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MORBIDITY AND MORTALITY WEEKLY REPORT

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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 \geq 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

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Peptic Ulcer Disease — Continued

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

References

- Sonnenberg A. Peptic ulcer. In: Everhart JE, ed. Digestive diseases in the United States: epidemiology and impact. Washington, DC: US Department of Health and Human Services, Public Health Service, National Institutes of Health, 1994:359–408; NIH publication no. 94-1447.
- Marshall B, Warren JR. Unidentified curved bacilli on gastric epithelium in active chronic gastritis. Lancet 1983;1:1273–5.
- Borody TJ, Brandl S, Andrews P, Jankiewicz E, Ostapowicz N. *Helicobacter pylori*-negative gastric ulcer. Am J Gastroenterol 1992;87:1403–6.
- American Digestive Health Foundation and Opinion Research Corporation. Familiarity with *H. pylori* among adults with digestive disorders and their views toward diagnostic and treatment options. Bethesda, Maryland: American Digestive Health Foundation and Opinion Research Corporation, 1995.
- Maibach E, Maxfield A, Ladin K, Slater M. Translating health psychology into effective health communication: the American Health Styles Audience Segmentation Project. Journal of Health Psychology 1996;1:261–7.
- Sonnenberg A, Everhart JE. Health impact of peptic ulcer in the United States. Am J Gastroenterol 1997;92:614–20.
- 7. NIH Consensus Conference. *Helicobacter pylori* in peptic ulcer disease: NIH Consensus Development Panel on *Helicobacter pylori* in peptic ulcer disease. JAMA 1994;272:65–9.
- 8. van der Hulst RW, Keller JJ, Rauws EA, Tytgat GNJ. Treatment of *Helicobacter pylori* infection in humans: a review of the world literature. Helicobacter 1996;1:6–19.
- Fendrick AM, Hirth RA, Chernew ME. Differences between generalist and specialist physicians regarding *Helicobacter pylori* and peptic ulcer disease. Am J Gastroenterol 1996;91:1544–8.
- Breuer T, Malaty HM, Goodman K, Sudhop T, Graham DY. Has the scientific evidence about Helicobacter pylori infection in gastrointestinal diseases reached the practicing physicians in the U.S.? Am J Gastroenterol 1996;91:1905.

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

During 1995, pedestrian deaths accounted for approximately 15% of all motorvehicle-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, eye-catching 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

References

- NCHS. Vital statistics mortality data, underlying cause of death, 1995 [Machine-readable publicuse data tapes]. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, CDC, NCHS, 1997.
- Snyder MB, Knoblauch RL. Pedestrian safety: the identification of precipitating factors and possible countermeasures. Washington, DC: US Department of Transportation, National Highway Traffic Safety Administration, 1971; publication no. DOT-HS-800-403.
- Schieber RA, Thompson NJ. Developmental risk factors for childhood pedestrian injuries. Injury Prevention 1996;2:228–36.
- 4. Chapman AJ, Wade FM, Foot HC. Pedestrian accidents. Chichester, United Kingdom: John Wiley and Sons, 1982.
- 5. Wilson MH, Baker SP, Teret SP, Shock S, Garbarino J. Saving children, a guide to injury prevention. New York: Oxford University Press, 1991.
- 6. Piaget J. The child's concept of movement and speed. London: Routledge and Kegan Paul, 1970.
- Pease K, Preston B. Road safety education for young children. Br J Educ Psychol 1967;37:305– 13.
- 8. Dunne RG, Asher KN, Rivara FP. Behavioral and parental expectations of child pedestrians. Pediatrics 1992;89:486–90.

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 smallpox 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.

Smallpox Surveillance — Continued

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





Smallpox Surveillance — Continued

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,

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 smallpox. 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

Smallpox Surveillance — Continued

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

Smallpox Surveillance — Continued

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.

