



## **Morbidity and Mortality Weekly Report**

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### Self-Reported Frequent Mental Distress Among Adults — United States, 1993–2001

Poor mental health is a major source of distress, disability, and social burden (1); in any given year, as many as one in five adults in the United States has a mental disorder (2). To identify differences among populations and factors contributing to poor mental health, CDC examined the prevalence of frequent mental distress (FMD) among U.S. adults by race/ ethnicity, socioeconomic status (SES), and sex, by using aggregate data from Behavioral Risk Factor Surveillance System (BRFSS) surveys for 1993-2001. This report describes the results of that analysis, which indicated that the prevalence of FMD varied among racial/ethnic populations and increased substantially among whites and blacks. In addition, FMD was reported more frequently by women and by persons with low SES within each racial/ethnic population. Targeting adverse socioeconomic risk factors and improving access to mental health services might decrease FMD among adults and reduce racial/ethnic disparities in mental health (2).

BRFSS is an ongoing, state-based, random-digit—dialed telephone survey of the noninstitutionalized, civilian, U.S. population aged ≥18 years (3). The study described in this report included 1,283,258 respondents from all 50 states and the District of Columbia. The median state response rate\* ranged from 71.4% in 1993 to 51.1% in 2001 (3). In response to the question, "Now, thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good?," a person who reported ≥14 days was identified as having FMD. This 14-day minimum period was selected because physicians and researchers often use a similar period as a marker for clinical depression and anxiety disorders (4).

Racial/ethnic populations were mutually exclusive. To study associations of FMD with SES, respondents were identified as having 1) low SES: those without a high school diploma or with <\$15,000 annual household income; 2) high SES: those with a college education and ≥\$50,000 annual household income; or 3) middle SES: all other respondents.

Data were weighted to estimate population parameters. To examine how certain variables accounted for differences in FMD, unadjusted, age- and sex-adjusted, and multivariable-adjusted estimates (i.e., adjusted for age, sex, marital status, education, annual household income, employment status, and health insurance status) were calculated. Unadjusted and adjusted prevalences and their standard errors were calculated by using cross-tabulation and logistic regression analyses to account for the complex BRFSS survey design. Multicollinearity testing indicated no collinearity among independent variables in the models (5).

Overall, the prevalence of FMD among U.S. adults increased significantly, from 8.4% in 1993 to 10.1% in 2001 (p<0.05). Moreover, FMD prevalence increased for non-Hispanic whites, from 8.1% to 9.7%, and for non-Hispanic blacks, from 9.5% to 11.3% (Figure 1). FMD was most common among American Indians/Alaska Natives (AI/ANs) (14.4% unadjusted and 11.4% multivariable-adjusted) and non-Hispanics of other

#### INSIDE

- 966 Transmission of Primary and Secondary Syphilis by Oral Sex — Chicago, Illinois, 1998–2002
- 969 Postexposure Prophylaxis, Isolation, and Quarantine To Control an Import-Associated Measles Outbreak — Iowa, 2004
- 971 West Nile Virus Activity United States, October 13–19, 2004
- 972 Notice to Readers

<sup>\*</sup> According to the methodology of the Council of American Survey Research Organizations, the response rate includes the number of completed interviews in the numerator and an estimate of the number of all eligible interviewees and those whose eligibility is undetermined in the denominator.

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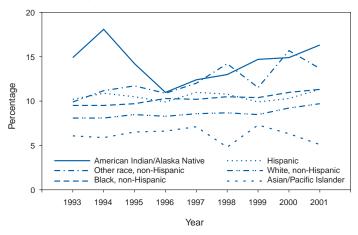
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#### Notifiable Disease Morbidity and 122 Cities Mortality Data

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FIGURE 1. Prevalence of frequent mental distress\* among adults, by racial/ethnic population and year — Behavioral Risk Factor Surveillance System, United States, 1993–2001<sup>†</sup>



\* Self-reported mental health was not good (e.g., stress, depression, or emotional problems) ≥14 days during the preceding 30 days.

