



## MORBIDITY AND MORTALITY WEEKLY REPORT

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# Trends in Smoking Initiation Among Adolescents and Young Adults — United States, 1980–1989

The evaluation of efforts to prevent tobacco use among adolescents requires accurate surveillance of both smoking prevalence and smoking initiation rates. Although several surveillance systems provide timely data about adolescent smoking prevalence (1), data characterizing rates of smoking initiation among adolescents have been limited. To improve characterization of trends in smoking initiation among young persons, data from the Tobacco Use Supplement of the 1992 and 1993 Current Population Surveys (CPS) (2) were used to estimate smoking initiation rates for persons who were adolescents (aged 14–17 years) or young adults (aged 18–21 years) during 1980–1989. This report summarizes the results of that analysis.

The CPS are monthly surveys of the U.S. civilian, noninstitutionalized population aged ≥15 years (2). Approximately 56,000 households are surveyed each month; one household respondent provides information about all household members aged ≥15 years. Questions about tobacco use were added to the September 1992, January 1993, and May 1993 monthly surveys. The response rates for the three surveys were 84.7%, 84.9%, and 82.0%, respectively (N=293,543 household members). To minimize biases that could result from discrepancies between self reports and proxy reports of smoking behavior (3), this analysis used data from self-respondents only (82% of total sample). Ever smokers were defined as respondents who answered "yes" to the question, "Have you smoked at least 100 cigarettes in your entire life?" Ever smokers were asked, "How old were you when you started smoking cigarettes fairly regularly?" To restrict the analysis to persons who were adolescents or young adults for some period during 1980–1989, only respondents aged 17–34 years at interview were included. The final sample consisted of 71,321 persons, of whom 27,768 (38.9%) were ever smokers.

Using the age of respondents at the time of the interview and the age they reported starting smoking, the age of respondents and their smoking status were calculated for each year during the 1980s. The denominator for the initiation rate for a given year was the number of respondents at risk for initiating smoking during that year (persons already smoking were eliminated from the denominator for that year). The numerator was the number of respondents who reported initiating smoking during that year. Data were weighted by age, sex, and race/ethnicity to provide national estimates.

Among adolescents, the smoking initiation rate decreased slightly from 1980 (5.4%) through 1984 (4.7%) and then increased through 1989 (5.5%); the largest annual

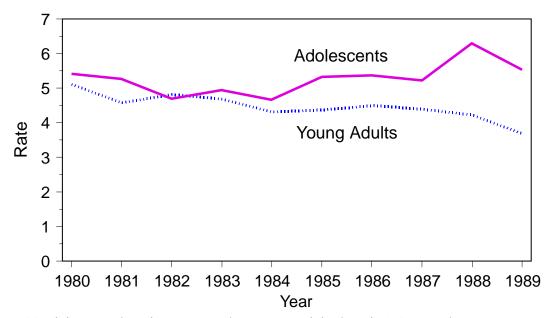
increase occurred in 1988 (Figure 1). In comparison, among young adults, initiation rates decreased throughout the 1980s (Figure 1). For both age groups, initiation rates and trends were similar for males and females.

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**Editorial Note**: The findings in this report indicate an increase in the rate of initiation of cigarette smoking among adolescents from 1985 through 1989, a period during which the rate among young adults declined and overall prevalence of smoking among adults decreased steadily (4). One important consequence of the increased rate of initiation among adolescents will be the increased future burden of tobaccorelated disease. In particular, because of the increase in initiation since 1984, an additional 600,000 adolescents began to smoke during 1985–1989.\* Of those adolescents who continue to smoke regularly, approximately 50% will die from smoking-attributable disease (5).

Potential reasons for an increase in smoking initiation rates among adolescents include a decreased real price of cigarettes, increased levels of disposable income, increased acceptability of smoking, and intensified cigarette marketing (1). However, because the real price of cigarettes increased steadily during 1985–1989 and the real average weekly income among high school seniors remained stable during this period, cigarettes were less affordable to young persons (1,6) (Table 1). In addition, the acceptability of smoking among high school seniors did not increase: during this period there were increases in the percentages of high school seniors who believed

FIGURE 1. Smoking initiation rate among adolescents and young adults,\* by year — United States, 1980–1989



<sup>\*</sup>Per 100 adolescents (aged 14-17 years) or young adults (aged 18-21 years).

<sup>\*</sup>Based on the assumption that the initiation rate during 1985–1989 remained stable at the 1984 rate, and by multiplying the Bureau of the Census population estimates for persons aged 14–17 years for each year from 1985 through 1989 by the difference between the adolescent smoking initiation rate in 1984 and the rate for each year.

cigarettes are harmful, smoking is a "dirty habit," and becoming a smoker reflects poor judgment, and who reported they "mind being around people who are smoking" and would prefer to date nonsmokers (1).

The increase in rates of smoking initiation among adolescents during 1985–1989 may reflect increased real expenditures for cigarette advertising and promotion. The increase in rates occurred during a period when real expenditures for total cigarette advertising and promotion<sup>†</sup> doubled, and expenditures for cigarette promotion more than quadrupled (7) (Figure 2): from 1980 to 1989, total annual advertising and promotional expenditures (in 1993 dollars) increased from \$2.1 billion to \$4.2 billion, while promotional expenditures alone increased from \$771 million (37% of total expenditures) to \$3.2 billion (76%) (Figure 2). Promotional efforts have been highly effective among adolescents. For example, among persons aged 12–17 years in 1992, approximately 50% of smokers and 25% of nonsmokers reported having received promotional items from tobacco companies (1).

An association between overall cigarette marketing expenditures and initiation rates for smoking among adolescents is plausible for at least four reasons. First, brand loyalty is usually established with the first cigarette smoked (8); therefore, cigarette companies have an economic incentive to encourage first-time smokers to smoke their brands. Second, adolescents are exposed to cigarette advertising and promotions that employ themes and images that appeal to young persons (1). Third, advertising directly influences brand awareness and attitudes toward smoking among adolescents (1). Specifically, adolescents smoke the most heavily advertised brands,

TABLE 1. Real\* cigarette price per pack, real weekly income of high school seniors, and real price per pack as a percentage of real weekly income among high school seniors — United States, 1980–1989

Year	Real average cigarette price per pack (cents) <sup>†</sup>	Real average weekly income (dollars)§	Real price of cigarette pack as percentage of real weekly income
1980	72.8	NA¶	NA
1981	69.3	NA	NA
1982	72.2	52.83	1.4
1983	82.2	51.26	1.6
1984	91.1	52.00	1.7
1985	90.9	51.84	1.7
1986	95.3	53.63	1.8
1987	96.8	55.15	1.8
1988	103.3	53.53	1.9
1989	102.8	53.13	1.9

<sup>\*</sup>Real prices and incomes were obtained by dividing the actual prices and incomes by the National Consumer Price Index, using the average of 1982–1984 as the reference.

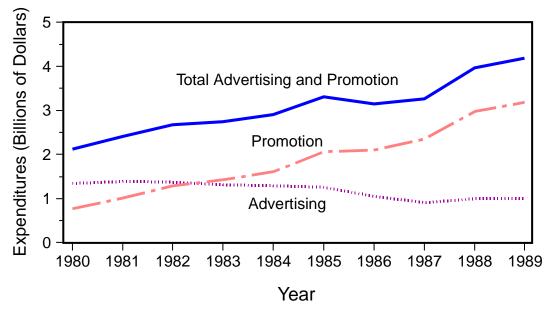
<sup>&</sup>lt;sup>†</sup>Based on data from the Federal Trade Commission (7), advertising expenditures include costs to advertise outdoors (e.g., billboards), in newspapers or magazines, and on transportation (e.g., buses); promotional expenditures include costs of promotional allowances, distribution of samples or specialty items (e.g., key chains, lighters, T-shirts, caps, and calendars), public entertainment, direct mail, coupons, retail value-added promotions (e.g., specialty items distributed at the point of sale), and point-of-sale promotions (e.g., store displays).

<sup>&</sup>lt;sup>†</sup>Source: The Tobacco Institute.

<sup>§</sup>Source: CDC.

<sup>¶</sup>Not available.

FIGURE 2. Cigarette advertising and promotional expenditures\* — United States, 1980–1989



<sup>\*</sup>Expenditures were converted to 1993 dollars, using the Consumer Price Index. Source: Federal Trade Commission.

and changes in brand preferences among young persons are associated with changes in brand-specific advertising expenditures (9). For example, the Joe Camel campaign introduced nationally in 1988 was associated with an increase in the market share of that specific brand among adolescents (1,9). Finally, consumer research suggests that younger persons (i.e., aged 14–17 years) aspire to be young adults (10); therefore, advertising and promotional efforts targeted toward young adults may have greater appeal to adolescents because of their age aspirations.

Although current estimates of smoking initiation rates among adolescents are not available, from 1991 through 1993, the national prevalence of smoking increased among eighth- and 10th-grade students (6). To reverse the trend of increasing smoking initiation rates among adolescents and to achieve the national health objective for the year 2000 of reducing the initiation of cigarette smoking by youth (no more than 15% should become regular smokers by age 20) (objective 3.5) (4), prevention efforts that focus on young persons should be intensified. Such efforts could include making cigarettes less affordable by either increasing their real price (1) or by limiting sales to cartons rather than individual packs, enforcing laws prohibiting the sale and distribution of cigarettes to young persons (4), conducting mass media campaigns to discourage tobacco use (1), and eliminating or severely restricting all forms of tobacco product advertising and promotion to which young persons are likely to be exposed (4).

