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Surveillance of Mortality During a Refugee Crisis — Guinea, January–May 2001

Since 1990, the republic of Guinea (2000 population: 7.5 million) has accepted 390,000–450,000 refugees from Sierra Leone and Liberia (1,2). During this 10-year period, refugees have lived in small villages scattered throughout rural southeastern Guinea (3). During September–December 2000, attacks by armed factions in Guinea led to the widespread displacement of refugees living in the southeastern camps; the refugees subsequently were transferred to safer camps in the northwest. Approximately 280,000 refugees initially were estimated to have been displaced (4). After the attacks, the number of refugees relocated was approximately 58,000. This report demonstrates methods used to calculate mortality rates when large populations are displaced. The findings indicate that the number of refugees in Guinea before the relocation probably was overestimated. The mortality rates calculated using conservative denominator numbers did not meet the definition of an emergency phase* of a complex emergency[†], and mortality rates were lower for refugees compared with baseline rates for the local population. Accurate methods are needed to estimate population size in complex emergencies to provide resources to vulnerable groups.

In camps that were accessible to site visits by international agencies, nongovernmental organizations (NGOs)§ collected and reported camp mortality data from NGOs and government health posts, camp health-care workers, the referral hospital, and burial workers. Deaths were line listed (i.e., one line for each death), and duplications of reported deaths were deleted. Estimates of camp populations were provided by the government of Guinea, the United Nations High Commissioner for Refugees (UNHCR), NGOs, and refugee and other organizations. Because these estimates varied widely, the lowest estimates for all camps were used to calculate mortality rates. Nutrition surveys could not be conducted in less accessible camps; the prevalence of acute malnutrition among children aged 6–49 months was estimated using nutrition screening data collected from all children entering new camps in northwestern Guinea. Monthly camp

^{*}Crude mortality rate of ≥ 1 death per 10,000 population per day or a mortality rate of $\geq 2-4$ deaths per 10,000 children aged <5 years per day.

[†] Relatively acute situations affecting large civilian populations, usually involving a combination of war or civil strife, food shortages, and population displacement, resulting in excess mortality.

[§] Action Against Hunger, American Refugee Committee, International Federation of the Red Cross and Crescent, Doctors of the World, and Doctors Without Borders.

Refugee Crisis — Continued

death rates usually are calculated by dividing the sum of all deaths in the camps by the sum of each camp's midpoint population size and then dividing by the number of days in the month or by the mean number of days the camps were open. However, using this approach would have underrepresented camps that were not open for the entire month.

Individual camp mortality rates were calculated based on the number of days each camp was open during the month. Several sites were transit camps; opening and closing of these camps depended on refugee migration patterns. The mean mortality rates weighted by population were used to calculate overall camp mortality rates by month; mortality rates of each camp were weighted using the overall population and totaled. Only camps reporting data for the entire time they were open during each month were included in the overall monthly mortality rates. The same weighting method was used to calculate the overall crude mortality rate (CMR) and the mortality rate for children aged <5 years (<5MR) during January–May 2001.

The number of camps included in the health information systems (HIS) during January–May 2001 varied from four to 15 camps sheltering approximately 34,000–89,500 persons because of large population movements and changing security conditions. Before relocation, an estimated 280,000 refugees were housed in approximately 43 camps. However, in three HIS camps, census or relocation numbers determined by UNHCR were 1.6–3.9 times higher than original estimates of 280,000. If the overestimation ratios of 1.6–3.9 are applied to the original population estimate, the actual refugee population in southeastern Guinea may have ranged from 72,000 to 175,000 persons. Camps represented in the HIS tended to be larger and more accessible to UN and NGO health workers. All children aged 6 months–15 years were vaccinated for measles on entry to the new camps¶.

During January–May 2001, a total of 304 deaths were reported; 173 (57%) were among children aged <5 years. The CMR and <5MR of 0.3 and 0.9 deaths per 10,000 per day, respectively, were well below the levels used to define the emergency phase of a complex emergency (5,6). These rates also were lower than the CMR and <5MR reported for the Guinean population (0.5 and 1.3 deaths per 10,000 per day, respectively) (7). The CMR and <5MR monthly trends were higher at the beginning of relocation in January and after most refugees had been transferred in May. Mortality rates decreased then stabilized from February to April as refugees who arrived in secure camps were provided with services. In May, however, mortality rates increased (Figure 1) (5). NGOs anecdotally reported an increase in malnutrition in some of the less accessible camps. However, of 4,771 children who were screened in the new camps using weight-forheight during February–May, 119 (2.5%) were acutely malnourished.

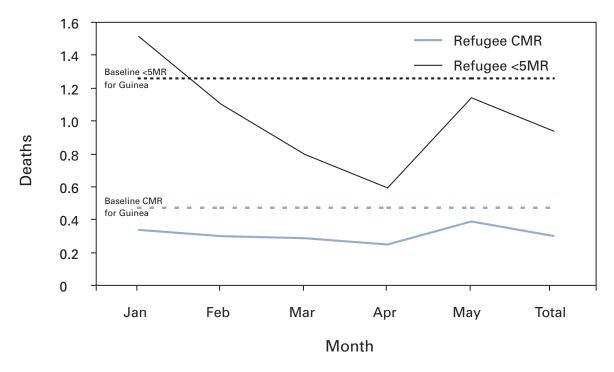
In response to the increase in mortality rates among refugees in Guinea during May, UN agencies and NGOs 1) accelerated efforts to move the refugees in the new camps from crowded temporary shelters to permanent family structures, 2) enhanced communicable disease surveillance, 3) improved water and sanitation provisions in the new camps, 4) stockpiled cholera-control supplies, and 5) increased the number of health posts.

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Provided by United Nations Children's Fund and the government of Guinea.

Refugee Crisis — Continued

FIGURE 1. Reported crude mortality rate* (CMR) and mortality rate among children aged <5 years (<5MR)[†] among refugees in Guinea compared with respective baseline rates among the resident population, by month and refugee group — Guinea, January–May 2001



^{*} Per 10,000 population per day.

Editorial Note: During complex emergencies, agencies must resolve immediate health questions affecting tens of thousands of refugees, despite the uncertainty of population size and the inaccuracy of data. This report used methods to calculate rates that suggest an effective response to the 2001 Guinea refugee crisis in which large populations were displaced. Mortality rates might have been kept below emergency threshold rates because of the prompt engagement of international agencies together with sufficient resources and coping mechanisms developed by the refugees during the 10 years in Guinea preceding the latest crisis. The increase in mortality after most refugees were relocated into the new camps might have occurred because some refugees were not relocated to individual family shelters as quickly as planned, causing overcrowding of temporary shelters and overburdening of existing facilities. This increase demonstrates the need to ensure that adequate human and material resources and programs are in place before large transfers of persons occur.

