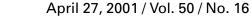


MORBIDITY AND MORTALITY

WEEKLY REPORT



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Workers' Memorial Day - April 28, 2001

Workers' Memorial Day, April 28, 2001, is a designated time to remember workers who have died from work-related injuries or illnesses. Although there have been substantial improvements in occupational health and safety (1), work-related injuries and deaths continue to be a major public health concern. During 1980–1997, 103,945 workers died from work-related injuries, an average of 16 deaths per day. In 1999, the most recent year for which data are available, economic costs of fatal and nonfatal unintentional work-related injuries were an estimated \$122.6 billion (2).

This year, the date also marks the 30th anniversary of the Occupational Safety and Health Act and the establishment of the Occupational Safety and Health Administration and CDC's National Institute for Occupational Safety and Health (NIOSH). NIOSH was established to conduct research and make recommendations to prevent workrelated injuries, illnesses, and deaths.

Additional information on causes and prevention of work-related injury and illness is available from CDC, telephone (800) 356-4674 or at http://www.cdc.gov/niosh/homepage.html.

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Baler and Compactor-Related Deaths in the Workplace — United States, 1992–2000

Equipment that compacts and bales loose solid waste materials into denser, more easily transported units is common in refuse disposal and recycling and is used routinely at recycling centers, manufacturing facilities, and retail and wholesale stores to compress paper, textiles, metals, plastic, and other material*. Persons operating balers and compactors can become caught by the powered rams of the compression chambers while using these machines. Risk factors resulting from these incidents have been identified through surveillance findings and results of investigations conducted by CDC's National Institute for Occupational Safety and Health (NIOSH) Fatality Assessment and

^{*}This report considers only stationary machines.

Baler and Compactor — Continued

Control Evaluation (FACE) program[†] and the Bureau of Labor Statistics Census of Fatal Occupational Injuries (CFOI)[§], a nationwide multisource reporting system for occupational deaths. This report describes the results of two baler and compactor-related investigations conducted during 1992–2000, summarizes surveillance data from 1992 through 1998, which indicated that some employers and workers may have been unaware of the hazards of operating or working near compacting and baling equipment, and suggests safety recommendations for preventing future incidents.

Case Reports

Case 1. In July 2000, a 16-year-old produce market worker died from crushing injuries when he was caught in the vertical downstroke baler (Figure 1) he was operating. He was working alone in the market's basement and was using the baler to crush cardboard boxes when he was caught by the machine's ram. Investigations determined that the machine's safety interlock[¶] had been bypassed, allowing the machine to operate with the loading door open. The worker may have reached into the compression chamber while the machine was operating and was caught by the ram during its downstroke.

Case 2. In May 1997, a 34-year-old paper products worker died after falling into an operating baler. The worker and a co-worker were loading scrap paper into the baler through a belt conveyor when the material jammed in the baler's feed chute (Figure 1). The co-worker shut down the conveyor but not the baler's automatic controls, and the worker ascended to a platform between the end of the conveyor and the feed chute. When he leaned over the platform rail to clear the jam, he fell through the feed chute and into the compression chamber. His presence tripped the automatic control sensor, and the baler's ram was activated.

Surveillance Data

CFOI identified 34 deaths related to compactors and balers during 1992–1998; 29 (85%) occurred when a worker was caught or crushed by the compacting ram of the machine. Decedents were age 17–72 years (median: 37 years): six were <25 years, 10 were 25–34 years, nine were 35–44 years, and nine were \geq 45 years. Twelve worked in the wholesale trade industry; nine in manufacturing; eight in transportation/communications/public utilities; and the remainder in retail and services industries. Six deaths occurred during the processing of cardboard; five workers were processing paper; five were processing trash; and five were processing cans, scrap metal, cotton, or plastic wrap. For eight deaths, the material being processed was not specified.

During 1992–2000, FACE received 19 reports of baler and compactor-related deaths from 13 states (four in Missouri, three in New Jersey, two in Massachusetts, and one each in California, Colorado, Iowa, Nebraska, New York, North Carolina, South Carolina,

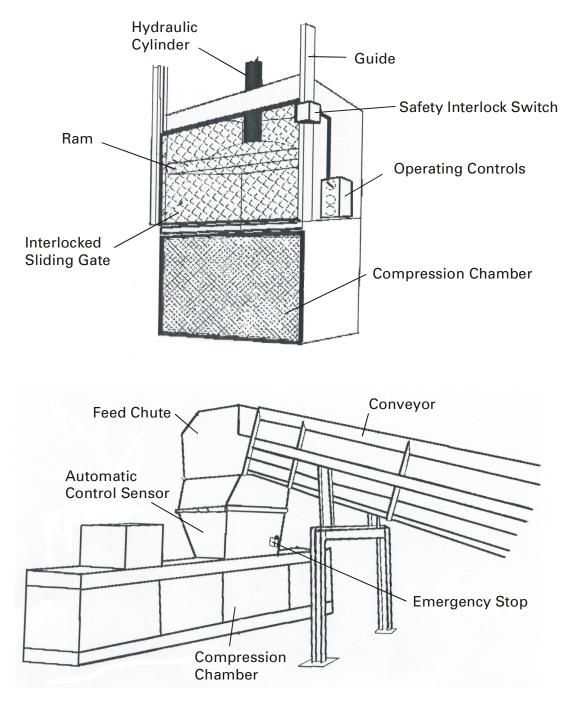
⁺ FACE conducts fatality investigations of selected categories of cases, including machineryrelated incidents, and disseminates injury prevention information. Through a series of cooperative agreements with NIOSH, 15 states maintain multisource surveillance networks to identify all traumatic occupational deaths, conduct site investigations, and disseminate prevention information.

[§] CFOI is a multisource (e.g., death certificates, medical examiner/coroner reports, workers' compensation reports, and police reports) reporting system for occupational deaths implemented nationwide by the Bureau of Labor Statistics in 1992.

[¶]A device or mechanism used to connect individual components so that the action of one part of the equipment is constrained by or dependent on another (1,2); in general, the purpose of an interlock is to prevent or interrupt the operation of machine components under specified conditions, usually when a hazard is present. As applied to balers and compactors, the interlock prevents or interrupts movement of the compacting ram if the machine's access doors are opened while the machine is energized or in motion.

Baler and Compactor — Continued





Baler and Compactor — Continued

Tennessee, Texas, and Washington). All 19 were men, aged 16–52 years (median: 36 years), who sustained crushing or amputation injuries from the compacting ram after they reached into or entered the compression chamber of an operating machine. Injury-related activities were identified through case reports; reaching or falling into the compression chamber injured 12 persons, the presence of the worker in the compression chamber automatically activating the ram injured six, clearing jammed material from an operating machine injured five, co-workers activating the ram without knowing that the worker was inside the compression chamber injured three, and attempting to retrieve unbalable material from an operating machine injured for an operating machine injured two; some incidents involved more than one factor.

Field investigations that identified injury risks were conducted for 11 incidents. Nine involved failure to implement effective power supply shutdown and ram pressure dissipation procedures, six involved failure to follow standard procedures for clearing material jams, six involved attempting to clear material jams without shutting down the machine's automatic controls, five involved operating machines with bypassed or defective safety interlocks, and three involved workers' operating a machine without determining the location of co-workers.

Reported by: Fatality Assessment and Control Evaluation Program, Div of Safety Research, National Institute for Occupational Safety and Health, CDC.

Editorial Note: Baling and compacting equipment is built in various sizes and configurations; however, whether the machine is a compactor or a baler, workers are exposed to similar injury risks. Both types of machines compress refuse material through the action of a powered ram that moves vertically or horizontally into and through a compression chamber. Using tons of pressure, the ram compresses the chamber contents into a small, dense unit. Balers compress and bind the material using wire or twine, and compactors compress the material into a container that is stored for later transport. Recently manufactured machines conform to American National Standards Institute specifications such as point-of-operation guards to prevent injury associated with reaching into an operating machine and interlocked control systems to interrupt or reverse the ram's motion when the compression chamber doors are opened (*1,2*). However, some older machines may not have guards and interlocks.

Automatically controlled machines operate when the control system senses the presence of sufficient material to be compressed. Because ram motion may not have started or may have ceased during a jam, workers may not recognize that the machine is operational and the ram could activate inadvertently unless the power supply is disconnected and the ram pressure is dissipated. Employers may not recognize the need to standardize jam clearing procedures to include both power supply shutdown and ram pressure dissipation procedures.

The findings in this report are subject to at least five limitations. First, because of the variety of industries and circumstances in which these machines were used and the limits of surveillance for fatal injuries, this report may underestimate the number of compactor- and baler-related deaths. Second, the FACE state component receives reports of work-related deaths from only 15 states. Third, because of limited injury descriptions in CFOI compared with FACE descriptions, the exact circumstances of injury often cannot be determined. Fourth, deaths identified by FACE from 1992 through 1998 probably were included in CFOI although not necessarily identified as baler- or compactor-related; therefore, FACE and CFOI cases overlap. Finally, the number of reported cases was small, thus limiting generalizability.