† Unadjusted.

race<sup>†</sup> (12.9% unadjusted and 12.3% multivariable-adjusted) and least common among Asians/Pacific Islanders (A/PIs) (6.2% unadjusted and 7.5% multivariable-adjusted). Among non-Hispanic whites, the prevalence of FMD was 8.6% unadjusted and 9.4% multivariable-adjusted; among Hispanics, 10.5% unadjusted and 8.4% multivariable-adjusted; and among blacks, 10.3% unadjusted and 8.0% multivariable-adjusted (Table).

Across all racial/ethnic populations, respondents with high SES were least likely to have FMD; however, racial/ethnic differences remained consistent within socioeconomic categories. For high-SES respondents, the prevalence of FMD was highest among non-Hispanics of other race (7.9%) and AI/ANs (7.7%) and lowest among A/PIs (3.8%). Non-Hispanic whites, non-Hispanic blacks, and Hispanics had intermediate FMD prevalences (4.7%, 6.1%, and 5.9%, respectively) (Figure 2). In all racial/ethnic populations, persons with low SES were at least twice as likely to have FMD as those with high SES.

FMD was more prevalent among women than men in all racial/ethnic populations except A/PIs and AI/ANs (both unadjusted and multivariable-adjusted prevalences) (Table). After multivariable adjustment, prevalence of FMD was highest among women who identified themselves as non-Hispanic of other race (14.3%) and AI/AN (12.5%), followed by women who identified themselves as non-Hispanic white (11.1%), Hispanic (9.5%), non-Hispanic black (9.2%), and A/PI (7.7%). Respondents in all racial/ethnic populations who were

<sup>&</sup>lt;sup>†</sup> Includes persons who did not identify as one of the following racial/ethnic populations: white, non-Hispanic; black, non-Hispanic; Hispanic; Asian/Pacific Islander; or American Indian/Alaska Native. These persons might be of multiple race/ethnicity.

TABLE. Prevalence of frequent mental distress\* among adults, by racial/ethnic population and sex — Behavioral Risk Factor Surveillance System, United States, 1993–2001

		nadjusted : 1,272,441)	a	- and sex- djusted <sup>†</sup> 1,259,871)	Multivariable- adjusted <sup>§</sup> (N = 1,081,758)		
Racial/Ethnic population	%	(95% CI <sup>¶</sup> )	%	(95% CI)	%	(95% CI)	
White, non-Hispanic							
Both sexes	8.6	(8.5-8.7)	8.7	(8.6-8.8)	9.4	(9.2 - 9.6)	
Men	6.8	(6.7-6.9)	6.8	(6.7-6.9)	7.5	(7.3-7.6)	
Women	10.3	(10.1-10.4)	10.5	(10.4-10.6)	11.1	(11.0-11.3)	
Black, non-Hispanic							
Both sexes	10.3	(10.0-10.6)	9.9	(9.6-10.2)	8.0	(7.8-8.2)	
Men	8.2	(7.8–8.6)	8.0	(7.5–8.4)	6.8	(6.4-7.1)	
Women	11.9	(11.5–12.3)	11.8	(11.4–12.2)	9.2	(8.9–9.6)	
Hispanic		,		,		, ,	
Both sexes	10.5	(10.1-10.9)	10.1	(9.7-10.5)	8.4	(8.8-0.8)	
Men	8.9	(8.3–9.5)	8.5	(7.9-9.0)	7.1	(6.7-7.6)	
Women	12.2	(11.6–12.7)	11.7	(11.2–12.2)	9.5	(9.0-9.9)	
Asian/Pacific Islander		,		,		, ,	
Both sexes	6.2	(5.6-6.8)	6.1	(5.6-6.6)	7.5	(6.7 - 8.3)	
Men	5.7	(4.9–6.6)	5.4	(4.6–6.2)	7.0	(6.0–8.1)	
Women	6.8	(6.0-7.5)	6.5	(5.8-7.2)	7.7	(6.8–8.6)	
American Indian/Alaska Native							
Both sexes	14.4	(13.3-15.5)	14.1	(13.0-15.2)	11.4	(10.4-12.4)	
Men	12.9	(11.3–14.5)	12.4	(10.9–14.0)	10.1	(8.8–11.4)	
Women	16.0	(14.5-17.5)	15.6	(14.1 - 17.0)	12.5	(11.2–13.8)	
Other race, non-Hispanic		,		,		,	
Both sexes	12.9	(11.7-14.0)	12.9	(11.7-14.1)	12.3	(11.1-13.5)	
Men	10.4	(8.9–12.0)	10.2	(8.7–11.7)	10.2	(8.5–11.8)	
Women	15.6	(13.9-17.4)	15.5	(13.7–17.2)	14.3	(12.6-16.0)	
Total							
Both sexes	9.0	(8.9-9.1)		_		_	
Men	7.2	(7.1-7.3)		_	_		
Women	10.6	(10.5–10.7)		_	_		

