



#### MORBIDITY AND MORTALITY WEEKLY REPORT

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# Fatalities Associated with Ingestion of Diethylene Glycol-Contaminated Glycerin Used to Manufacture Acetaminophen Syrup — Haiti, November 1995–June 1996

From November 1995 through June 1996, acute anuric renal failure was diagnosed in 86 children (aged 3 months–13 years) in Haiti; most (85%) children were aged ≤5 years. On June 14, 1996, a joint investigation was initiated by the Ministry of Health of Haiti, the University General Hospital in Port-au-Prince, the Pan American Health Organization/World Health Organization, the Caribbean Epidemiology Center, and CDC. This report summarizes the preliminary findings of this ongoing investigation, which indicate that this outbreak was associated with diethylene glycol (DEG)-contaminated glycerin used to manufacture acetaminophen syrup.

Most cases were characterized by a nonspecific febrile prodromal illness followed within 2 weeks by anuric renal failure, pancreatitis, hepatitis, and neurologic dysfunction progressing to coma. Ten children were transferred to medical centers in the United States for intensive care and dialysis; nine are still living. Of the 76 children who remained in Haiti, only one is known to have survived. Histopathology of kidney tissue from four patients indicated acute tubular necrosis with regeneration consistent with a toxic exposure.

The investigation indicated that at least 79% of patients had consumed one of two locally manufactured acetaminophen syrup preparations ("Afebril" and "Valodon"), which were subsequently found to contain DEG. On June 22, the Ministry of Health of Haiti issued an alert to parents not to administer these products and prohibited their sale. The manufacturing company announced a recall of these and other syrup products it produces. Following the recall and an ongoing public information campaign, the number of new cases declined sharply; the last reported case-patient was admitted to a hospital on June 29. The traceback investigation, which is being conducted in collaboration with the U.S. Food and Drug Administration (FDA), indicates that glycerin used in the formulation of these syrups was contaminated with DEG. The contaminated glycerin was imported to Haiti from another country.

Reported by: R Malebranche, MD, Minister of Health, C Hecdivert, Ministry of Health; A Lassegue, MD, S St. Victor, MD, R Derosena, MD, K Denerville, MD, CH St. Amand, MD, D Severe, MD, E Compas, MD, P Cleophat, MD, JH Buteau, MD, D Fabien, MD, J Colimon, MD, RI Verdier, MD, Univ General Hospital, Port-au-Prince; M Cayemitte, MD, MF Placide, MD, Child Health Institute of Haiti. J Hospedales, MD, M Lewis, PhD, Caribbean Epidemiology Center; M-A Diouf, MD, S Garcia, MD, Pan American Health Organization/World Health Organization,

Diethylene Glycol-Contaminated Glycerin — Continued

Haiti. R Parekh, MD, T Bunchman, MD, Univ of Michigan, Ann Arbor. L Racusen, MD, Johns Hopkins Univ, Baltimore. Food and Drug Administration. Health Studies Br, Div of Environmental Hazards and Health Effects, National Center for Environmental Health; Childhood and Respiratory Diseases Br, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases, CDC.

**Editorial Note**: DEG, a known nephrotoxin and hepatotoxin, is used in industrial solvents and antifreeze. The mechanism of toxicity is unknown but probably is different from oxalate toxicity associated with ethylene glycol poisoning. Management of patients with DEG toxicity relies on early diagnosis with supportive and symptomatic care for multi-organ failure. Although data on outcome are limited, survival with resolution of signs and symptoms has been reported (1).

The outbreak in Haiti is the fourth large outbreak associated with pharmaceutical products contaminated with DEG. Previous outbreaks (in the United States, Nigeria, and Bangladesh) resulted from ingestion of DEG-contaminated sulfanilamide or acetaminophen syrups (1–3). In two of the outbreaks, propylene glycol was the contaminated raw material, and in a third, DEG was used as a diluent. A cluster of 14 deaths occurred in India among patients in one hospital who ingested DEG-contaminated glycerin used for control of intracranial pressure (4).

Glycerin is used as a sweetener in formulations of many pharmaceutical syrups ingested orally. Complexities in the distribution of glycerin and other pharmaceutical raw materials that may involve many handlers (importers and exporters) underscore the need for manufacturers to adequately identify raw materials and end products. However, infrared spectroscopy tests required by the United States Pharmocopoeia (USP) would not have detected this DEG-contaminated glycerin syrup. A gas chromatography method capable of separating and detecting glycerin, ethylene glycol, and DEG can be used to determine that glycerin is free of these contaminants. The outbreak in Haiti emphasizes the need for pharmaceutical producers worldwide to be aware of possible contamination of glycerin and other raw materials with DEG and to use appropriate quality-control measures to identify and prevent potential contamination.

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# Invasive Infection with *Streptococcus iniae* — Ontario, 1995–1996

During December 1995–February 1996, four cases of a bacteremic illness (three accompanied by cellulitis and the fourth with infective endocarditis, meningitis, and probable septic arthritis) were identified among patients at a hospital in Ontario. Streptococcus iniae, a fish pathogen not previously reported as a cause of illness in humans (1–3), was isolated from all four patients. All four patients were of Chinese

Streptococcus iniae — Continued

descent had a history of preparing fresh, whole fish; three patients for whom information was available had had an injury associated with preparation of fresh, whole fish purchased locally. This report summarizes information about these cases and presents preliminary findings of an ongoing investigation by health officials in Canada (4), which suggests that *S. iniae* may be an emerging pathogen associated with injury while preparing fresh aquacultured fish.

## **Case Reports**

The first three cases occurred during December 15–20, 1995, among previously healthy women who ranged in age from 40–74 years. Each had a history of injury to the hand while preparing fresh, whole, aquacultured fish. The first case-patient reported a puncture wound to her hand with a fish bone while preparing a newly purchased tilapia (*Oreochromis* species)\*, a freshwater fish marketed primarily as whole fish; the second lacerated the skin over her finger with a knife that had just been used to cut and clean a freshwater fish of unknown type; and the third punctured her finger with the dorsal fin while scaling a fresh tilapia.

The period from injury to onset of symptoms for the three cases ranged from 16 hours to 2 days. At the time of hospitalization, physical examination findings included fever (range: 100.4 F [38.0 C] to 101.3 F [38.5 C]) and cellulitis with lymphangitic spread proximate to the site of injury. Leukocyte counts ranged from 12,900/mm<sup>3</sup> to 16,900/mm<sup>3</sup> with an increased proportion of neutrophils. Blood cultures from all three patients were positive for *S. iniae*, and treatment with beta-lactam antibiotics or clindamycin resulted in complete resolution of all manifestations of illness.