Baler and Compactor — Continued

On the basis of information collected from FACE investigations, the following measures are recommended to reduce the risk for worker injury in compactors and balers: 1) employers should train workers to recognize the hazards of operating or working near balers and compactors; 2) before jams are cleared, authorized employees should verify that the machine's electrical power has been disconnected, the disconnecting device has been locked and tagged, and the ram pressure has been dissipated (*3*); employers should implement appropriate power supply shutdown procedures whenever repair or maintenance is needed (*4*); 3) employers should implement standard procedures for managing common events such as material jams; 4) balers and compactors should be equipped with machine guards and safety interlocks to prevent worker injury and interlocks should be designed so that they cannot be bypassed; and 5) employers should require machine operators to account for the location of co-workers before activating compactor or baler rams.

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Nonfatal Occupational Injuries and Illnesses Treated in Hospital Emergency Departments — United States, 1998

The National Electronic Injury Surveillance System (NEISS) includes data about nonfatal occupational injuries and illnesses treated in U.S. hospital emergency departments (EDs). This report summarizes 1998 injury and illness estimates based on NEISS, which indicate that the magnitude and patterns of nonfatal occupational injuries and illnesses were comparable to estimates reported for 1996 (1). Younger workers continue to have the highest rates of work-related injuries and illnesses; therefore, interventions should address the health and safety needs of young workers, most of whom lack substantial experience in the work place.

In 1998, NEISS identified approximately 47,000 work-related injuries and illnesses treated in 67 EDs derived from a national stratified probability sample of all U.S. hospitals with a minimum of six beds and a 24-hour ED.* The NEISS sampling frame for work-related ED visits was updated in October 1997 based on the 1995 listing of U.S. hospitals with EDs. As a result, compared with earlier reports, the updated hospital sample had

^{*} Through a collaboration between NIOSH and the U.S. Consumer Product Safety Commission (CPSC), work-related injury and illness information was collected without limitations by age, consumer product involvement, or type of injury event at two thirds of the 101 NEISS hospitals used by CPSC for the collection of product-related injuries.

Nonfatal Occupational Injuries — Continued

changes in the makeup of hospitals within each size stratum in the sample and the statistical weights for cases, which are used to extrapolate to national estimates (1).

Work-related ED visits for injury or illness were identified from admissions information and ED chart review. A work-related case was defined as any injury or illness incurred by a civilian worker while working for compensation, arriving or leaving work but on the employers' premises, during transportation between locations as a part of the job (excluding commuting to or from home), doing agricultural production activities, or working as a volunteer for an organized group (e.g., volunteer fire department) (2). Military injuries, common illness cases (e.g., colds or viruses), routine drug and alcohol screening, and revisits to an ED for a previously treated injury or illness were excluded.

Employment estimates, used to calculate injury rates, were 12-month averages for 1998 Current Population Survey (CPS) data based on full-time equivalent (FTE) workers (1 FTE=2000 hours per year) (3). CPS is a monthly household survey of the U.S. civilian, noninstitutionalized population aged \geq 15 years that includes wage and salary workers, self-employed workers, part-time workers, and unpaid workers who worked \geq 15 hours a week in family-operated enterprises, but excludes volunteers for organized groups. However, cases involving volunteer workers were not removed from the injury/illness estimates or rate estimates presented in this report because of difficulties in identifying these workers in the NEISS database. Injuries and illnesses to workers aged \leq 14 years (0.1% of total) were included in the total injury/illness estimates but were excluded from injury/illness estimates in the rate calculations because employment data for this age group were not available.

In 1998, an estimated 3,600,000 (95% confidence interval [CI]=±600,000) occupational injuries and illnesses to workers of all ages were treated in EDs. The overall occupational injury and illness rate was 2.9 (95% CI=±0.5) per 100 FTE workers aged \geq 15 years. The injury and illness rate for males (3.4; 95% CI=±0.6) was 1.6 times the rate for females (2.1; 95% CI=±0.3). The rate was highest for younger workers and decreased with increasing age (Figure 1).

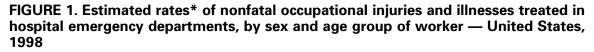
Workers aged 15–17 years had a particularly high rate of burns, ranging from two- to 10-fold higher than that for older workers (Figure 2). Burns and lacerations accounted for one half of injuries to workers aged <20 years and approximately one fourth to one third of injuries to workers aged \geq 20 years.

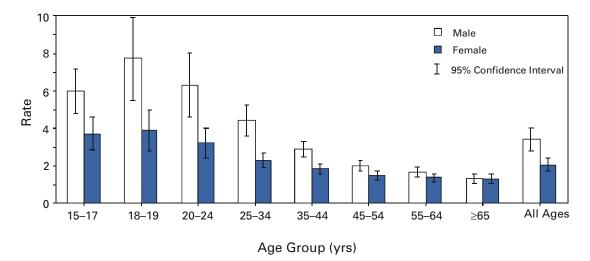
In 1998, approximately 70% of injuries resulted in lacerations, punctures, amputations, and avulsions (27%); sprains and strains (25%); and contusions, abrasions, and hematomas (21%). Hands and fingers, the most commonly injured body parts (30%), were treated almost twice as frequently in EDs as injuries to other anatomic groups: trunk, back, and groin (18%); head and neck (17%); lower extremities (17%); and upper extremities (excluding hands and fingers) (15%).

Nearly all of the estimated 3.6 million work-related injuries and illnesses were treated in EDs and released. Approximately 60,000 (95% Cl=±16,000) of these injuries/illnesses resulted in hospitalization, and an additional 18,000 (95% Cl=±5,000) were transferred from the ED to another medical facility. Of hospitalized patients, 85% were males. The highest proportion of hospitalizations (35%) were the result of fractures and dislocations. *Reported by: Div of Safety Research, National Institute for Occupational Safety and Health, CDC.*

Editorial Note: The findings in this report indicate that the number and distribution of work-related injuries/illnesses treated in an ED and the injury/illness rates, overall and by sex, were approximately equal for 1996 and 1998. These trends continue to be

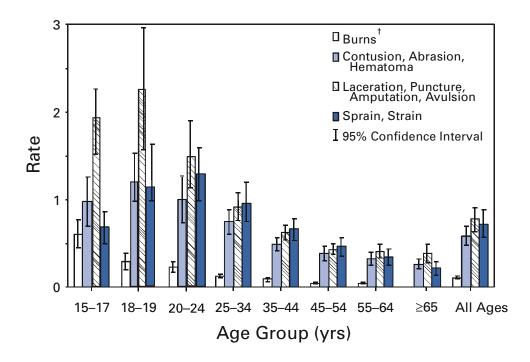
Nonfatal Occupational Injuries — Continued





*Per 100 full-time equivalents.

FIGURE 2. Estimated rates* of nonfatal occupational injuries and illnesses treated in hospital emergency departments, by selected diagnoses and age group of worker — United States, 1998



*Per 100 full-time equivalents.

[†] The rate of burns to workers aged ≥65 years did not meet minimum reporting requirements.

Nonfatal Occupational Injuries — Continued

consistent with general patterns observed in the earliest NEISS-based national estimates of ED-treated nonfatal work-related injuries/illnesses reported for 1982 (4).

The 1996 NEISS injury estimates were based on a hospital sampling frame that used the 1985 listing of U.S. hospitals. Because of the 1997 sampling frame update and changes in procedures for correcting hospital underreporting, the previously reported estimate for 1996 of 3.3 million injuries (1) is now crudely estimated to be approximately 4% lower (3.2 million) (NIOSH and the Consumer Product Safety Commission, unpublished data, 2000). Proportional distributions for 1996 are influenced minimally by the sampling and weighting factors and are more directly comparable to 1998 estimates.

The Bureau of Labor Statistics (BLS) reported approximately 5.9 million nonfatal occupational injuries and illnesses in 1998, with an incidence rate of 6.7 injuries/illnesses per 100 FTE workers for private industry (5). BLS excludes the self-employed, small farms, and government employees, restrictions that do not apply to the NEISS work-related injury estimates. However, NEISS estimates are restricted to ED-treated injuries and illnesses; BLS includes workplace injuries and illnesses treated in any health-care venue. If 1998 patterns of medical treatment are similar to those determined from the 1988 National Health Interview Survey (NHIS) Occupational Supplement (1), then the 3.6 million ED-treated injuries/illnesses in NEISS represent approximately one third (34%; 95% Cl= \pm 5%[†]) of all U.S. work-related injuries/illnesses that required medical treatment or resulted in lost work time of more than 1 day in 1998. By crude extrapolation, approximately 10 million occupational injuries and illnesses in 1998 is probably a more comprehensive figure for the overall injury/illness burden of U.S. workers.