References

- 1. Hopkins DR. Princes and peasants: smallpox in history. Chicago, Illinois: University of Chicago Press, 1983.
- 2. Jezek Z, Fenner F. Human monkeypox. New York: Karger, 1988.
- 3. Douglass N, Dumbell K. Independent evolution of monkeypox and variola viruses. J Virol 1992;66:7565–7.
- 4. World Health Organization. Monkeypox. Wkly Epidemiol Rec 1996;71:326.
- 5. World Health Organization. Monkeypox in the Democratic Republic of the Congo (former Zaire). Wkly Epidemiol Rec 1997;72:258.
- 6. CDC. Recommendations of the International Task Force for Disease Eradication. MMWR 1993;42(no. RR-16).

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.

Poliomyelitis Eradication — Continued





*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

		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%			
ltaly¶	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	0.8	0	0	9	1.1	11%			
Tajikistan The Former Yugoslav	0	0	0	—	1	5	0.3	17%			
Republic of Macedonia	0	0	0	_	0	2	0.6	0			

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

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Total	188 ^{§§}	827	0.7	68%	1	938	1.1	78%	rad
Federal Republic of Yugoslavia	24	7	0.3	74%	0	10	0.6	80%	Vo. 42 Nitis E
Uzbekistan	0	7	0.1	29%	0	9	0.6	100%	ין א
Ukraine	1	129	1.5	82%	0	94	1.9	74%	0n 46
Turkmenistan	2	6	0.5	88%	0	5	0.5	100%	oli.
Turkey	19	68	0.3	34%	0	69	0.6	61%	א ב

*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.

ication — Continued

Poliomyelitis Eradication — Continued

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.

Poliomyelitis Eradication — Continued

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).

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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

Poliomyelitis Eradication — Continued

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.

References

- 1. CDC. Update: mass vaccination with oral poliovirus vaccine—Asia and Europe, 1996. MMWR 1996;45:911–4.
- 2. CDC. Progress toward global eradication of poliomyelitis, 1996. MMWR 1997;46:579-84.
- 3. CDC. Status of the global laboratory network for poliomyelitis eradication, 1994–1996. MMWR 1997;46:692–4.
- 4. CDC. Poliomyelitis outbreak—Albania, 1996. MMWR 1996;45:819-20.
- 5. Oblapenko G, Sutter RW. Status of poliomyelitis eradication in Europe and the Central Asian Republics of the Former Soviet Union. J Infect Dis 1997;175:S76–S81.
- 6. Kew OM, Mulders MN, Lipskaya GJ, da Silva EE, Pallansch MA. Molecular epidemiology of poliovirus. Semin Virol 1995;6:401–14.
- 7. CDC. Progress toward poliomyelitis eradication—Eastern Mediterranean Region, 1996–1997. MMWR 1997;46:793–7.
- Sutter RW, Chudaiberdiev YK, Vaphakulov SH, Tursunova D, Oblapenko G, Iskandarov TI. A large outbreak of poliomyelitis following temporary cessation of vaccination in Samarkand, Uzbekistan, 1993–1994. J Infect Dis 1997;175:S82–S85.

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

Reported BLL	Second qu	uarter, 1997	Cumulative reports.	Cumulative reports.	% Change from second quarter.
(μ g/dL)	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%

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

*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.

[†]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).

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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

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.

References

- 1. CDC. Adult blood lead epidemiology and surveillance—United States, second quarter, 1996. MMWR 1996;45:919–20.
- 2. CDC. Adult blood lead epidemiology and surveillance—United States, first quarter 1997, and annual 1996. MMWR 1997;46:643–7.
- 3. CDC. Adult blood lead epidemiology and surveillance—United States, fourth quarter, 1996. MMWR 1997;46:358–60,367.
- 4. CDC. Adult blood lead epidemiology and surveillance—United States, third quarter, 1996. MMWR 1997;46:105–7.
- 5. CDC. Update: blood lead levels-United States, 1991-1994. MMWR 1997;46:141-6.

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). ³Updated 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. ¹Updated from reports to the Division of STD Prevention, NCHSTP.