Lower mortality rates among refugees than among host populations have been documented in postemergency settings (8,9); in Guinea during the displacement, the refugee population had lower mortality rates than those of the baseline population in Guinea. The lack of mortality data for the local and internally displaced populations during the refugee crisis suggests that organizations whose mandates cover nonrefugee populations need to be included early in the process of emergency response.

[†] Per 10,000 children aged <5 years per day.

Refugee Crisis — Continued

Despite all refugees being offered transportation, far fewer relocated to the new camps than had been anticipated. Populations commonly are overestimated in refugee crises because food distribution is linked to camp size. In Guinea, internally displaced and local persons sought to be counted as refugees to receive food aid and other services; distinguishing among the three groups, where refugees came from the same ethnic group and lived among the local population, was particularly difficult.

The findings in this report are subject to at least five limitations. First, data were unavailable from inaccessible camps where mortality rates may have been higher than in more accessible camps. Second, population denominators for camps that did not have a recent census probably overestimated population sizes. Third, underreporting and underestimates of mortality might have occurred in camps with limited access. Fourth, only camps with data for 1 month were included in the monthly HIS calculations. The changing number of camps with data available for an entire month and the opening and closing of some transit camps make the comparison of monthly rates difficult, because the same sites and populations were not represented each month. Finally, midpoint rather than the mean population size was used as the denominator in calculating mortality rates. The preferred method is unclear because of the constant changes in population throughout this period (10).

Difficulties arise when estimating mortality and nutrition rates among displaced populations that are moving at different rates in areas with varying accessibility (10). In Guinea, some approaches to these challenges were 1) including mortality data only for the days in which individual camps were open for each month throughout the 5-month reporting period, 2) using the lowest population estimates and applying them retrospectively when appropriate, and 3) calculating overall mortality rates using population-weighted mean rates to allow for an unbiased estimate from camps being open for different numbers of days within a month.

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Imported Wild Poliovirus Causing Poliomyelitis — Bulgaria, 2001

In March 2001, a 13-month-old unvaccinated Roma (i.e., gypsy) girl from Bourgas, Bulgaria, had onset of bilateral leg weakness. The National Enterovirus Laboratory in the capital city of Sofia subsequently isolated a wild type 1 poliovirus in the patient's stool. In April, a second case, with wild type 1 poliovirus isolate was found in lambol located approximately 50 miles west of Bourgas in an unvaccinated 26-month-old Roma girl who had onset of paralysis of both legs. Subsequent analyses indicated that these viruses were related closely to a strain isolated from Uttar Pradesh, India, in July 2000. A third confirmed case with clinical and serologic evidence of poliomyelitis was diagnosed in a 3-month-old Roma boy in Bourgas who had onset of paralysis on May 7. Following the identification of the poliovirus, the Bulgarian Ministry of Health implemented contact investigations, screening of children at high risk, retrospective record review, intensified acute flaccid paralysis (AFP) surveillance, and mass vaccinations. This report summarizes the outbreak investigation and supplemental vaccination activities in response to these polio cases. High routine vaccination coverage and certification standard AFP surveillance are necessary to detect rapidly and prevent the spread of poliovirus importations in areas and countries where polio is not endemic.

During 1998–2000, AFP surveillance in Bulgaria had detected 0.9 nonpolio cases per 100,000 persons aged <15 years per year (adequate surveillance is indicated by a nonpolio AFP case detection of ≥1 per 100,000 persons aged <15 years). In addition, 79% of AFP cases were investigated with adequate stool specimens* (adequate performance is indicated by an adequate specimen collection rate of at least 80%). During January–March 2001, two AFP cases were detected in Bulgaria. Following identification of case 1, the number of AFP cases identified increased rapidly. As of November 1, a total of 33 cases had been identified, including 30 nonpolio cases, corresponding to a nonpolio AFP detection rate of 2.6 per 100,000 persons aged <15 years. The proportion of cases with adequate specimens was 94%.

During April–May 2001, serosurveys were conducted among high-risk children (i.e., children from minority communities or residing close to areas with large minority populations) aged 0–83 months. Among 26 Roma children hospitalized in Bourgas, 12 (46%) lacked detectable antibodies (Table 1). High-risk children from Sofia were more likely to lack antibodies to all three types of polioviruses (nine of 12 children) than children residing in Dobrich, Pazardjik, and Plovdiv (six of 33 children). Stool specimens also were obtained from children at high risk for exposure. Wild type 1 poliovirus was found in an 11-month-old girl in Karnobat whose sister had shared the hospital ward with case 1, and in a 15-month-old girl in Sofia. These children had no symptoms compatible with polio.

To control the outbreak, a mass vaccination campaign of high-risk children was initiated on April 19 in the area of residence of case 1 and was expanded to the entire Bourgas district and the three neighboring districts of lambol, Sliven, and Stara Zagora on April 27. During May 28–June 1 and June 25–29, 2001, a national campaign composed of two rounds with a goal of vaccinating all 468,720 children aged 0–6 years was

^{*}Two stool specimens collected at least 24 hours apart within 14 days of onset of paralysis and shipped adequately to the laboratory.

Imported Wild Poliovirus — Continued

TABLE 1. Distribution of antibodies to poliovirus serotypes 1, 2, and 3 among hospitalized Roma children, by age — Bourgas, Bulgaria, 2001

Age group (mos)	No. with antibodies to all three serotypes	No. with antibody to serotype one	No. with no antibodies	Total	
0- 2	0	1	6	7	
3- 5	1	0	2	3	
6–23	7	2	2	11	
24-35	1	0	0	1	
36-83	1	1	2	4	
Total	10	4	12	26	

conducted. Administrative[†] coverage estimates suggested that 94% of all children in the country were vaccinated during the first round and 95% during the second. Because the initial contact investigations revealed that up to half of the children from high-risk groups were not vaccinated fully by the routine program, one additional round of mass vaccination was conducted during October for high-risk children aged 0–4 years; another round is scheduled for November.

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Editorial Note: This report describes the transmission for several months of a wild poliovirus imported into a country that had been free of polio for approximately 10 years. This outbreak of polio occurred because poliovirus was introduced into population subgroups with low immunity. The last indigenous wild poliovirus in the 51-country European Region (EUR) of the World Health Organization (WHO) occurred in November 1998 in Turkey (1). The last outbreak of polio in Bulgaria occurred in 1991 and involved 46 confirmed cases from the Roma community (2).