Workers aged 15–17 years had an injury/illness rate of 4.9 per 100 FTE in 1998. Most of these injuries in younger workers were probably related to the high proportion of youth working in services and retail trades, particularly eating establishments (6,7). Teenagers are at particularly high risk for injuries because they frequently lack substantial work experience, safety training, and appreciation for their workplace injury risk. One of the national health objectives for 2010 is to reduce the adolescent occupational injury rate to no more than 3.4 per 100 FTE workers aged 16–17 years (objective 20-2h) (8). Effective strategies to address workplace safety issues for youth, such as those developed in community-based young worker projects in California and Massachusetts (9), must be implemented to meet the objective.

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[†] Percentage of the 3.1 million occupational injuries estimated for 1988 that received initial medical treatment in an ED. The 2000 NHIS is expected to provide a more up-to-date estimate of ED use for occupational injuries and may indicate that use of different medical venues has changed substantially since the 1988 survey.

Nonfatal Occupational Injuries — Continued

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Fatal Occupational Injuries — United States, 1980–1997

CDC monitors deaths from occupational injuries through the National Traumatic Occupational Fatalities (NTOF) surveillance system (1,2). This report provides an overview of traumatic occupational deaths among civilian workers from NTOF from 1980 through 1997, the most recent year for which data are available. The data presented in this report indicate a decrease in occupational deaths over this period with mining, agriculture/forestry/fishing, and construction having the highest death rates; motor-vehicle crashes were the leading cause of injury-related deaths for U.S. workers. State health departments and others involved in prevention of occupational injuries can use the data to prioritize intervention programs.

NTOF contains information obtained from death certificates from the vital statistics reporting units in the 50 states, New York City, and the District of Columbia (1).* Crude death rates per 100,000 workers were calculated as the number of deaths among civilian workers for each year divided by the number of employed civilians for each year. Employment estimates for rate calculations were obtained from the Bureau of Labor Statistics' (BLS) Current Population Survey (CPS), a population-based, household-sample survey of the civilian, noninstitutionalized population. These data were extracted from the BLS *Employment and Earnings*[†] and the CPS monthly microdata files (3). Employment data used for rate calculations were based on the number of workers.

National Estimates

During 1980–1997, 103,945 civilian workers died in the United States from occupational injuries, an average of 16 work-related deaths per day. The annual number of traumatic occupational deaths declined 28%, from 7343 in 1980 to 5285 in 1997. The rate for occupational injury deaths for all workers decreased 45%, from 7.4 per 100,000 workers in 1980 to 4.1 in 1997.

Males accounted for 93% of all deaths, with a death rate approximately 11 times that of females (Table 1). Although 85% of civilian workers who died were white, blacks had a higher fatality rate (5.6 per 100,000 workers) than whites (5.0). Workers aged 25–34 years accounted for the largest number of occupational injury deaths, and workers aged ≥ 65 years had the highest age-specific death rate (Table 1).

^{*}Inclusion criteria for death certificate submission to the NTOF database include 1) age ≥16 years; 2) external cause of death (*International Classification of Diseases, Ninth Revision,* codes E800-E999); and 3) "Injury at Work?" item marked positive by the certifier.

[†] Employment estimates were based on household data annual averages from the BLS monthly publications of the *Employment and Earnings*. These estimates are extracted from each of the January issues for 1980–1997.

Fatal Occupational Injuries — Continued

Characteristic	No.	(%)	Rate
Sex			
Male	97,053	(93)	8.6
Female	6,886	(7)	0.8
Unknown	6	(<1)	_
Race			
White	88,392	(85)	5.0
Black	11,478	(11)	5.6
Other	3,167	(3)	4.8
Unknown	908	(1)	_
Age group (yrs)			
16–17	969	(1)	2.1
18–19	2,714	(3)	3.8
20–24	10,791	(10)	4.5
25–34	26,390	(25)	4.7
35–44	22,881	(22)	4.5
45–54	18,213	(18)	5.2
55–64	14,108	(14)	6.9
<u>≥</u> 65	7,779	(7)	13.3
Unknown	100	(<1)	
Total	103,945	(100)	5.1

TABLE 1. Number and rate*	of traumatic occupational deaths, by sex, race, and
age group — United States,	1980–1997

*Per 100,000 workers. Rates not calculated for "unknown" or "not classified" categories.

Since 1980, motor-vehicle crashes accounted for 24% of deaths and were the leading cause of injury-related death for U.S. workers. In 1990, homicides became the second leading cause of occupational injury deaths (14%), surpassing machine-related deaths (13%). Deaths caused by falls and electrocutions accounted for 10% and 7% of work-related deaths, respectively.

The industries in which the largest numbers of deaths occurred were construction (19,179 deaths [19% of reported deaths]), transportation/communications/public utilities (17,489 [17%]), and manufacturing (15,490 [15%]). Industries with the highest death rates were mining (30 per 100,000 workers), agriculture/forestry/fishing (19), and construction (15).

The risk for specific causes of death varied by industry. Machinery was the leading cause of death in agriculture/forestry/fishing, mining, and manufacturing. Falls were the most prevalent in construction, followed by motor-vehicle crashes, and machinery. Motor-vehicle crashes were the leading cause of death in transportation/communications/public utilities, wholesale trade, and public administration. Homicide was the leading cause of death in retail trade, finance/insurance/real estate, and services.

The occupation categories in which the largest number of deaths occurred were precision production/craft/repairers (21,412 deaths [21%]), transportation/material movers (18,251 [18%]), and farmers/foresters/fishers (13,597 [13%]). Occupation categories with the highest death rates were farmers/foresters/fishers (21.4 per 100,000 workers), transportation/material movers (21.3), and handlers/equipment cleaners/helpers/laborers (13.4).

State Estimates

The greatest number of fatal occupational injuries occurred in California (10,712 deaths [10%]), Texas (10,294 [10%]), Florida (6,269 [6%]), Illinois (4,582 [4%]), and Pennsylvania

Fatal Occupational Injuries — Continued

(4,402 [4%]). Fatal occupational injury rates were highest in Alaska (22.7 per 100,000 workers), Wyoming (15.8), Montana (11.8), Idaho (10.4), and West Virginia (10.1). The leading causes of death varied for each of these five states. For example, water transport accounted for the most deaths in Alaska (33%), compared with approximately 2% for the United States, and air transport was the second or third leading cause of death in four of the five states, compared with being the seventh overall cause of death nationally. *Reported by: Div of Safety Research, National Institute for Occupational Safety and Health,*

Reported by: Div of Safety Research, National Institute for Occupational Safety and Health CDC.

Editorial Note: The findings in this report indicate a general decrease during 1980–1997 in the annual number of deaths and the annual rates of occupational deaths in the United States. In addition, the leading causes of death have changed through the 1990s. Although surveillance data cannot identify reasons for these temporal trends, changes in the workplace (e.g., increased and better targeted regulations, improved hazard awareness, new technology, and mechanization) are possible factors (4). In addition, changes in the economy, the industrial mix, and the distribution of the workforce (4) and improvements in acute trauma care for injured workers may have contributed to these decreases.

NTOF is the only surveillance system with comprehensive fatal occupational injury data for the United States during the 1980s. NTOF provides data for examining temporal trends and analyzing data by cause of death and industry, both useful tools for identifying injury patterns and suggesting targets for interventions.

The findings in this report are subject to at least four limitations. First, only 67%–90% of all fatal occupational injuries can be identified using death certificates as the source of case identification (1). Second, standardized guidelines for coding the "Injury at Work?" item on the death certificates were introduced in 1992;[§] as a result, earlier application of this item may have been inconsistently applied. Third, information derived solely from death certificates lacks the level of detail found in multisource databases, resulting in increased potential for misclassification. Finally, the rates presented in this report do not reflect the difference in exposure for groups that commonly work <40 hours per week (e.g., youth and older workers).

In 1992, BLS began collecting data on work-related deaths from all 50 states and the District of Columbia through the Census of Fatal Occupational Injuries (CFOI), a multisource surveillance system that incorporates information from various sources, including death certificates, workers' compensation reports, medical examiner and coroner reports, news media, motor-vehicle incident reports, information from other federal agencies, and follow-up questionnaires (5). CFOI uses multiple data sources and requires that work-relatedness be substantiated by at least two of these sources, leading to improvements in both case ascertainment and data accuracy. NTOF and CFOI identified similar patterns from 1992 through 1997, the years for which data collection for the two systems overlapped; however, NTOF identified 32,368 deaths, compared with 37,875 by CFOI (6).