					Esche coli O	erichia 157:H7			Henatitis		
	AI	DS	Chlar	nydia	NETSS [†]	PHLIS [§]	Gono	rrhea	C/N/	A,NB	
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	1,903	2,062	13,971	13,869	169	110	4,580	5,191	51	86	
N.H.	46 29	32 73	614	598	10	14	55 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	- 15	359	416	7	6	
MID. ATLANTIC	13,720	14.332	4,095	5,093 48,474	30 114	40	2,295	33.029	285	243	
Upstate N.Y.	2,137	1,854	N 25.447	N 22.090	76 10	-	4,750	6,001	212	194	
N.J.	2,667	2,884	7,160	10,017	28	22	5,591	7,033	-	-	
Pa.	1,608	1,742	16,097	14,468	N 260	12	7,830	8,469	73 429	46	
Ohio	683	4,020 870	15,650	16,689	98	48	9,726	12,164	428	393	
Ind. III.	447 1,356	463 1 <i>.</i> 800	7,464 8,513	8,063 19 <i>.</i> 719	63 62	35	4,962 4,186	5,175 14,092	10 69	8 76	
Mich.	564	682	16,363	16,107	137 N	96 41	11,937	11,879	333	277	
W.N. CENTRAL	859	1,203	19,717	25,352	450	349	9,061	12,459	136	80	
Minn. Iowa	157 86	225	U 3 713	4,017	202 102	185 63	U 945	1,881	3 28	2 37	
Mo.	392	619	9,573	10,136	46	57	5,920	7,019	91	21	
N. Dak. S. Dak.	13 8	11 10	546 1,107	777 1,183	12 28	11 23	37 124	26 150	2	-	
Nebr. Kans	83 120	83 184	1,768 3 010	2,191 3 562	40 20	- 10	695 1 340	857 1 612	2 10	7 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	4 19	4 10	974 10 696	1,181 9.005	- 15	1	
D.C.	767	1,008	N	Ň	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	9	
N.C. S.C.	680 631	678 663	14,774 9,936	UU	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	Ü	-	
E.S. CENTRAL	4,004	1,783	26,411	24,929	40 87	34	26,569	26,479	281	463	
Ky. Tenn	290	307	5,136	5,428	28 42	- 34	3,319	3,384	12 197	28	
Ala.	384	470	6,935	6,760	14	-	9,658	10,820	10	4	
WISS.	249 4 694	300 5 128	4,177	43 330	3 62	- 16	4,738	2,538	62 386	98 311	
Ark.	180	225	2,068	1,476	9	5	3,455	3,302	3	8	
Okla.	240	1,164	6,085	6,114	9	3 5	3,932	3,969	7	101	
Tex.	3,477	3,548	31,697	29,639	38	3 125	16,705	16,749 6 127	194 260	121	
Mont.	35	33	776	1,005	215	-	0,933 34	25	20	13	
ldaho Wyo.	41 13	31 5	1,253 476	1,236 495	29 16	21 12	112 44	87 37	52 176	94 145	
Colo. N. Mex	299 141	434 139	1,896 2,437	2,598 3 192	75 7	53	1,824 961	1,191 693	34 44	50 69	
Ariz.	323	462	9,627	8,620	Ń	24	3,211	2,997	25	61	
Nev.	321	142 346	1,354	1,248 2,393	55 11	10	528	243 854	4 14	19	
PACIFIC	6,299	8,514	56,656	58,125	301	196	12,935	17,636	372	617	
Oreg.	532 248	359	7,384 3,950	4,377	98 69	54 78	596	684	21	48 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	Ň	7	396	369	131	177	
Guam P.R.	2 1.511	4 1.829	86 U	309	N 37	- U	9 481	55 533	- 124	6 130	
V.I.	80	17	Ň	N	N N	Ŭ	-	-	-	-	
C.N.M.I.	- 1	-	N	N	N N	U	- 17	- 11	2	-	

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

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.