Suboptimal immunity in the Roma population contributed to the 1991 and 2001 outbreaks. Population subgroups with lower vaccination coverage can sustain the circulation of wild polioviruses for several years within a country (3–5). High-risk communities are present in all European countries. As polio is eliminated, areas or population groups with lower immunity remain vulnerable to importation of wild poliovirus and subsequent transmission (6,7).

When wild poliovirus type 1 was confirmed in this outbreak, WHO immediately informed authorities in all EUR member states and asked them to enhance AFP surveillance and rapidly enhance vaccination coverage in hard-to-reach minority population subgroups. WHO conducted training and consultation to improve surveillance and vaccination in several countries neighboring Bulgaria.

[†] Vaccination coverage determined by the administrative method (in which the doses administered is the numerator and the estimated number of children to be vaccinated is the denominator) is often higher than coverage determined through surveys because of overestimates in the number of doses of vaccine administered and underestimates of the size of the population that should receive vaccination.

Imported Wild Poliovirus — Continued

Bulgarian authorities promptly implemented National Immunization Days[§] within 64 days of paralysis onset in case 1. High coverage reported for the campaign countrywide, improved performance of AFP surveillance, and the absence of wild polioviruses in subsequent stool surveys of high-risk children suggest that circulation of the wild virus has been interrupted. The investigations and interventions by the Bulgarian Ministry of Health exemplify an effective response to possible importation of poliovirus that is particularly useful as EUR prepares to certify eradication of polio. Until polio is eradicated, the risk for importation will persist in countries and areas free of polio.

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Notice to Readers

Unexplained Deaths Following Knee Surgery — Minnesota, November 2001

The Minnesota Department of Health (MDOH) has received reports of three previously healthy persons who died unexpectedly following uncomplicated knee surgery; two had total knee replacements and one had a cartilage graft implantation. The surgeries were performed at two local hospitals. Two patients died on November 11, 2001, and one died on November 16, approximately 36–82 hours following surgery. CDC is assisting MDOH in the investigation of these events.

All three patients became ill 1–4 days following surgery. Symptoms included severe abdominal pain and a sudden decline in blood pressure followed by a fulminant course with death within 24 hours of symptom onset. The clinical course was consistent with septic or cardiogenic shock. After 5 days of incubation, a blood culture taken from one of the patients yielded *Clostridium sordellii*. The source of infection in the one patient and the cause of death in all patients remain unknown.

In response to these deaths, MDOH is recommending that all elective knee surgery in Minnesota be suspended pending findings of the investigation. To identify possible cases in other areas, CDC is seeking reports of patients who have had orthopedic surgery since

Mass campaigns over a period of days to weeks in which two doses of oral poliovirus vaccine are administered to all children usually aged <5 years regardless of previous vaccination history with an interval of 4–6 weeks between doses.

Notices to Readers — Continued

October 1, 2001, involving the knee or other large joint, and within 7 days following surgery who have 1) had hypotension and other clinical findings of cardiogenic or septic shock or abdominal pain; 2) had no other identified cause; and 3) required intensive care or have died. Clinicians should report such patients to their state health department or CDC's Division of Healthcare Quality Promotion, telephone 800-893-0485.

Notice to Readers

Weekly Update: West Nile Virus Activity — United States, November 14–20, 2001

West Nile virus (WNV) surveillance data for the week of November 14–20 will be published in next week's *MMWR*.

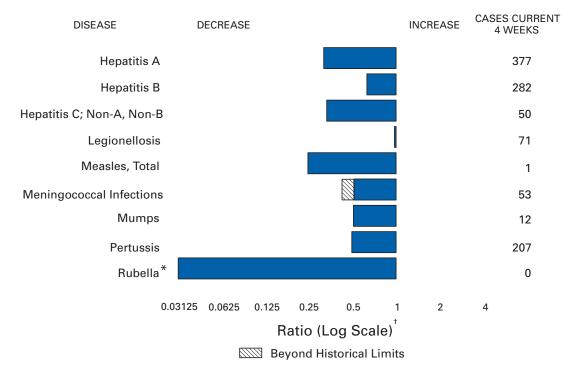
Erratum: Vol. 50, No. 45

In the Notice to Readers "Reducing the Risk for Injury While Traveling for Thanksgiving Holiday," the first line of the fourth paragraph should read "Place all children aged ≤12 years in the back seat." The second sentence of the fifth paragraph should read "More than 16,000 (40%) traffic deaths each year are associated with alcohol use."

Erratum: Vol. 50, No. SS-4

In the surveillance summary "Youth Tobacco Surveillance — United States, 2000," on page 49, Table 4, under the column titled "Any tobacco*," the total for middle school students should read $15.1 \ (\pm 1.5)$.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending November 17, 2001, with historical data



^{*} No rubella cases were reported for the current 4-week period yielding a ratio for week 46 of zero (0).

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending November 17, 2001 (46th Week)*

	Cum. 2001		Cum. 2001
Anthrax	13	Poliomyelitis, paralytic	_
Brucellosis†	75	Psittacosis [†]	22
Cholera	3	O fever [†]	20
Cyclosporiasis [†]	127	Rabies, human	I 1
Diphtheria	2	Rocky Mountain spotted fever (RMSF)	537
Ehrlichiosis: human granulocytic (HGE)†	186	Rubella, congenital syndrome	-
human monocytic (HME)†	79	Streptococcal disease, invasive, group A	3,162
Encephalitis: California serogroup viral†	99	Streptococcal toxic-shock syndrome [†]	42
eastern equine [†]	l $\tilde{8}$	Syphilis, congenital [¶]	190
St. Louis [†]	l ĭ	Tetanus	22
western equine [†]	1 :	Toxic-shock syndrome	103
Hansen disease (leprosy) [†]	73	Trichinosis	21
Hantavirus pulmonary syndrome [†]	l ′6	Tularemia [†]	93
Hemolytic uremic syndrome, postdiarrheal [†]	134	Typhoid fever	241
HIV infection, pediatric ^{†§}	181	Yellowfever	
Plaque	"2	Tollow level	

[†] 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.

^{-:} No reported cases.
*Incidence data for reporting year 2001 are provisional and cumulative (year-to-date).

Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV,

STD, and TB Prevention (NCHSTP). Last updated October 30, 2001. Updated from reports to the Division of STD Prevention, NCHSTP.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending November 17, 2001, and November 18, 2000 (46th Week)*

									coli O157:H7	
	Cum.	OS Cum.	Chlan Cum.	nydia⁵ Cum.	Cryptos Cum.	poridiosis Cum.	NE ⁻ Cum.	Cum.	Cum.	LIS Cum.
Reporting Area UNITED STATES	2001 ¹ 33,013	2000 32,692	2001 622,555	2000 615,338	2001 2,973	2000 2,754	2001 2,726	2000 4,147	2001 2,053	2000
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	1,276 40 31 13 661 85 446	1,673 28 28 29 1,049 81 458	20,498 1,187 1,166 542 8,730 2,602 6,271	20,828 1,304 980 476 8,933 2,372 6,763	2,973 114 18 15 31 46 4	2,754 129 20 22 26 34 3 24	2,726 214 26 33 13 113 14	358 31 35 33 158 19 82	2,053 211 26 27 8 107 11 32	3,416 365 28 38 34 164 18
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	7,683 823 3,788 1,537 1,535	7,090 665 3,755 1,423 1,247	66,940 12,657 26,225 9,798 18,260	58,010 2,672 23,286 9,403 22,649	242 96 84 10 52	348 115 156 17 60	193 150 12 31 N	409 274 22 113 N	180 136 10 34	325 67 18 113 127
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	2,513 482 306 1,115 459 151	3,164 475 320 1,596 601 172	103,743 21,662 13,217 29,501 26,784 12,579	105,665 27,359 11,890 29,663 22,252 14,501	1,366 153 77 399 166 571	911 250 57 114 90 400	719 198 79 152 86 204	1,013 247 118 186 136 326	473 146 39 128 73 87	712 214 83 155 104 156
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	719 121 78 347 2 23 63 85	762 153 73 349 2 7 64 114	31,159 6,361 3,944 11,275 767 1,571 2,175 5,066	34,856 7,250 4,638 11,881 774 1,626 3,287 5,400	407 170 78 41 13 6 96 3	344 123 74 29 15 15 79	508 242 79 57 18 41 52	599 161 173 106 18 54 60 27	410 186 60 81 31 41	574 189 147 96 21 58 46 17
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	10,366 218 1,529 738 803 73 807 623 1,239 4,336	9,072 182 1,127 694 580 54 585 682 1,049 4,119	119,206 2,309 10,712 2,642 16,192 2,082 18,039 9,717 26,228 31,285	115,757 2,551 12,457 2,834 13,893 1,897 19,481 8,583 24,632 29,429	308 6 36 10 24 2 27 7 127 69	430 6 9 14 18 3 25 - 161 194	209 4 23 - 48 10 46 16 30 32	346 3 32 1 67 14 87 21 38 83	129 7 1 U 39 8 33 11 15	274 1 2 U 62 13 67 16 37 76
E.S. CENTRAL Ky. Tenn. Ala. Miss.	1,554 299 507 378 370	1,618 168 684 418 348	42,865 7,615 12,770 12,401 10,079	45,186 7,082 13,112 13,786 11,206	45 4 13 16 12	46 5 11 15 15	118 57 37 16 8	138 39 53 10 36	99 47 39 6 7	111 32 51 9 19
W.S. CENTRAL Ark. La. Okla. Tex.	3,488 178 711 203 2,396	3,366 158 587 294 2,327	92,626 6,118 15,402 9,205 61,901	93,119 5,839 16,177 8,360 62,743	34 7 7 13 7	155 14 12 17 112	88 13 4 29 42	221 56 15 19 131	91 - 26 28 37	273 38 47 17 171
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	1,172 15 19 3 248 129 459 101	1,211 12 19 9 294 126 386 113 252	34,694 1,584 1,698 736 7,156 5,202 12,659 1,512 4,147	33,931 1,221 1,665 708 8,941 4,534 11,309 2,063 3,490	219 36 21 7 35 27 7 81 5	166 10 23 5 69 19 10 26 4	265 20 64 6 88 14 28 30	402 30 69 19 152 22 47 49	128 - - 1 52 10 22 42 1	298
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	4,242 435 177 3,552 18 60	4,736 428 145 4,042 22 99	110,824 12,013 6,463 86,648 2,284 3,416	107,986 11,548 5,958 85,077 2,235 3,168	238 48 186 1	225 U 18 207 -	412 116 64 211 4 17	661 218 129 270 30 14	332 62 58 203 1 8	484 200 112 155 6 11
Guam P.R. V.I. Amer. Samoa C.N.M.I.	12 1,021 2 1 -	13 1,133 31 -	2,193 53 U 117	442 U - U U	- - - U	- - U U	N 1 - U	N 6 - U U	U U U U	U U U U

I: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date). 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*. Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last updated October 30, 2001.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending November 17, 2001, and November 18, 2000 (46th Week)*

	Const		Hepatit	tis C;			Listaviasia	Ly	me
Reporting Area	Gonor Cum.	Cum.	Non-A, I	Cum.	Legionel Cum.	Cum.	Cum.	Cum.	Cum.
UNITED STATES	2001 287,475	2000 315,461	2001 2,876	2000 2,817	2001 915	2000 981	1 2001 416	2001 11,191	2000 15,328
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	5,903 119 163 61 2,756 754 2,050	5,851 81 96 60 2,445 578 2,591	15 - 7 8 -	29 2 - 4 18 5	70 9 10 5 22 10 14	53 2 3 5 17 9	39 2 4 3 24 1 5	3,631 136 15 826 449 2,205	4,933 60 39 1,128 550 3,156
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	34,282 7,594 11,078 6,831 8,779	34,650 6,580 10,203 6,403 11,464	1,439 52 - 1,338 49	624 35 - 547 42	174 61 23 8 82	274 84 45 21 124	62 26 11 10 15	5,540 3,219 2 927 1,392	7,985 3,450 176 2,395 1,964
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	54,242 12,096 5,856 16,306 15,392 4,592	63,086 16,929 5,615 18,643 15,684 6,215	149 5 1 13 130	209 12 - 19 178 -	273 122 22 19 74 36	252 105 34 29 47 37	62 14 8 11 22 7	633 110 23 21 13 466	761 58 22 35 23 623
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak.	13,350 2,065 1,016 7,047 34 248	15,903 2,823 1,114 7,847 62 259	647 9 - 625 -	539 5 2 521 -	48 9 8 21 1 3	55 7 13 25 - 2	17 2 10 -	356 292 35 24 -	365 267 31 45 1
Nebr. Kans.	710 2,230	1,334 2,464	4 9	4 7	5 1	4 4	1 4	3 2	4 17
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	73,547 1,398 6,020 2,417 9,505 621 14,714 6,483 14,463 17,926	82,125 1,537 8,610 2,341 9,286 574 15,998 7,535 16,091 20,153	97 - 16 - - 9 19 6 1 46	97 2 12 3 3 14 17 3 40	180 12 34 8 20 N 10 13 10 73	178 10 65 5 31 N 15 7 40	66 - 14 - 12 5 5 5 11 14	775 49 499 15 115 11 38 5	1,034 167 602 8 139 29 44 11
E.S. CENTRAL Ky. Tenn. Ala. Miss.	27,870 3,045 8,606 9,590 6,629	32,574 3,132 10,409 10,798 8,235	171 8 59 4 100	414 34 91 10 279	53 11 27 13 2	36 19 10 4 3	20 5 8 7	56 22 25 8 1	47 11 28 5 3
W.S. CENTRAL Ark. La. Okla. Tex.	45,324 3,853 10,500 4,212 26,759	49,135 3,426 11,972 3,733 30,004	176 4 88 3 81	672 8 413 8 243	5 - 2 3 -	23 7 3 13	18 1 - 2 15	81 - 2 - 79	85 5 7 1 72
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	8,690 88 99 77 2,509 877 3,421 119 1,530	9,350 45 77 42 2,854 1,000 3,762 208 1,362	62 1 2 8 20 11 9 3 8	69 5 3 2 13 13 18 1	50 3 1 14 3 19 6 4	41 1 5 - 14 1 7 12 1	33 - 1 1 7 7 8 2 7	13 - 5 1 3 - 1 1 2	12 - 2 3 - - 3 4
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	24,267 2,674 993 19,708 372 520	22,787 2,061 878 19,108 315 425	120 21 12 87 -	164 29 25 108 - 2	62 9 N 49 - 4	69 17 N 51 - 1	99 10 9 74 - 6	106 8 9 87 2 N	106 9 12 83 2 N
Guam P.R. V.I. Amer. Samoa C.N.M.I.	531 6 U 14	49 461 - U U	1 - U -	3 1 - U U	2 - U	1 U	- - - -	N - U -	N U U