One of the national health objectives for 2010 is to reduce the rate of work-related injury death to 3.2 per 100,000 workers (objective 20-1a) (7). Surveillance data, such as those gathered through NTOF and CFOI, provide the basis for strategies to prevent traumatic work-related deaths by profiling high-risk worker groups and leading causes of death. This information can be used to develop targeted injury-prevention efforts.

[§] In 1992, national guidelines for completing the "Injury at Work?" item were developed and disseminated by the Association for Vital Records and Health Statistics (now the National Association for Public Health Statistics and Information Systems), NIOSH, the National Center for Health Statistics, and the National Center for Environmental Health (1).

Fatal Occupational Injuries — Continued

Additional information about NTOF is available from NIOSH, telephone (800) 356-4674 or (513) 533-8328; or at http://www.cdc.gov/niosh/homepage.html.

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Progress Toward Global Poliomyelitis Eradication, 2000

In 1988, the World Health Assembly resolved to eradicate poliomyelitis globally by 2000 (1). Substantial progress toward this goal has been reported from all six World Health Organization (WHO) regions*; 20 countries reported poliovirus transmission in December 2000 compared with 30 in 1999. WHO has prepared a global action plan that anticipates certification of polio eradication in 2005 (2). This report summarizes the status of the eradication effort and describes the remaining tasks to be completed to reach global polio eradication.

Among infants aged <12 months worldwide, 79% and 78% were vaccinated with three doses of oral poliovirus vaccine (OPV) in 1998 and 1999, respectively. Africa reported the lowest routine vaccination rates (51% in 1998 and 49% in 1999). Among most of the 20 countries where polio is endemic (Figure 1), routine vaccination was <50%.

Three activities supplement routine vaccination: national vaccination days (i.e., nationwide mass campaigns), subnational vaccination days (i.e., mass campaigns conducted in large areas of a country), and mopping-up (i.e., focal mass campaigns in high-risk areas). The supplemental rounds last several days to weeks and usually target children aged <5 years who are administered two OPV doses. Since 1999, countries where polio is endemic have increased the number and improved the quality of supplemental rounds; 10 priority countries held 50% more rounds in 2000 than in 1999, and an additional 10%–40% of children received OPV from health-care workers going house-to-house. During January 1999–May 2000, the number of countries where polio is endemic decreased from 30 to 24 (13 in Africa, seven in the Eastern Mediterranean, and four in the South-East Asia) (Figure 1). Transmission was detected in 20 countries during the second half of 2000.

Despite improved surveillance, the number of reported polio cases decreased by 60% from 7141 in 1999 to 2849 as of April 3, 2001 (Table 1). From 1999 to 2000, the global

^{*}Africa, the Americas, Eastern Mediterranean, Europe, South-East Asia, and Western Pacific.

Global Poliomyelitis — Continued

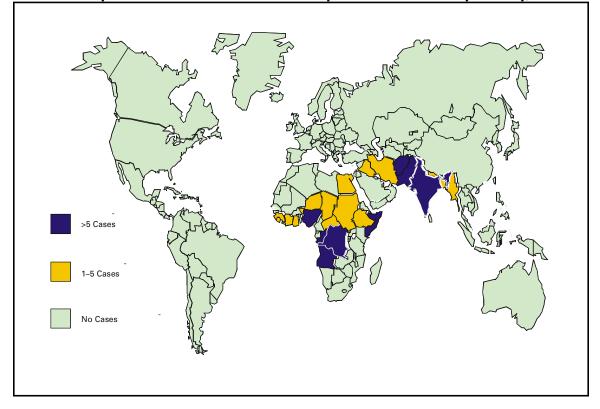




TABLE 1. Performance indicators for acute flaccid paralysis (AFP) surveillanceby World Health Organization Regions, 1999–2001*

			1999						2000		
Region	No. reported AFP cases	AFP	% AFP with adequate specimens [§]	Conf pc (wild	olio		No. reported AFP cases	Nonpoli AFP rate	% AFP io with adequate specimens	р	firmed olio virus)
Africa	5,011	0.8	31%	2,861	(246)	5,733	1.5	52%	1,763	(144)
Americas	1,861	1.1	80%	0	(0)	1,981	1.2	80%	12	(0)
Eastern											
Mediterranean	3,079	1.1	67%	914	(479)	3,242	1.4	70%	465	(261)
Europe	1,703	1.2	74%	0	(0)	1,680	1.2	80%	0	(0)
South-East Asia	11,916	1.6	71%	3,365	(1)	,161)	10,764	1.8	80%	609	(272)
Western Pacific	6,354	1.4	86%	1	(1)	7,100	1.5	87%	0	(0)
Total	29,924	1.3	67%	7,141	(1,	887)	30,500	1.5	75%	2,849	(677)

* As of April 3, 2001.

[†] 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 and adequately shipped to the laboratory.

nonpolio acute flaccid paralysis (AFP) rate, an indicator of surveillance sensitivity, increased from 1.3 per 100,000 population to 1.5, and the proportion of persons with AFP with adequate stool specimens increased from 67% to 75%. Type 2 wild poliovirus has not been detected since October 1999 (*3*).

By late 2000, 128 (87%) of the 147 laboratories in the polio laboratory network had received WHO accreditation (i.e., attained a standardized quality level). The network

Global Poliomyelitis — Continued

processed 48,370 stool specimens in 1999 and approximately 50,000 in 2000 (3). To ensure consistent handling and results, all AFP specimens are processed in an accredited laboratory.

At the end of 2000, <33% of the world's population lived in countries where polio was endemic, compared with >80% in 1988. Polio-free status has been certified in two of the six WHO regions: the Americas in 1994 and the Western Pacific in 2000. No wild poliovirus has been found in Europe since the last case reported from southeastern Turkey in 1998. All countries in a region must be free of wild poliovirus for 3 years as part of the certification requirements.

During 2000–2001, an outbreak of vaccine-derived poliovirus was reported in the Americas: three laboratory-confirmed cases occurred in Haiti and 14 in the Dominican Republic (4,5). Infected persons were unvaccinated (n=six), inadequately vaccinated (n=five), adequately vaccinated (n=one), or their vaccination status was unknown (n=five). Genetic sequencing of the virus indicated that the outbreak was caused by vaccine-derived poliovirus type 1 that appeared to have acquired neurovirulence and transmission characteristics of wild poliovirus. The Dominican Republic and Haiti are completing three national vaccination rounds in 2001.

In Africa in 2000, wild poliovirus transmission was reported mostly in central Africa and the Horn of Africa. Nigeria, the Democratic Republic of Congo (DRC), and Angola represent the largest poliovirus reservoirs. Nigeria reported 637 cases of which 11 were laboratory-confirmed. These 11 cases occurred throughout Nigeria, indicating that transmission was widespread. Following a large polio outbreak in 1999, Angola continued to detect virus transmission. The poliovirus type 1 responsible for the outbreak in Cape Verde originated in Angola (6). A polio outbreak also was reported from Congo-Brazzaville (31 confirmed wild poliovirus cases). DRC reported 513 cases, with 24 confirmed wild poliovirus cases found throughout the country, including border areas. In Ethiopia, three of 144 reported cases were laboratory-confirmed; however, transmission probably was underestimated because of the low quality of surveillance. In West Africa, the regional nonpolio AFP rate was 1.3 per 100,000 in 2000 compared with 0.8 per 100,000 in 1999. The proportion of persons in Africa with AFP from which adequate stool samples were collected increased from 31% in 1999 to 52% in 2000. House-to-house and nationwide vaccination rounds were conducted during the fall of 2000 and early 2001.

In 2000, the Eastern Mediterranean reported 261 confirmed wild poliovirus cases. Wild poliovirus transmission remains widespread in Pakistan (173 cases) and Afghanistan (27 cases). Despite increasingly sensitive surveillance, Iraq has not detected wild poliovirus since January 2000. Sudan reported four confirmed wild poliovirus cases but surveillance is not sufficient to assess accurately the intensity of virus transmission. Improved surveillance in Somalia identified an outbreak of type 1 poliovirus (46 cases) in the Mogadishu area. During the first half of 2000, three confirmed wild poliovirus cases were reported from reservoirs in the governorates of Minya, Asyut, and Fayoum in upper Egypt. Wild poliovirus type 1 was detected in samples of sewage from Minya late in 2000; three confirmed wild poliovirus cases were reported in late 2000 and early 2001.

