (6). The science of infectious diseases eradication was the subject of a multidisciplinary Dahlem Workshop in Berlin in March 1997. As a follow-up to the Dahlem Workshop, a conference is scheduled in Atlanta in early 1998 on Global Disease Elimination/Eradication as Public Health Strategies; this conference will explore the potential synergistic relations between disease elimination/eradication and primary health-care programs throughout the world.

The health benefits of smallpox eradication have been enormous and the economic benefits satisfying. Because of smallpox eradication, the United States saves more each year than its annual dues to WHO. For the first time, social justice in public health has been achieved, with everyone benefiting from a body of scientific knowledge and experience. The benefits will continue to be enjoyed by every person who will ever be

born. "Future generations will know by history only" that world cooperation reached an unprecedented level in the 20th century, making this bequest possible.

1997 Editorial Note by William F Foege, MD, Rollins School of Public Health, Emory University, and Director Emeritus, CDC. Walter R Dowdle, PhD, Director of Programs, Task Force on Child Survival and Development, and Deputy Director Emeritus, CDC.

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Progress Toward Poliomyelitis Eradication — Europe and Central Asian Republics, 1991–September 1997

In 1988, the World Health Assembly resolved to eradicate poliomyelitis by 2000; this goal was reaffirmed in 1989 by the World Health Organization (WHO) Regional Committee for Europe. Although most of the 51 member states of the European Region of WHO (EUR) (including Israel and the Central Asian Republics) have reported zero polio cases since at least the early 1980s, endemic transmission or outbreaks of polio continued to be reported through 1996 in some countries. This report updates progress of the EUR polio eradication initiative through September 1997 (1,2), including progress in polio vaccination activities, interruption of wild poliovirus transmission, and the establishment of sensitive surveillance systems in the region.

Routine Vaccination Coverage

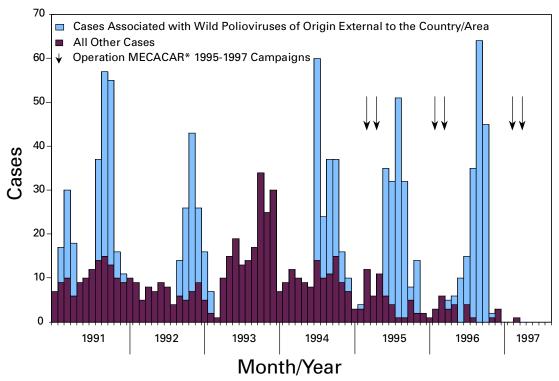
In 1995 and 1996, a total of 41 EUR countries routinely used oral poliovirus vaccine (OPV) for infant vaccination, six used inactivated poliovirus vaccine (IPV), and four used sequential IPV-OPV schedules. In 1996, the provisional regional average for coverage with a primary series of polio vaccination by age 1 year was 92% (range: 77%–100%, with 26 countries reporting), compared with 83% in 1993 (range: 45%–100%, with 46 countries reporting); coverage levels in many of the Newly Independent States of the Former Soviet Union reached their lowest points during the economic transitions of the early 1990s.

Supplemental Vaccination Activities

The third year of an international mass vaccination activity—Operation MECACAR (Eastern Mediterranean, Caucasus, Central Asian Republics)—was completed in May 1997 (Figure 1). Operation MECACAR consisted of coordinated National Immunization Days (NIDs)* in the bordering countries of the WHO Eastern Mediterranean and European regions with continuing endemic polio (1). During each of these NIDs,

^{*}Mass campaigns over a short period (days to weeks) in which two doses of oral poliovirus vaccine are adminstered to all children in the target age group (usually aged 0-4 years) regardless of previous vaccination history, with an interval of 4-6 weeks between doses.

FIGURE 1. Number of reported cases of poliomyelitis, by month and origin of wild poliovirus — Europe and the Central Asian Republics, 1991–1997



^{*}Eastern Mediterranean, Caucasus, Central Asian Republics.

58–60 million children (95% of targeted children) received two supplementary doses of OPV. Nine countries of EUR (Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkey, Turkmenistan, and Uzbekistan) participated in all 3 years of Operation MECACAR. The Russian Federation joined MECACAR in 1996 and 1997. Bulgaria also conducted NIDs in synchrony with Operation MECACAR in 1995. In addition to Operation MECACAR, five other EUR countries at high risk for polio conducted NIDs or sub-NIDs in 1996 (Albania, Republic of Moldova, Romania, Ukraine, and the Federal Republic of Yugoslavia).

Because of a polio outbreak following a wild poliovirus importation into the Balkan peninsula during 1996, extra emergency mass vaccination rounds were conducted during 1996 and/or 1997 in Albania, Bosnia, Croatia (Eastern Slavonia section), the Federal Republic of Yugoslavia, Herzegovina, and The Former Yugoslav Republic of Macedonia. Two rounds of targeted "catch-up" vaccination also were conducted in Greece in 1996 as a result of the epidemic.

Surveillance

By 1996, all 16 EUR member states that had reported epidemic or endemic polio since 1991 had established surveillance for acute flaccid paralysis (AFP), the surveillance strategy recommended by WHO for polio eradication. Fifteen EUR member states without endemic disease also had instituted such systems. A total of 33 member states will be conducting AFP surveillance by the end of 1997 (Table 1). During

TABLE 1. Number of reported cases of poliomyelitis and acute flaccid paralysis (AFP) and key surveillance indicators among countries with AFP surveillance, by year— European Region, World Health Organization, January 1996–September 1997