N: Not notifiable.

-: No reported cases.

* Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending November 17, 2001, and November 18, 2000 (46th Week)*

Week	117,200	i, and it	Salmonellosis†						
	Mal	aria	Rabies,	Animal	NE	TSS		HLIS	
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	
UNITED STATES	1,100	1,316	5,866	6,337	32,115	34,970	26,538	29,233	
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	71 4 2 1 31 9 24	68 6 1 3 31 8 19	659 63 20 58 241 65 212	753 124 21 55 252 52 249	2,162 161 159 72 1,216 122 432	1,991 115 129 103 1,150 124 370	2,037 150 144 63 1,078 164 438	2,028 88 135 99 1,157 137 412	
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	311 63 180 34 34	352 71 201 46 34	1,088 715 26 173 174	1,196 757 18 179 242	3,687 1,104 972 652 959	4,548 1,113 1,099 1,057 1,279	3,483 1,213 1,192 657 421	4,811 1,175 1,188 931 1,517	
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	129 21 16 33 39 20	132 19 6 62 31 14	133 42 15 24 46 6	151 50 - 22 68 11	4,301 1,150 481 1,187 737 746	4,795 1,326 586 1,379 804 700	3,786 1,067 449 1,049 767 454	3,272 1,315 561 189 853 354	
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	32 6 7 12 - 2 5	63 27 2 17 2 1 8 6	321 43 74 41 35 42 4 82	495 82 71 50 107 88 2 95	2,097 599 324 594 56 141 128 255	2,172 491 333 651 55 89 204 349	2,193 609 301 878 78 118	2,332 623 321 800 73 96 137 282	
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	266 2 108 13 45 1 17 6 300 44	301 5 105 15 49 4 34 2 26 61	2,044 30 332 - 441 131 528 105 311 166	2,167 49 382 520 108 522 145 302 139	7,873 87 734 75 1,211 127 1,210 807 1,555 2,067	7,269 107 709 60 915 144 1,010 692 1,347 2,285	5,530 98 815 U 958 128 1,186 677 1,210	5,413 120 645 U 857 141 1,039 519 1,596 496	
E.S. CENTRAL Ky. Tenn. Ala. Miss.	33 12 11 6 4	44 18 11 14 1	190 26 101 61 2	191 19 97 74 1	2,397 333 582 692 790	2,199 352 586 610 651	1,715 217 738 474 286	1,668 242 752 557 117	
W.S. CENTRAL Ark. La. Okla. Tex.	12 3 5 3 1	67 3 11 8 45	879 20 3 57 799	831 20 4 52 755	3,402 830 333 432 1,807	4,553 673 819 350 2,711	2,537 92 952 375 1,118	2,785 544 690 275 1,276	
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	51 3 3 - 20 3 10 4 8	46 1 3 - 21 - 9 6 6	230 37 28 20 - 14 115 15	258 64 9 54 - 19 93 10 9	1,937 68 128 53 541 265 551 197 134	2,487 87 110 64 650 215 662 449 250	1,590 4 52 549 215 555 192 23	2,314 104 56 633 195 701 444 181	
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	195 10 13 162 1 9	243 31 37 165 - 10	322 - 3 282 37	295 7 261 27	4,259 465 216 3,206 39 333	4,956 532 270 3,885 55 214	3,667 491 292 2,526 28 330	4,610 607 330 3,419 33 221	
Guam P.R. V.I. Amer. Samoa C.N.M.I.	- 4 - U -	2 5 U U	83 - U -	72 - U U	510 - U 14	25 620 - U U	U U U U	U U U U	

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

* Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).

[†] Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending November 17, 2001, and November 18, 2000 (46th Week)*