South-East Asia reported 272 confirmed wild poliovirus cases in 2000 compared with 1161 cases in 1999. This decrease was attributable mainly to a decrease in the number of confirmed wild poliovirus cases reported from India where 265 cases were reported in 2000 compared with 1126 in 1999. India maintained high-quality surveillance, with a nonpolio AFP rate of 2.0 and adequate stool specimens collected from 83% of persons

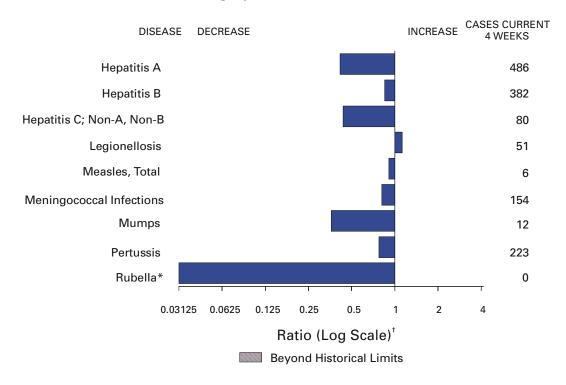


FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending April 21, 2001, with historical data

* No rubella cases were reported for the current 4-week period yielding a ratio for week 16 of zero (0).

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

		Cum. 2001		Cum. 2001
Anthrax		-	Poliomyelitis, paralytic	-
Brucellosis*		17	Psittacosis*	4
Cholera		-	Q fever*	4
Cyclosporiasis	*	33	Rabies, human	-
Diphtheria		-	Rocky Mountain spotted fever (RMSF)	32
Ehrlichiosis:	human granulocytic (HGE)*	26	Rubella, congenital syndrome	-
	human monocytic (HME)*	3	Streptococcal disease, invasive, group A	1,178
Encephalitis:	California serogroup viral*	-	Streptococcal toxic-shock syndrome*	18
	eastern equine [¥]	-	Syphilis, congenital ¹	17
	St. Louis*	-	Tetanus	4
	western equine*	-	Toxic-shock syndrome	43
Hansen diseas	se (leprosy)*	22	Trichinosis	5
Hantavirus pu	Imonary syndrome*†	3	Tularemia*	8
Hemolytic ure	mic syndrome, postdiarrheal*	18	Typhoid fever	53
HIV infection,	pediatric* [§]	56	Yellow fever	-
Plague	•	-		

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending April 21, 2001 (16th Week)

-: No reported cases. *Not notifiable in all states.

¹Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update March 27, 2001. [§]Updated from reports to the Division of STD Prevention, NCHSTP.

			0.1		0		. I	Escherichia coli O157:H7* NETSS PHLIS			
	All Cum.	DS Cum.	Chlan Cum.	nydia [†] Cum.	Cryptos Cum.	ooridiosis Cum.	NET Cum.	Cum.	PH Cum.	LIS Cum.	
Reporting Area	2001 [§] 9,062	2000 9,314	2001 184,779	2000 207,787	2001 406	2000 436	2001 292	2000 431	2001 197	2000 358	
NEW ENGLAND	9,002 317	9,314 652	6,382	7,010	408	430 26	33	43 I 39	32	338	
Vaine N.H.	3 12	11 9	356 337	398 338	1	3 1	4 5	3	4	3	
/t.	10	-	185	179	5	8	1	1	-	2	
Mass. R.I.	195 35	438 20	2,797 890	3,000 698	4 2	7 2	17	18	15 2	14	
Conn.	62	174	1,817	2,397	2	5	6	13	5	15	
MID. ATLANTIC	1,805 82	2,341 102	15,702 N	20,070 N	44 21	90 22	27 22	57 51	15 10	54 38	
N.Y. City	854	1,428	8,292	8,562	21	63	- 5	4	1	1	
N.J. Pa.	503 366	479 332	1,334 6,076	4,062 7,446	1 1	1 4	ь N	2 N	4	7 8	
.N. CENTRAL	668	850	24,663	36,233	127	88	60	84	26	28	
Dhio nd.	108 65	112 75	974 4,629	9,517 4,030	32 15	14 5	19 11	17 10	10 2	9 10	
ll. Mich.	323 137	535 99	7,014 9,169	10,038 7,604	- 32	14 11	9 14	28 12	7	- 4	
Wis.	35	29	2,877	5,044	48	44	7	17	7	5	
V.N. CENTRAL Minn.	168 37	164 36	9,625 1,780	11,544 2,531	18	24 4	25 8	63 10	22 11	68 30	
owa	18	13	1,239	1,197	9	5	4	12	2	7	
Ио. N.Dak.	72 1	72	3,195 297	3,968 285	5	6 1	5	25 2	5 1	16 4	
S. Dak. Nebr.	- 16	2 9	575 778	545 1,117	1 3	3 2	3	2 7	1	2 6	
lans.	24	32	1,761	1,901	-	3	5	5	2	3	
S. ATLANTIC Del.	3,019 54	2,488 44	40,326 932	37,945 899	88 1	57 1	34	34	14	29	
٨d.	247	267	4,021	3,716	20	5	1	6		1	
D.C. /a.	234 224	186 158	1,088 5,324	999 4,759	5 6	2	- 7	- 6	U 5	U 8	
V.Va. N.C.	19 140	13 101	690 6,520	651 6,098	- 11	- 6	1 16	2 8	- 5	1 2	
S.C. Ga.	228 272	174 293	3,981 8,199	3,410 7,418	27	32	1	23	2	1 8	
Fla.	1,601	1,252	9,571	9,995	18	11	6	3 7	2	8	
E.S. CENTRAL (y.	506 74	343 56	14,547 2,554	15,822 2,446	11 1	14	11 1	24 8	8 2	21 8	
lénn.	182	133	4,478	4,484	2	2	6	9	5	11	
Ala. Miss.	118 132	100 54	4,068 3,447	5,162 3,730	4 4	7 5	4	1 6	- 1	- 2	
N.S. CENTRAL	862	757	29,553	31,144	7	19	20	26	22	41	
Ark. _a.	64 270	30 124	2,500 5,240	1,807 5,676	2 3	1 2	1 -	4 1	- 9	3 8	
Okla. Tex.	43 485	31 572	3,047 18,766	2,720 20,941	2	1 15	7 12	4 17	5 8	3 27	
MOUNTAIN	349	290	9,502	12,032	37	27	35	36	19	22	
Mont. daho	5 5	5 4	553 554	400 585	3 5	1 3	3 5	8 4	-	-3	
Nyo.	-	1	227	231	-	2	-	3	-	2	
Colo. N. Mex.	69 27	62 40	852 1,520	3,450 1,537	12 8	8 1	16 1	14	10	6 2	
Ariz. Jtah	138 36	93 30	3,947 317	3,901 768	1 8	3 7	6 3	5 1	4 4	6 1	
Nev.	69	55	1,532	1,160	-	2	1	1	1	2	
PACIFIC Vash.	1,368 155	1,429 141	34,479 4,248	35,987 4,017	60 N	91 U	47 10	68 11	39 8	57 24	
Dreg.	52	35	363	2,043	2	2	6	10	6	13	
Calif. Alaska	1,142 7	1,215 5	28,142 744	28,308 778	58 -	89 -	27	41 1	23	14 1	
lawaii	12	33	982	841	-	-	4	5	2	5	
Guam P.R.	7 327	13 184	- 1,451	- U	-	-	N -	N 1	U U	U U	
/.I. Amer. Samoa	1	11	53 U	Ū	Ū	- U	Ū	U U	Ŭ U	Ŭ U	
C.N.M.I.			Ŭ	U	Ŭ	Ŭ	Ŭ	U	Ŭ	Ŭ	

TABLE II. Provisional cases of selected notifiable diseases, United Stat	tes,
weeks ending April 21, 2001, and April 22, 2000 (16th Week)	

N: Not rotifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. * Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS). * Chlamydia refers to genital infections caused by *C. trachomatis.* Totals reported to the Division of STD Prevention, NCHSTP. * Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update March 27, 2001.