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

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

N: Not notifiable U: Unavailable -: no reported cases

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		H. influ	ienzae,	Н	lepatitis (Vi	iral), by ty	ре	Measles (Rubeola)						
Reporting Area Cum. 1997* Cum. 1996 Cum. 1997 Cum. 1996 Cum. 1996 Cum. 1997 UNITED STATES 836 837 22,252 1 1 1 2 3 3 11 1 2 MID. ATLANTIC 112 173 1,511 1,576 1,035 1,155 1 4		inva	sive		A		В	Indi	genous	Imp	orted [†]	То	tal	
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 5 - 51 18 6 2 - - 1 1 - NH. 8 11 27 12 15 15 - 1 - - 2 1 - 2 2 123 17 14 9 - - - - - - 2 2 123 17 14 9 - 1 1 2 2 123 17 14 9 - 1 1 2 2 13 13 14 12 2 13 13 14 12 2 3 11 1 1 2	Reporting Area	Cum. 1997*	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	1997	Cum. 1997	1997	Cum. 1997	Cum. 1997	Cum. 1996	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	UNITED STATES	836	837	22,296	22,836	6,937	7,804	1	64	3	53	117	473	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	NEW ENGLAND	50	28	521	327	113	178	-	11	-	6	17	16	
Vr.311195112Mass.30141971654167-10-41412R.I.2212317149Conn.2-1121063274112MID. ATLANTIC1121731,5111,5761,0351,155-14-82237Upstate N.Y.2943256364226280-2-3511N.Y. City2845553482358409-5-2711N.J.3947238300195229-223Pa.1638464430256237-5-3812E.N. CENTRAL1331472,1902,040708882-75Ind.1412240256791115Ind.141224025679111223Wis.171251713980-1 <td>Maine N.H.</td> <td>5 8</td> <td>- 11</td> <td>51 27</td> <td>18 12</td> <td>6 15</td> <td>2 15</td> <td>-</td> <td>- 1</td> <td>-</td> <td>1</td> <td>1</td> <td>-</td>	Maine N.H.	5 8	- 11	51 27	18 12	6 15	2 15	-	- 1	-	1	1	-	
$\begin{array}{l c c c c c c c c c c c c c c c c c c c$	Vt.	3	1	11	9	5	11	-	-	-	-	-	2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mass. R I	30 2	14 2	197 123	165 17	41 14	67 9	-	10	-	4	14	12	
MID. ATLANTIC 112 173 1,511 1,576 1,035 1,155 - 14 - 8 22 37 Upstate N.Y. 29 43 256 364 226 280 - 2 - 3 5 11 N.Y. City 28 45 553 482 358 409 - 5 - 2 7 11 N.J. 39 47 238 300 195 229 - 2 - - 2 3 8 12 E.N. CENTRAL 133 147 2,190 2,040 708 882 - 7 - 3 10 20 Ohio 76 80 267 636 62 105 - - - - - - 5 Ind. 11 7 33 10 20 Ohio 76 80 267 79 111	Conn.	2	-	112	106	32	74	-	-	-	1	1	2	
Upstate N.Y. 29 43 256 364 226 280 - 2 - 3 5 11 N.Y. City 28 45 553 482 358 409 - 5 - 2 7 11 N.J. 39 47 238 300 195 229 - 2 - - 2 3 Pa. 16 38 464 430 256 237 - 5 - 3 8 12 E.N. CENTRAL 133 147 2,190 2,040 708 882 - 7 - 3 10 20 Ohio 76 80 267 636 62 105 - - - - 5 1 7 3 Mich. 13 8 1,049 361 351 302 - - 2 2 3 Wis. 1 7 125 171 39 80 - 1 - 1 <td< td=""><td>MID. ATLANTIC</td><td>112</td><td>173</td><td>1,511</td><td>1,576</td><td>1,035</td><td>1,155</td><td>-</td><td>14</td><td>-</td><td>8</td><td>22</td><td>37</td></td<>	MID. ATLANTIC	112	173	1,511	1,576	1,035	1,155	-	14	-	8	22	37	