WEEK	s enumy	Shige		i, aliu ivi	Syp		46th wee	K)
	NET			ILIS	(Primary &	Secondary)		rculosis
Reporting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
	2001	2000	2001	2000	2001	2000	2001	2000
UNITED STATES	15,682	20,121	7,225	11,509	5,161	5,389	10,681	12,514
NEW ENGLAND	239	374	260	354	56	76	364	374
Maine	6	10	2	11	1	1	3	16
N.H.	6	6	4	8	1	2	16	18
Vt.	7	4	5	-	2	-	4	4
Mass.	186	259	177	239	33	54	212	211
R.I.	17	30	25	31	9	4	34	28
Conn.	17	65	47	65	10	15	95	97
MID. ATLANTIC	1,138	2,421	693	1,573	448	250	2,007	2,004
Upstate N.Y.	446	702	113	209	23	9	316	290
N.Y. City	324	890	331	608	246	107	1,010	1,069
N.J.	185	483	184	415	119	62	433	479
Pa.	183	346	65	341	60	72	248	166
E.N. CENTRAL	3,823	3,842	1,678	1,162	917	1,094	1,163	1,265
Ohio	2,609	361	1,111	293	71	65	232	246
Ind.	205	1,452	42	148	147	322	94	129
III.	463	1,095	288	108	303	369	530	604
Mich.	281	623	210	558	374	294	234	210
Wis.	265	311	27	55	22	44	73	76
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	1,766 417 351 296 21 543 72 66	2,259 735 499 612 42 7 136 228	1,182 384 290 198 29 246 - 35	1,876 823 327 435 49 4 113	78 27 4 20 - 5 22	60 15 11 26 - - 2 6	403 201 34 121 3 12 32	458 140 33 171 2 16 22 74
S. ATLANTIC	2,237	2,694	731	1,065	1,768	1,801	2,234	2,466
Del.	14	22	11	21	9	8	15	14
Md.	139	182	87	105	230	273	201	216
D.C.	53	72	U	U	33	36	51	29
Va.	367	425	175	332	96	120	228	236
W. Va.	8	4	8	5	4	3	26	27
N.C.	313	352	166	246	404	435	307	311
S.C.	239	128	120	85	206	205	153	238
Ga.	367	239	130	169	330	353	409	532
Fla.	737	1,270	34	102	456	368	844	863
E.S. CENTRAL	1,430	1,071	564	533	584	789	717	813
Ky.	651	460	300	107	43	78	103	109
Tenn.	92	331	104	356	294	474	265	302
Ala.	196	87	130	63	118	109	239	270
Miss.	491	193	30	7	129	128	110	132
W.S. CENTRAL	2,050	3,178	1,146	1,039	651	741	770	1,835
Ark.	518	191	155	57	31	95	136	165
La.	128	263	166	171	154	193	-	176
Okla.	78	114	36	43	60	108	122	134
Tex.	1,326	2,610	789	768	406	345	512	1,360
MOUNTAIN	874	1,128	640	801	214	210	433	458
Mont.	8	7	-	-	-	-	6	17
Idaho	39	44	-	25	1	1	8	8
Wyo.	3	5	5	3	1	1	3	4
Colo.	219	242	246	200	36	8	108	73
N. Mex.	113	154	75	106	17	16	24	39
Ariz.	370	482	253	320	143	178	199	190
Utah	56	75	53	81	8	1	33	41
Nev.	66	119	8	66	8	5	52	86
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	2,125 187 80 1,793 6 59	3,154 416 156 2,542 7 33	331 167 102 6 56	3,106 387 104 2,582 3 30	445 42 13 379 - 11	368 60 11 296 - 1	2,590 210 94 2,113 43 130	2,841 221 88 2,315 98 119
Guam P.R. V.I. Amer. Samoa C.N.M.I.	- 8 - U 7	37 33 U U	U U U U	U U U U	240 - U 10	3 148 - U U	- 76 - U 31	49 135 - U U

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

*Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).

*Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending November 17, 2001, and November 18, 2000 (46th Week)*

	H. influ	ienzae,	Н	epatitis (Vi	ral), By Ty	pe			Meas	les (Rubec	ola)	
		sive	Α		В		Indige		Impo	orted [†]	Tota	
Reporting Area	Cum. 2001⁵	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	2001	Cum. 2001	2001	Cum. 2001	Cum. 2001	Cum. 2000
UNITED STATES	1,134	1,143	8,910	11,698	5,770	6,273	-	49	-	44	93	75
NEW ENGLAND Maine	83 2	95 1	571 11	356 21	89 5	99 5	-	4	-	1	5	6
N.H.	4	12	16	18	14	15	U	-	U	-	-	3
Vt. Mass.	3 39	8 37	16 251	10 126	4 10	6 14	-	1 2	-	1	1 3	3
R.I. Conn.	5 30	4 33	59 218	23 158	25 31	21 38	-	- 1	-	-	- 1	-
MID. ATLANTIC	170	211	851	1,378	892	1,047	-	5	-	11	16	21
Upstate N.Y. N.Y. City	66 44	91 58	242 266	230 471	116 383	120 509	-	1 3	-	4 1	5 4	10 10
N.J. Pa.	40 20	37 25	159 184	260 417	169 224	162 256	U U	- 1	U U	1 5	1 6	- 1
E.N. CENTRAL	155	161	1,043	1,512	804	655	-	-	-	10	10	8
Ohio Ind.	55 46	49 27	204 93	238 110	84 45	96 44	-	-	-	3	3	2
III.	20	56	385	645	134	108	-	-	-	3	3	3
Mich. Wis.	12 22	9 20	295 66	444 75	541 -	369 38	-	-	-	-	-	3 -
W.N. CENTRAL Minn.	58 36	65 35	376 40	612 167	189 21	263 34	-	4 2	-	1 1	5 3	2 1
lowa Mo.	13	20	35 103	62 246	25 103	31 128	-	2	-	-	2	-
N. Dak. S. Dak.	7	2 1	3 3	3 2	1 1	2 1	U U	-	U U	-	-	-
Nebr. Kans.	1 1	3 4	30 162	30 102	22 16	42 25	ŭ	-	ŭ	-	-	- 1
S. ATLANTIC	333	250	2,134	1,314	1,340	25 1,145	-	4	_	1	5	4
Del. Md.	- 77	- 75	262	15 182	129	14 112	-	2	-	- 1	3	-
D.C.	-	-	51	24	11	29	-	-	-	-	-	-
Va. W. Va.	27 14	37 8	119 18	142 53	158 20	147 14	-	1 -	-	-	1 -	2
N.C. S.C.	44 7	23 7	206 70	129 74	191 29	219 21	-	-	-	-	-	-
Ga. Fla.	91 73	62 38	856 552	279 416	442 360	218 371	-	1 -	-	-	1 -	2
E.S. CENTRAL	68	45	356	367	379	425	-	2	-	-	2	-
Ky. Tenn.	2 38	12 20	118 144	47 131	40 208	68 201	-	2	-	-	2	-
Ala. Miss.	26 2	11 2	70 24	48 141	77 54	56 100	- U	-	Ū	-	-	-
W.S. CENTRAL	44	62	1,180	2,181	628	999	-	-	-	1	1	-
Ark. La.	1 6	2 16	62 57	125 85	88 44	90 140	-	-	-	-	-	-
Okla. Tex.	36 1	42	109 952	238 1,733	85 411	141 628	-	-	-	- 1	- 1	-
MOUNTAIN	127	113	659	828	444	475	_	1	_	1	2	12
Mont. Idaho	2	1	11 54	7 29	3 11	6	U	-	U	1	- 1	-
Wyo.	-	1	7	4	3	3	-	-	-	-	-	-
Colo. N. Mex.	34 20	28 22	81 37	186 68	99 128	91 124	-		-	-	- -	2
Ariz. Utah	54 7	41 11	353 64	406 55	132 26	176 24	-	1 -	-	-	1 -	3
Nev.	10	5	52	73	42	45	U	-	U	-	-	7
PACIFIC Wash.	96 5	141 7	1,740 139	3,150 258	1,005 128	1,165 103	-	29 13	-	18 2	47 15	22 3
Oreg. Calif.	19 43	32 35	68 1,516	157 2,709	100 751	108 932	Ū	4 10	Ū	- 11	4 21	- 15
Alaska Hawaii	6 23	44 23	14	13 13	9 17	11 11	-	2	-	- 5	-: - 7	1 3
Guam	_	1	-	1	-	10	U	-	U	-	-	-
P.R. V.I.	1 -	4	119	233	173 -	259	U U	-	U U	-	-	2
Amer. Samoa C.N.M.I.	U	U U	U	U U	U 33	U U	ŭ	U	ŭ	U	U	U U
N: Not notifiable	- 11.1	Inavailable			orted case							

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

* Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).