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# Pertussis — United States, January 1992–June 1995

Pertussis was a major cause of morbidity and mortality among infants and children in the United States during the prevaccine era (i.e., before the mid-1940s). Since pertussis became a nationally reportable disease in 1922, the highest number of pertussis cases (approximately 260,000) was reported in 1934; the highest number of pertussis related deaths (approximately 9000) occurred in 1923. Following the licensure of whole-cell pertussis vaccine combined with diphtheria and tetanus toxoids (DTP) in 1949 and the widespread use of DTP among infants and children, the incidence of reported pertussis declined to a historical low of 1010 cases in 1976 (Figure 1). However, since the early 1980s, reported pertussis incidence has increased cyclically with peaks occurring in 1983, 1986, 1990, and 1993 (1–3). This report summarizes national surveillance data for pertussis from January 1992 through June 1995 from CDC's National Public Health Surveillance System (NPHSS) and Supplementary Pertussis Surveillance System (SPSS) and assesses the effectiveness of pertussis vaccination in the United States during this period using vaccination coverage data from CDC's National Health Interview Survey (NHIS).

## **National Surveillance for Pertussis and Vaccination Coverage**

Through NPHSS (formerly the National Notifiable Disease Surveillance System), state health departments report weekly to CDC the number of pertussis cases. Data reported include state and county of residence, age, date of report to CDC, and race/ethnicity. Through SPSS, more detailed information about persons with pertussis is reported to CDC, including demographic variables, vaccination history, selected clinical characteristics, hospital admission, deaths, and results of laboratory tests for *Bordetella pertussis*. Documented limitations of these pertussis surveillance systems

### Pertussis — Continued

include underreporting, disproportionate representation of classic and severe cases, lack of uniform reporting criteria among the states, and reliance on laboratory diagnosis of pertussis by some states (1). NHIS is an annual cross-sectional household interview survey of the U.S. civilian, noninstitutionalized population (4). In 1992, an immunization supplement was added to the survey to collect data about vaccinations among children aged <6 years. Vaccination information was obtained from vaccination records; for children for whom no vaccination records were available (50%–65%), information was based on parental recall.

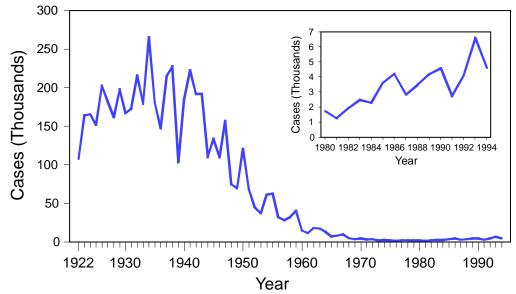
Based on NPHSS data, from 1992 through 1994, a total of 15,286 pertussis cases were reported to CDC (4083 in 1992; 6586 in 1993; and 4617 in 1994), for crude annual incidence rates of 1.6, 2.6, and 1.8 cases per 100,000 population in 1992, 1993, and 1994, respectively. Cases were reported from all 50 states and the District of Columbia. From January 7 through June 30, 1995, a total of 1386 pertussis cases were reported—an 18% decrease from the number reported during the same period in 1994 (1690).

Based on the NPHSS, during 1992–1994, of 13,615 persons reported with pertussis for whom age data were available, 5618 (41%) were aged <1 year; 2682 (20%), 1–4 years; 1551 (11%), 5–9 years; and 3764 (28%),  $\geq$ 10 years. Of the children aged <1 year with pertussis, 4524 (81%) were aged <6 months.

Of 10,989 patients for whom data about vaccination status were available from SPSS, 6876 (63%) had received fewer than three doses of DTP. Of 3184 patients aged 7 months–4 years for whom vaccination status was known, 725 (23%) had received no doses, 714 (22%) had received one or two doses, and 1745 (55%) had received three or more doses. The proportion of patients who were hospitalized, had complications, or died was highest among infants and decreased with increasing age (Table 1). Of children aged <1 year reported with pertussis, 66% were hospitalized, 15% had pneumonia confirmed radiographically, and 2% had seizures. Overall, 32 pertussis-related deaths and 17 cases complicated by encephalopathy were reported.

Based on the NHIS, from 1992 through the second quarter of 1994 (the most recent period for which data were available), among children aged 19–35 months (median

FIGURE 1. Number of reported pertussis cases, by year — United States, 1922-1994\*



<sup>\*</sup>Data for 1994 are provisional.

					Compli	cations					
	No. persons	Hospita	alized	Pneum	Pneumonia* Seizures		ures	Enceph	alopathy	Deaths	
Age group	with pertussis	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
<6 mos	4,524	3,217	(71.1)	671	(14.8)	87	(1.9)	11	( 0.2)	25	( 0.6)
6–11 mos	1,094	512	(46.8)	153	(14.0)	27	(2.5)	2	(0.2)	3	(0.3)
1- 4 yrs	2,682	580	(21.6)	248	(9.2)	45	(1.7)	3	(0.1)	1	(<0.1)
5- 9 yrs	1,551	124	(8.0)	66	(4.3)	8	(0.5)	0		3	(0.2)
10–19 yrs	2,223	78	(3.5)	45	( 2.0)	10	(0.4)	1	(<0.1)	0	
≥20 yrs	1,541	57	( 3.7)	41	(2.7)	7	(0.5)	0		0	
Total	13,615 <sup>†</sup>	4,568§	(33.6)	1,224¶	( 9.0)	184	(1.4)	17	( 0.1)	32	( 0.2)

<sup>\*</sup>Radiographically confirmed.

†Excludes 19 (0.1%) persons of unknown age with pertussis.

§Excludes six hospitalized patients of unknown age.

¶Excludes one hospitalized patient of unknown age.

Pertussis — Continued

age: 27 months), vaccination coverage with three or more doses of DTP or diphtheria and tetanus toxoids (DT) was 83% for 1992, 88% for 1993, 87% for the first quarter of 1994, and 90% for the second quarter. Vaccination coverage with four or more doses of DTP or DT was 59% in 1992, 72% for 1993, 67% for the first quarter of 1994, and 70% for the second quarter. Based on vaccine distribution data for 1993, 6.7% of children may have received DT instead of DTP (CDC, unpublished data, 1993).

### **Effectiveness of Pertussis Vaccination**

The screening method (*5*) was used to calculate the effectiveness of pertussis vaccine among U.S. children aged 7–47 months during 1992–1994. Estimates of vaccine effectiveness (VE) were derived using the formula VE=1–[PCV/(1–PCV)][(1–PPV)/PPV] (PPV is the proportion of the population vaccinated, and PCV is the proportion of case-patients vaccinated). Persons who were partially vaccinated (i.e., received one to two doses of vaccine) were excluded from both PPV and PCV. Data from the national SPSS were used to determine the PCV. A case of pertussis was defined as either onset of a cough illness of any duration with isolation of *B. pertussis* from a clinical specimen or onset of an acute cough illness lasting ≥14 days plus at least one pertussis-associated symptom (i.e., paroxysms of cough, inspiratory "whoop," or posttussive vomiting) with no other apparent cause. Data from NHIS for 1992, 1993, and the first 2 quarters of 1994 were used to determine PPV for age groups 7–18 months and 19–47 months.

Compared with zero doses of pertussis vaccine, during 1992–1994, among children aged 7–18 months, VE for three doses was 85%; among children aged 19–47 months, VE for four or more doses was 94%. When these estimates were corrected by 6.7% to account for use of DT instead of DTP, VE was 64% and 82% for three doses and four or more doses, respectively.

Reported by: State and local health depts. Child Vaccine Preventable Disease Br, Epidemiology and Surveillance Div, and Assessment Br, Data Management Div, National Immunization Program, CDC.

Editorial Note: Despite the upward trend in the reported incidence of pertussis in the United States since the early 1980s, the annual numbers of cases reported during 1992–1994 represent an approximately 95% decline from those reported during the prevaccine era. Following the peak in reported cases in 1993, the numbers declined during 1994 and the first 2 quarters of 1995—a pattern consistent with the previously observed 3–4-year periodicity in pertussis incidence.

Pertussis remains an important cause of morbidity and mortality among infants and preschool-aged children. Rates of complications among infants during 1992–1994 are similar to those reported during 1980–1989 (1) and 1989–1991 (2). The two groups at greatest risk for severe complications are infants aged <6 months (the recommended age by which children should have received three doses of DTP) and preschool-aged children who are undervaccinated. The importance of timely vaccination of children is emphasized by the high proportion of undervaccination (approximately 45%) among preschool-aged children with pertussis who were ageligible for at least three doses of vaccine. The Advisory Committee on Immunization Practices and the American Academy of Pediatrics recommend three doses of DTP to be administered at ages 2, 4, and 6 months. An additional two doses are recommended, one each at ages 12–18 months and at 4–6 years (6). Either DTP or diphtheria

### Petussis — Continued

and tetanus toxoids and acellular pertussis vaccine (DTaP) can be administered for the fourth and fifth doses to children aged 15 months–6 years.