N.J.3947238300195229-223Pa.1638464430256237-5-3812E.N. CENTRAL1331472,1902,040708882-7-31020Ohio7680267636621055Ind.141224025679111Ill.2940509616177284-6-173Mich.1381,04936135130219Wis.171251713980-1-19Win.27231651083651-3-5818Iowa643932923757N. Dak1011142 </td <td>Upstate N.Y. N.Y. City</td> <td>29 28</td> <td>43 45</td> <td>256 553</td> <td>364 482</td> <td>226 358</td> <td>280 409</td> <td>-</td> <td>2</td> <td>-</td> <td>3</td> <td>5 7</td> <td>11 11</td>	Upstate N.Y. N.Y. City	29 28	43 45	256 553	364 482	226 358	280 409	-	2	-	3	5 7	11 11	
Pa. 16 38 464 430 256 237 - 5 - 3 8 12 E.N. CENTRAL 133 147 2,190 2,040 708 882 - 7 - 3 10 20 Ohio 76 80 267 636 62 105 - - - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 1 9 36 36 51 - 3 - 5 8 18 10wa 6 4 393 292 37 57 - - - - - - 3	N.J.	39	47	238	300	195	229	-	2	-	-	2	3	
E.N. CENTRAL1331472,1902,040708882-7-31020Ohio7680267636621055Ind.141224025679111III.2940509616177284-6-173Mich.1381,049361351302223Wis.171251713980-119W.N. CENTRAL41371,8121,999369414-12-51722Minn.27231651083651-3-5818Iowa643932923757N. Dak1011142 <td< td=""><td>Pa.</td><td>16</td><td>38</td><td>464</td><td>430</td><td>256</td><td>237</td><td>-</td><td>5</td><td>-</td><td>3</td><td>8</td><td>12</td></td<>	Pa.	16	38	464	430	256	237	-	5	-	3	8	12	
Ind. 14 12 240 256 79 111 - 1 7 3 3 3 1 0 3 3 3 1 1 7 1 3 3 3 3 1 9 3 6 41 1 7 1 1 9 3 6 5 1 1 3 1 1 3 1	E.N. CENTRAL	133 76	147 80	2,190 267	2,040 636	708	882 105	-	7	-	3	10	20 5	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ind.	14	12	240	256	79	111	-	-	-	-	-	-	
Min. 16 6 1,945 361 631 362 1 2 2 3 3 Wis. 1 7 125 171 39 80 - 1 - - 1 9 W.N. CENTRAL 41 37 1,812 1,999 369 414 - 12 - 5 17 22 Minn. 27 23 165 108 36 51 - 3 - 5 8 18 Iowa 6 4 393 292 37 57 -	III. Mich	29 13	40 8	509 1 049	616 361	177 351	284 302	-	6	-	1	7	3	
W.N. CENTRAL 41 37 1,812 1,999 369 414 - 12 - 5 17 22 Minn. 27 23 165 108 36 51 - 3 - 5 8 18 Iowa 6 4 393 292 37 57 -	Wis.	1	7	125	171	39	80	-	1	-	-	1	9	
Minn. 27 23 165 108 36 51 - 3 - 5 8 18 Iowa 6 4 393 292 37 57 - 1 3 - 5 8 2 - 1	W.N. CENTRAL	41	37	1,812	1,999	369	414	-	12	-	5	17	22	
Mo. 4 7 912 1,016 253 241 - 1 - - 1 3 N. Dak. - - 10 111 4 2 - - - 1 3 S. Dak. 2 1 19 41 1 5 - 8 - - 8 Nebr. 1 1 80 125 12 31 - - - - Kans. 1 1233 306 26 27 - - - 1 1 S. ATLANTIC 136 150 1,580 1,101 1,037 1,071 - 1 3 13 14 11 Del. - 2 28 15 5 8 - - - 1	Minn. Iowa	27	23	165 393	108 292	36 37	51 57	-	3	-	5	8	18	
N. Dak. - - 10 111 4 2 - 1 3 13 14 11 0 0 0 0 1 1 0 1 1 0 1 1 1 1 1 1 <	Mo.	4	7	912	1,016	253	241	-	1	-	-	1	3	
S. Dat. 2 1 19 41 1 10 - 1 3 3 3 1 11 233 306 26 27 - - - 1 3 13 14 11 Distribution 3 13 14 11 Distribution 2 28 15 5 8 - - - 1 1 13 13 14 11 Distribution 2 2 2 15 5 8 - - - 1 1 1 <th1< th=""> 1 1 1 <th< td=""><td>N. Dak.</td><td>- 2</td><td>- 1</td><td>10</td><td>111</td><td>4</td><td>2</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></th<></th1<>	N. Dak.	- 2	- 1	10	111	4	2	-	-	-	-	-	-	