	Gono	rrhea	Hepatit Non-A, N	is C; Ion-B	Legione	llosis	Listeriosis	Ly: Dise	
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2001	Cum. 2000
UNITED STATES	87,646	104,109	559	1,000	197	215	96	604	1,283
NEW ENGLAND Maine N.H. Vt.	1,727 37 37 27	1,918 25 26 17	10 - - 4	6 - - 3	9 - 3 3	16 2 2	10 - -	145 - 42 1	179 - 18 1
Mass. R.I. Conn.	848 227 551	764 173 913	6 - -	3 - -	2 - 1	9 - 3	6 - 4	19 - 83	70 - 90
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	9,589 2,202 3,558 823 3,006	10,997 1,782 3,599 2,291 3,325	23 14 - 9	211 13 - 186 12	18 12 3 2 1	48 17 5 2 24	15 8 3 1 3	292 231 - 61	871 347 33 97 394
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	13,094 717 1,942 4,352 5,160 923	21,706 5,271 1,823 7,091 5,338 2,183	69 5 3 61	80 1 - 9 70 -	57 32 5 14 6	61 26 9 6 11 9	8 1 - 5 1	15 15 - - U	37 4 1 32
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. S. Dak. Nebr.	3,941 527 308 2,008 11 65 248	4,889 968 289 2,398 15 77 366	158 - 154 - 2	144 1 136 - 2	16 1 8 - 2	12 1 3 6 - 1	2 - 1 - -	21 14 4 - 1	24 11 - 7 - 1
Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	774 24,906 483 2,406 971 2,759 154 5,290 2,957 4,564 5,322	776 27,151 488 2,584 694 3,330 183 5,387 2,951 4,620 6,914	2 32 - - 4 7 2 - 9	5 25 5 1 3 8 - 6	1 30 - 8 1 4 N 2 1 2 12	1 42 4 11 - 3 N 5 2 2 15	1 - - 2 1 - 1 4 7	1 108 - 90 7 7 1 2 - - 1	5 136 20 96 - 8 4 4 - 4 - 4
E.S. CENTRAL Ky. Tenn. Ala. Miss.	9,379 1,006 2,927 3,313 2,133	10,940 994 3,353 3,784 2,809	66 3 19 1 43	149 15 29 4 101	18 6 8 2 2	6 4 1 1	7 1 3 3	2 2 - -	1 - 1 -
W.S. CENTRAL Ark. La. Okla. Tex.	14,399 1,583 3,560 1,430 7,826	16,030 908 4,048 1,191 9,883	143 3 57 2 81	295 3 184 1 107	3 - 2 1 -	5 - 2 1 2	2 1 - 1		12 - 2 - 10
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	3,025 30 27 16 1,011 272 1,061 33 575	3,146 8 20 990 328 1,278 90 406	24 - 3 8 1 - 3	32 1 - 13 4 10 - 3	16 - 1 5 1 6 1 2	13 - - 6 1 2 3 -	11 - - 1 3 2 1 4	1 - - - - - 1	
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	7,586 940 57 6,316 95 178	7,332 726 257 6,143 89 117	34 9 2 23 -	58 8 12 38 -	30 5 N 25 -	12 5 N 7 -	24 2 - 22 -	20 2 1 17 N	23 2 21 N
Guam P.R. V.I. Amer. Samoa C.N.M.I.	364 6 U U	150 Ū U	- - - U U	- 1 - U U	2 - U U	- - - U U	- - - -	N U U	- N - U U

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States,
weeks ending April 21, 2001, and April 22, 2000 (16th Week)

N: Not notifiable. U: Unavailable. -: No reported cases.

							Salmonellosis*				
	Ма	laria	Rabies	s, Animal	NE	TSS		ILIS			
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000			
UNITED STATES	235	281	1,353	1,751	6,138	7,571	5,045	6,980			
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	21 1 2 - 6 - 12	10 1 1 6 - 2	163 20 5 27 47 17 47	195 48 3 13 59 17 55	497 48 40 20 297 23 69	470 36 25 36 271 18 84	482 36 34 22 252 35 103	496 23 34 42 264 36 97			
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	38 11 18 6 3	54 16 25 6 7	210 166 3 40 1	281 198 3 41 39	532 209 212 69 42	1,138 241 337 311 249	742 122 266 143 211	1,260 322 333 241 364			
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	26 5 8 - 13 -	36 3 2 20 9 2	8 1 - 6 -	15 2 - 7 6	899 347 79 219 173 81	1,139 254 115 401 178 191	737 274 75 179 143 66	634 221 133 1 199 80			
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	7 1 2 - 1 2	16 4 1 2 - 3 6	94 15 17 6 16 13 - 27	143 24 20 5 26 37 - 31	365 71 66 115 1 25 32 55	357 37 47 124 4 20 53 72	396 142 53 137 11 12 - 41	490 144 51 157 19 27 40 52			
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	66 1 27 4 13 - 1 3 3 14	62 1 25 - 16 - 7 - 1 12	587 10 91 43 166 27 77 63	614 10 129 - - - - - - - - - - - - - - - - - - -	1,617 24 166 22 261 13 294 206 220 411	1,264 18 194 38 201 104 218 345	1,053 23 170 U 217 18 160 200 219 46	1,076 28 196 U 157 27 160 92 321 95			
E.S. CENTRAL Ky. Tenn. Ala. Miss.	8 2 3 3	10 2 1 6 1	44 6 33 5	62 9 38 15	365 68 99 145 53	377 77 91 122 87	177 36 98 31 12	292 49 133 93 17			
W.S. CENTRAL Ark. La. Okla. Tex.	4 1 1 1	4 1 3 -	86 - - 27 59	313 - 23 290	436 64 83 38 251	724 67 81 66 510	389 29 132 30 198	471 44 86 63 278			
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	18 2 1 9 1 1 2 2	16 1 - 8 - 2 3 2	53 9 - 10 - 2 32 -	51 13 - 22 - 3 13 -	470 16 20 14 139 59 141 51 30	689 23 37 14 220 57 177 107 54	377 4 13 120 48 119 50 23	624 36 13 201 51 169 102 52			
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	47 1 2 41 1 2	73 4 17 50 2	108 - 76 32	77 - 68 9 -	957 104 21 732 12 88	1,413 88 95 1,156 19 55	692 144 65 401 82	1,637 168 116 1,287 18 48			
Guam P.R. V.I. Amer. Samoa C.N.M.I.	- - U U	- 2 - U U	- 42 - U U	- 18 - U U	- 75 - U U	- 93 - U U	U U U U U	U U U U U			

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending April 21, 2001, and April 22, 2000 (16th Week)

N: Not notifiable. U: Unavailable. -: No reported cases. * Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

		Shige	llosis*	.,	Sv	philis		
	NET	SS	P	HLIS	(Primary 8	k Secondary)	Tube	rculosis
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000
UNITED STATES	3,020	4,835	1,551	2,972	1,487	1,976	2,815	3,499
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	48 1 2 34 2 8	93 2 1 68 7 14	56 1 1 35 5 13	82 - - 53 9 17	12 - - 8 1 3	23 - - 19 1 3	97 5 1 54 9 22	98 3 1 58 7 27
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	296 126 100 40 30	739 237 385 69 48	244 6 124 49 65	507 134 240 65 68	95 4 67 14 10	94 4 43 17 30	576 69 309 132 66	592 60 348 148 36
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	467 145 78 124 95 25	800 48 106 296 251 99	246 73 16 84 66 7	276 39 22 204 9	218 27 51 40 92 8	421 22 147 144 88 20	291 47 24 159 39 22	356 69 28 203 30 26
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	336 105 72 76 9 21 24 29	302 43 55 161 1 1 22 19	290 160 61 53 1 1 1	247 78 59 88 1 - 11 10	16 7 - 6 - 3	30 3 8 15 - 2 2	122 65 9 30 4 14	150 51 11 60 - 8 3 17
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	493 3 36 18 35 4 109 32 64 192	555 3 33 - 24 2 36 5 66 386	153 2 13 U 19 6 51 17 41 4	164 4 10 U 26 2 16 7 62 37	605 2 74 12 48 - 148 86 82 153	645 2 101 19 40 1 170 68 112 132	535 54 13 53 9 77 19 121 189	562 - 64 13 89 22 142 164
E.S. CENTRAL Ky. Tenn. Ala. Miss.	272 99 28 79 66	210 39 108 9 54	76 30 23 17 6	163 26 126 8 3	168 12 95 28 33	291 30 181 42 38	180 21 43 83 33	241 25 92 81 43
W.S. CENTRAL Ark. La. Okla. Tex.	418 167 26 6 219	741 66 81 11 583	253 65 54 2 132	240 21 38 8 173	215 15 49 27 124	277 30 69 52 126	351 42 - 34 275	570 43 25 30 472
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah	205 - - 46 40 85 12	289 24 1 49 27 112 20 54	131 - - 34 28 48 13	173 17 26 17 48 24 20	56 - - 4 39 6 3	58 - 1 2 6 47 -	80 - - 26 5 23 5 17	143 4 2 16 19 57 8 27
Nev. PACIFIC Wash. Oreg. Calif. Alaska Hawaii	16 485 56 7 409 2 11	54 1,106 195 87 806 6 12	8 102 62 29 - - 11	39 1,120 235 52 822 3 8	3 102 19 80 - 3	2 137 18 3 116	17 583 55 474 14 40	37 787 60 22 649 22 34
Guam P.R. V.I. Amer. Samoa C.N.M.I. N: Not notifiable.	- 7 - U U:Una	14 - - - - - - - - - - - - - - - - - - -	U U U U	U U U U U Tted cases.	96 - U U	52 - U U	38 - - - - - - - - - - - - - - - - - - -	21 U U

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States	,
weeks ending April 21, 2001, and April 22, 2000 (16th Week)	

N: Not notifiable. U: Unavailable. -: No reported cases. *Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