The fourth patient, a 77-year-old man, was admitted to the hospital on February 1, 1996, because of a 1-week history of increasing knee pain, intermittent sweats, fever, dyspnea, and confusion. Past medical history included diabetes mellitus, hypertension, rheumatic heart disease, chronic renal failure, Paget's disease, and osteoarthritis. Approximately 10 days before admission, he had prepared a fresh tilapia, although it was unknown whether he incurred an injury while preparing the fish. Findings on examination included temperature of 96.1 F (35.6 C) and a large effusion and warmth of the right knee without overlying cellulitis. New murmurs of aortic insufficiency and mitral regurgitation were noted. While in the emergency department, he had a respiratory arrest and was intubated; treatment included administration of a beta-lactam agent and erythromycin. The leukocyte count on admission was 25,200/mm<sup>3</sup> with 95% neutrophils. Ten hours following admission, his knee was aspirated, and a lumbar puncture was performed. Analysis of the joint fluid included a leukocyte count of 72,000/mm<sup>3</sup> but no evidence of crystals. Analysis of the cerebrospinal fluid (CSF) included a leukocyte count of 87/mm<sup>3</sup> (54% neutrophils), a glucose of 14 mg/dL, and a protein of 320 mg/dL. Cultures of samples of synovial fluid and CSF were negative, but blood cultures yielded S. iniae. Based on the clinical and laboratory findings, and a transesophageal echocardiogram that documented a mitral-valve vegetation, S. iniae endocarditis and meningitis were diagnosed. Treatment with beta-lactam antibiotics was continued, and he recovered.

#### Microbiology

Isolates from all patients grew on sheep-blood agar incubated in room air at 95.0 F (35 C), appeared as gram-positive cocci in short chains or pairs, and were catalase-

<sup>\*</sup>Tilapia is one of the fastest growing aquaculture industries in the United States and the world.

Streptococcus iniae — Continued

negative. During the first 18 hours of incubation, colonies were alpha-hemolytic and initially were identified as viridans streptococci. Further testing conducted by reference laboratories identified them as *S. iniae*. Three strains were resistant to bacitracin, and the fourth was susceptible. Pulsed-field gel electrophoresis patterns of chromosomal *Sma*1 digests of all four isolates were identical. Microbroth-dilution testing for susceptibility indicated that all isolates were susceptible to beta-lactams, macrolides, trimethoprim-sulfamethoxazole, and tetracycline.

#### Follow-Up Investigation

All four patients had prepared fresh, whole fish, three of which were known to be tilapia, that had been purchased from different stores. In two cases, the fish were taken live from holding tanks in different fish markets. Surface cultures were obtained from four fresh tilapia purchased at selected fish markets in the community during March 1996. Cultures from three of the four fish yielded *S. iniae*; however, pulsed-field gel electrophoresis patterns were different for each, and none matched the outbreak strain. None of the vendors at the markets where the fish were purchased reported that the fish appeared to be sick. Fresh, whole tilapia sold in Ontario were imported from U.S. fish farms.

The ongoing epidemiologic and microbiologic investigation includes the establishment of surveillance for cases of upper-extremity cellulitis in patients visiting the emergency departments of 10 Toronto-area hospitals and use of a standardized questionnaire for interviewing patients. In addition, to better characterize the prevalence of *S. iniae* in fish, samples from live, aquacultured fish imported into Canada are being collected and tested by Canadian health officials for *S. iniae*.

Reported by: M Weinstein, MD, DE Low, MD, A McGeer, MD, B Willey, Mount Sinai Hospital and Princess Margaret Hospital, Univ of Toronto, and Canadian Bacterial Diseases Network, Toronto; D Rose, MD, M Coulter, P Wyper, Scarborough Grace Hospital, Scarborough; A Borczyk, MSc, Public Health Laboratory of Ontario, Toronto; M Lovgren, National Reference Center for Streptococcus, Laboratory Center for Disease Control, Edmonton, Alberta, Canada. Childhood and Respiratory Diseases Br, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases, CDC.

**Editorial Note**: Because of recent increases in aquaculture, the occurrence of infections caused by a variety of streptococcal species is increasing among some saltwater and freshwater fish. *S. iniae* was first recognized in 1972 as a cause of disease in an Amazon freshwater dolphin, *Inia geoffrensis*. In 1986, *S. iniae* (reported as *S. shiloi*) was identified as a cause of meningoencephalitis among tilapia and trout in Israel; the organism was identified subsequently among tilapia in the United States and Taiwan. Infections with *S. iniae* may be asymptomatic or may cause disease associated with death rates of 30% to 50% in affected fishponds (2).

The first recognized case of *S. iniae* infection in humans occurred in Texas in 1991, and a second case occurred in Ottawa, Canada, in 1994; however, potential sources for both cases were not determined. The pulsed-field gel electrophoresis digest from the isolates causing both of these infections was identical to the isolates of the cases described in this report, except for a one-band shift.

Whether the recent cases of *S. iniae* infection represent the emergence of a new human pathogen or previously unrecognized disease is unclear. *S. iniae* infection may not be recognized because cultures rarely are obtained from patients with wound infections or cellulitis and, if cultured, viridans streptococcus isolates may be consid-

Streptococcus iniae — Continued

ered contaminants and not be further characterized. In addition, it is unclear whether human infections may be caused by any *S. iniae* strain or whether the strain implicated in all six of the cases is more virulent than other strains. Finally, because all four persons described in this report were of Chinese descent, potential racial/ethnic associations with risk for this infection should be further considered. Additional culture surveys and laboratory studies of tilapia should assist in characterizing the diversity and virulence among *S. iniae*.

To more clearly define the role of *S. iniae* as a human pathogen, physicians are encouraged to obtain blood and wound cultures from persons with upper-extremity cellulitis and to seek a history of recently having prepared a fresh, whole fish. Microbiology laboratories should be able to make a preliminary identification of *S. iniae* based on several distinguishing phenotypic characteristics. Possible *S. iniae* isolates can be confirmed at the CDC Streptococcal Reference Laboratory and tested to determine whether they are the same strain as identified from the six cases of human disease.