Kans. 1 1 233 306 26 27 - - - 1 S. ATLANTIC 136 150 1,580 1,101 1,037 1,071 - 1 3 13 14 11 Del. - 2 28 15 5 8 - - - 1	Nebr.	1	1	80	125	12	31	-	-	-	-	-	-	
S. ATLANTIC 136 150 1,580 1,101 1,037 1,071 - 1 3 13 14 11 Del 2 28 15 5 8 1	Kans.	1	1	233	306	26	27	-	-	-	-	-	1	
	S. ATLANTIC	136	150	1,580	1,101	1,037	1,071	-	1	3	13	14	11	
Md. 48 53 188 192 151 136 2 2 2	Md.	48	53	188	192	151	136	-	-	-	2	2	2	
D.C 5 17 35 27 29 1 1 -	D.C.	- 12	5	17	35	27 104	29	-	-	-	1	1	- 2	
W. Va. 3 7 10 13 14 22 - - - -	W. Va.	3	5	10	13	14	22	-	-	-	-	-	-	
N.C. 20 22 165 139 202 278 2 2 2 2	N.C.	20	22	165	139	202	278	-	-	-	2	2	2	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Ga.	26	32	416	44 149	110	32	-	-	-	1	1	2	
Fla. 23 16 474 373 337 374 - 1 3 5 6 1	Fla.	23	16	474	373	337	374	-	1	3	5	6	1	
E.S. CENTRAL 38 24 491 1,074 544 692 2	E.S. CENTRAL	38	24	491	1,074	544	692	-	-	-	-	-	2	
Tenn. 21 9 302 688 357 384 2	Tenn.	21	9	302	43 688	357	384	-	-	-	-	-	2	
Ala. 12 9 72 164 59 60	Ala.	12	9	72	164	59	60	-	-	-	-	-	-	
WISS. - I 51 175 50 103 - <th< td=""><td>WISS.</td><td>-</td><td>25</td><td>1 601</td><td>179</td><td>90</td><td>103</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></th<>	WISS.	-	25	1 601	179	90	103	-	-	-	-	-	-	
Ark. 1 - 201 377 45 70	Ark.	43		201	377	45	992 70	-	-	-	-	0 -	- 20	
La. 11 4 195 165 131 124	La.	11	4	195	165	131	124	-	-	-	-	-	-	
Tex. 4 4 $3,050$ $2,093$ 772 774 $ 3$ $ 4$ 7 26	Tex.	4	4	3,050	2,093	772	774	-	3	-	4	7	26	
MOUNTAIN 81 46 3,642 3,604 747 930 1 7 - 2 9 156	MOUNTAIN	81	46	3,642	3,604	747	930	1	7	-	2	9	156	
Mont 1 66 98 9 13	Mont.	- 1	1	66 114	98 191	9 35	13 77	-	-	-	-	-	- 1	
Wyo. 4 - 32 29 27 37 - - - 1	Wyo.	4	-	32	29	27	37	-	-	-	-	-	1	
Colo. 12 13 344 377 134 111 7	Colo.	12	13	344	377	134	111	-	-	-	-	-	7	
Ariz. 30 14 1,923 1,408 173 207 - 5 5 8	Ariz.	30	10	1,923	1,408	173	207	-	5	-	-	5	8	
Utah 3 7 495 828 79 80 1 1 118	Utah	3	7	495	828	79	80	-	-	-	1	1	118	
Nev. 23 - 357 350 65 7 1 2 - 1 3 5 DACIEIC 200 107 E 969 6 524 1 207 1 400 0 11 20 192	INEV.	23	-	307	300 6 524	1 207	1 400	I	2	-	11	3	5 102	
FAcine 202 197 $5,806$ $0,524$ $1,397$ $1,430$ $ 9$ $ 11$ 20 183 Wash. 5 4 538 486 56 82 $-$ 1 $-$ 1 2 38	Wash.	202	4	538	486	56	82	-	9 1	-	1	20	38	
Oreg. 29 25 315 745 87 88 13	Oreg.	29	25	315	745	87	88	-	-		-	-	13	
Alaska 6 6 26 39 18 11 63	Alaska	6	6	4,808	5, 188 39	1,227	1,297	-	-	-	-	- 14	40 63	
Hawaii 6 2 121 66 9 12 - 2 - 2 4 29	Hawaii	6	2	121	66	9	12	-	2	-	2	4	29	
Guam 7 1 1 U - U PR 2 225 192 1184 761	Guam PR	-	-	- -	7	1 1 101	1	U	-	U	-	-	-	
V.I	V.I.	-	-	235	31	1,184	33	U	-	U	-	-	2 -	
Amer. Samoa	Amer. Samoa C N M I	-	- 10	- 1	- 1	- 34	- 5	U	- 1	U	-	- 1	-	