	11 :		1	-	22, 200 iral), By Ty		Measles (Rubeola)					
		<i>ienzae,</i> sive	A	epatitis (v	B	Je	Indige	nous	Impo		Tota	
Reporting Area	Cum. 2001 [†]	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	2001	Cum. 2001	2001	Cum. 2001	Cum. 2001	Cum. 2000
UNITED STATES	430	440	2,591	3,874	1,753	1,840	1 2001	14	-	16	30	23
NEW ENGLAND Maine N.H. Vt. Mass.	16 1 - 15	35 1 6 3 20	115 2 5 2 37	97 5 8 3 39	31 3 7 1 2	33 2 6 3 1		3 - 1 2	- - - -	1 - - 1	4 - - 1 3	
R.I. Conn.	-	1 4	5 64	6 36	6 12	6 15	-	-	-	-	-	-
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	53 19 21 12 1	65 27 21 13 4	233 72 100 46 15	269 76 138 - 55	246 40 143 44 19	308 32 173 14 89	- - -	1 - - 1	- - -	5 4 - 1 -	6 4 - 1 1	8 - 8 - -
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	50 26 13 4 3 4	70 22 7 26 4 11	277 81 23 59 112 2	525 112 13 222 165 13	210 37 5 20 148	178 33 12 3 129 1	- - - -			7 2 2 3 -	7 2 3 -	3 2 - 1 -
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr.	19 8 1 - - 2	13 7 5 1 -	138 9 13 40 - 1 18	329 36 32 205 - 12	60 7 32 - 1 6	110 7 14 72 - 13	1 - - -	4 2 - 2 -		-	4 2 - 2 -	
Kans.	- 155	-	57	44	7 394	4 299	-	-	-	-	-	-
S. ATLANTIC Del. Md. D.C. Va.	155 - 40 - 9	108 - 28 - 20	546 - 78 15 44	391 6 49 - 49	394 - 47 3 42	299 4 48 - 42	-	3 - 2 -	-	- 1 -	4 - 3 -	-
W. Va. N.C. S.C. Ga. Fla.	4 20 4 34 44	20 3 8 5 30 14	2 34 20 184 169	40 34 65 13 52 123	6 85 5 95 111	12 81 2 45 75		- - - 1 -			- - 1 -	-
E.S. CENTRAL Ky. Tenn. Ala. Miss.	27 1 13 12 1	19 9 7 3	85 10 41 30 4	175 18 58 23 76	99 11 39 28 21	129 24 56 10 39	- - - U	- - -	- - - U			
W.S. CENTRAL Ark. La. Okla. Tex.	14 2 12	25 - 8 17 -	335 18 26 55 236	724 55 29 109 531	217 29 14 25 149	206 28 51 27 100	- - -	1 - - 1	- - - -		1 - - 1	
MOUNTAIN Mont. Idaho Wyo. Colo.	74 - 1 - 16	52 - 2 - 11	249 4 27 1 29	288 1 11 3 57	166 1 - - 36	149 3 4 - 31		- - -	- - -	1 - 1 -	1 - 1 -	6 - - 1
N. Mex. Ariz. Utah Nev.	16 10 38 2 7	11 22 4 2	8 123 24 33	31 146 18 21	36 43 61 15	47 48 4 12	- - -		- - -	-	- - -	- - 3 2
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	22 1 2 5 1 13	53 3 16 20 1 13	613 24 19 558 11 1	1,076 72 77 916 4 7	330 28 6 286 4 6	428 17 35 368 2 6	- - - -	2 - 1 1 - -		1 - - 1 -	3 - 1 2 - -	6 3 - 3 -
Guam P.R. V.I. Amer. Samoa C.N.M.I.	- - U U	- 2 - U U	- 28 - U U	- 110 - U U	- 15 - U U	- 75 - U U	U U U U	- - U U	U U U U U	- - U U	- - U U	- - U U

TABLE III. Provisional cases of selected notifiable diseases preventable
by vaccination, United States, weeks ending April 21, 2001,
and April 22, 2000 (16th Week)

N: Not notifiable. U: Unavailable. - : No reported cases. *For imported measles, cases include only those resulting from importation from other countries. † Of 85 cases among children aged <5 years, serotype was reported for 41, and of those, 8 were type b.

		ococcal ease		Mumps	2000 (Pertussis			Rubella	
Demosting Arrow	Cum.	Cum.		Cum.	Cum.		Cum.	Cum.		Cum.	Cum.
Reporting Area	2001 877	2000 843	2001 6	2001 49	2000 143	2001 103	2001 1,447	2000 1,545	2001	2001 3	2000 27
NEW ENGLAND	59	49	-	-	2	1	217	415	-	-	6
Maine N.H.	- 5	3 3	-	-	-	-	- 16	9 49	-	-	- 1
Vt.	4	2	-	-	-	-	22 172	77 261	-	-	-
Mass. R.I.	35 1	31 3	-	-	1	-	-	6	-	-	4
Conn.	14	7	-	-	1	1	7	13	-	-	1
MID. ATLANTIC Upstate N.Y.	69 29	81 15	-	1 -	10 5	2 2	89 73	141 70	-	1 1	5 2
N.Y. City N.J.	17 21	23 20	-	1	3	-	6 2	29	-	-	3
Pa.	2	23	-	-	2	-	8	42	-	-	-
E.N. CENTRAL Ohio	108 40	146 25	2	6 1	17 6	4	166 112	216 131	-	1	-
Ind.	17	17	-	-	-	2	7	12	-	-	-
III. Mich.	18 21	40 47	2	5	4 6	2	14 15	18 12	-	1 -	-
Wis.	12	17	-	-	1	-	18	43	-	-	-
W.N. CENTRAL Minn.	58 7	52 3	1 1	5 1	7	19 17	66 17	46 21	-	-	1
lowa Mo.	15 21	12 27	-	-	4 1	-	5 29	8	-	-	-
N. Dak.	2	1	-	-	-	-	-	1	-	-	-
S. Dak. Nebr.	2 2	4 3	-	-	- 1	1 1	3 2	1 2	-	-	- 1
Kans.	9	2	-	4	1	-	10	6	-	-	-
S. ATLANTIC Del.	170	121	1	6	18	8	68 -	110 1	-	1	3
Md. D.C.	22	12	1	3	5	1	11 1	34	-	-	-
Va.	19	19	-	2	4	-	8	10	-	-	-
W. Va. N.C.	4 39	3 24	-	-	2	- 1	1 24	- 28	-	-	-
S.C. Ga.	15 23	9 22	-	1	6	5	13 2	15 12	-	- 1	2
Fla.	48	32	-	-	1	1	8	10	-	-	1
E.S. CENTRAL	59 10	55 11	-	-	4	-	29 6	35 23	-	-	4 1
Ky. Tenn.	21	23	-	-	2	-	16	3	-	-	-
Ala. Miss.	24 4	16 5	- U	-	1 1	- U	4 3	8 1	- U	-	3
W.S. CENTRAL	127	95	-	6	14	1	25	30	-	-	3
Ark. La.	10 44	5 27	-	1 2	1 3	1	3 1	6 3	-	-	-
Okla. Tex.	14 59	17 46	-	- 3	10	-	1 20	21	-	-	- 3
MOUNTAIN	50	40 50	_	5	8	67	692	269	_	_	-
Mont.	- 4	1	-	-	1	- 2	5	1	-	-	-
ldaho Wyo.	-	6	-	1	-	-	159	35	-	-	-
Colo. N. Mex.	20 8 9	13 7	-	2 2	1 1	1 2	135 42	167 38 20	-	-	-
Ariz.	9 5	16	-	-	- 3	62	337 9	20 5	-	-	-
Utah Nev.	5 4	5 2	-	-	2	-	9 5	3	-	-	-
PACIFIC	177	194	2	20	63	1	95 20	283	-	-	5
Wash. Oreg.	33 9	14 24	Ň	Ň	1 N	- 1	29 4	76 26	-	-	4
Calif. Alaska	128 1	149 2	2	16 1	55 2	-	58	167 4	-	-	1
Hawaii	6	5	-	3	5	-	4	10	-	-	-
Guam P.R.	- 1	- 4	U U	-	-	U U	-	-	U U	-	-
V.I. Amer. Samoa	-	-	U	-	-	U	-	-	U	-	-
Amer. Samoa C.N.M.I.	U U	U U	U U	U U	U U	U U	U U	U U	U U	U U	U U

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending April 21, 2001, and April 22, 2000 (16th Week)

N: Not notifiable.

U: Unavailable.

- : No reported cases.