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## Adequacy of Prenatal-Care Utilization — California, 1989–1994

A national health objective for the year 2000 is to increase to at least 90% the proportion of pregnant women who receive prenatal care during the first trimester of pregnancy (objective 14.11) (1). Adequate prenatal care is believed to result in better pregnancy outcomes, including reduced maternal and infant morbidity and mortality and reduced risk for preterm delivery and for low birthweight (<2500 g [<5 lb 8 oz]) (2). However, measures of prenatal-care utilization based on first-trimester initiation of prenatal care address only the timing of prenatal-care initiation and do not include the frequency of visits thereafter, which can provide a more comprehensive measure

<sup>&</sup>lt;sup>†</sup> S. iniae is beta-hemolytic; however, some strains may appear to be alpha-hemolytic because a narrow zone of beta-hemolysis is surrounded by a larger zone of alpha-hemolysis (5,6). Beta-hemolysis always is observed under anaerobic incubation and in the area of stabs in the agar. S. iniae is nongroupable with Lancefield group A through U antisera. In addition, the pyrrolidonylarylaminase and leucine aminopeptidase tests are positive, the Voges-Proskauer test is negative, and the organism may have variable susceptibility to bacitracin.

Prenatal-Care Utilization — Continued

of prenatal-care utilization. To calculate rates of prenatal-care utilization for California during 1989–1994, the California Department of Health Services (CDHS) analyzed data from birth certificates using a more comprehensive measure of prenatal-care utilization. This report presents annual rates of adequate prenatal-care utilization (APNCU) for California during 1989–1994 (the most recent year for which complete data were available), compares these data with the year 2000 objective for prenatal-care utilization, and examines rates of APNCU in California by payment source (for prenatal care) for 1989, 1992, and 1994.

CDHS defines APNCU as care initiated during the first 4 months of pregnancy, followed by ≥80% of the expected total number of visits recommended by the American College of Obstetricians and Gynecologists (ACOG), adjusted for the length of gestation (3). For a full-term (40-week) pregnancy with no complications, ACOG recommends prenatal-care visits "...every 4 weeks for the first 28 weeks of pregnancy, every 2-3 weeks until 36 weeks of gestation, and weekly, thereafter, although flexibility is desirable" (4). Birth certificate data for live-born infants in California were used to calculate annual APNCU rates by accounting for both the time of prenatal-care initiation and the number of visits relative to gestational age (3). Information obtained from the birth certificate included prenatal-care utilization as self-reported by the mother and gestational age. Infants of women who had no prenatal care or for whom the source of payment for prenatal care was unknown were excluded from this analysis, accounting for approximately 1.8% of live-born infants in 1989, 1.3% in 1992, and 1.6% in 1994. In addition, gestational age was missing for 3.1% of birth certificates in 1989, 2.8% in 1992, and 3.1% in 1994; however, the algorithm used to calculate APNCU estimated gestational age from sex and birthweight data.

During 1989–1994, the overall annual rate of prenatal-care initiation during the first trimester increased 6.9%, from 72.1 per 100 live-born infants to 77.1 per 100. In comparison, the rate of APNCU increased 18.2%, from 56.2 per 100 to 66.4 per 100, an annual rate of increase of 2.2 per 100 per year. In 1994, 16% of women in California who initiated prenatal care during the first trimester had <80% of the ACOG-recommended visits.

While the total number of live-born infants in California remained stable during 1989–1994, the distribution of live-born infants within payment source categories changed disproportionately (Table 1). From 1989 to 1994, there were decreases in the number of live-born infants whose care was uninsured (70.8% [from 85,407 to 24,909]) or covered by fee-for-service arrangements (31.1% [from 161,937 to 111,632]) or other sources of payment (35.1% [from 22,852 to 14,831]). In comparison, the numbers covered by California's Medicaid program (Medi-Cal) and health-maintenance organizations (HMOs) increased 67.9% (from 154,660 to 259,643) and 9.2% (from 134,473 to 146,854), respectively. In 1994, the cost of prenatal-care services for nearly half (46.5%) of all live-born infants was paid through Medi-Cal.

During 1989–1994, rates of APNCU increased within all payment source categories. The largest percentage increases in APNCU rates were among Medi-Cal recipients (34.9%) and the uninsured (29.7%). Despite these large increases, in 1994 the APNCU rates were lowest among Medi-Cal (56.7 per 100 live-born infants) and uninsured (42.2 per 100) groups. Rates of APNCU were highest among privately insured groups (81.7 per 100 for fee-for-service providers and 75.0 per 100 for HMOs).

Prenatal-Care Utilization — Continued

TABLE 1. Prevalence rate of adequate prenatal-care utilization, by payment source and selected years — California, 1989-1994

Source of payment/		births nent source	Births with adequate prenatal-care utilization				
Year	No.	(%)	No.	(%)			
Uninsured <sup>†</sup>							
1989	85,407	15.3	27,789	32.5			
1992	38,027	6.4	15,742	41.4			
1994	24,909	4.5	10,520	42.2			
Health-maintenance organization							
1989	134,473	24.0	89,773	66.8			
1992	146,825	24.8	107,230	73.0			
1994	146,854	26.3	110,187	75.0			
Fee-for-service§							
1989	161,937	29.0	117,372	72.5			
1992	130,042	21.9	101,683	78.2			
1994	111,632	20.0	91,238	81.7			
Medi-Cal¶							
1989	154,660	27.7	64,929	42.0			
1992	257,683	43.5	127,424	49.5			
1994	259,643	46.5	147,078	56.7			
Other**							
1989	22,852	4.1	14,423	63.1			
1992	20,456	3.5	14,998	73.3			
1994	14,831	2.7	11,575	78.1			
Total <sup>††</sup>							
1989	559,329	100.0	314,286	56.2			
1992	593,033	100.0	367,077	61.9			
1994	557,869	100.0	370,598	66.4			

<sup>\*</sup>Care initiated during the first 4 months of pregnancy, followed by ≥80% of the total number of visits recommended by the American College of Obstetricians and Gynecologists, adjusted for the length of gestation (3).

†Includes persons who self-paid, those not charged, and those who were indigent.

Reported by: S Kessler, MBA, Primary Care and Family Health, R Shah, MD, Maternal and Child Health Br, T Smith, MD, Perinatal Care Section, D Taylor, MA, California Dept of Health Svcs. Div of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, Div of Applied Public Health Training (proposed), Epidemiology Program Office, CDC.

Editorial Note: The findings in this report indicate that in California during 1989–1994, the rate of first-trimester initiation of prenatal care increased 6.9%; in contrast, the overall rate of APNCU increased 18.2%. The primary reason for the difference in rates is that first-trimester initiation addresses only the timing of prenatal-care initiation

<sup>§</sup>Non-health-maintenance organization private insurance.

The state Medicaid program for California residents.

<sup>\*\*</sup>Includes Medicare, Workers' Compensation, and other governmental and nongovernmental programs.