		199	96		1997						
Country	No. polio cases	No. nonpolio AFP cases	Nonpolio AFP rate*	% AFP cases with two stool specimens [†]	No. polio cases	No. nonpolio AFP cases	Nonpolio AFP rate [§]	% AFP cases with two stool specimens			
Albania	138	2	0.2	79%	0	5	0.9	100%			
Armenia	0	8	0.8	100%	0	13	1.8	92%			
Azerbaijan	0	12	0.5	0	0	13	1.1	77%			
Belarus	0	28	1.3	93%	0	25	1.7	100%			
Bosnia-Herzegovina	0	_	_	_	0	2	0.4	100%			
Bulgaria	0	5	0.3	60%	0	6	0.6	100%			
Croatia	0	2	0.2	0	0	2	0.3	50%			
Czech Republic	0	17	0.9	47%	0	11	0.9	91%			
Estonia	0	3	1.0	100%	0	3	1.6	75%			
Georgia	0	9	0.7	22%	0	5	0.6	80%			
Israel	0	28	1.7	68%	0	13	1.4	38%			
taly¶	0	12	0.1	17%	0	28	0.6	71%			
Kazakhstan	0	111	2.2	84%	0	112	3.2	93%			
Kyrgyzstan	0	6	0.7	100%	0	30	3.4	83%			
Latvia	0	0	0	_	0	0	0	0			
Malta**	0	_	_	_	0	1	2.5	0			
Netherlands	0	21	0.7	19%	0	15	0.9	7%			
Poland	0	42	0.5	36%	0	34	0.5	26%			
Portugal	0	0	0	_	0	0	0	_			
Republic of											
Moldova	1	13	1.1	29%	0	7	0.9	86%			
Romania	0	50	1.1	86%	0	38	1.2	95%			
Russian Federation	3	227	1.0	78%	0	369	2.5	85%			
Slovak Republic	0	4	0.3	50%	0	3	0.4	100%			
Slovenia	0	0	0	_	0	0	0	_			
Spain ^{††}	0	_	_	_	0	0	_	_			
Switzerland	0	10	8.0	0	0	9	1.1	11%			
Tajikistan The Former Yugoslav Republic	0	0	0	_	1	5	0.3	17%			
of Macedonia	0	0	0	_	0	2	0.6	0			

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Total	188 ^{§§}	827	0.7	68%	1	938	1.1	78%	.190
Federal Republic of Yugoslavia	24	7	0.3	74%	0	10	0.6	80%	11115
Uzbekistan	0	7	0.1	29%	0	9	0.6	100%	7
Ukraine	1	129	1.5	82%	0	94	1.9	74%	
Turkmenistan	2	6	0.5	88%	0	5	0.5	100%	ģ
Turkey	19	68	0.3	34%	0	69	0.6	61%	_

^{*}Per 100,000 children aged <15 years.

† Two stool specimens collected at an interval of at least 24 hours within 14 days of paralysis onset.

§ Annualized nonpolio AFP rate.

¶ In pilot area of four regions in 1996, AFP rate was 0.5.

** AFP surveillance began in July 1997.

†† AFP surveillance began in October 1997.

§§ An additional five virologically confirmed cases were reported from Greece in 1996.

January 1996–September 30, 1997, six countries (Belarus, Israel, Kazakhstan, Romania, the Russian Federation, and Ukraine) achieved the minimum AFP reporting rate indicative of a sensitive surveillance system (at least one nonpolio AFP case per 100,000 children aged <15 years annually). The regional nonpolio AFP rate increased from 0.3 in 1995 to 0.7 (range: 0–2.2) in 1996; based on cases reported through September 1997, the annualized rate for 1997 was 1.1 (Table 1). The rate of collection of two adequate stool samples[†] from persons with reported AFP cases increased from 47% in 1995 to 68% in 1996; through September 1997, 78% of reported AFP cases had two adequate specimens. During 1996 and 1997, Armenia, Belarus, Kazakhstan, Kyrgyzstan, Romania, and Turkmenistan consistently achieved the WHO-recommended target of two adequate stool specimens collected from at least 80% of AFP cases.

EUR Laboratory Network

The EUR polio laboratory network consists of 41 laboratories (34 national laboratories; two subregional reference laboratories; and five regional reference laboratories) (3). Of the 33 EUR network laboratories that underwent proficiency testing during 1996, a total of 25 rated a passing score (at least 80%) compared with five of the 15 laboratories tested in 1995.

Incidence of Polio

From 1991 through 1995, the number of confirmed cases of polio reported in EUR ranged from 177 to 221; 193 cases were reported in 1996. Of the 50 EUR member states that reported 1996 data to WHO, 42 reported zero cases, compared with 38 countries in 1994 before Operation MECACAR. Of the nine countries with endemic or recently endemic disease that participated in Operation MECACAR during 1995-1997, two (Turkey and Turkmenistan) reported 21 cases in 1996 (Table 1). During 1991– 1994, these nine countries had reported 78-221 polio cases each year. Of the 50 EUR member states that have reported 1997 data to WHO, only Tajikistan has reported one confirmed polio case. In 1996, most reported polio cases in EUR occurred during an outbreak that followed an importation of wild poliovirus type 1 into the Balkan peninsula. As part of that outbreak, 138 cases were reported from Albania (4); additional cases occurred in young, undervaccinated population subgroups: among Roma (gypsies) in Greece (five cases) and among ethnic Albanians in the Kosova and Metohija district of the Federal Republic of Yugoslavia (24 cases). The outbreak in Albania primarily affected persons aged 10-34 years because of historical problems with the transport, storage, and administration of vaccines. The outbreak ended following mass vaccination of the entire population through age 50 years with two doses of OPV, reaching more than 85% of the target group. Similarly, in the Federal Republic of Yugoslavia the outbreak was terminated by previously planned sub-NIDs. Wild poliovirus type 1 also was isolated in Turkmenistan in July 1996. The remaining cases reported in 1996 (in the Republic of Moldova, Russian Federation, Turkey, and Ukraine) and 1997 (in Tajikistan) were clinically confirmed. Wild poliovirus types 1 and 3 were last isolated in Turkey in 1994 and 1995, respectively.

Based on epidemiologic investigations and the genomic characterization of wild poliovirus isolates, approximately 52% of the 1335 polio cases reported in EUR member states during January 1991–September 1997 were associated with indigenous transmission of wild poliovirus of origin from outside the involved country, and

[†]Two stool specimens collected at an interval of at least 24 hours within 14 days of onset of paralysis.

sometimes apparently from outside the EUR, primarily affecting susceptible populations or subgroups (Figure 1). During 1991–1995, most outbreaks were associated with wild poliovirus originating from the Indian subcontinent (5,6).