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

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.

	Mening Dise	jococcal ease	Mumps				Pertussis		Rubella			
Reporting Area	Cum.	Cum.	1997	Cum.	Cum. 1996	1997	Cum. 1997	Cum.	1997	Cum. 1997	Cum.	
	2,629	2,559	1337	461	573	63	4,062	4,769	1357	1557	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	
R.I.	17	13	-	5	-	-	16	30	-	-	-	
Conn.	34	35 272	-	1	- 76	1 15	26	27	-	- 20	4	
Upstate N.Y.	55	72	1	8	21	1	97	216	-	23	4	
N.Y. City N.J.	42 55	39 55	-	3 5	18 4	-	56 9	37 28	-	27	5 2	
Pa.	106	106	-	28	33	14	128	118	-	-	1	
E.N. CENTRAL Ohio	382 145	372 129	2	53 24	110 39	7	349 128	572 192	-	5	3	
Ind.	44	51 105	1	9	8	5	50	55	-	- 2	- 1	
Mich.	44	39	-	11	40	-	43	35	-	-	2	
WIS.	29 196	48 197	-	-	3 17	- 11	65 246	147	-	3	-	
Minn.	29	25	-	5	5	11	221	251	-	-	-	
Iowa Mo.	41 83	40 75	-	7	2 7	-	48 52	17 32	-	-	-	
N. Dak. S. Dak	2	3 10	-	-	2	-	2	1 4	-	-	-	
Nebr.	8	20	-	2	-	-	6	7	-	-	-	
S. ATLANTIC	468	404	3	63	94	- 7	384	506	-	83	- 91	
Del.	5	2	-	-	21	-	1	22	-	- 1	-	
D.C.	42	52	-	4	-	-	3	1/8	-	1	1	
Va. W. Va.	47 16	49 13	-	10	12	-	42 6	73	-	1	2	
N.C. S.C	80 51	66 49	1	10 10	20 6	1	106 24	97 37	-	59 19	77 1	
Ga.	92	120	2	10	3	2	13	19	-	-	-	
FIA. F.S. CENTRAL	209	40 192	-	22	22	4	03 113	187	-	-	2	
Ky.	42	25	-	3	-	-	46	136	-	-	-	
Ala.	68	70	-	5	4	1	35 24	23	-	-	2	
Miss.	18	46	-	6 40	15	-	8 105	9 120	-	-	N o	
Ark.	260	30	-	49	40	11	38	129	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 Wyo.	10 3	22 3	-	3 1	-	1	546 7	100 5	-	1	2	
Colo.	43	32	-	3	4	1	255	156	-	-	2	
Ariz.	41	24 34	-	32	1	1	87 34	28	-	5	1	
Utah Nev.	12 16	15 16	-	8 7	3 15	-	16 16	18 30	-	-	- 1	
PACIFIC	544	575	4	154	192	6	677	1,194	-	27	70	
Wash. Oreg.	70 104	82 102	3 N	17 N	20 N	6	312 17	529 56	-	5	15 1	
Calif. Alaska	361	378	U	111 4	141 3	U	321 14	574 3	U	14	51	
Hawaii	7	5	1	22	28	-	13	32	-	8	3	
Guam PB	1 10	4 11	U	1 7	8 1	U	- 1	- 2	U	-	-	
V.I.	-	-	Ū.	-	1	Ū.	-	-	Ū.	-	-	
C.N.M.I.	-	-	U	- 4	-	U	-	-	U	-	-	