<sup>††</sup>Infants of women who had no prenatal care or for whom the source of payment for prenatal care was unknown were excluded from this analysis, accounting for approximately 1.8% of live-born infants in 1989, 1.3% in 1992, and 1.6% in 1994.

#### Prenatal-Care Utilization — Continued

and, therefore, presents an incomplete assessment of prenatal-care utilization. If the trends in both rates continue until the year 2000, the rates of first-trimester initiation and APNCU should converge at 80 per 100 live-born infants. Although the rate of first-trimester initiation was higher than the rate of APNCU in 1994, the trend toward decreasing differences in the rates indicates that, in 1994, among women who initiated prenatal care, a greater proportion had the appropriate number of prenatal-care visits recommended by ACOG than in 1989. The findings for California can not be generalized to the entire population of live-born infants in the United States; however, other states can use similar analyses to calculate more comprehensive measures of APNCU.

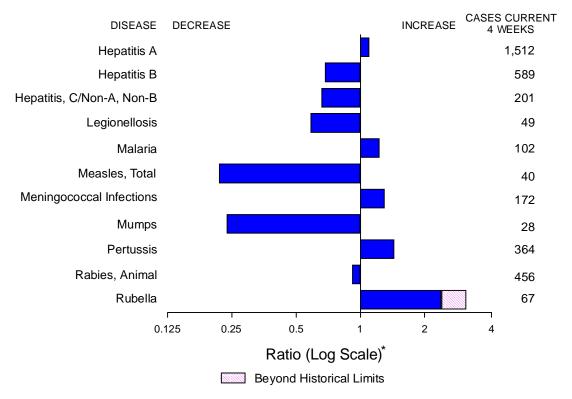
In California, efforts to improve the availability and financial accessibility of prenatal care have included use of federal Medicaid options and state-based funding to nearly double Medi-Cal eligibility levels for health-care coverage for pregnant women since 1989 and to promote early, continuous, and comprehensive prenatal care. For example, eligibility requirements for coverage of pregnancy-related services under Medi-Cal were increased from 185% of the poverty level in 1989 to 200% in 1990. During the same period, implementation of several Medi-Cal obstetric initiatives improved provider participation and improved and expanded prenatal-care services to women in California. These initiatives include the BabyCal campaign, a statewide media effort promoting the importance of prenatal care and assistance in obtaining Medi-Cal; the Comprehensive Perinatal Services Program, a program that provides support services during prenatal care; and improved access to Medi-Cal through presumptive and continuous eligibility, waived asset tests, and reduced application paperwork. In addition, most (86%) women and children who are Medi-Cal beneficiaries in California are expected to be enrolled in some form of managed care by 1997.

The year 2000 objective reflects only initiation of prenatal care during the first trimester; however, additional important factors include a minimum of 14 subsequent prenatal-care visits (for a full-term pregnancy), adjusted for the length of gestation (3). Although the definition of APNCU used in this report neither addresses the quality or content of the prenatal-care visit nor adjusts for maternal risk conditions (3), it does provide a readily available measure of APNCU. The findings of this report will be used in California for assessing the impact of changes in the health-care system on prenatal-care utilization.

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FIGURE I. Selected notifiable disease reports, comparison of 4-week totals ending July 27, 1996, with historical data — United States



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

TABLE I. Summary — cases of selected notifiable diseases, United States, cumulative, week ending July 27, 1996 (30th Week)

	Cum. 1996		Cum. 1996
Anthrax Brucellosis Cholera Congenital rubella syndrome Cryptosporidiosis* Diphtheria Encephalitis: California* eastern equine* St. Louis* western equine* Hansen Disease Hantavirus pulmonary syndrome*	52 2 1 972 2 4 1 - - 57 9	HIV infection, pediatric*  Plague Poliomyelitis, paralytic Psittacosis Rabies, human Rocky Mountain spotted fever (RMSF) Streptococcal toxic-shock syndrome* Syphilis, congenital** Tetanus Toxic-shock syndrome Trichinosis Typhoid fever	138 - - 22 - 275 10 - 11 79 11 178

<sup>-:</sup> no reported cases

<sup>\*</sup>Not notifiable in all states.

<sup>\*</sup>Not notifiable in all states.

† Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).

§ Updated monthly to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention (NCHSTP), last update June 25, 1996.

¶ Three suspected cases of polio with onset in 1996 have been reported to date.

\*\*Updated quarterly from reports to the Division of STD Prevention, NCHSTP. First quarter 1996 is not yet available.

TABLE II. Cases of selected notifiable diseases, United States, weeks ending July 27, 1996, and July 29, 1995 (30th Week)