Reported by: Communicable Disease and Immunization Unit, European Regional Office, Copenhagen, Denmark. Global Program for Vaccines and Immunization, World Health Organization, Geneva, Switzerland. Respiratory and Enteric Viruses Br, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Polio Eradication Activity, National Immunization Program, CDC.

Editorial Note: Improvements in routine vaccination coverage and in surveillance in the EUR member states and the successes of Operation MECACAR have resulted in substantial progress toward regional elimination of wild poliovirus transmission. In addition to most of western and central Europe, which have not reported polio in the 1990s, polio transmission has been interrupted in virtually all of those countries in which polio was endemic. However, the quality of surveillance in many areas of the region must continue to improve to ensure that endemic transmission has been interrupted and that any transmission secondary to imported poliovirus is promptly detected.

Tajikistan, Turkmenistan, and Uzbekistan remain at risk for polio because of recent cases and suspected ongoing poliovirus transmission in Afghanistan; however, transmission might not be detected because of weak surveillance and/or laboratory deficiencies. In addition, some areas of Turkey—particularly those adjacent to Iran and Iraq—remain at high risk for wild poliovirus transmission (7).

Supplemental vaccination activities (i.e., NIDs, sub-NIDs, and "mopping-up" [intensive house-to-house supplemental vaccination in high-risk areas]) will continue to be organized through 2000 under Operation MECACAR Plus to interrupt any remaining chains of poliovirus transmission. Mopping-up activities will be conducted in nearly all MECACAR countries during October–November 1997, with particular emphasis on the high-risk areas that border countries of the Eastern Mediterranean Region with endemic disease.

Since the late 1980s, large polio outbreaks have occurred nearly every year in EUR among undervaccinated religious or ethnic population subgroups or in countries where vaccination coverage decreased for economic reasons (4,5,8). As progress has been made in the interruption of endemic transmission, the relative importance of indigenous transmission of virus introduced from outside the region has increased. Therefore, specific efforts are needed to identify and improve the vaccination status of hard-to-reach population subgroups in member states (e.g., ethnic minorities, migrants, and displaced persons).

EUR priorities for the eradication of polio by 2000 include 1) further strengthening AFP surveillance systems throughout the region (including accreditation of polio network laboratories by mid-1998); 2) ensuring that high-quality NIDs or sub-NIDs are conducted through Operation MECACAR Plus in selected countries with persistent high risk for wild poliovirus circulation resulting from low vaccination coverage, weak surveillance, and/or administrative problems; 3) implementing coordinated intensive supplemental vaccination activities among key border area populations; 4) maintaining and strengthening the political commitment of governments for polio eradication and certification; 5) consolidating the support of donor governments and partner agencies to ensure sufficient financial and human resources are available; and 6) progressing in the formal process of certification. External technical and financial support

provided to achieve progress in the polio eradication initiative in EUR has been provided by an international coalition consisting of WHO; United Nations Children's Fund (UNICEF); and other partner agencies including Rotary International, US Agency for International Development, CDC, and the governments of Canada, Denmark, France, Germany, Italy, Japan, Luxembourg, the Netherlands, Norway, Switzerland, and the United Kingdom and the European Commission Humanitarian Office.

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Adult Blood Lead Epidemiology and Surveillance — United States, Second Quarter, 1997

CDC's National Institute for Occupational Safety and Health (NIOSH) Adult Blood Lead Epidemiology and Surveillance (ABLES) program monitors laboratory-reported elevated blood lead levels (BLLs) among adults in the United States. During 1997, a total of 27 states reported surveillance data to ABLES.* In this report, ABLES data for the first and second quarters of 1997 are presented and compared with the first and second quarters of 1996.

During April–June 1996 and 1997, reports of BLLs \geq 25 µg/dL by the same 27 states increased by 5%, from 5867 to 6157, respectively (1).[†] This quarterly increase follows an increase of 13% during the first quarter of 1997 (2). The combined increase for the first two quarters of 1997 is 9% (Table 1); in comparison, the long-term trend had been decreasing during 1993–1996 (2–4) as had the overall number of reported BLLs \geq 25 µg/dL among adults in the United States (5).

^{*}Alabama, Arizona, California, Connecticut, Iowa, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Texas, Utah, Vermont, Washington, Wisconsin, and Wyoming.

[†]To compare the number of reports for a constant roster of 27 states in 1997 and 1996, first and second quarters 1997 data for New Mexico, Rhode Island, and Wyoming were added to the previously reported totals for the first and second quarter of 1996, and first and second quarters 1996 data for Illinois (which discontinued reporting at the end of 1996) were subtracted from the previously reported totals for the first and second quarters of 1996 (1). Adjustments were made to compare 28 states in the first quarter report for 1997 (2), but a roster of 27 states has been adopted for the remainder of 1997.

ABLES — Continued

TABLE 1. Number of reports of elevated blood lead levels (BLLs) among adults, number of persons with elevated BLLs, and percentage change in number of reports — 27 states,* second quarter, 1997

Reported BLL (μg/dL)	Second qu	uarter, 1997	Cumulative reports,	Cumulative reports,	% Change from second quarter,
	No. reports	No. persons†	1996§	1997¶	1996 to 1997
25–39	4,928	3,566	8,835	9,866	12%
40-49	933	652	1,947	1,897	-3%
50-59	189	136	415	403	-3%
≥60	107	76	196	215	10%
Total	6,157	4,430	11,393	12,381	9%

^{*}Alabama, Arizona, California, Connecticut, Iowa, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Texas, Utah, Vermont, Washington, Wisconsin, and Wyoming. Data from New Hampshire were missing; 1996 data were used as an estimate.

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Editorial Note: The increase in the number of reports of elevated BLLs for the first two quarters of 1997 suggests the possible ending of the long-term decline in the overall number of detected cases of elevated BLLs among adults reported during 1993–1996 (4). Factors related to this increase might include 1) improved efforts of the

[†]Individual reports for persons are categorized according to the highest reported BLL for the person during the given quarter. The number of persons reported in Michigan is an estimate based on the number of reports received.