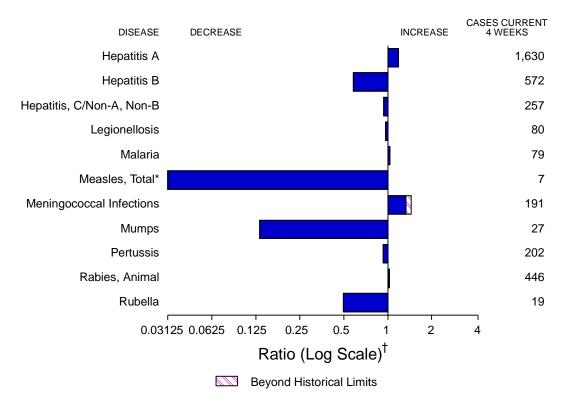
Since 1992, coverage with three doses of DTP or DT has increased, indicating progress toward the Childhood Immunization Initiative goal of 90% coverage by 1996. As a consequence, the proportion of persons with pertussis who have been vaccinated most likely will increase. Based on the screening method (which accounts for changes in vaccination coverage but may not provide an accurate estimate of vaccine efficacy when vaccination coverage is high) (5), estimated VE during 1992–1994 was consistent with previous reports about the efficacy of whole-cell pertussis vaccine in the United States during the mid-1980s, which documented 64% protection against mild disease and 95% protection against severe disease (7).

In the United States, widespread use of whole-cell pertussis vaccines among infants since 1949 has resulted in the successful control of pertussis. National pertussis surveillance data during January 1992–June 1995 indicate the continued effectiveness of the current pertussis vaccination program. However, despite increasing vaccination coverage in recent years, pertussis outbreaks (e.g., in Cincinnati and Chicago in 1993 [3]) continue to occur. Preliminary results of the protective efficacy of new acellular pertussis vaccines (when used for the first three doses among infants) suggest that these vaccines are either equally or more efficacious than whole-cell vaccines. Further scientific review of these results is in progress, but until such vaccines are licensed and available for use among infants, timely age-appropriate vaccination of infants with whole-cell pertussis vaccines should continue. Previous delays in administering pertussis vaccine to infants have resulted in widespread outbreaks (e.g., in the United Kingdom and Japan during the 1970s and Sweden during the 1980s) (8).

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FIGURE I. Notifiable disease reports, comparison of 4-week totals ending July 15, 1995, with historical data — United States



<sup>\*</sup>The large apparent decrease in the number of reported cases of measles (total) reflects dramatic fluctuations in the historical baseline.

TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending July 15, 1995 (28th Week)

	Cum. 1995		Cum. 1995
Anthrax Brucellosis Cholera Congenital rubella syndrome Diphtheria* Haemophilus influenzae <sup>†</sup> Hansen Disease Plague Poliomyelitis, Paralytic	- 48 8 4 - 675 72 5	Psittacosis Rabies, human Rocky Mountain Spotted Fever Syphilis, congenital, age < 1 year <sup>§</sup> Tetanus Toxic shock syndrome Trichinosis Typhoid fever	36 1 177 132 13 106 23 159

<sup>&</sup>lt;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.

<sup>\*</sup>The case previously reported in 1995 had onset of illness in October 1994. It will now be included in 1994 data.

†Of 658 cases of known age, 162 (25%) were reported among children less than 5 years of age.

§Updated quarterly from reports to the Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services. This total through first quarter 1995.

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

TABLE II. Cases of selected notifiable diseases, United States, weeks ending July 15, 1995, and July 16, 1994 (28th Week)

-		•	-			Hepatitis (	(Viral), by	type			
Reporting Area	AIDS*	Gono	rrhea	P	\	В		C/NA	A,NB	Legion	ellosis
noporting / nou	Cum. 1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	35,614	187,882	208,640	13,662	12,122	5,198	6,139	2,290	2,210	664	768
NEW ENGLAND	1,797	2,460	4,210	131	170	93	214	59	84	13	15
Maine N.H.	71 56	42 71	49 45	17 6	16 9	6 13	9 16	9	7	4 1	-
Vt. Mass.	15 812	26 1,455	14 1,564	4 51	3 70	1 39	6 130	1 48	6 59	- 7	- 8
R.I.	137	266	248	17	14	8	5	1	12	1	7
Conn. MID. ATLANTIC	706 9,135	600 18,699	2,290 23.055	36 812	58 867	26 627	48 803	220	269	N 86	N 116
Upstate N.Y.	1,133	3,304	5,147	213	325	208	219	115	120	29	23
N.Y. City N.J.	4,481 2,225	6,128 2,244	8,503 2,810	373 105	289 171	173 142	169 213	1 84	1 122	1 15	18
Pa.	1,296	7,023	6,595	121	82	104	202	20	26	41	75
E.N. CENTRAL Ohio	2,897 607	39,460 12,247	42,425 12,752	1,655 1,050	1,165 381	530 69	648 98	152 5	195 13	184 88	214 98
Ind. III.	261	4,148	4,450	85	204	131	117	1	5 53	44	24
Mich.	1,284 572	10,770 9,298	12,365 9,032	217 203	311 141	94 206	177 214	33 113	124	13 21	21 40
Wis.	173	2,997	3,826	100	128	30	42	-	-	18	31
W.N. CENTRAL Minn.	867 204	9,807 1,504	11,408 1,679	904 96	582 114	321 28	348 39	55 2	48 10	70 -	54 2
lowa Mo.	44 346	798 5,902	719 6,260	41 636	28 257	23 230	16 254	5 35	7 8	14 41	22 17
N. Dak. S. Dak.	5 9	16 92	21 107	16 21	2 17	3 2	-	4	1	3	4
Nebr.	71	-	749	25	87	17	19	5	9	8	7
Kans.	188	1,495	1,873	69	77	18	20	3	13	4	2
S. ATLANTIC Del.	9,055 165	55,296 1,092	54,843 996	649 7	620 14	781 2	1,224 8	169 1	274 1	123 1	186 -
Md. D.C.	1,313 579	6,832 2,454	10,285 3,909	109 15	97 14	146 13	188 29	5	16	20 4	49 5
Va.	645	5,645	6,590	99	78	49	63	5	18	8	5
W. Va. N.C.	44 490	430 12,667	387 13,428	11 65	7 67	29 173	20 157	26 28	20 36	3 21	1 12
S.C. Ga.	449 1,090	6,643 8,539	6,704 U	22 54	25 23	32 63	22 493	12 15	3 151	21 23	9 79
Fla.	4,280	10,994	12,544	267	295	274	244	77	29	22	26
E.S. CENTRAL Ky.	1,109 155	23,579 2,532	24,032 2,479	826 26	272 98	488 39	599 56	621 12	458 17	21 3	62 7
Tenn.	437	7,158	7,662	712	103	382	503	607	433	12	31
Ala. Miss.	298 219	10,024 3,865	8,362 5,529	51 37	44 27	67 -	40 -	2	8 -	5 1	9 15
W.S. CENTRAL	3,137	19,826	25,268	1,658	1,511	752	582	331	150	8	23
Ark. La.	137 502	1,968 6,425	3,785 6,674	183 49	37 79	27 105	14 102	3 94	4 77	1 2	4 6
Okla. Tex.	154 2,344	1,382 10,051	2,401 12,408	370 1,056	137 1,258	249 371	68 398	213 21	35 34	3 2	9 4
MOUNTAIN	1,119	4,366	5,291	2,154	2,370	447	342	249	243	73	58
Mont. Idaho	9 26	39 68	44 46	56 212	15 186	15 51	14 53	9 33	5 54	4 2	14 1
Wyo.	6 372	26 1,592	38	75	13	14	14 56	111	74 41	5 31	3 12
Colo. N. Mex.	107	443	1,752 523	284 384	284 599	68 159	110	35 30	35	3	2
Ariz. Utah	299 69	1,437 83	1,816 166	630 457	890 242	75 50	28 36	17 6	12 11	6 9	4 6
Nev.	231	678	906	56	141	15	31	8	11	13	16
PACIFIC Wash.	6,498 495	14,389 1,360	18,108 1,582	4,873 389	4,565 625	1,159 94	1,379 130	434 116	489 141	86 11	40 8
Oreg.	223	212	486	969	497	49	80	27	23	-	-
Calif. Alaska	5,594 46	12,077 388	15,158 480	3,394 24	3,285 127	1,000 5	1,139 7	281 1	321 -	70 -	30
Hawaii	140	352	402	97	31	11	23	9	4	5	2
Guam P.R.	1,514	42 291	72 283	2 60	13 36	401	4 192	211	96	-	1 -
V.I. Amer. Samoa	21 -	6 13	11 18	- 5	2 5	2	6	-	1	-	-
C.N.M.I.		20	31	15	4	7	1	-	-	-	

N: Not notifiable 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 Prevention Services, last update June 29, 1995.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending July 15, 1995, and July 16, 1994 (28th Week)