	AIDS*		AIDS*		Chlamydia	Esche coli O NETSS <sup>†</sup>	richia 157:H7 PHLIS <sup>§</sup>	Gonorrhea			atitis A,NB	Legion	ellosis
Reporting Area	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1996	Cum. 1996	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995		
UNITED STATES	34,213	42,080	165,822	1,004	328	151,848	222,508	2,017	2,259	420	691		
NEW ENGLAND	1,391	2,092	9,533	137	21	4,130	4,296	65	75	20	14		
Maine N.H.	22 42	75 59	397	10 12	5	24 80	44 69	3	11	1	4 1		
Vt.	10	16	-	11	6	34	30	25	7	2	-		
Mass. R.I.	648 94	922 144	3,810 1,158	60 7	10	1,245 292	1,527 288	32 5	55 2	11 6	8 1		
Conn.	575	876	4,168	37	-	2,455	2,338	-	-	N	Ň		
MID. ATLANTIC	9,450	10,844	22,107	90	26	16,647	24,800	196	240	89	117		
Upstate N.Y. N.Y. City	1,164 5,299	1,272 5,643	N 0.512	55 4	12	3,460 4,931	4,802 10,223	163 1	119 1	28 1	30 3		
N.J.	1,796	2,544	9,512 2,332	31	5	2,526	2,226	-	99	7	19		
Pa.	1,191	1,385	10,263	N	9	5,730	7,549	32	21	53	65		
E.N. CENTRAL	2,777	3,280	23,545	262	95	24,044	44,800	273	181	121	199		
Ohio Ind.	622 393	670 335	11,474 5,785	68 30	33 19	8,362 3,827	14,376 5,242	18 7	6 1	52 27	94 45		
III.	1,202	1,394	1,447	118	16	9,588	11,203	44	53	9	21		
Mich. Wis.	407 153	667 214	U 4,839	46 N	27 -	U 2,267	10,202 3,777	204	121	26 7	21 18		
W.N. CENTRAL	820	963	13,675	207	78	6,673	11,333	71	40	24	47		
Minn.	157	218	· -	75	38	Ū	1,668	1	2	2	-		
lowa Mo.	57 402	53 421	2,305 7,208	57 26	23	595 4,629	798 6,483	36 20	7 13	5 6	14 13		
N. Dak.	8	4	2	8	6	· 1	17	-	4	-	3		
S. Dak. Nebr.	8 55	9 75	689 885	7 10	2	95 159	111 621	3	1 9	2 7	- 11		
Kans.	133	183	2,586	24	9	1,194	1,635	3 11	4	2	6		
S. ATLANTIC	8,571	10,712	30,851	50	13	56,632	61,838	141	133	77	109		
Del.	167	191	0.540	-	1	816	1,206	1	-	7	1		
Md. D.C.	1,026 591	1,416 639	3,549 N	N -	3	7,410 2,566	7,193 2,595	1 -	6	9 6	20 4		
Va.	546	880	6,240	N	2	5,430	6,170	8	9	12	8		
W. Va. N.C.	64 464	46 586	-	N 14	2 2	276 10,819	470 13,808	7 30	26 33	1 6	3 23		
S.C.	443	569	-	6	3	6,309	7,209	16	14	4	21		
Ga. Fla.	1,288 3,982	1,459 4,926	7,122 13,940	14 13	-	12,288 10,718	11,558 11,629	U 78	15 30	2 30	14 15		
E.S. CENTRAL	1,136	1,391	16,621	29	14	17,636	23,135	384	670	30	37		
Ky.	174	179	3,789	5	2	2,325	2,643	17	21	3	8		
Tenn. Ala.	444 325	561 375	7,271 4,663	12 7	12	6,256 7,448	7,717 9,720	308 3	647 2	14 2	15 5		
Miss.	193	276	4,003 U	5	-	1,607	3,055	56	Ú	11	9		
W.S. CENTRAL	3,320	3,694	10,673	31	5	11,070	30,767	275	158	3	12		
Ark. La.	145 787	166 602	3,891	9 5	2 2	2,220 4,315	2,900 6,925	3 117	3 100	-	5 2		
Okla.	138	173	4,349	4	-	2,707	3,092	69	28	3	3		
Tex.	2,250	2,753	2,433	13	1	1,828	17,850	86	27	-	2		
MOUNTAIN Mont.	984 14	1,328 14	6,711	77 7	26	4,264 15	5,215 40	370 11	U 10	23 1	82 4		
ldaho	23	31	882	18	5	60	76	88	33	-	2		
Wyo.	3 301	8 45.4	350	26	2 5	16	1 692	113 31	115	3 7	7 30		
Colo. N. Mex.	56	454 111	Ū	4	- -	1,043 512	1,682 590	38	42 34	1	4		
Ariz.	287	350	3,631	N	11	2,165	1,903	41	18	7	7		
Utah Nev.	104 196	87 273	825 1,023	12 10	3	160 293	131 764	40 8	10 9	2 2	12 16		
PACIFIC	5,764	7,776	32,106	121	50	10,752	16,324	242	491	33	74		
Wash.	383	576	5,076	25	5	1,114	1,473	35	122	3	12		
Oreg. Calif.	266 5,013	256 6,733	U 22,672	42 51	17 23	269 8,903	453 13,655	4 89	32 327	28	- 57		
Alaska	14	50	629	3	-	251	398	2	1	1	-		
Hawaii	88	161	724	N	5	215	345	112	9	1	5 1		
Guam P.R.	4 1,057	1,615	114 N	N 12	Ū	26 167	74 335	1 72	4 125	-	1 -		
V.I.	14	25	N	N	U	-	-	-	-	-	-		
Amer. Samoa C.N.M.I.	-	-	- N	N N	U U	- 11	14 30	-	- 5	-	-		
						- ''							

U: Unavailable

-: no reported cases

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

<sup>\*</sup>Updated monthly to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention, last update June 25, 1996.

†National Electronic Telecommunications System for Surveillance.

§Public Health Laboratory Information System.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending July 27, 1996, and July 29, 1995 (30th Week)

	Lyme Disease		Mal	aria	Mening Dise			hilis Secondary)	Tubero	ulosis	Rabies	, Animal
Reporting Area	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995
UNITED STATES	3,895	5,079	684	657	2,129	1,985	5,899	9,379	10,386	11,445	3,213	4,599
NEW ENGLAND	1,152	969	31	28	91	96	98	216	233	276	400	936
Maine N.H.	10 9	3 16	6 1	3 1	12 3	6 16	1	2 1	4 8	11 9	53 40	20 101
Vt. Mass.	6 97	6 61	2 11	1 9	3 34	6 33	42	38	1 109	2 147	99 63	119 306
R.I.	185	150	3	2	9	4	1	1	24	27	29	179
Conn. MID. ATLANTIC	845 2,291	733 3,347	8 162	12 181	30 187	31 263	54 240	174 486	87 1,788	80 2,469	116 442	211 1,202
Upstate N.Y.	1,383	1,646	45	36	56	73	40	47	215	283	241	699
N.Y. City N.J.	173 94	252 906	79 28	90 41	29 49	36 64	71 73	212 106	995 393	1,424 410	- 79	224
Pa.	641	543	10	14	53	90	56	121	185	352	122	279
E.N. CENTRAL Ohio	32 23	200 13	79 8	93 5	287 109	289 85	803 285	1,616 529	1,124 167	1,117 160	37 4	40 4
Ind.	9	9	7	12	45	40	135	168	106	104	1	5
III. Mich.	-	13 5	35 20	52 13	76 30	77 52	272 U	629 170	638 156	595 217	6 15	6 18
Wis.	U	160	9	11	27	35	111	120	57	41	11	7
W.N. CENTRAL Minn.	64 13	59 -	18 7	16 3	165 22	115 18	215 27	474 26	260 50	347 87	326 16	216 11
Iowa Mo.	12 18	7 32	2 6	2 5	32 69	22 44	13 154	28 402	39 114	41 130	157 15	76 22
N. Dak.	-	-	-	1	3	1	-	-	3	2	44	22
S. Dak. Nebr.	-	4	1	1 3	8 13	5 8	6	9	14 13	13 17	76 3	57 1
Kans.	21	16	2	1	18	17	15	9	27	57	15	27
S. ATLANTIC Del.	214 36	346 30	149 2	125 1	470 3	321 5	2,140 23	2,369 8	1,935 20	2,042 36	1,576 39	1,248 70
Md.	103	225	31	32	43	29 4	340	249	172	228	378	247
D.C. Va.	1 19	1 30	7 21	11 26	7 35	41	95 252	70 362	80 149	62 146	8 328	10 245
W. Va. N.C.	7 31	16 26	2 11	1 11	11 55	7 53	1 605	8 660	33 272	49 241	64 406	71 284
S.C. Ga.	3	8	8 14	- 14	43 109	41 63	237 355	358 445	203 390	190 373	50 178	84 1 <b>6</b> 8
Fla.	13	3	53	29	164	78	232	209	616	717	125	69
E.S. CENTRAL	37	31	17	11	118	127	1,452	1,844	777	779	121	155
Ky. Tenn.	10 14	7 15	2 8	1 4	20 15	34 42	79 554	113 474	146 249	173 263	29 42	14 59
Ala. Miss.	3 10	1 8	3 4	5 1	44 39	28 23	309 510	363 894	255 127	218 125	48 2	78 4
W.S. CENTRAL	51	64	14	16	241	236	618	1,856	1,352	1,462	39	493
Ark. La.	14 1	6 2	2	2 1	28 44	24 35	105 325	283 624	111 59	126 134	13 13	33 22
Okla.	3	25	-	1	23	24	114	111	106	124	13	24
Tex. MOUNTAIN	33 5	31 5	12 31	12 37	146 120	153 147	74 78	838 142	1,076 330	1,078 346	- U	414 86
Mont.	-	-	3	3	4	2	-	4	14	10	14	29
Idaho Wyo.	2 2	3	3	1	18 3	7 5	2 2	-	5 3	8 1	- 18	21
Colo. N. Mex.	-	1	14 1	17 4	20 21	38 26	23 1	80 5	45 52	25 50	22 3	3
Ariz.	-	-	4	6	33	45	45	21	134	168	16	25
Utah Nev.	1 -	1	4 2	4 2	12 9	11 13	2 3	4 28	34 43	19 65	2 3	7 1
PACIFIC	49	58	183	150	450	391	255	376	2,587	2,607	194	223
Wash. Oreg.	4 9	4 7	12 13	13 9	65 80	66 71	3 5	9 18	132 49	159 67	-	4 1
Calif.	35	47	151	118	298	246	246	348	2,271	2,234	186	211
Alaska Hawaii	1	-	2 5	1 9	5 2	5 3	1	1 -	40 95	47 100	8 -	7 -
Guam	-	-	-	1	1	2	3	5	35	71	-	-
P.R. V.I.	-	-	-	1 2	4	15 -	81 -	167 -	63	85 -	29 -	31 -
Amer. Samoa	-	-	-	- 1	-	-	- 1	- 1	-	3	-	-
C.N.M.I.				I			- 1	ı		23		-