[§]To compare the number of reports for a constant roster of 27 states in 1997 and 1996, first and second quarter 1997 data for New Mexico, Rhode Island, and Wyoming were added to the previously reported totals for the first and second quarters of 1996, and first and second quarters 1996 data for Illinois (which discontinued reporting at the end of 1996) were subtracted from the previously reported totals for the first and second quarter of 1996 (1).

[¶]To compare a constant roster of 27 states, first quarter 1996 data for Illinois, used as an estimate, were subtracted from the previously reported totals for the first quarter of 1997 (2).

ABLES — Continued

participating states and lead-using industries within them to identify lead-exposed workers; 2) improved compliance with Occupational Safety and Health Administration requirements for blood lead monitoring; 3) increased occupational exposures to lead; and/or 4) an increase in the size of the workforce in lead-using industries. However, this trend also might reflect normal variations in nationwide reporting totals that result from changes in staffing and funding in state-based surveillance programs and interstate differences in worker BLL testing by lead-using industries. Continued surveillance is required before this two-quarter increase can be confirmed as a reversal of the previous long-term decrease.

The findings in this report document the continuing hazard of lead exposures as an occupational health problem in the United States. ABLES seeks to enhance surveillance for this preventable condition by expanding the number of participating states, reducing variability in reporting, and distinguishing between new and recurring elevated BLLs in adults.

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Notice to Readers

Satellite Broadcast on Managing Occupational Exposures to HIV

Putting the Pieces Together: Managing Occupational Exposures to HIV, a live satellite broadcast, will be held Thursday, January 15, 1998, from 1 p.m. to 3:30 p.m. eastern standard time. Cosponsors are CDC and the Public Health Training Network. This course is designed for physicians, nurses, occupational-health professionals, infection-control professionals, pharmacists, laboratorians, hospital administrators, and others who developed policies on or managed occupational exposures to HIV.

This course will provide an overview and update of the "PHS Statement on Management of Occupational Exposures to HIV and Recommendations for Chemoprophylaxis after Exposure." Experts will identify and discuss the components necessary to incorporate the PHS recommendations in policies on management of occupational exposures to HIV. Viewers will be able to submit questions during the program. Continuing education credits will be offered.

Additional information is available through CDC's fax information system, telephone (888) 232-3299 ([888] CDC-FAXX), by requesting document number 130013.

Notices to Readers — Continued Notice to Readers

New Videotape Training Program: Recognition and Prevention of False-Positive Test Results in Mycobacteriology

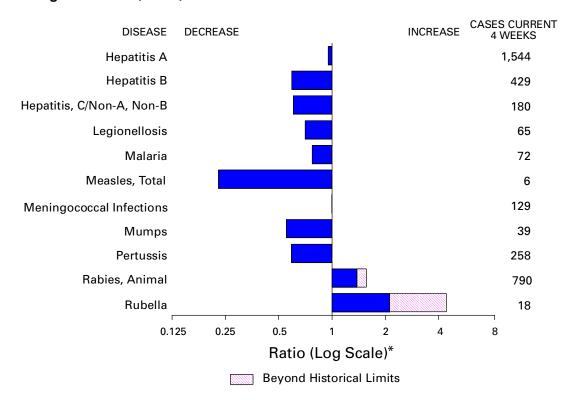
A new training program, consisting of a videotape and a study booklet, is designed to help laboratorians achieve accurate test results in mycobacteriology. The program, developed through a cooperative agreement between CDC and the Association of State and Territorial Public Health Laboratory Directors (ASTPHLD), discusses how to recognize conditions that may lead to false-positive results and provides strategies for eliminating or modifying these conditions. Cross-contamination issues are specifically addressed.

Additional information is available from the National Laboratory Training Network, telephone (800) 536-6586, or from ASTPHLD, telephone (202) 822-5227.

Erratum: Vol. 46, No. 24

In the article "Update: Syringe-Exchange Programs—United States, 1996," on page 566 in the § footnote, the number of syringe exchange programs (SEPs) asking that their location not be reported is incorrect. The last sentence of the footnote should read "Fourteen SEPs asked that their location not be reported." On page 567, a credit was omitted from the "Reported by" section: Community Research Br, Div of Epidemiology and Prevention Research, National Institute on Drug Abuse.

FIGURE I. Selected notifiable disease reports, comparison of provisional 4-week totals ending October 18, 1997, with historical data — United States



^{*}Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE I. Summary — provisional cases of selected notifiable diseases, United States, cumulative, week ending October 18, 1997 (42nd Week)

	Cum. 1997		Cum. 1997
Anthrax Brucellosis Cholera Congenital rubella syndrome Cryptosporidiosis* Diphtheria Encephalitis: California* eastern equine* St. Louis* western equine* Hansen Disease Hantavirus pulmonary syndrome*† Hemolytic uremic syndrome, post-diarrheal* HIV infection, pediatric*§	60 8 4 1,412 5 87 6 10 - 83 16 48 182	Plague Poliomyelitis, paralytic Psittacosis Rabies, human Rocky Mountain spotted fever (RMSF) Streptococcal disease, invasive Group A Streptococcal toxic-shock syndrome* Syphilis, congenital Tetanus Toxic-shock syndrome Trichinosis Typhoid fever Yellow fever	2 38 2 344 1,110 29 390 34 101 7 271

^{-:}no reported cases

^{*}Not notifiable in all states.

†Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID). Supdated monthly to the Division of HIV/AIDS Prevention, Surveillance, and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), last update October 5, 1997.