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

§ Of 245 cases among children aged <5 years, serotype was reported for 117, and of those, 20 were type b.

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending November 17, 2001, and November 18, 2000 (46th Week)*

			ivovei	mper 18	3, 2000	(46th	Week)	· ·			
	Dise	jococcal ease		Mumps			Pertussis			Rubella	
Reporting Area	Cum. 2001	Cum. 2000	2001	Cum. 2001	Cum. 2000	2001	Cum. 2001	Cum. 2000	2001	Cum. 2001	Cum. 2000
UNITED STATES	1,918	1,939	3	194	289	49	4,126	6,261	-	21	165
NEW ENGLAND Maine	99 4	117 8	-	-	4	-	374 21	1,649 41	-	-	12
N.H.	13	12	U	-	-	Ū	28	117	U	-	2
Vt. Mass.	5 51	3 67	-	-	1	-	30 27 <u>3</u>	226 1,201	-	-	8
R.I. Conn.	4 22	9 18	-	-	1 2	-	5 17	19 45	-	-	1 1
MID. ATLANTIC	191	230	-	20	25	2	261	638	-	5	9
Upstate N.Y. N.Y. City	56 38	69 39	.5	3 10	10 6	2	129 44	316 81		1 3	1 8
N.J. Pa.	43 54	47 75	U U	3 4	3 6	U U	18 70	30 211	U U	1 -	-
E.N. CENTRAL	229	348	1	19	22	12	589	726	-	3	1
Ohio Ind.	69 35	83 41	-	1 3	7 1	9 1	228 79	309 93	-	1	-
III. Mich.	25 58	<i>7</i> 7 105	- 1	11 4	6 6	1 1	68 127	107 100	-	2	1 -
Wis.	42	42	-	-	2	-	87	117	-	-	-
W.N. CENTRAL Minn.	135 20	137 20	-	7 3	17 -	5 -	306 146	530 314	-	3	2 1
lowa Mo.	28 48	32 62	-	-	7 4	3	31 92	52 84	-	1 1	
N. Dak.	6	2	U	-	1	U	4	6	Ü	-	-
S. Dak. Nebr.	5 14	5 7	U	1	2	U	4	7 27	U U	-	1
Kans. S. ATLANTIC	14	9	-	3 37	3	2	25 236	40 453	-	1 7	- 112
Del.	339 4	261 1	1	-	41 -	6	-	8	-	1	1
Md. D.C.	38 -	26 -	1 -	7 -	9 -	4 -	37 1	111 3	-	-	-
Va. W. Va.	37 12	38 13	-	8 -	9	-	41 3	106 1	-	-	-
N.C. S.C.	62 33	36 21	-	5 5	7 10	1 1	69 32	98 30	-	2	82 27
Ga. Fla.	46 107	43 83	-	7 5	2 4	-	27 26	38 58	-	1 3	2
E.S. CENTRAL	122	127	-	9	5	-	131	108	-	-	6
Ky. Tenn.	20 56	26 53	-	3 1	1 2	-	35 57	55 32	-	-	1 1
Ala. Miss.	31 15	34 14	- U	- 5	2	Ū	35 4	18 3	Ū	-	4
W.S. CENTRAL	313	205	1	13	31	8	437	348	-	1	8
Ark. La.	18 61	12 43	-	1 2	3 5	1 -	44 2	35 19	-	-	1 1
Okla. Tex.	27 207	26 124	- 1	10	23	1 6	20 371	47 247	-	- 1	- 6
MOUNTAIN	83	85	-	11	19	12	1,185	713	-	1	2
Mont. Idaho	4 7	4 7	U	1 1	1 -	U -	35 170	35 59	U -	-	-
Wyo. Colo.	5 31	1	-	1 1	1 -	- 11	1 253	4 419	-	- 1	- 1
N. Mex.	10 13	32 9 22	-	2	1		135	85	-	-	<u>:</u> 1
Ariz. Utah	7	7	-	1 1	4 6	1	498 75	72 24	-	-	-
Nev. PACIFIC	6 407	3 429	U -	3 78	6 125	U 4	18 607	15 1,096	U	- 1	- 13
Wash.	60	51	-	2	9	-	142	372	-	-	13 7 -
Oreg. Calif.	40 292	ස 299	N U	N 39	N 87	2 U	50 374	106 558	Ū	-	6
Alaska Hawaii	2 13	8	-	1 36	8 2 1	2	10 31	21 39	-	- 1	-
Guam	-	-	Ų	-	16	Ų	-	4	Ü	-	1
P.R. V.I.	4	9	U			U	2	9	U	-	
Amer. Samoa C.N.M.I.	U -	U U	U	U -	U	U -	U -	U U	U -	U -	U U

N: Not notifiable.

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

* Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).

TABLE IV. Deaths in 122 U.S. cities,* week ending November 17, 2001 (46th Week)