U: Unavailable

-: no reported cases

TABLE III. Cases of selected notifiable diseases preventable by vaccination, United States, weeks ending July 27, 1996, and July 29, 1995 (30th Week)

	H. influ	ienzae,		Hepatitis (vi	ral), by type				es (Rubeola)		
	inva			A		В	Ind	igenous	lm	oorted <sup>†</sup>	
Reporting Area	Cum. 1996*	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	1996	Cum. 1996	1996	Cum. 1996	
UNITED STATES	717	714	15,221	15,906	5,285	5,731	8	290	-	21	
NEW ENGLAND	17	28	183	150	102	135	-	8	-	3	
Maine N.H.	8	3 7	12 9	17 7	2 8	6 13	-	-	-	-	
Vt. Mass.	- 8	2 8	4 94	4 62	6 33	2 46	-	1 6	-	3	
R.I.	1	3	8	18	6	8	-	-	-	-	
Conn.	- 110	5	56	42	47	60	-	1	-	-	
MID. ATLANTIC Upstate N.Y.	110 33	98 24	924 237	1,000 226	757 212	828 210	-	15 -	-	5 -	
N.Y. City N.J.	20 34	25 11	357 204	491 141	367 99	270 216	-	6	-	3	
Pa.	23	38	126	142	79	132	-	9	-	2	
E.N. CENTRAL Ohio	112 66	129 65	1,273 521	1,941 1,106	544 79	649 73	-	6 2	-	3	
Ind.	7	17	181	92	93	123	-	-	-	-	
III. Mich.	27 7	29 16	238 239	395 221	117 221	170 235	-	2 1	-	1 2	
Wis.	5	2	94	127	34	48	-	1	-	-	
W.N. CENTRAL Minn.	28 15	53 28	1,204 70	1,069 110	245 31	360 32	1 1	17 14	-	1 1	
lowa	5	2	229	57	56	28	-	-	-		
Mo. N. Dak.	5 -	16 -	564 28	760 17	124 -	255 4	-	2	-	-	
S. Dak. Nebr.	1 1	1 3	37 130	25 29	11	2 18	-	-	-	-	
Kans.	i	3	146	71	23	21	-	1	-	-	
S. ATLANTIC Del.	172 2	143	676 8	643 8	846 6	762 6	-	3 1	-	3	
Md.	40	51	119	119	179	151	-	2	-	-	
D.C. Va.	5 6	19	19 90	16 106	27 87	13 59	-	-	-	2	
W. Va. N.C.	6 20	6 22	12 80	11 68	14 213	29 176	-	-	-	-	
S.C.	4	-	31	25	48	33	-	-	-	-	
Ga. Fla.	71 18	41 4	49 268	50 240	8 264	62 233	-	-	-	1 -	
E.S. CENTRAL	18	6	873	970	442	540	-	-	-	-	
Ky. Tenn.	4 7	1 -	17 589	32 814	35 258	49 424	-	-	-	-	
Ala. Miss.	6 1	4 1	119 148	53 71	39 110	67	Ū	-	- U	-	
W.S. CENTRAL	30	37	3,192	1,782	739	666	4	- 17	-	2	
Ark.	3	5 1	295	221 53	49 64	31	-	-	-	-	
La. Okla.	25	18	91 1,298	454	59	110 93	-	-	-	-	
Tex.	2	13	1,508	1,054	567	432	4	17	-	2	
MOUNTAIN Mont.	71 -	81 -	2,452 76	2,427 61	622 6	493 16	3	89 -	-	1 -	
ldaho Wyo.	1 35	2 4	142 28	216 74	64 23	56 16	Ū	1	Ū	-	
Colo.	7	9	245	295	72	73	-	6	-	1	
N. Mex. Ariz.	8 9	11 20	268 995	526 660	210 157	190 71	1 -	8 8	-	-	
Utah Nev.	6 5	9 26	552 146	483 112	64 26	44 27	2	61 5	-	-	
PACIFIC	159	139	4,444	5,924	988	1,298	_	135	-	3	
Wash.	2 21	7	320	429 1,502	58	104	-	45 4	-	-	
Oreg. Calif.	133	20 109	553 3,494	3,859	39 877	80 1,094	-	22	-	2	
Alaska Hawaii	1 2	3	28 49	27 107	6 8	8 12	-	63 1	-	- 1	
Guam	-	-	2	3	-	4	U	-	U	-	
P.R. V.I.	1	2	51	51 6	175	337 12	Ū	7	- U	-	
Amer. Samoa	-	-	-	5	-	-	U	-	U	-	
C.N.M.I.	10	10	1	21	5	10	U	-	U	-	

U: Unavailable

-: no reported cases

<sup>\*</sup>Of 164 cases among children aged <5 years, serotype was reported for 35 and of those, 10 were type b.