**Updated from reports to the Division of STD Prevention, NCHSTP.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending October 18, 1997, and October 19, 1996 (42nd Week)

						erichia 157:H7			Нера	atitis
	All			mydia	NETSS [†]	PHLIS	Gono		C/N/	
Reporting Area	Cum. 1997*	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1997	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996
UNITED STATES	44,447	51,671	360,732	344,291	1,929	1,209	227,476	253,489	2,532	2,821
NEW ENGLAND Maine	1,903 46	2,062 32	13,971 820	13,869 736	169 16	110	4,580 55	5,191 50	51 -	86
N.H.	29	73	614	598	10	14	75	133	8	7
Vt. Mass.	31 646	18 995	339 5,902	314 5,576	7 90	2 79	43 1,753	42 1,769	2 34	22 51
R.I.	119	128	1,601	1,552	8	-	359	416	7	6
Conn. MID. ATLANTIC	1,032 13,720	816 14,332	4,695 48.704	5,093 48.474	38 114	15 40	2,295 29.632	2,781 33,029	- 285	243
Upstate N.Y.	2,137	1,854	N	N	76	-	4,750	6,001	212	194
N.Y. City N.J.	7,308 2,667	7,852 2,884	25,447 7,160	23,989 10,017	10 28	6 22	11,461 5,591	11,526 7,033	-	3
Pa.	1,608	1,742	16,097	14,468	N	12	7,830	8,469	73	46
E.N. CENTRAL Ohio	3,255 683	4,026 870	55,253 15,650	69,152 16,689	360 98	220 48	34,014 9,726	47,307 12,164	428 16	393 32
Ind.	447	463	7,464	8,063	63	35	4,962	5,175	10	8
III. Mich.	1,356 564	1,800 682	8,513 16,363	19,719 16,107	62 137	96	4,186 11,937	14,092 11,879	69 333	76 277
Wis.	205	211	7,263	8,574	N	41	3,203	3,997	-	
W.N. CENTRAL Minn.	859 157	1,203 225	19,717 U	25,352 4,017	450 202	349 185	9,061 U	12,459 1,881	136 3	80 2
lowa	86	71	3,713	3,486	102	63	945	914	28	37
Mo. N. Dak.	392 13	619 11	9,573 546	10,136 777	46 12	57 11	5,920 37	7,019 26	91 2	21
S. Dak.	8 83	10 83	1,107	1,183	28 40	23	124 695	150	2	- 7
Nebr. Kans.	120	184	1,768 3,010	2,191 3,562	20	10	1,340	857 1,612	10	13
S. ATLANTIC	10,879	13,030	72,751	40,273	171	119	72,121	74,843	224	158
Del. Md.	184 1,695	230 1,950	1,276 5,699	1,148 U	4 19	4 10	974 10,696	1,181 9,005	- 15	1 2
D.C.	767	1,008	· N	N	2	-	3,553	3,631	-	-
Va. W. Va.	879 92	894 88	9,002 2,369	9,392 1,745	N N	40 1	6,628 734	7,507 637	24 16	13 9
N.C. S.C.	680 631	678 663	14,774 9,936	U U	60 8	30 7	14,570 9,221	15,166 8,757	42 35	43 25
Ga.	1,267	1,870	10,112	9,554	36	-	11,676	14,852	U	-
Fla. E.S. CENTRAL	4,684 1,561	5,649 1,783	19,583 26,411	18,434 24,929	40 87	27 34	14,069 26,569	14,107 26,479	92 281	65 463
Ky.	290	307	5,136	5,428	28	-	3,319	3,384	12	28
Tenn. Ala.	638 384	640 470	10,163 6,935	10,965 6,760	42 14	34	8,854 9,658	9,737 10,820	197 10	333 4
Miss.	249	366	4,177	1,776	3	-	4,738	2,538	62	98
W.S. CENTRAL Ark.	4,694 180	5,128 225	47,595 2,068	43,330 1,476	62 9	16 5	31,631 3,455	30,418 3,302	386 3	311 8
La.	797	1,164	7,745	6,101	6	3	7,539	6,398	182	181
Okla. Tex.	240 3,477	191 3,548	6,085 31,697	6,114 29,639	9 38	5 3	3,932 16,705	3,969 16,749	7 194	1 121
MOUNTAIN	1,277	1,592	19,674	20,787	215	125	6,933	6,127	369	470
Mont. Idaho	35 41	33 31	776 1,253	1,005 1,236	22 29	- 21	34 112	25 87	20 52	13 94
Wyo.	13 299	5 434	476	495 2,598	16 75	12 53	44 1,824	37 1,191	176 34	145 50
Colo. N. Mex.	141	139	1,896 2,437	3,192	7	5	961	693	44	69
Ariz. Utah	323 104	462 142	9,627 1,354	8,620 1,248	N 55	24	3,211 219	2,997 243	25 4	61 19
Nev.	321	346	1,855	2,393	11	10	528	854	14	19
PACIFIC Wash.	6,299 532	8,514 539	56,656 7,384	58,125 7,691	301 98	196 54	12,935 1,567	17,636 1,678	372 21	617 48
Oreg.	248	359	3,950	4,377	69	78	596	684	3	6
Calif. Alaska	5,434 37	7,429 28	42,772 1,205	43,617 974	123 11	56 1	10,067 309	14,553 352	217 -	383 3
Hawaii	48	159	1,345	1,466	N	7	396	369	131	177
Guam P.R.	2 1,511	4 1,829	86 U	309 U	N 37	- U	9 481	55 533	- 124	6 130
V.I.	80	17	N	N	N	U	-	-	-	-
Amer. Samoa C.N.M.I.	1	-	- N	N	N N	U U	- 17	- 11	2	-

N: Not notifiable U: Unavailable

^{-:} no reported cases

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

^{*}Updated monthly to the Division of HIV/AIDS Prevention, Surveillance, and Epidemiology, National Center for HIV, STD, and TB Prevention, last update October 5, 1997.

†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 October 18, 1997, and October 19, 1996 (42nd Week)