							Measle	es (Rube	eola)			_		
Reporting Area	Ly: Dise	me ease	Mal	laria	Indig	enous	Impo	orted*	To	tal		jococcal ctions	Mu	mps
	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	1995	Cum. 1995	1995	Cum. 1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	2,774	4,151	527	508	3	202	-	8	211	772	1,852	1,700	492	793
NEW ENGLAND	656	868	23	31	-	4	-	-	4	23	91	71	8	14
Maine N.H.	3 14	2 13	2 1	2	-	_	-	_	-	4 1	6 17	13 7	4 1	3 4
Vt. Mass.	5 56	5 58	- 8	1 13	-	2	-	-	2	2 7	6 32	2 30	- 1	-
R.I.	135	107	2	5	-	2	-	-	2	6	-	-	-	1
Conn.	443	683	10	7	-	-	-	-	-	3	30	19	2	6
MID. ATLANTIC Upstate N.Y.	1,647 895	2,470 1,755	124 28	85 26	-	4	-	2	6	208 15	224 72	175 60	68 18	74 20
N.Y. City	55	6	53	26	-	2	-	2	4	13	23	23	5	2
N.J. Pa.	260 437	453 256	31 12	17 16	-	2	-	-	2	172 8	63 66	37 55	6 39	13 39
E.N. CENTRAL	34	296	66	56	-	7	-	2	9	101	251	248	82	143
Ohio Ind.	25 5	19 8	5 11	7 9	-	1	-	-	1	16 1	81 39	71 36	26 1	41 6
III.	3	14	32	25	-	-	-	1	1	56	71	85	27	60
Mich. Wis.	1	5 250	12 6	13 2	-	4 2	-	1	5 2	25 3	50 10	31 25	28	31 5
W.N. CENTRAL	38	65	11	24	1	2	_	_	2	169	115	112	31	42
Minn.	-	2	3	7	-	-	-	-	-	-	17	10	2	3
lowa Mo.	6 15	2 56	1 4	4 9	-	- 1	-	-	- 1	7 159	23 44	13 54	8 17	10 26
N. Dak.	-	-	- 1	1	-	-	-	-	-	-	1 5	1 7	-	2
S. Dak. Nebr.	1	2	2	2	-	-	-	-	-	2	9	9	4	1
Kans.	16	3	-	1	1	1	-	-	1	1	16	18	-	-
S. ATLANTIC Del.	278 7	334 44	110 1	100 3	2	7	-	-	7	13 -	320 3	249 4	74	121
Md.	196	104	29	43	-	-	-	-	-	3	26	19	20	36
D.C. Va.	21	2 41	9 22	8 11	-	-	-	-	-	2	1 36	2 46	14	- 27
W. Va. N.C.	13 22	9	1	2	-	-	-	-	-	1	5 50	10 40	- 16	3 24
S.C.	8	43 5	8 -	2	-	-	-	-	-	-	42	11	7	6
Ga. Fla.	8 3	80 6	12 28	17 14	2	2 5	-	-	2 5	2 5	70 87	57 60	6 11	8 17
E.S. CENTRAL	17	24	10	14	-	-	_	_	-	28	115	132	13	15
Ky.	3	15	1	4	-	-	-	-	-	-	36	29	-	-
Tenn. Ala.	11 1	6 3	3 5	6 3	-	-	-	-	-	28	35 27	24 51	4	5 3
Miss.	2	-	1	1	-	-	-	-	-	-	17	28	9	7
W.S. CENTRAL Ark.	57 4	52 3	15 3	24 2	-	19 2	-	-	19 2	16 1	233 19	200 33	33 2	168 5
La.	1	-	1	4	-	17	-	-	17	1	32	25	8	19
Okla. Tex.	22 30	26 23	11	2 16	-	-	-	-	-	14	23 159	19 123	23	23 121
MOUNTAIN	5	2	34	21	_	48	_	_	49	156	135	120	24	31
Mont. Idaho	-	- 1	3 1	2	-	-	-	-	- 1	-	2 5	3 15	1 3	- 7
Wyo.	3	i	-	1	Ū	-	Ū	-	-	-	5	5	-	1
Colo. N. Mex.	1	-	16 3	9	-	8 29	-	-	8 29	19	36 27	23 11	1 N	2 N
Ariz.	-	-	6	1	-	10	-	-	10	-	43	41	2	3
Utah Nev.	1	-	4 1	4 1	Ū	1	Ū	-	1	128 9	10 7	15 7	10 6	11 7
PACIFIC	42	40	134	153	-	111	-	4	115	58	368	393	159	185
Wash. Oreg.	4	5	12 4	14 11	-	13 1	-	2	15 1	3	63 60	63 86	10 N	14 N
Calif.	35	35	109	118	-	97	-	1	98	48	237	238	136	159
Alaska Hawaii	-	-	1 8	10	-	-	-	- 1	- 1	5 2	6 2	2 4	9 4	2 10
Guam	_	_	-	-	U	_	U		-	228	3	-	3	4
P.R.	-	-	1	3	-	10	-	-	10	11	13	5	-	2
V.I. Amer. Samoa	-	-	-	-	U	-	U	-	-	-	-	-	2	3 2
C.N.M.I.	-	-	1	1	-	-	-	-	-	29	-	-	-	2

 $<sup>\</sup>hbox{*For imported measles, cases include only those resulting from importation from other countries.}$ 

N: Not notifiable

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending July 15, 1995, and July 16, 1994 (28th Week)

Reporting Area		Pertussis			Rubella		Sypl (Prima Secon	ary &	Tubero	ulosis	Rab Ani	ies, mal
	1995	Cum. 1995	Cum. 1994	1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	50	1,374	1,873	9	83	193	8,165	11,523	9,805	11,417	3,492	3,954
NEW ENGLAND	4	202	193	4	19	125	97	122	231	221	862	1,003
Maine N.H.	-	20 21	2 39	-	1 1	-	2 1	4 1	12 8	10	99	103
Vt.	2	11	28	-	-	-	-	-	3	3	117	87
Mass. R.I.	2	140	102 4	-	3	122 2	34 1	48 11	116 23	113 18	300 161	382 5
Conn.	-	10	18	4	14	1	59	58	69	77	185	426
MID. ATLANTIC	6	135	318	-	6	6	468	750	1,974	2,220	773	975
Upstate N.Y. N.Y. City	5	70 23	122 67	-	3 3	5	32 217	95 332	224 1,057	298	296	712
N.J.	-	23 5	9	-	-	1	106	115	377	1,346 402	213	160
Pa.	1	37	120	-	-	-	113	208	316	174	264	103
E.N. CENTRAL	2	155	299	-	2	9	1,373	1,670	986	1,097 173	26 3	23
Ohio Ind.	-	52 13	78 39	-	-	-	461 139	631 125	160 38	92	3	6
III.	2	37	62	-	-	1	524	571	551	553	3	4
Mich. Wis.	-	41 12	23 97	-	2	8	158 91	163 180	206 31	243 36	16 1	7 6
W.N. CENTRAL	1	78	80	_	_	2	430	681	309	278	169	121
Minn.	-	28	39	-	-	-	28	25	64	60	6	14
lowa Mo.	-	3 18	6 19	-	-	2	28 365	33 581	40 127	20 129	64 19	48 10
N. Dak.	-	6	4	-	-	-	-	1	1	5	19	6
S. Dak. Nebr.	-	7 4	- 5	-	-	-	-	1 10	13 10	16 8	35	19
Kans.	1	12	7	-	-	-	9	30	54	40	26	24
S. ATLANTIC	22	158	184	2	23	12	1,995	2,956	1,865	2,136	1,176	1,081
Del. Md.	- 1	6 16	- 56	-	-	-	8 126	16 127	12	26 168	33 236	21 320
D.C.	-	3	4	-	-	-	65	137	222 57	61	10	2
Va. W. Va.	-	8	17	-	-	-	326	398	136	198	229	209
vv. va. N.C.	13	68	2 44	-	-	-	8 626	8 946	49 214	47 248	57 263	43 93
S.C.	1	14	10	-	-	-	340	402	181	209	75	99
Ga. Fla.	7	6 37	15 36	2	23	12	287 209	470 452	284 710	406 773	158 115	208 86
E.S. CENTRAL	1	35	96	-	-	-	2,093	2,006	543	801	137	110
Ky. Tenn.	-	- 7	53 17	-	-	-	108 440	112 528	53 162	173 265	12 49	10 34
Ala.	1	28	17	-	-	-	333	372	202	205	73	34 64
Miss.	-	-	11	-	-	-	1,212	994	126	134	3	2
W.S. CENTRAL	6	88	55	3	6	12	1,268	2,621	1,294	1,409	128	413
Ark. La.	-	7	12 6	-	-	-	160 584	277 968	93 6	124 7	18 23	15 43
Okla.	-	20	21	-	-	4	47	89	117	139	22	21
Tex.	6	61	16	3	6	8	477	1,287	1,078	1,139	65	334
MOUNTAIN Mont.	2	267 3	232 3	-	5 -	4	130 3	162 2	352 10	283 9	72 26	76 10
Idaho		74	23		1	-	-	1	8	9	-	2
Wyo. Colo.	U	1 21	127	U	-	-	2 74	80	1 22	2 29	18	12 6
N. Mex.	-	38	10	-	-	-	8	9	86	37	3	2
Ariz. Utah	2	110 15	54 13	-	3 1	3	19 3	36 8	148 19	114 23	19 5	36 6
Nev.	ΰ	5	2	U	-	1	21	26	58	60	1	2
PACIFIC	6	256	416	-	22	23	311	555	2,251	2,972	149	152
Wash. Oreg.	1 1	45 10	55 55	-	1 1	3	9 6	24 20	141 25	146 86	2	6
Calif.	4	176	298	-	18	18	295	508	1,953	2,562	143	115
Alaska	-	- 25	- 0	-	-	2	1	2 1	47	35	4	31
Hawaii	- U	25	8 2	- U	2	1	- 1	3	85 5	143 45	-	-
Guam P.R.	-	6	2	-	-	-	150	181	5 89	45 102	24	51
V.I.	U	-	-	U	-	-	2	22	-	-	-	-
Amer. Samoa C.N.M.I.	-	-	-	-	-	-	3	1 1	3 13	3 16	-	-
							3	<u>'</u>	.5	10		

U: Unavailable -: no reported cases

TABLE III. Deaths in 121 U.S. cities,\* week ending July 15, 1995 (28th Week)