<sup>&</sup>lt;sup>†</sup>For imported measles, cases include only those resulting from importation from other countries.

TABLE III. (Cont'd.) Cases of selected notifiable diseases preventable by vaccination, United States, weeks ending July 27, 1996, and July 29, 1995 (30th Week)

	Measles (Rubeola), cont'd.						<u>,</u>			Rubella				
Reporting Area	Cum. 1996	Cum. 1995	1996	Mump Cum. 1996	S Cum. 1995	1996	Pertussi Cum. 1996	S Cum. 1995	1996	Cum. 1996	Cum. 1995			
UNITED STATES	311	248	6	368	538	170	1,991	1,856	60	172	87			
NEW ENGLAND	11	8	-	-	10	45	410	257	-	12	35			
Maine N.H.	-	-	-	-	4 1	3 19	16 40	18 23	-	-	- 1			
Vt.	1	Ī	-	-	-	-	11	36	-	2	-			
Mass. R.I.	9 -	2 5	-	-	2	23	340	169 1	-	8 -	7 -			
Conn.	1	1	-	-	3	-	3	10	-	2	27			
MID. ATLANTIC Upstate N.Y.	20	5	1 1	57 18	79 19	9 2	145 74	151 71	1 1	7 4	11 3			
N.Y. City	9		-	13	8	-	21	27	-	1	6			
N.J. Pa.	- 11	5 -	-	2 24	13 39	- 7	5 45	11 42	-	2	2			
E.N. CENTRAL	9	13	-	70	90	7	201	208	-	3	2			
Ohio Ind.	2	1	-	28 5	26 7	4	93 19	52 18	-	-	-			
III.	3	1	-	18	26	1	64	38	-	1	-			
Mich. Wis.	3 1	5 6	-	18 1	31 -	2	20 5	33 67	-	2	2			
W.N. CENTRAL	18	2	1	7	32	1	84	105	-	1	-			
Minn. Iowa	15 -	-	-	3	2 8	1	55 3	27 5	-	1	-			
Mo.	2	1	-	1	18	-	16	34	-	-	-			
N. Dak. S. Dak.	-	-	-	2	-	-	1 2	6 7	-	-	-			
Nebr. Kans.	- 1	- 1	- 1	- 1	4	-	3 4	7 19	-	-	-			
S. ATLANTIC	6	11	3	56	84	11	245	157	59	89	6			
Del.	1	-	-	-	-	-	10	8	-	-	-			
Md. D.C.	2	1 -	1 -	16 -	27	2	84	19 4	-	1	1 -			
Va. W. Va.	2	-	1	8	15	-	26 2	10 -	-	2	-			
N.C.	-	-	-	11	16	-	36	73	59	75	-			
S.C. Ga.	1	2	-	5 2	7 6	2	21 13	15 11	-	1 -	-			
Fla.	-	8	1	14	13	7	53	17	-	10	5			
E.S. CENTRAL Ky.	-	-	-	17 -	7	1	57 26	90 10	-	2	-			
Tenn.	-	-	-	2	-	1	17	50	-	-	-			
Ala. Miss.	-	-	-	3 12	4 3	-	9 5	30	N	2 N	- N			
W.S. CENTRAL	19	20	-	16	38	3	56	141	-	2	7			
Ark. La.	-	2 18	-	- 11	5 8	- 1	3 6	22 10	-	- 1	-			
Okla.	-	-	-	-	-	2	7	17	-	-	-			
Tex. MOUNTAIN	19 90	- 68	-	5 21	25 24	- 14	40 208	92 373	-	1 6	7 4			
Mont.	-	-	-	-	1	5	11	3	-	-	-			
ldaho Wyo.	1 -	-	-	-	2	- 1	74 2	82 1	-	2	-			
Colo.	7	26	- NI	2	- N	7	43	55	-	2	-			
N. Mex. Ariz.	8 8	31 10	N -	N 1	N 2	1 -	34 11	59 135	-	1	3			
Utah Nev.	61 5	- 1	-	2 16	11 8	-	11 22	16 22	-	- 1	1			
PACIFIC	138	121	1	124	174	79	585	374	_	50	22			
Wash.	45	17	-	18	10	6	222	78	-	1				
Oreg. Calif.	4 24	1 101	1	- 87	148	1 71	29 321	21 238	-	1 45	18			
Alaska Hawaii	63 2	2	-	2 17	12 4	- 1	2 11	37	-	3	4			
Guam	-	-	U	3	3	U	-	2	U	-	1			
P.R.	7	3	-	1	2	-	1	1	-	-	-			
V.I. Amer. Samoa	-	-	U U	-	-	U U	-	-	U U	-	-			
C.N.M.I.	-	-	Ū	-	-	Ū	-	-	Ū	-	-			

TABLE IV. Deaths in 121 U.S. cities,\* week ending July 27, 1996 (30th Week)