	All Causes, By Age (Years)							-	All Causes, By Age (Years)						P&I [†]
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&l⁺ 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, Ma New Haven, Conr Providence, R.I. Somerville, Mass Springfield, Mass Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§	641 165 . 41 . 17 . 34 66 18 . 13 . 58 . 58	466 116 27 15 28 411 15 10 185 39 1 38 39 1 38 23 60 1,566 34 25 61 25 61 25 61 25 61 25 61 25 61 25 61 25 61 25 61 25 61 25 77 77 75 75 75 75 75 75 75 75 75 75 75	36 8 1 3 15 2 3 2 8 8 - 15 7 7 465 8 3 18 16 18 16	42 74 1 37 1 - 2 3 3 - 2 6 3 1 40 5 - 1 2 - -	5 1 - - - - - - - - - - - - - - - - - -	13 5 2 - 1 - 2 - 1 - 2 43 2 - 3 1 2 1	77 123 4324 1 129 87 12 1467 283 1	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, f Tampa, Fla. Washington, D. Wilmington, De E.S. CENTRAL Birmingham, Al Chattanooga, Te Knoxville, Tenn. Lexington, Ky. Memphis, Tenn Mobile, Ala. Montgomery, A Nashville, Tenn.		748 94 98 65 108 29 55 67 59 147 26 59 147 26 59 147 26 59 147 101 54 23 91 91	230 27 42 26 33 U 7 22 15 10 35 13 U 170 34 20 22 16 27 5 7 39	995221070394718405813572107311	35 25 6 4 U 1 1 0 3 3 - U 19 4 2 2 4 5 1 - 1	28 3 - 4 6 U 2 1 1 - 5 6 U 17 2 5 2 - 2 1 - 5 5	73 - 11 9 8 U 2 13 12 - 18 - U 71 18 11 5 7 11 4 5 10
Jersey City, N.J. New York City, N.J. 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.	47 Y. 1,119 U 39 390 33 26 153	35 793 26 233 19 112 17 19 70 17 21 U	8 215 U 6 113 4 7 23 3 3 15 6 4	3 72 U 30 30 - 14 - 4 2 1 U	1 18 U 2 9 1 - 3 - 1 3 - 1 U	20 U 2 5 2 1 - 3 1 U	66 U 1 15 3 5 12 3 1 13 4 3 U	W.S. CENTRAL Austin, Tex. Baton Rouge, La Corpus Christi, Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La San Antonio, Te Shreveport, La. Tulsa, Okla.	1,443 124 1. 6 Fex. 49 230 169 98 326 65 . U x. 235 16 125	985 91 2 355 151 122 60 212 44 U 165 8 95	275 20 2 10 49 31 25 59 8 U 46 3 22	102 7 18 7 32 8 U 16 1 5	43 3 2 2 5 4 3 13 2 U 5 2 2	38 3 1 7 5 3 10 3 U 3 2 1	90 11 - 3 18 7 4 21 5 U 9 2 10
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Celumbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Grand Rapids, Mi Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohi W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kanss Kansas City, Mo. Lincoln, Nebr. Minneapolis, Min Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	174 58 157 54 47 90 0 51 645 30 . 62 103 U	$\begin{array}{c} 1,245\\ 37\\ 41\\ 0\\ 71\\ 110\\ 137\\ 41\\ 115\\ 37\\ 41\\ 137\\ 41\\ 137\\ 41\\ 137\\ 41\\ 137\\ 41\\ 376\\ 83\\ 9\\ 0\\ 27\\ 47\\ 7\\ 0\\ 00\\ 7\\ 0\\ 00\\ 7\\ 0\\ 02\\ 67\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	12 5 U 26 41 35 22 57 10 14 4 11 25 6 36 13 14 8 13 8 12 U 2 10 20 U 31 21 U 15	113 6 3 U 8 15 15 8 19 1 4 - 3 8 4 7 1 4 2 2 3 5 U 1 2 6 U 8 12 U 8 12 U 8 2 3 3 U 1 2 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	39 2 U 5 4 7 1 7 1 1 1 2 - 3 - 1 - 3 1 2 U - 2 3 U 3 10 U - 3 10 U - 3	38 3 1 U - 7 3 3 5 1 2 - 2 2 - 1 1 6 1 18 U - 1 1 U 6 4 U - 6	$\begin{array}{c} 120\\ 1\\ 4\\ U\\ 2\\ 10\\ 16\\ 10\\ 12\\ 5\\ 3\\ -\\ 4\\ 4\\ 16\\ 22\\ 4\\ 2\\ -\\ 3\\ 2\\ 3\\ 7\\ U\\ 2\\ 4\\ 5\\ U\\ 8\\ 4\\ U\\ 4\\ 10\\ \end{array}$	MOUNTAIN Albuquerque, N Boise, Idaho Colo. Springs, C Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, U Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawa Long Beach, Cal Los Angeles, Ca Pasadena, Calif. Portland, Oreg. Sacramento, Ca San Diego, Calif San Francisco, C San Jose, Calif. Santa Cruz, Calif Seattle, Wash. Tacoma, Wash. TOTAL	33 colo. 62 109 276 25 125 tah 109 153 1,905 10 120 27 ii 68 if. 99 iif. 573 25 iif. 215 52 52 iif. 215 52 52 iif. 215 52 52 iif. 215 52 52 iif. 215 52 52 iif. 215 52 52 iif. 215 52 52 10 52 52 10 52 52 52 52 52 52 52 52 52 52 52 52 52	617 93 28 44 68 184 17 17 19 63 101 1,431 4 91 23 50 67 432 22 38 166 121 131 34 102 8,086	$\begin{array}{c} 217\\ 29\\ 5\\ 12\\ 24\\ 62\\ 7\\ 0\\ 4\\ 32\\ 42\\ 30\\ 5\\ 20\\ 3\\ 13\\ 19\\ 8\\ 28\\ 24\\ 0\\ 42\\ 6\\ 28\\ 11\\ 12\\ 2,263\end{array}$	55 8 - 3 10 8 - U 1 8 7 11 1 6 1 3 11 36 2 5 16 12 U 8 1 8 - 1 755	23 4 2 3 8 1 U 1 3 1 2 5 2 2 1 1 9 - 2 2 - U 2 - 3 1 4 2 52	13 - - 1 4 3 - - - - - - - - - - - - -	77 12 6 7 5 16 - U 3 19 9 162 - 7 4 6 11 4 4 6 8 21 U 18 4 15 7 10 853

TABLE IV. Deaths in 122 U.S. cities,* week ending April 21, 2001 (16th 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. 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.

Global Poliomyelitis — Continued

with AFP. Uttar Pradesh and Bihar in northern India remain the foci of poliovirus transmission along with a few scattered areas. During 2000, each campaign that targeted the \geq 15 presumed virus reservoir outside northern India involved vaccinating approximately 1 million children aged <5 years. Despite improved surveillance, one wild poliovirusassociated case was reported in Bangladesh near Dhaka. However, virus sequence information suggested that transmission may not have been detected earlier in 2000. Myanmar reported two confirmed wild poliovirus cases near the border with Bangladesh, and Nepal reported four cases from its border with Uttar Pradesh and Bihar, India.

Reported by: Vaccines and Biologicals Div, World Health Organization, Geneva, Switzerland. Enteric and Respiratory Viruses Br, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Vaccine Preventable Disease Eradication Div, National Immunization Program, CDC.

Editorial Note: Progress toward interrupting wild poliovirus transmission, particularly in India, the largest country where polio is endemic, underscores the feasibility of eradication. The goal of interrupting transmission globally by the end of 2000 could not be achieved for several reasons, including delayed implementation of the polio eradication strategies in some regions, difficulties in accessing populations in war-torn countries, and slow progress toward raising the quality of both supplemental vaccination and surveillance.

During 2000, progress toward eradication included a 60% decline in reported cases globally within 1 year, the certification of the Western Pacific as polio-free, the acceleration of activities in Africa as indicated by the 16 West African countries conducting synchronized national campaigns in the fall of 2000, and the public commitment to a polio-free world by international leaders and polio partners at the polio summit at the United Nations in September 2000.

Challenges during 2000 included poliovirus importations from countries where polio is endemic to polio-free areas, which demonstrated the fragility of polio-free status and highlighted the importance of maintaining high polio vaccination coverage and certification-standard surveillance. The 17 deaths in Cape Verde associated with poliovirus imported from Angola underscore the severity of poliovirus infection even in areas that have been polio-free for years and the risk for transmission if population immunity is not maintained. On Hispaniola Island, the outbreak of vaccine-derived poliovirus would not have occurred had the population been vaccinated adequately; the outbreak confirms the need to maintain high vaccination coverage and sensitive AFP surveillance for early detection of and response to such outbreaks.

During 2001, the major objective of the eradication process is to continue vaccination activities in countries where polio is endemic, including war-torn areas. Success will depend on negotiated cease-fires during vaccination rounds, enhanced access to all children, and the continued support of external partners[†].

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[†] Includes polio-free countries and countries where polio is endemic, WHO, Rotary International, United Nations Children's Fund (UNICEF), CDC, other bilateral and multilateral partners, and private foundations.

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