	Legion	iellosis	Ly: Dise	me ease	Mal	laria	Syp (Primary &		Tubero	culosis	Rabies, Animal
Reporting Area	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997
UNITED STATES	739	798	8,408	12,562	1,370	1,331	6,530	9,463	13,667	15,340	6,359
NEW ENGLAND	62	57	2,595	3,600	72	49	112	147	346	336	952
Maine N.H.	2 7	2 3	8 36	46 42	1 8	7 2	-	1	11 13	18 11	174 31
Vt. Mass.	11 18	5 25	8 276	20 218	2 25	4 20	- 55	- 66	5 206	1 168	103 219
R.I.	7	22	343	425	5	6	2	3	30	27	26
Conn.	17	N	1,924	2,849	31	10	55	77	81	111	399
MID. ATLANTIC Upstate N.Y.	147 42	195 59	4,666 1,911	7,564 3,418	345 56	402 73	314 31	429 62	2,518 333	2,876 339	1,359 1,010
N.Y. City	7	18	51	354	198	242	70	123	1,300	1,482	Ū
N.J. Pa.	20 78	13 105	1,245 1,459	1,765 2,027	70 21	60 27	119 94	142 102	521 364	610 445	140 209
E.N. CENTRAL	216	241	77	385	110	154	559	1,382	1,315	1,621	160
Ohio Ind.	96 39	83 43	50 22	22 25	17 15	13 14	173 134	512 174	228 121	237 144	106 11
III.	7	31	5	8	31	75	59	397	643	848	16
Mich. Wis.	63 11	47 37	Ū	17 313	36 11	37 15	111 82	142 157	233 90	308 84	27 -
W.N. CENTRAL	54	44	120	156	46	39	134	290	441	401	395
Minn. Iowa	2 11	5 9	89 7	58 18	19 10	17 2	U 7	34 18	119 45	90 53	43 131
Mo. N. Dak.	21 2	13	17	44 1	8 3	10 1	99	202	184 10	159 8	21 64
S. Dak.	2	2	1	-	1	-	-	-	10	17	62
Nebr. Kans.	12 4	12 3	2 4	5 30	1 4	2 7	5 23	10 26	17 56	20 54	2 72
S. ATLANTIC	101	117	603	598	284	249	2,635	3,122	2,677	2,899	2,562
Del. Md.	9 19	11 25	35 432	167 280	5 77	3 71	17 751	34 569	18 256	34 238	47 469
D.C.	4	7	7	3	15	8	95	108	78	112	5
Va. W. Va.	20 N	17 N	52 7	45 11	63	39 5	189 3	341 9	254 47	234 50	556 78
N.C. S.C.	13 7	9 6	31 2	62 6	16 17	25 11	590 310	869 314	344 242	403 292	751 155
Ga.	-	3	1	1	30	26	430	564	498	529	270
Fla.	28	39	36	23	61	61	250	314	940	1,007	231
E.S. CENTRAL Ky.	38 6	43 6	66 8	67 23	30 8	33 7	1,401 114	2,034 122	984 138	1,104 183	242 27
Tenn.	25 3	19 4	37	19	7	13	618	677	349	385	131
Ala. Miss.	4	14	8 13	7 18	10 5	6 7	365 304	458 777	341 156	346 190	79 5
W.S. CENTRAL	27	18	74	97	46	41	977	1,455	1,885	1,740	278
Ark. La.	3	1 1	17 3	21 2	5 12	- 7	124 301	206 420	153 183	161 20	27 5
Okla. Tex.	4 20	6 10	21 33	20 54	4 25	34	106 446	150 679	139 1,410	135 1,424	91 155
MOUNTAIN	52	38	18	8	62	52	195	126	416	499	168
Mont. Idaho	1 2	1 -	3	1	2	7 -	1	4	7 11	15 7	43
Wyo.	1	4	4	3	2	7	-	2	2	6	31
Colo. N. Mex.	17 2	7 2	5 1	1	27 8	21 2	12 52	24 7	70 53	71 72	19 12
Ariz. Utah	12 10	15 3	2 1	- 1	11 3	6 4	116 5	71 2	202 25	187 39	49 6
Nev.	7	6	2	2	9	5	9	16	46	102	8
PACIFIC Week	42 7	45	189 8	87 14	375	312	203	478	3,085 225	3,864	243
Wash. Oreg.	-	6 -	17	14 18	19 18	21 20	9 9	9 8	125	222 135	14
Calif. Alaska	34	34 1	162 2	54 -	329 3	259 3	183 1	459	2,545 61	3,291 60	206 23
Hawaii	1	4	-	1	6	9	i	2	129	156	-
Guam	-	1	-	-	- 5	2	2	3 179	13 164	73 120	-
P.R. V.I.	-	-	-	-	5 -	1	213 -	178 -	164 -	130	58 -
Amer. Samoa C.N.M.I.	-	-	-	-	-	-	- 9	- 1	2	-	-
								•			

N: Not notifiable

U: Unavailable

-: no reported cases

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending October 18, 1997, and October 19, 1996 (42nd Week)