	-	All Cau	ses, B	/ Age (\	ears)			o (Eoth Front)		All Cau	ıses, Bı	/ Age (Y	ears)		nc :†
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I <sup>†</sup> Total	Reporting Area	All Ages	≥65	45-64		1-24	<1	P&I <sup>†</sup> Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J.	536 154 26 28 21 53 13 13 23 37 55 52 23 33 25 53 2,408 49 27 107 29	371 97 21 20 17 388 9 7 18 12 23 21 43 1,530 32 22 83 11	8 12 5 1 8 500 13 5 17 5	55 21 2 4 3 3 2 - 2 7 3 - 4 2 2 2 2 2 8 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 2 - - 1 - - 1 1 - - 48 1 - - 1 2 - 1 1	16 8 - - 2 - 4 2 - - - - 1 - - 1	42 10 1 2 2 2 1 1 3 3 5 - 1 3 8 8 4 -	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del. E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	222 217 20 681 159	960 99 162 655 103 79 40 62 37 18 160 121 14 447 93 49 43 49 43 49 47 49 49	294 33 65 16 24 27 16 17 7 4 37 46 2 135 35 13 8 2 23 112	185 16 56 51 13 22 5 12 5 14 34 3 59 13 4 4 3 14 8 2	54 7 4 7 2 8 1 6 1 - 8 10 - 17 9 - 1	25 1 9 - 5 - 1 1 1 6 - 21 7 1 1	96 8 29 3 11 1 9 4 5 2 2 1 2 1 3 8 2 8 4 1 1 5 1 1 3 1 1 3 1 2 1 3 1 3 1 3 1 3 1 3 1 3
Erie, Pa.§ Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	40 38 1,373 73 34 190 55 12 137 27 29 108 18 13 27	31 23 848 22 9 121 39 102 21 25 75 10 8	8 6 285 16 11 43 11 2 27 5 4 23 6 3	1 8 189 25 5 24 5 1 5 1 5 1 2 4	1 30 5 2 2 - - 2 - - 1	21 5 1 - - 1 5 1	1 38 3 12 2 1 12 - 1 3	Nashville, Tenn.  W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	116 1,516 75 56	73 926 41 39 41 110 59 203 41 47 160 37 89	303 21 4 17 43 16 20 97 13 13 27 6 26	14 174 9 4 6 37 11 7 47 7 9 22 2 13	4 66 2 5 3 8 7 5 16 5 7 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 47 2 4 1 9 2 4 12 2 8 3	78 1 2 3 5 4 5 25 6 16 2 9 59
E.N. CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Mich Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	170 58 153 32 50 53 75 665 88 21 U 90	1,455 531 239 566 1131 911 144 51 9 9 9 9 110 355 118 24 40 40 68 51 484 63 15 U 59 130 66 77 748 U	29 476 53 7 9 1 6 32 5 24 7 11 15 15 11 3 26 19 19	213 67 90 15 82 96 63 33 14 78 13 30 51 14 26 30	75 8 17 1 3 9 5 5 - 1 - 111 132 - 133 192 1 U3 - 535 - U	45 2 2 15 2 4 4 3 1 1 3 3 3 1 1 3 3 3 2 2 6 6 U - 1 1 - 2 2 2 2 1 1 U	106 1 255 7 5 10 6 4 1 10 3 11 6 5 3 3 1 4 4 1 1 1 0 5 3 1 2 6 2 6 2 1 6 2 6 2 1 6 2 6 2 6 2 6 2	MIDONIAIN Albuquerque, N.M. Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Pasadena, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif. San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	81 79 159 29 166 28 94 135 2,003 13 74 28 81 67 537 20 169 194	47 74 55 55 100 23 97 91 62 91 1,368 103 38 24 58 40 360 17 115 133 102 98 81 28 25 107 107 108 109 109 109 109 109 109 109 109 109 109	15 18 11 36 3 7 5 10 31 340 3 18 3 12 13 91 30 37 27 20 30 5 16	11 12 7 17 - 24 8 5 204 - 10 - 5 7 64 - 16 17 23 32 11 11 2 5	305 44 4 3 2 2 7 - 8 5 5 1 - 2 1 5 3 3 5 - 4 4 1 5 4 - 3 2 2 3 7 4	2 2 2 3 3 1 1 1 6 3 3 5 6 6 1 1 4 4 3 3 1 1 2 2 7 7 4 4 1 2 2 5 2	33 9 2 9 3 12 2 7 12 151 1 7 1 5 6 27 5 9 20 144 171 1 6 5 6 6 698

<sup>\*</sup>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.
U: Unavailable -: no reported cases

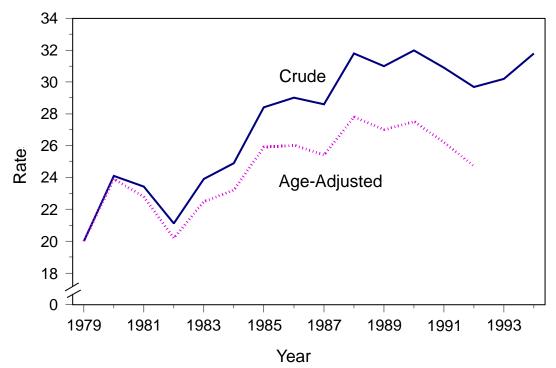
# Pneumonia and Influenza Death Rates — United States, 1979–1994

The combined cause-of-death category pneumonia and influenza (P&I) (International Classification of Diseases, Ninth Revision, codes 480–487) ranks as the sixth leading cause of death in the United States following heart disease, cancer, stroke, unintentional injuries, and chronic obstructive pulmonary disease (1). Changes in the epidemiology of Streptococcus pneumoniae and other recognized respiratory pathogens, the increasing occurrence of drug-resistant microorganisms, and the detection of new respiratory pathogens have heightened awareness of the public health importance of severe respiratory infections (2–5). To characterize the epidemiology of P&I deaths in the United States, CDC further analyzed underlying and multiple cause-of-death mortality files for 1979–1994. This report summarizes the results of this analysis.

From 1979 to 1994, the overall crude death rates for P&I (based on underlying cause of death) increased 59%, from 20.0 to 31.8 deaths per 100,000 population (Figure 1). From 1979 to 1992 (the most recent year for which age-adjusted data are available), the P&I death rate, age-adjusted to a 1980 standard population, increased 22%, from 20.4 to 24.8.

In 1992, persons aged ≥65 years accounted for 89% of all P&I deaths. From 1979 to 1992, P&I death rates for persons aged ≥65 years increased 44%, from 145.6 deaths per 100,000 population to 209.1. During this period, rates also increased for persons aged 20–44 years; however, the small number of deaths among persons in this age group (2148 in 1992) limited the contribution to the overall trend.

FIGURE 1. Crude and age-adjusted rates\* of pneumonia and influenza deaths by underlying cause of death, by year — United States, 1979–1994<sup>†</sup>



<sup>\*</sup>Per 100,000 population.

<sup>&</sup>lt;sup>†</sup>Data for 1993 and 1994 are provisional and are for a 12-month period ending with November.

Pneumonia and Influenza — Continued

To control for the highly variable seasonal contribution of influenza-associated deaths, the trend for mean weekly number of P&I deaths for noninfluenza months (May–October) was analyzed. From 1979 through 1992, age-adjusted P&I death rates during these months increased steadily from 3.1 to 5.0 per 1 million population. Analysis of P&I deaths listed in any position on the death certificate (multiple cause-of-death data) indicated a similar increase.

During 1979–1992, the diagnostic code for pneumonia of unspecified etiology (ICD-9 code 486) accounted for most of the overall increase: age-adjusted death rates in this diagnostic category increased 74%. In addition, in 1992, 84% of all P&I deaths were assigned this code, compared with 59% in 1979.

Reported by: Childhood and Respiratory Diseases Br, Div of Bacterial and Mycotic Diseases, and Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Mortality Statistics Br, Div of Vital Statistics, National Center for Health Statistics, CDC.

Editorial Note: The findings in this report document the recent increase in mortality attributed to P&I in the United States. This increase reflects both growth in the proportion of persons in older age groups (from 1970 to 1990, the proportion of persons in the United States population aged ≥65 years increased from 9.8% to 12.5%) and higher P&I death rates in these age groups. A high proportion of these deaths was attributed to pneumonia of unspecified etiology, which probably includes both pneumonias caused by known pathogens not specified on the death certificate and pneumonias caused by new or unrecognized agents.

Changes in the epidemiology of recognized respiratory pathogens (e.g., *S. pneumoniae*), for which precise diagnoses are difficult to make in clinical settings, may have contributed to the increasing death rate in older persons. Although the proportion of the increase in P&I death rates accounted for by all vaccine-preventable respiratory diseases is unknown, the increased rates also underscore the need for more complete use of pneumococcal and influenza vaccines as recommended by the Immunization Practices Advisory Committee (ACIP) (6,7). One of the national health objectives for the year 2000 is to vaccinate 60% of persons at risk for pneumococcal disease and influenza (objective 20.11) (8). Although coverage levels for influenza vaccinations among persons aged  $\geq$ 65 years have increased (in 1993, 52% reported having received influenza vaccine in the previous year), only 28% reported ever having received the pneumococcal vaccine in 1993 (9).