	inoveilibe					<i>,</i>	,, 2	.001 (40tii W	T CCK/						
		All Cau	ıses, By	Age (Y	ears)		P&I⁺			All Cau	ıses, By	/ Age (Y		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	549	394		41	10	12	40	S. ATLANTIC	1,146	728	242	113	38	23	85
Boston, Mass. Bridgeport, Conn	. 139 . 41	92 33		12 4	4	4 1	13 1	Atlanta, Ga. Baltimore, Md.	143 141	88 89	34 24	17 22	4 5	1	7 17
Cambridge, Mass Fall River, Mass.	. 19 29	15 25		-	-	-	2	Charlotte, N.C. Jacksonville, Fla	105 . 152	67 98	27 28	4 11	3 6	4 7	17 11
Hartford, Conn.	Ú	U	U	Ų	Ū	U	U	Miami, Fla.	104	73	14	11	4	2 1	9
Lowell, Mass. Lynn, Mass.	21 18	14 15		2 1	-	-	2	Norfolk, Va. Richmond, Va.	36 63	19 36	14 15	2 9	2	1 1	3
New Bedford, Ma		18 27	3	2 1	-	-	3	Savannah, Ga.	50	35 52	9 11	5 7	1	-	1 4
New Haven, Conr Providence, R.I.	59	46	7	4	1 1	1	3	St. Petersburg, F Tampa, Fla.	178	116	40	13	3 6	3	10
Somerville, Mass Springfield, Mass		30 30		1 6	2	2	- 4	Washington, D.(Wilmington, Del		55 U	26 U	12 U	4 U	4 U	Ū
Waterbury, Conn.	. 27	20	4	2	2	1	4	E.S. CENTRAL	804	542	157	61	21	23	59
Worcester, Mass.		56						Birmingham, Ala	a. 179	121	3 8	10	5	5	20
MID. ATLANTIC Albany, N.Y.	2,265 51	1,522 34	11	201 4	52 -	30 2	99 2	Chattanooga, Te Knoxville, Tenn.	76	33 50	12 16	1 8	2	3 2 1	3 3
Allentown, Pa. Buffalo, N.Y.	28 101	25 81		1 1	-	2	1 2	Lexington, Ky. Memphis, Tenn.	61 176	45 128	9 23	2 15	4 3	1 7	7 8
Camden, N.J.	44	25	13	4	1	1	4	Mobile, Ala.	72	55	8	8	1	-	4
Elizabeth, N.J. Erie, Pa.§	13 47	8 41	6	-	-	-	2	Montgomery, Al Nashville, Tenn.	la. 38 151	24 86	12 39	- 17	2 4	5	5 9
Jersey City, N.J. New York City, N.	35 Y. 1.230	20 781		2 139	2 30	18	39	W.S. CENTRAL	1,017	659	220	71	36	19	73 3
Newark, N.J.	Ū	U	U	U	U	U	Ü 1	Austin, Tex. Baton Rouge, La	. 74 . 78	53 52	14 11	4 9	2 4	1 2	3 2
Paterson, N.J. Philadelphia, Pa.	16 343	12 211	82	2 29	1 14	7	15	Corpus Christi, 1 Dallas, Tex.		31	15 50	1	1	2 9	5
Pittsburgh, Pa.§ Reading, Pa.	31 33	26 30		1 1	-	-	- 6	El Paso, Tex.	88	118 59	21	12 7	8 1	-	24 1
Rochester, N.Y.	142	111	22	9	-	-	10	Ft. Worth, Tex. Houston, Tex.	108 U	63 U	32 U	7 U	6 U	Ū	5 U
Schenectady, N.Y Scranton, Pa.§	25	20 21	2	1 2	-	-	4 2	Little Rock, Ark.	77	43	12	6	2	2	2
Syracuse, N.Y. Trenton, N.J.	53 31	40 24		2 2	2	-	9 1	New Orleans, La San Antonio, Te	x. 166	U 111	U 33	U 13	U 6	U 3	U 9
Utica, N.Y. Yonkers, N.Y.	16 U	12 U		1 U	2 U	- U	1 U	Shreveport, La. Tulsa, Okla.	55 124	40 89	7 25	7 5	1 5	-	7 15
E.N. CENTRAL	1,714	1,163	_	98	43	46	124	MOUNTAIN	998	689	175	78	26	28	60
Akron, Ohio	43 40	33 32	7	2	-	1	4	Albuquerque, N Boise, Idaho	.M. 114 57	76 44	16 6	11 3	5 3	6 1	5 2
Canton, Ohio Chicago, III.	Ú	U	U	1 U	Ū	Ū	U	Colo. Springs, C	olo. 6 8	50	13	4 9	1 5	- 7	3 6
Cincinnati, Ohio Cleveland, Ohio	96 125	63 79		4 13	6 2	6 5	11 7	Denver, Colo. Las Vegas, Nev.	101 227	60 162	20 44	18	2	1	11
Columbus, Ohio	193	124	50	11 8	2 1	6	10 10	Ogden, Utah Phoenix, Ariz.	26 157	20 97	3 28	1 21	1 5	1 4	3 10
Dayton, Ohio Detroit, Mich.	126 196	93 106	58	20	8	4	12	Pueblo, Colo.	27	23 85	4 23	4	4	7	1 13
Evansville, Ind. Fort Wayne, Ind.	59 52	46 40		2 2	3	2	6 5	Salt Lake City, U Tucson, Ariz.	98	72	18	7	-	1	6
Gary, Ind. Grand Rapids, Mi	16 ch. 63	9 44		2	2 4	1 3	1 4	PACIFIC	1,515	1,073	294	95	31	21	114
Indianapolis, Ind.	203	127	54	9	5	8	21 3	Berkeley, Calif. Fresno, Calif.	15 69	11 49	1 15	3 5	-	-	4 6
Lansing, Mich. Milwaukee, Wis.	41 116	24 82	24	6 6	2 2	2	11	Glendale, Calif. Honolulu, Hawa	19 ii 55	15 45	4 10	-	-	-	1 2
Peoria, III. Rockford, III.	53 73	40 60		- 1	1 1	3 1	4 4	Long Beach, Cal	if. 69	44	19	3 27	2	1	6 20
South Bend, Ind.	51	35	10	2	2	2	-	Los Angeles, Cal Pasadena, Calif.	if. 322 13	205 12	70 -	1	13	7 -	1
Toledo, Ohio Youngstown, Ohi	94 io 74	68 58		6 1	2	1 1	4 1	Portland, Oreg. Sacramento, Cal	169 if. 193	115 140	37 39	10 11	2 2	4 1	9 20
W.N. CENTRAL	673	465		40	19	20	47	San Diego, Calif San Francisco, C	. 149	105 U	29 U	8 U	3 U	4 U	16 U
Des Moines, Iowa Duluth, Minn.	a 79 29	56 21		3 2	-	2 1	7 4	San Jose, Calif.	141	109	24	4	3	1	8
Kansas City, Kans Kansas City, Mo.		12 50	6	1 3	2 2	4	1	Santa Cruz, Calit Seattle, Wash.	f. 35 103	23 79	7 11	4 10	1 1	2	4 7
Lincoln, Nebr.	16	15	-	1	-	-	1	Spokane, Wash. Tacoma, Wash.		47 74	7 21	9	1 3	- 1	5 5
Minneapolis, Min Omaha, Nebr.	ın. 135 89	102 61		9 4	1 2	1 9	12 12	TOTAL	10,681¶			798	276	222	701
St. Louis, Mo. St. Paul, Minn.	90 81	45 60	24	11 4	8 3	2	5	IOIAL	10,001	1,233	۱ ۲ ، ۱ ۲	130	2/0	222	701
Wichita, Kans.	57	43		2	1	1	1								

U: Unavailable. -:No reported cases.

* Mortality data in this table are reported voluntarily 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.

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