-	H. influ	ienzae,	Н	epatitis (Vi	ral), by typ	ре			Meas	les (Rubec	ola)	
		sive		Α		В	Indi	genous	lmp	orted [†]		tal
Reporting Area	Cum. 1997*	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	1997	Cum. 1997	1997	Cum. 1997	Cum. 1997	Cum. 1996
UNITED STATES	836	837	22,296	22,836	6,937	7,804	1	64	3	53	117	473
NEW ENGLAND	50	28	521	327	113	178	-	11	-	6	17	16
Maine N.H.	5 8	11	51 27	18 12	6 15	2 15	-	1	-	1 -	1 1	-
Vt. Mass.	3 30	1 14	11 197	9 165	5 41	11 67	-	10	-	4	14	2 12
R.I. Conn.	2 2	2	123 112	17 106	14 32	9 74	-	-	-	- 1	- 1	2
MID. ATLANTIC	112	173	1,511	1,576	1,035	1,155	_	14	-	8	22	37
Upstate N.Y. N.Y. City	29 28	43 45	256 553	364 482	226 358	280 409	-	2 5	-	3 2	5 7	11 11
N.J.	39	47	238	300	195	229	-	2	-	-	2	3
Pa. E.N. CENTRAL	16 133	38 147	464 2,190	430 2,040	256 708	237 882	-	5 7	-	3 3	8 10	12 20
Ohio	76	80	267	636	62	105	-	-	-	-	-	5
Ind. III.	14 29	12 40	240 509	256 616	79 177	111 284	-	6	-	1	7	3
Mich. Wis.	13 1	8 7	1,049 125	361 171	351 39	302 80	-	- 1	-	2	2 1	3 9
W.N. CENTRAL	41	37	1,812	1,999	369	414	-	12	-	5	17	22
Minn. Iowa	27 6	23 4	165 393	108 292	36 37	51 57	-	3	-	5 -	8	18 -
Mo. N. Dak.	4	7	912 10	1,016 111	253 4	241 2	-	1	-	-	1	3
S. Dak.	2	1	19	41	1	5	-	8	-	-	8	-
Nebr. Kans.	1 1	1 1	80 233	125 306	12 26	31 27	-	-	-	-	-	1
S. ATLANTIC	136	150	1,580	1,101	1,037	1,071	-	1	3	13	14	11
Del. Md.	48	2 53	28 188	15 192	5 151	8 136	-	-	-	2	2	1 2
D.C. Va.	- 12	5 9	17 189	35 141	27 104	29 118	-	-	-	1 1	1 1	3
W. Va.	3	7	10	13	14	22	-	-	-	2	2	-
N.C. S.C.	20 4	22 4	165 93	139 44	202 87	278 74	-	-	-	1	1	2
Ga. Fla.	26 23	32 16	416 474	149 373	110 337	32 374	-	1	3	1 5	1 6	2 1
E.S. CENTRAL	38	24	491	1,074	544	692	-	-	-	-	-	2
Ky. Tenn.	5 21	5 9	66 302	43 688	32 357	65 384	-	-	-	-	-	2
Ala. Miss.	12	9 1	72 51	164 179	59 96	60 183	-	-	-	-	-	-
W.S. CENTRAL	43	35	4,681	4,591	987	992	_	3	_	5	8	26
Ark. La.	1 11	- 4	201 195	377 165	45 131	70 124	-	-	-	-	-	-
Okla.	27	27	1,235	1,956	39	24	-	-	-	1	1	-
Tex. MOUNTAIN	4 81	4 46	3,050 3,642	2,093 3,604	772 747	774 930	1	3 7	-	4 2	7 9	26 156
Mont.	-	1	66	98	9	13	-	-	-	-	-	-
Wyo.	1	1	32	191 29	35 27	37	-	-	-	-	-	1
Colo. N. Mex.	12 8	13 10	344 311	377 317	134 225	111 334	-	-	-	-	-	7 16
Ariz. Utah	30 3	14 7	1,923 495	1,408 828	173 79	207 80	-	5	-	- 1	5 1	8 118
Nev.	23	-	357	356	65	71	1	2	-	1	3	5
PACIFIC Wash.	202 5	197 4	5,868 538	6,524 486	1,397 56	1,490 82	-	9 1	-	11 1	20 2	183 38
Oreg.	29	25	315	745	87	88	-	-	-	-	-	13
Calif. Alaska	156 6	160 6	4,868 26	5,188 39	1,227 18	1,297 11	U -	6	U -	8 -	14 -	40 63
Hawaii	6	2	121	66	9	12	-	2	-	2	4	29
Guam P.R.	-	2	235	7 182	1 1,184	1 761	U -	-	U -	-	-	2
V.I. Amer. Samoa	-	-	-	31	-	33	U U	-	U U	-	-	-
C.N.M.I.	6	10	1	1	34	5	ŭ	1	Ŭ	-	1	

N: Not notifiable

U: Unavailable

^{-:} no reported cases

 $^{^{*}}$ Of 187 cases among children aged <5 years, serotype was reported for 102 and of those, 40 were type b.

[†]For imported measles, cases include only those resulting from importation from other countries.

TABLE III. (Cont'd.) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending October 18, 1997, and October 19, 1996 (42nd Week)

		ococcal ease		Mumps			Pertussis			Rubella	
Reporting Area	Cum. 1997	Cum. 1996	1997	Cum. 1997	Cum. 1996	1997	Cum. 1997	Cum. 1996	1997	Cum. 1997	Cum. 1996
UNITED STATES	2,629	2,559	11	461	573	63	4,062	4,769	1	158	218
NEW ENGLAND	165	112	-	8	1	2	731	1,036	-	1	26
Maine N.H.	17 14	10 5	-	-	-	-	6 103	36 96	-	-	-
Vt.	4	4	-	-	-	-	196	108	-	-	2
Mass. R.I.	79 17	45 13	-	2 5	1 -	1 -	384 16	739 30	-	1 -	20
Conn.	34	35	-	1	-	1	26	27	-	-	4
MID. ATLANTIC Upstate N.Y.	258 55	272 72	1 1	44 8	76 21	15 1	290 97	399 216	-	29 2	12 4
N.Y. City	42	39	-	3	18	-	56	37	-	27	5
N.J. Pa.	55 106	55 106	-	5 28	4 33	- 14	9 128	28 118	-	-	2 1
E.N. CENTRAL	382	372	2	53	110	7	349	572	-	5	3
Ohio Ind.	145 44	129 51	- 1	24 9	39 8	- 5	128 50	192 55	-	-	-
III.	120	105	i	9	20	2	63	143	-	2	1
Mich. Wis.	44 29	39 48	-	11	40 3	-	43 65	35 147	-	3	2
W.N. CENTRAL	186	197	_	14	17	11	346	325	-	-	_
Minn.	29 41	25 40	-	5 7	5 2	11 -	221 48	251 17	-	-	-
Iowa Mo.	83	75	-	-	7	-	52	32	-	-	-
N. Dak. S. Dak.	2 5	3 10	-	-	2	-	2 4	1 4	-	-	-
Nebr.	8	20	-	2	-	-	6	7	-	-	-
Kans.	18	24	-	-	1	-	13	13	-	-	- 01
S. ATLANTIC Del.	468 5	404 2	3	63	94	7	384 1	506 22	-	83	91 -
Md. D.C.	42	52 5	-	4	31	-	106 3	178 1	-	1 1	- 1
Va.	47	49	-	10	12	-	42	73	-	i	2
W. Va. N.C.	16 80	13 66	- 1	10	20	- 1	6 106	2 97	-	- 59	- 77
S.C.	51	49	-	10	6	-	24	37	-	19	1
Ga. Fla.	92 135	120 48	2	10 19	3 22	2 4	13 83	19 77	-	2	10
E.S. CENTRAL	209	192	-	22	20	1	113	187	-	-	2
Ky. Tenn.	42 81	25 51	-	3 5	- 1	-	46 35	136 19	-	-	-
Ala.	68	70	-	8	4	1	24	23	-	-	2
Miss. W.S. CENTRAL	18 260	46 281	- 1	6 49	15 40	- 11	8 195	9 129	- 1	- 7	N 8
Ark.	30	30	-	1	1	11	38	7	1	3	-
La. Okla.	46 35	52 32	-	12	13	-	18 27	9 10	-	-	1
Tex.	149	167	1	36	26	-	112	103	-	4	7
MOUNTAIN Mont.	157 9	154 8	-	54	23	3	977 16	421 29	-	6	6
Idaho	10	22	-	3	-	1	546	100	-	1	2
Wyo. Colo.	3 43	3 32	-	1 3	4	- 1	7 255	5 156	-	-	2
N. Mex.	23	24	N	N	N	-	87	55	-	-	-
Ariz. Utah	41 12	34 15	-	32 8	1 3	1 -	34 16	28 18	-	5 -	1 -
Nev.	16	16	-	7	15	-	16	30	-	-	1
PACIFIC Wash.	544 70	575 82	4 3	154 17	192 20	6 6	677 312	1,194 529	-	27 5	70 15
Oreg.	104	102	N	N	N	-	17	56	_	-	1
Calif. Alaska	361 2	378 8	U -	111 4	141 3	U -	321 14	574 3	U -	14 -	51 -
Hawaii	7	5	1	22	28	-	13	32	-	8	3
Guam P.R.	1 10	4 11	U -	1 7	8 1	U -	- 1	2	U -	-	-
V.I.	-	-	U	-	1	U	-	-	U	-	-
Amer. Samoa C.N.M.I.	-	-	U U	4	-	U	-	-	U	-	-