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)

N: Not notifiable U: Unavailable -: no reported cases

	A	All Cau	ses, By	Age (Y	'ears)		P&I [†]	t		All Causes, By Age (Years)					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. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass.	502 133 38 18 36 44 17 18 . 16 51 U 4 28	383 89 32 14 31 36 17 14 11 36 U 4 25	73 21 6 2 4 5 3 1 9 U 2	29 17 2 1 2 - 4 1 U -	83 	9 3 - 1 - 4 U -	39631 42212U 1	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.	1,131 146 61 90 110 58 71 47 63 182 129 11	718 104 85 39 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 5 12	38 75 1 7 4 2 2 1 5 3	24 4 1 4 3 2 - 3 - 6 -	50 6 11 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	7 13 457 10 7 12 5 2 8	- 2 175 3 2 4 1 2 1 7	- 2 57 2 - 1 2 - 1	1 - 48 3 - 1 2 1	3 14 105 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 90	166 32 17 15 16 22 28 7 29	55 10 4 2 8 11 4 4 12	25 2 1 1 8 3 6	17 4 1 3 1 1 6	52 20 3 4 8 1 3 5
Jersey City, N.J. New York City, N.Y. Newark, 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 79 27 120 27 22 84 18 18 17 U	24 748 22 15 325 56 23 92 23 20 63 10 14 U	7 218 14 3 108 15 4 19 4 2 16 1 1 2 U	91 8 - 37 6 - 4 - 4 5 - U	27 3 15 5 - 3 - - 1 U	3 14 3 1 14 1 2 - 1 2 - U	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 37 74 151 41 59	215 19 6 11 34 U 20 41 23 19 27 8 7	98 10 2 16 U 7 21 7 13 13 3 4	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
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, 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	406 11 4 78 15 28 35 20 64 7 15	160 1 61 4 11 8 19 1 3	64 1 25 4 1 4 2 - 1	57 1 3 11 4 8 - 13 - 1	101 6 24 3 8 5 6 1	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.	890 100 38 105 197 42 117 39 115 89	572 64 23 63 129 34 74 23 75 59	171 18 7 10 25 44 3 18 10 16 20	78 10 6 8 7 11 2 11 2 14 7	36 7 3 7 3 8 2 6	32 1 2 7 6 2 3 3	56 1 1 6 5 7 8 5 2 10
Gary, Ind. Grand Rapids, Mich Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio	13 91 161 38 133 35 60 40 79 51	6 57 97 27 104 31 40 29 53 45	5 17 33 11 17 3 13 8 19 3	1 7 15 7 1 2 2 4 3	1 3 10 - 4 - 4 1 3 -	7 6 1 1 -	- 7 15 1 9 3 3 - 5 2	PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif.	1,301 9 43 19 71 40 243 9 U 191	935 7 32 14 57 24 173 7 U 137	232 2 7 3 12 12 48 1 U 33	84 1 2 1 3 13 1 U 12	22 - - 8 - U 2	27 3 1 1 U 6	85 2 4 1 8 - U 23
W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	776 62 27 29 87 44 216 73 93 74 71	570 48 25 50 36 157 56 76 59 38	112 11 12 14 7 36 9 10 7 15	46 1 2 8 1 2 6 5 3 8	16 - - 2 - 7 - 1 3 3	22 3 - 3 - 4 2 1 2 7	356212366 - 72	San Diego, Ćalif. San Francisco, Calif Santa Cruz, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	116 92 151 33 131 57 96 10,823 [¶]	90 66 107 26 88 41 66 7,333	13 13 27 5 26 9 21 2,073	9 10 12 1 10 3 6 833	1 2 4 1 4 - 310	3 1 1 3 4 3 259	11 5 10 7 6 2 6 582

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

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.

Contributors to the Production of the MMWR (Weekly)

Weekly Notifiable Disease Morbidity Data and 122 Cities Mortality Data

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