In addition to known but undiagnosed causes of respiratory infection, new or previously uncharacterized agents probably account for some of the increase in age-adjusted death rates attributed to pneumonia of unspecified etiology. For example, since the 1970s, several bacterial and viral agents have been identified as causes of lower respiratory infections, including *Legionella pneumophila*, *Chlamydia pneumoniae*, and *Sin Nombre* virus (the etiologic agent of hantavirus pulmonary syndrome). Recent prospective studies of community-acquired pneumonia have suggested that an etiology cannot be identified in 40%–50% of cases (10), probably reflecting both the lack of sensitive diagnostic tests for some known respiratory pathogens and the occurrence of respiratory infections for which the etiologies have not yet been identified.

Based on shifts in the age distribution of the total U.S. population, respiratory infectious diseases among the elderly probably will increase the need for health-care services and require the development of more effective prevention strategies.

### Pneumonia and Influenza — Continued

Improvements in understanding the epidemiology of morbidity and mortality associated with unspecified pneumonias will require further examination of diagnostic and reporting practices for certification of causes of death and analyses of additional data sources (e.g., hospital discharge records). In addition, improved characterization of bacterial and viral causes of pneumonia may result from prospective epidemiologic and laboratory studies, development of more sensitive diagnostic tests, and wider use of available tests.

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### Notice to Readers

## **Final 1994 Reports of Notifiable Diseases**

The notifiable diseases table on pages 538–543 summarizes final data for 1994. These data, final as of July 7, 1995, will be published in more detail in the *Summary of Notifiable Diseases*, 1994 (1).

Population estimates for the states are from the July 1, 1994, estimates by the U.S. Bureau of the Census, Population Division, Population Estimates Branch, press release CB94-204. Population estimates for territories are from the 1990 census, U.S. Bureau of the Census, press releases CB91-142, 242, 243, 263, and 276.

#### Reference

1. CDC. Summary of notifiable diseases, United States, 1994. MMWR 1995;44(no. 53) (in press).

# NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1994

	Total resident					Botulis	m		
Area	population (in thousands)	AIDS	Amebiasis	Anthrax	Aseptic meningitis	Foodborne		Brucel- losis	Chan- croid
United States	260,341	78,279*	2,983	-	8,932	50	85	119	773 <sup>†</sup>
New England	13,230	2,836	2, <del>3</del> 63 80	-	340	-	1	-	1
Maine	1,240	117	10	-	33	-	-	-	
N.H.	1,137	92	2	-	47	-	-	-	-
Vt.	580	38	3	-	36	-	-	-	-
Mass.	6,041	1,401	61	-	103	-	-	-	1
R.I. Conn.	997 3,275	276 912	4 NN	_	121 NN	-	1	-	-
Mid. Atlantic	38,125	22,465	876	_	957	2	16	2	365
N.Y. (excl. NYC)		2,220	120	_	466	1	-	-	8
N.Y.C.	7,264	12,724	701	-	150	-	1	-	357
N.J.	7,904	4,993	25	-	NN	-	2	-	-
Pa.	12,052	2,528	30	-	341	1	13	2	-
E.N. Central	43,017	6,324	187	-	1,652	2	9	8	48
Ohio	11,102	1,184	22 21	-	399	1	4 2	2	8
Ind. III.	5,752 11,752	622 3,104	21 45	_	222 472	1	2	- 5	38
Mich.	9,496	1,035	42	-	538	-	1	1	-
Wis.	5,082	379	57	-	21	-	-	-	2
W.N. Central	18,054	1,638	131	_	476	-	2	1	8
Minn.	4,567	422	39	-	43	-	-	-	-
lowa	2,829	130	21	-	121	-	-	1	1
Mo.	5,278	713	38	-	175	-	-	-	2
N. Dak.	638	20	8 4	-	14 3	-	-	-	-
S. Dak. Nebr.	721 1,623	19 89	6		3 41	-	-	-	
Kans.	2,554	245	15	_	79	_	2	_	5
S. Atlantic	45.738	18,857	203	_	2,000	_	4	17	30
Del.	706	271	3	-	41	-	1	-	-
Md.	5,006	2,722	14	-	246	-	1	1	-
D.C.	570	1,399	2	-	53	-	-	-	-
Va.	6,552	1,162	39	-	337	-	2	2	-
W. Va. N.C.	1,822 7,070	96 1,187	6 19	-	39 240	-	-	3	10
S.C.	3,664	1,157	NN	-	31	-	-	-	-
Ga.	7,055	2,245	58	-	80	-	-	3	_
Fla.	13,953	8,617	62	-	933	-	-	8	20
E.S. Central	15,717	2,099	10	-	582	3	3	2	27
Ky.	3,827	320	6	-	181	-	1	-	-
Tenn.	5,175	764	NN	-	164	2	1	1	3
Ala.	4,219	582	3	-	174	-	-	-	24
Miss. W.S. Central	2,669 <b>27,983</b>	433 <b>7,671</b>	1 <b>124</b>	-	63 <b>1,072</b>	1 <b>25</b>	1 <b>4</b>	1 <b>32</b>	260
Ark.	27, <b>963</b> 2,453	284	4	-	62	-	1	3 <b>2</b> 1	200
La.	4,315	1,239	2	-	40	-	-	2	209
Okla.	3,258	269	8	-	-	1	-	-	-
Tex.	18,378	5,879	110	-	970	24	3	29	51
Mountain	14,776	2,287	150	-	353	-	8	20	3
Mont.	856	30	-	-	8	-	1	-	-
ldaho	1,133	61	6	-	6	-	2	-	-
Wyo. Colo.	476 3,656	18 816	39	-	4 135	-	1 1	1	-
N. Mex.	1,654	211	27	-	20	-	-	1	_
Ariz.	4,075	612	61	-	79	-	_	17	3
Utah	1,908	152	6	-	55	-	3	1	-
Nev.	1,457	387	11	-	46	-	-	-	-
Pacific	41,269	13,949	1,222	-	1,500	18	38	37	31
Wash.	5,343	932	78	-	NN	3	2	-	1
Oreg.	3,086	606	109	-	NN 1 250	-	3	1	5
Calif. Alaska	31,431 606	12,136	991 5	-	1,350	4 11	30	36	25
Hawaii	606 1,179	59 216	39	-	19 131	11	3	-	-
Guam	133	1	1	-	13	-	-	-	
P.R.	3,522	2,359	1	-	72	-	-	-	32
V.I.	102	52	-	-	-	-	-	-	1
C.N.M.I.	43	-	-	-	-	-	-	-	-
American Samo	oa 47	-	-	-	-	-	-	-	

# NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1994 (continued)

			Encep	halitis	Escherichia				Hansen
Area	Cholera	Diphtheria	Primary infections	Post- infectious	<i>coli</i> O157:H7	Gonor- rhea	Granuloma inguinale	Haemophilus influenzae	disease (leprosy
United States	39	2	717	143	1,470	418,068*	3*	1,174	136
New England	2	1	18	6	223	8,640	-	45	4
Maine	-	-	5	-	NN	93	-	5	-
N.H.	-	-	-	2	NN	103	-	4	-
Vt. Mass.	1	- 1	3 8	1 1	12 134	40 3,159	-	- 21	4
R.I.			2	2	9	478	-	4	4
Conn.	1	-	-	-	68	4,767	-	11	_
/lid. Atlantic	6	_	63	20	160	49,450	_	149	16
N.Y. (excl. NYC)	3	_	38	3	149	11,506	_	70	2
N.Y.C.	1	-	6	5	11	19,491	-	34	13
N.J.	2	-	-	-	-	5,269	-	16	1
Pa.	-	-	19	12	NN	13,184	-	29	-
.N. Central	5	-	169	22	269	87,065	-	199	9
Ohio	-	-	55	4	109	24,746	-	109	-
Ind.	-	-	11	1	57	9,757	-	26	-
III.	2	-	65	5	103	26,571	-	43	6
Mich.	3	-	38	12	- NN	18,215	-	19 2	3
Wis.		-			NN	7,776	-		
W.N. Central Minn.	1	-	<b>52</b>	12	366 147	22,834	-	103	-
	1	-	22	- 1	147	3,346	-	34 9	-
lowa Mo.	- 1	-	1 8	6	56 40	1,645 12,557	_	51	_
N. Dak.	_	_	4	-	31	35	_	-	_
S. Dak.	_	_	4	_	18	243	_	2	_
Nebr.	-	-	6	5	74	1,335	-	4	_
Kans.	-	-	7	-	NN	3,673	-	3	-
6. Atlantic	3	-	161	65	49	104,591	2	234	2
Del.	-	-	1	-	NN	2,038	-	1	-
Md.	1	-	28	5	NN	15,137	-	87	-
D.C.		-	_ <del>-</del>	1		6,827	-		-
Va.	1	-	34	6	NN	13,414	-	22	1
W. Va.	-	-	51	-	NN	805	-	7	-
N.C. S.C.	-	-	44	1	6 17	28,936	2	32 3	-
Ga.	-	-	2	-	26	13,067 NA	-	67	-
Fla.	1		1	52	-	24,367	_	15	1
S. Central		_	41	4	6	48,208	_	34	1
Ky.	_	_	16	2	6	5,127	_	4	1
Tenn.	_	_	12	-	NŇ	15,745	_	10	
Ala.	_	-	9	1	-	15,881	-	15	_
Miss.	-	-	4	1	-	11,455	-	5	-
V.S. Central	4	-	63	2	98	53,529	-	74	33
Ark.	-	-	1	-	10	6,892	-	5	2
La.	-	-	10	-	-	11,992	-	4	-
Okla.	-	-	-	-	16	4,888	-	45	-
Tex.	4	-	52	2	72	29,757	-	20	31
∕lountain	-	-	14	3	100	10,669	-	128	-
Mont.	-	-	-	-	-	85	-	1	-
ldaho	-	-	-	-	-	98	-	5	-
Wyo.	-	-	3	1	NN	82	-	5	-
Colo. N. Mex.	-	-	4	-	76	3,632 1,130	-	17 12	-
Ariz.		-	-	1	NN	3,603	_	26	
Utah	_	-	3	i	NN	303	-	10	_
Nev.	_	_	4	-	24	1,736	_	52	-
acific	18	1	136	9	199	33,082	1	208	71
Wash.	-	-	1	-	174	2,893		10	7
Oreg.	_	-	-	-	1	978	1	26	-
Calif.	17	1	131	8	NN	27,593	-	165	43
Alaska	-	-	4	-	-	918	-	3	-
Hawaii	1	-	-	1	24	700	-	4	21
	1	-	-	1	NN	110	-	-	11
Guam	•		_	_				_	_
P.R.	-	-	1	3	NN	500	-	3	1
	-	-	1 -	3 -	NN -	500 60	-	3 - 26	1 -

<sup>\*</sup>Cases updated through Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services, as of February 28, 1995.

NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1994 (continued)

Area	Hepatitis A	Hepatitis B	Hepatitis C/non-A, non-B	Hepatitis unsp.	Legionel- Iosis	Lepto- spirosis	Lyme disease	Lympho- granuloma venereum
United States	26,796	12,517	4,470	444	1,615	38	13,043	235*
New England	296	354	168	15	79	3	2,827	6
Maine	25	11	-	-	5	2	33	-
N.H.	17	28	11	-	-	-	30	-
Vt.	14	12	16	-	1	-	16	-
Mass.	112	200	121	13	55	-	247	6
R.I.	30	8	20	2	18	-	471	-
Conn.	98	95	-	-	NN	1	2,030	-
Mid. Atlantic	2,007	1,761	489	10	264	2	8,171	108
N.Y. (excl. NY		402	230 4	6	62 11	1	5,105	2
N.Y.C. N.J.	941 306	543 410	211	-	49	1	95 1,533	106
Pa.	217	406	44	4	142	-	1,438	
E.N. Central	2,777	1,221	320	16	433	1	<b>530</b>	9
Ohio	1,203	164	24	-	194		45	9
Ind.	361	215	9	-	48	-	19	-
III.	615	315	81	9	44	1	24	_
Mich.	352	432	206	7	82	-	33	-
Wis.	246	95	-	-	65	-	409	-
W.N. Central	1,222	714	100	12	106	2	347	2
Minn.	261	82	20		4	-	208	_
lowa	64	27	14	11	34	-	17	-
Mo.	619	538	32	1	41	1	102	2
N. Dak.	6	1	1	-	4	-	-	-
S. Dak.	39	4	-	-	2	-	-	-
Nebr.	122	31	15	-	15	1	3	-
Kans.	111	31	18	-	6	-	17	-
S. Atlantic	1,466	2,240	485	32	413	3	855	65
Del.	22	14	2	-	31	-	106	-
Md.	198	354	21	8	82	1	341	-
D.C.	27	53	2	-	9	-	9	15
Va.	193	142	26	10	17	-	131	-
W. Va.	23	48	47	-	4	-	29	-
N.C.	145	291	59 10	-	28	1	77	44
S.C. Ga.	40 43	33 555	10 220	-	29 118	-	7 127	3
Fla.	775	750	98	14	95	1	28	3
E.S. Central	7784	1,211	94 <b>5</b>	2	<b>83</b>	3	43	2
Ky.	221	78	32	-	9	3 1	43 24	-
Tenn.	347	1,042	893	1	45	2	13	1
Ala.	139	91	20	1	13	-	6	1
Miss.	77	-	-		16	_	-	
W.S. Central	3,719	1,830	599	94	63	1	174	12
Ark.	253	60	8	3	16	1	15	-
La.	170	203	215	2	20	-	4	12
Okla.	419	141	62	3	12	-	99	-
Tex.	2,877	1,426	314	86	15	-	56	-
Mountain	5,296	694	454	73	97	-	18	7
Mont.	25	21	13	-	16	-	_	-
ldaho	380	77	71	1	2	-	3	-
Wyo.	41	24	177	-	5	-	5	-
Colo.	584	97	79	14	19	-	1	1
N. Mex.	1,100	218	45	11	4	-	5	-
Ariz.	2,159	102	31	27	17	-	-	5
Utah	754	96	18	6	8	-	3	-
Nev.	253	59	20	14	26	-	1	1
Pacific	9,229	2,492	910	190	77	23	78	24
Wash.	1,119	255	294	9	13	-	4	3
Oreg.	1,241	158	46	2	-	1	6	2
Calif.	6,602	2,038	565	176	59	-	68	19
Alaska	209	13	-	-	-	-	-	-
Hawaii	58	28	5	3	5	22	-	-
Guam	23	5 415	215	9	1	-	-	-
P.R.	86 3	415 9	215 1	3	-	2	-	-
		9		-	-	-	-	-
V.I. C.N.M.I.	12	1	_	_	_	_	_	_

\*Cases updated through Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services, as of February 28, 1995.

# NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1994 (continued)

		Meas		Meningo- coccal				Polio- myelitis
Area	Malaria	Indigenous	Imported	infections	Mumps	Pertussis	Plague	paralyti
United States	1,229	746	217*	2,886	1,537	4,617	17	_†
New England	78	15	12	141	26	760	-	-
Maine	6	2	3	23	3	21	-	-
N.H.	3	1	-	8	4	107	-	-
Vt.	3	2	1	5	-	46	-	-
Mass. R.I.	38 10	1 5	6 2	68	3 4	534 8	-	-
Conn.		4	-	37	12	6 44	-	-
	18						-	-
/lid. Atlantic	261	200	27	312	116	695	-	-
N.Y. (excl. NYC)	60 106	12	16	105	33 12	254	-	-
N.Y.C.	106	11	4 3	40 65		224	-	-
N.J. Pa.	57 38	172 5	3 4	65 102	13 58	15 202	-	-
							-	-
E.N. Central	117	60	46	397	267	615	-	-
Ohio	20	15	2	121	77	162	-	-
Ind.	15	- 10	1 41	55 125	7	97 111	-	-
III. Mich.	48 31	18 24	2	125 59	110 59	111 96	-	-
Wis.	3	3	-	39 37	14	149	-	-
W.N. Central	48	1 <b>27</b>	44	174			-	-
					71	273	-	-
Minn.	16	-	-	23	5	142	-	-
lowa	5 14	6 119	1 42	21 78	16 44	23 45	-	-
Mo. N. Dak.	14	119	42	78 1	44	45 5	-	-
S. Dak.	-	-	-	9	4	26	-	-
S. Dak. Nebr.	5	1	1	9 14	1	26 14	-	-
Kans.	7	1	! -	28	1	18	_	_
	247	65	9	455		431	_	_
S. Atlantic					257		-	-
Del.	3	-	-	5	-	3	-	-
Md. D.C.	83 15	2	2	35 7	65	74	-	-
Va.	15 37	1	2	69	48	11 37	-	-
va. W. Va.	3/	37	-	14	46 5	6	-	-
N.C.	12	2	1	57	73	140	_	
S.C.	5	-		40	8	14	_	_
Ga.	43	5	_	82	18	37	_	_
Fla.	49	18	4	146	40	109	_	_
E.S. Central	32	28	-	195	32	129	_	_
Ky.	12	-		42	-	60		
Tenn.	10	28		40	9	22	_	
Ala.	9	-	-	77	12	35	_	
Miss.	1	_	_	36	11	12	_	_
N.S. Central	119	16	7	392	302	246	_	_
Ark.	5	5	-	55	302 7	33	-	-
La.	12	-	1	47	38	15	-	-
Okla.	9		- -	53	23	38	_	
Tex.	93	11	6	237	234	160		
Mountain	41	163	<b>55</b>	178	162	609	15	
Mont.				6	102		15	-
	2	1	-	17	10	12 172	-	-
ldaho Wyo	1	1	-		_	172	-	-
Wyo. Colo.	19	24	37	9 41	3 4	228	2	-
N. Mex.	3	24	٥ <i>١</i> -	17	NN	35	7	-
Ariz.	10	5	4	58	99	122	5	-
Utah	4	131	5	19	28	37	1	-
Nev.	2	-	9	11	18	37		-
Pacific	286	72	17	642	304	859	2	_
							2	-
Wash.	45 17	3 -	1 2	111 143	23 NN	140 106	-	-
Oreg. Calif.	207	51	10	374	NN 258	106 594	2	-
Calif. Alaska	207	10	10	374 5	258 4	394	2	-
	15	10 8	4	9	19	19	-	-
Hawaii			4				-	-
Guam P.R.	- 5	228 46	-	2 7	7 2	2 3	-	-
v.I.	5 1	40	-	-	4	-	-	-
C.N.M.I.	1	29	-	-	2	-	-	-
O.1 V.1VI.I.	1	23	-	-	_	-	-	-

NN: Not notifiable

<sup>\*</sup>For 1994, includes both 142 cases of out-of-state importations and 75 cases of international importations.

†Two suspected cases of paralytic poliomyelitis were reported in 1994. Confirmation of these cases is pending review by external panel.

NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1994 (continued)

		Pa	bies	Rheumatic		Ru	ıbella		
Area	Psitta- cosis	Animal	Human	fever, acute	RMSF*	Rubella	Cong. syndrome	Salmonel- losis	Shigel- losis
United States	38	8,147	6	112	465	227	7	43,323	29,769
New England	2	2,009	-	2	12	132	2	3,439	508
Maine	-	10	-	1	-	-	-	191	10
N.H.	1	221	-	NN	-	-	-	213	20
Vt.	1	143	-	-	-	100	-	119	4
Mass. R.I.	-	734 153	-	1	4	126 3	2	2,009	243 55
Conn.	-	748	-	-	8	3	-	248 659	176
Mid. Atlantic	6	2.249	_	5	24	8	_	<b>7,066</b>	3,163
N.Y. (excl. NYC)	1	1,569	-	NN	8	6	-	1,977	1,120
N.Y.C.		1,303	_	NN	3	1	_	1,889	1,007
N.J.	1	278	-	5	5	1	-	1,160	522
Pa.	4	386	-	NN	8	_	-	2,040	514
E.N. Central	7	69	-	30	40	10	-	5,678	3,648
Ohio	-	4	-	8	19	-	-	1,337	740
Ind.	1	14	-	2	8	-	-	581	544
III.	-	21	-	8	11	1	-	1,821	1,494
Mich.	3	14	-	8	2	9	-	869	432
Wis.	3	16	-	4	-	-	-	1,070	438
W.N. Central	4	232	-	12	42	2	-	2,624	2,361
Minn.	-	22	-	3	1	-	-	759	554
lowa	-	90	-	3	1	-	-	404	338
Mo. N. Dak.	4	27 14	-	3 NN	22	2	-	642 68	654 59
S. Dak.	-	14 44	-	2	13		-	143	207
Nebr.	_	-	-	NN	1	_	_	209	426
Kans.	_	35	_	1	4	_	_	399	123
S. Atlantic	4	2,083	2	-	224	22	-	9,165	8,352
Del.	-	74	-	NN	1		_	168	38
Md.	2	520	-	NN	21	-	-	1,178	323
D.C.	-	4	-	NN	-	-	-	118	70
Va.	2	428	-	NN	22	-	-	1,135	656
W. Va.	-	84	1	-	2	-	-	152	15
N.C.	-	175	-	NN	88	-	-	1,137	1,970
S.C.	-	179	-	NN	20	-	-	599	505
Ga. Fla.	-	367 252	- 1	NN NN	62 8	7 15	-	1,583	1,886
						15	-	3,095	2,889
E.S. Central	1	242	2	- NINI	47	-	-	1,777	1,706
Ky. Tenn.	-	28 82	- 1	NN NN	10 29	-	-	380 441	208 418
Ala.	1	128	1	NN	2		_	507	617
Miss.	-	4	-	-	6	NN	_	449	463
W.S. Central	_	741	1	1	63	13	1	3,578	3,259
Ark.	_	38	•	1	18			534	193
La.	_	73	_	NN NN	1	_	_	591	416
Okla.	-	39	-	NN	37	4	-	470	240
Tex.	-	591	1	NN	7	9	1	1,983	2,410
Mountain	3	154	-	39	13	5	2	2,226	1,953
Mont.	-	22	-	NN	4	-	-	145	4
ldaho	-	4	-	1	-	-	-	130	59
Wyo.	-	24	-	1	2	-	-	60	8
Colo.	3	18	-	8	4	-	-	709	530
N. Mex.	-	8	-	1	1	-	1	353	347
Ariz.	-	56	-	NN	1	-	1	427	680
Utah Nev.	_	13 9	_	28 NN	1	4 1	_	202 200	240 85
Pacific	11	368	1	23		35	2	7,770	
Wash.	4	3 <b>66</b> 15	-	-	-	- -	_	863	<b>4,819</b> 478
Oreg.	2	13	-	NN	-	4	-	313	165
Calif.	4	294	1	18	-	27	2	6,235	3,953
Alaska	1	46	-	5	_	-	-	55	21
Hawaii		-		NN		4		304	202
Guam	-	-	-	3	-	1	-	76	33
P.R.	-	77	-	-	-	-	-	737	48
V.I.	-	-	-	-	-	-	-	2	4
C.N.M.I.	-	-	-	4	-	-	-	78	60
American Samoa	-	-	-	-	-	-	-	14	9

<sup>\*</sup>Rocky Mountain spotted fever.

NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1994 (continued)

	-	yphilis			Toxic-					Varicella
Area	Primary & secondary	Cong. (<1 yr.)	All stages	Tetanus	shock syndrome	Trich- inosis	Tuber- culosis	Tularemia	Typhoid fever	(chicken- pox)
United States	20,627*	2,204*	81,696*	51	192	32	24,361	96	441	151,219
New England	219	14	1,128	2	5	1	595	1	25	11,676
Maine	4	-	9	-	1	1	35	-	-	711
N.H.	4	-	18	1		-	17	-	-	3,408
Vt.	-	-	1	-	2	-	10	-	-	NN
Mass. R.I.	90 16	6 2	622 141	-	2	-	329 56	1 -	20 1	5,903 1,654
Conn.	105	6	337	1	-		148	-	4	NN
Mid. Atlantic	1,446	681	14,302	7	30	5	5,112	2	121	5,978
N.Y. (excl. NY	′C) 173	59	1,375	3	16	2	641	1	12	NA
N.Y.C.	629	329	8,001		-	-	2,995	1	78	5,978
N.J.	240	178	2,188	2	-	2	855	-	25	NN
Pa.	404	115 <b>386</b>	2,738	2 <b>8</b>	14 <b>43</b>	1 <b>3</b>	621	6	6 <b>68</b>	NN 77 222
E.N. Central Ohio	<b>3,162</b> 1,187	3 <b>66</b> 71	<b>9,492</b> 2,740	<b>o</b> 1	43 10	- -	<b>2,236</b> 337	1	7	<b>77,332</b> 5,495
Ind.	286	11	844	2	3		211	-	4	5,435 NN
III.	1,099	258	3,877	1	15	_	1,117	3	42	33,889
Mich.	292	28	1,234	4	15	1	462	1	6	37,948
Wis.	298	18	797	-	-	2	109	1	9	NA
W.N. Central	1,203	82	2,663	4	28	2	610	38	2	18,210
Minn.	56	2	201	1	2	-	140	1	1	NN
lowa Mo.	75 987	6 72	235	1 1	8 7	1 1	66 260	24	- 1	4,197
N. Dak.	967	-	1,985 1	. I	1	-	10	1	I -	10,147 48
S. Dak.	2	_	8	_	-	_	28	2	-	619
Nebr.	10	-	46	-	5	-	22	3	-	2
Kans.	73	2	187	1	5	-	84	7	-	3,197
S. Atlantic	5,362	322	18,942	7	12	1	4,448	2	56	8,653
Del.	27	5	138	-	-	-	57	-	1	
Md.	325	9	1,538	1	-	-	363	1	14	NN 10
D.C. Va.	170 796	28 18	967 1,919	2	1	_	121 372	_	1 9	16 2.844
W. Va.	8	2	1,313	-	- -	_	80	-	-	5,656
N.C.	1,672	44	4,023	1	1	-	566	-	1	NN
S.C.	799	100	1,945	1	-	-	387	NN	-	135
Ga.	820	42	3,185	-	1	1	740	1	2	NN
Fla.	745	74	5,048	2	9	-	1,762	-	28	NN
E.S. Central	3,997	144	9,992	-	6	-	1,578	3	6	4,701
Ky. Tenn.	208 1,044	13 57	534 2,978	-	2 2	-	347 520	2	1 3	984 3,717
Ala.	661	18	1,933	-	1		433	-	2	NN
Miss.	2,084	56	4,547	-	1	_	278	1	-	NN
W.S. Central	4,124	355	16,275	15	2	_	3,500	27	17	16,159
Ark.	446	29	1,328	-	-	-	264	23	-	NN
La.	1,608	87	5,422	2	-	-	433	1	4	NN
Okla.	157	15	497	1	2	-	261	3	3	NN
Tex.	1,913	224	9,028	12	-	-	2,542	-	10	16,159
Mountain	242	23	1,137	2	12	4	654	9	13	7,286
Mont. Idaho	3 2	-	9 10	-	3	-	24 13	3	-	53 NN
Wyo.	-	_	3	-	- -	2	12	-	-	NN
Colo.	126	4	296	1	6	1	94	1	3	NN
N. Mex.	18	-	178	-	-	-	81	1	1	NN
Ariz.	50	16	419	-	1	-	249	-	4	6,783
Utah	12	-	51	1	2	-	55	2	2	450
Nev.	31	3	171	-	-	1	126	2	3	NN
Pacific	872	197	7,765	6	<b>54</b>	16	5,628	8	133	1,224
Wash. Oreg.	36 22	3	281 100	1	7	-	264 165	1 4	12 5	NN NN
Calif.	807	194	7,321	5	43	12	4,859	2	111	NN
Alaska	3	-	22	-	-	4	93	1	-	NN
Hawaii	4	-	41	-	4	-	247	-	5	1,224
Guam	2	-	7	-	-	-	21	-	1	952
P.R.	311	20	2,018	2	-	-	274	-	-	9,193
V.I.	7	-	30	-	-	-	10	-	-	551
C.N.M.I.	-	-	-	-	-	-	14	-	1	121
American Sar	ıı∪d -	-	-	-	-		5	-	1	74

\*Cases updated through Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services, as of February 28, 1995.

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