N: Not notifiable

U: Unavailable

TABLE IV. Deaths in 122 U.S. cities,* week ending October 18, 1997 (42nd Week)

	1	All Cau	ises, By	/ Age (Y	ears)		P&I [†]		,	All Cau	ıses, By	/ Age (Y	ears)		P&I [†]
Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass.	51 U 4 28	383 89 32 14 31 36 17 14 11 36 U 4 25	21 6 2 4 5 3 1 9 U	29 17 - 2 1 2 - - 4 1 U	8 3 - - - 1 U	9 3 - - 1 - - 4 U	39 6 3 1 4 2 2 1 2 U	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del.	1,131 163 146 61 90 110 58 71 47 63 182 129	718 104 85 39 58 65 32 43 32 56 118 80 6	241 32 29 17 16 24 13 15 5 3 48 34 5	108 16 24 3 11 11 7 11 5 3	38 7 5 1 1 7 4 2 2 1 5 3	24 4 1 1 4 3 2 - 3	50 6 11 2 2 2 4 3 5 14 3
Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.	34 65 2,359 56 30 69 31 16 55	26 48 1,622 38 21 51 21 11 45	13 457 10 7 12 5 2	175 3 2 4 1 2	57 2 - 1 2 - 1	1 48 3 - 1 2 1	3 14 105 2 - 2 2 4 1	E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	731 145 55 72 61 109 91 55 143	467 96 32 53 33 67 55 41	166 32 17 15 16 22 28 7 29	55 10 4 2 8 11 4 4	25 2 1 1 1 8 3 3	17 4 1 1 3 1 1	52 20 3 8 4 8 1 3 5
Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa. Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	41 1,098 50 20 499 27 120 27 22 84 18 17 U	24 748 22 15 325 56 23 92 23 20 63 10 14 U	218 14 3 108 15 4 19 4 2 16 1	7 91 8 - 37 6 - 4 - - 4 5 - U	27 3 1 15 1 - 3 - - 1 U	3 14 3 1 14 1 - 2 - 1 2	33 3 24 2 5 11 3 2 7 3 1 U	W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	1,139 80 34 44 157 U 101 209 70 113 202 56 73	759 45 24 29 97 U 65 137 74 151 41	215 19 6 11 34 U 20 41 23 19 27 8 7	98 10 2 2 16 U 7 21 7 13 13	44 6 1 2 6 U 5 5 2 6 7 1 3	23 1 4 U 4 5 1 1 4 3	59 5 1 4 U 8 11 1 20 5 4
Folkers, N.T. E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, Ill. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Micl Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, Ill. Rockford, Ill. South Bend, Ind.	1,994 48 36 394 98 130 161 117 206 39 64	1,307 35 26 219 74 89 103 87 110 30 45 6 57 27 104 31 40 29	406 11 4 78 15 28 35 20 64 7 15 5 17 33 11 17 3	160 1 2 61 4 8 11 8 19 1 3 1 7 15 - 7	64 - 1 25 4 1 4 2 - 1 3 10 - 4 - 4	57 13 11 14 8 - 13 - 7 6 - 1	101 6 24 3 3 8 5 6 1 7 15 1 9 3 3	MOUNTAIN Albuquerque, N.M. Boise, Idaho Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif.	890 100 38 48 105 197 42 117 39	572 644 23 288 63 1299 34 74 23 75 59 935 7 32 14 57 24 173	171 18 7 10 25 44 3 18 10 20 232 2 7 3 12 48	78 10 6 8 7 11 2 11 2 14 7 84 1 2 1 3	36 7 3 7 3 8 2 6 -	32 1 2 7 6 2 3 3 27 3 1 1	56 1 1 1 6 5 7 8 5 12 10 85 2 4 1 8
Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, lowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	79 51 776 62 27 29 87 44 216 73 93 74	53 45 570 48 25 50 36 157 56 76 59 38	3 112 11 1 2 14 7 36 9 10 7	4 3 46 1 2 8 1 12 6 5 3 8	3 - 16 - - 2 - 7 - 1 3 3	22 3 - 3 - 4 2 1 2 7	5 2 35 6 2 1 2 3 6 6 6	Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif. San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash.	U 191 116	U 137 90 66 107 26 88 41 66 7,333	U 33 13 13 27 5 26 9 21 2,073	12 9 10 12 1 10 3 6	U 2 1 2 4 1 4 - - 310	U 6 3 1 1 3 4 3 259	U 23 11 5 10 7 6 2 6

U: Unavailable -: no reported cases

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

†Pneumonia and influenza.

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

Total includes unknown ages.

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