NEW ENGLAND   All   Al		All Causes By Age (Vears)							o (Sotti Week)		All Cau	icoc Pi	, Ago (V	(oare)		
New PINCLAND  489 340 87 38 144 10 21  Boston, Mass. 126 78 26 111 7 4 5 5  Bridgeport, Conn. 23 14 7 7 1 1 - 2  Cambridge, Mass. 23 17 3 2 1 1  Cambridge, Mass. 38 18 10 4 1 1 2  Earl River, Mass. 38 18 10 14 7 1 1 - 2  Cambridge, Mass. 14 11 2 1 2  Lowell, Mass. 22 19 1 2 1  Lowell, Mass. 14 11 2 1 2  New Bedford, Mass. 19 17 10 1 1 3 - 2  New Bedford, Mass. 19 17 10 1 3 - 2  New York Seep, Mass. 30 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Reporting Area						4	P&I <sup>†</sup> Total	Reporting Area				1			
Boston, Mass. 126		Ages	>05	45-64	25-44	1-24	<1			Ages	>05	45-04	23-44	1-24	`'	
Bridgeport, Conn. 23 14 7 7 1 1 - 2 Cambridge, Mass. 23 17 3 2 1 1 Cambridge, Mass. 24 19 1 2 1 1 Cambridge, Mass. 24 19 1 2 1 1 Cambridge, Mass. 24 19 1 2 1 1 Cambridge, Mass. 25 19 1 2 1 1 Cambridge, Mass. 26 19 1 2 1 1 Cambridge, Mass. 27 19 1 2 1 1 Cambridge, Mass. 27 19 1 2 1 2 Cambridge, Mass. 28 19 1 2 1 2 Cambridge, Mass. 29 19 1 2 1 2 Cambridge, Mass. 20 10 C				87 26											28 2	45 2
Fall River, Mass. 18 18	Bridgeport, Conn.	23	14	7	1	1	-	2	Baltimore, Md.	162	93	35	22	11	1	17
Hartford, Conn. 44 28 10 4 1 1						1										
Lynn, Mass. 14 11 2 11 2 2 Richmond, Va. 63 41 15 4 2 1 1 2 Savannah, Ga. 43 35 35 - 1 5 New Haven, Conn. 46 31 9 5 1 - 2 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 1 5 S. Petersburg, Fla. 44 30 5 5 6 1 2 6 S. Petersburg, Fla. 44 30 5 5 6 1 2 6 S. Petersburg, Fla. 44 30 5 5 6 1 2 6 S. Petersburg, Fla. 44 30 5 5 6 S. Petersburg, Fla. 44 30 5 S. Petersburg, Fla. 44 30 S. Petersburg, Fla. 44						1										
New Bedford, Mass. 19 17 - 1 - 1 - 2 Savannah, Ga. 44 35 3 5 - 1 5 Frovidence, RI. 41 27 10 1 3 1 - 2 Stetersburg, Fla. 144 30 4 34 12 1 3 5 Somerville, Mass. 32 3 4 - 2 1 Washington, D.C. 137 73 22 4 5 5 - 2 1 3 Washington, Conn. 41 1 1 1 6 2 - 2 3 Washington, D.C. 137 73 22 24 5 3 5 Washington, Conn. 41 1 1 6 2 - 2 3 Washington, D.C. 137 73 22 24 5 3 5 Washington, Conn. 41 1 1 6 2 - 2 3 Washington, D.C. 14 Washington, D.C. 14 Washington, D.C. 14 Washington, D.C. 14 Washington, D.C. 157 73 22 24 5 3 5 Washington, D.C. 14 Washington, D.C. 157 75 24 15 4 1 1 3 5 Expension, M.S. 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						-	-									
New Haven, Conn. 46 31 9 5 1 1 - 2 St. Petersburg, Fla. 44 30 5 5 6 1 2 1 3 5 Somerville, Mass. 9 7 27 10 1 3 1 Tompa, Fla. 41 49 44 49 12 1 3 5 Somerville, Mass. 9 7 27 10 1 3 1 Tompa, Fla. 41 49 44 49 12 1 3 5 Somerville, Mass. 9 7 27 10 1 3 1 Tompa, Fla. 41 49 44 49 12 1 3 5 Somerville, Mass. 9 7 28 1 3 1 4 - 2 1 5 Washington, D.C. 137 73 32 24 5 3 5 2 Washington, D.C. 137 73 32 24 5 3 5 2 Washington, D.C. 137 73 32 24 5 3 5 2 Washington, D.C. 137 73 32 24 5 5 3 - 5 Washington, D.C. 137 73 32 24 5 5 3 2 Washington, D.C. 137 73 32 24 3 3 2 1 3 3 3 4 2 5 1 4 4 3 3 4 2 5 1 4 4 3 2 4 3 2 2 1 3 2 4 4 4 2 2 1 3 3 4 4 4 4 2 2 1 3 3 4 4 4 4 2 2 1 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				2		-	1							2		
Somerville, Mass.   9   7   2   1   Washington, D.C.   137   73   32   24   5   3   5   5   5   5   5   5   5   5	New Haven, Conn.	46	31		5		-	2	St. Petersburg, Fla.	44	30	5	6		2	1
Springfield, Mass.   32   23   3   4   - 2   2   - 5   2   Willingfon, Del.   14   7   - 2   5   - 5   - 5   Waterbury, Conn.   19   11   6   2   2   3   Worcester, Mass.   53   39   8   4   - 2   - 2   5					1	3										
Worcester, Mass.	Springfield, Mass.	32		3		-		-								
MID. ATLANTIC 2,404 1,579 481 243 46 54 98 Allentown, Pa. 25 21 3 at 1 - 2 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 - 3 Allentown, Pa. 25 21 3 at 1 - 2 All						-			E.S. CENTRAL	747	491	148	72	26	9	38
Albany, N.Y. 51 36 9 5 - 1 3 3 Knoxville, Tenn. 78 56 12 6 2 2 6 8 14 1 1 - 2 - 1				_	•	-			Birmingham, Ala.		75	24	15	4	1	3
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Omana, Nebr. 80 51 18 1 5 5 2 St. Louis, Mo. 119 78 20 14 5 2 - St. Paul, Minn. 45 34 7 3 1 - 4	Minneapolis, Minn.	193	135	32			2	18	TOTAL	11,691 <sup>¶</sup>	7,706	2,249	1,138	330	253	655
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Wichita, Kans. 72 47 16 6 2 1 3	St. Paul, Minn.	45	34	7	3	1	-									
	Wichita, Kans.	72	47	16	6	2	1	3								

U: Unavailable -: no reported cases

\*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

†Pneumonia and influenza.

Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

Total includes unknown ages.

# Contributors to the Production of the MMWR (Weekly)

# Weekly Notifiable Disease Morbidity Data and 121 Cities Mortality Data

Denise Koo, M.D., M.P.H.

Deborah A. Adams

Timothy M. Copeland

Patsy A. Hall

Carol M. Knowles

Sarah H. Landis

Myra A. Montalbano

# **Desktop Publishing and Graphics Support**

Jolene W. Altman

Morie M. Higgins

Peter M. Jenkins

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Director, Centers for Disease Control and Prevention David Satcher, M.D., Ph.D. Deputy Director, Centers for Disease Control and Prevention Claire V. Broome, M.D. Director, Epidemiology Program Office

Stephen B. Thacker, M.D., M.Sc.

Editor, MMWR Series
Richard A. Goodman, M.D., M.P.H.
Managing Editor, MMWR (weekly)
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David C. Johnson
Darlene D. Rumph Person
Caran R. Wilbanks
Editorial Assistant, MMWR (weekly)
Teresa F. Rutledge

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