<sup>\*</sup> Self-reported mental health was not good (e.g., stress, depression, or emotional problems) ≥14 days

younger, female, separated, divorced, widowed, unemployed, or unable to work or who had <\$15,000 annual household income, less than a high school education, or no health insurance reported significantly more FMD.

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**Editorial Note:** Previous analyses have indicated that poor mental health is more prevalent among certain racial/ethnic minority populations. These differences might be associated with multiple factors (2,6). In this analysis, SES was strongly associated with FMD among all racial/ethnic populations, a finding consistent with previous studies relating SES to poor mental health (4,6-8). SES shapes a person's exposure to psychosocial, environmental, behavioral, and biomedical risk factors that directly and indirectly affect mental health (9).

The findings in this report also indicate that racial/ethnic differences in FMD prevalence persisted during 1993–2001. AI/ANs reported the highest prevalence of FMD, whereas A/PIs reported the lowest. The pattern for these two populations persisted after adjustments for age, sex, and the other variables in the model. Non-Hispanic blacks and Hispanics had higher unadjusted FMD percentages than whites; however, whites had higher FMD percentages after multivariable adjustment, suggesting that socioeconomic and other factors accounted for the unadjusted differences.

Among AI/ANs, unhealthy behaviors and comorbidity (e.g., alcoholism and other substance abuse), physical and social environment (e.g., social disadvantage, inadequate schools, and violence), psychosocial and historical factors (e.g., racism, discrimination, and disenfranchisement), and other unmeasured sociodemographic factors might contribute to the disproportionate burden of FMD (2). Among A/PIs, protective factors attenuating FMD and cultural norms and perceptions of stigma inhibiting disclosure of FMD might partly explain lower unadjusted and multivariable-adjusted FMD

prevalence (2). Among all populations, cultural and social contexts can influence mental health and alter the types of mental health services persons seek and receive (2,6).

Although physiologic and social factors unique to women (e.g., pregnancy, care giving, and social roles) might affect FMD in women, men's reluctance to disclose psychological distress also might account for the difference in FMD by sex (2). Moreover, unique social and cultural influences relevant to A/PIs and AI/ANs or low statistical power because of small numbers of respondents might explain the similar FMD prevalence among men and women in these two populations.

The findings in this report are subject to at least five limitations. First, because BRFSS surveys include only noninstitutionalized adults with telephones, persons in institutions and in households without telephones (i.e., populations that might have worse mental health than others) are excluded (6). Because certain racial/ethnic minorities are disproportionately represented in these vulnerable populations, their overall FMD

during the preceding 30 days.

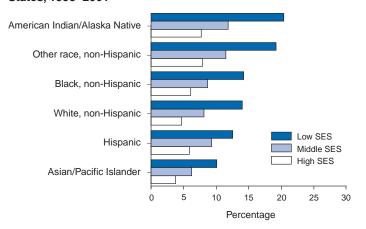
Adjusted by age and sex for both sexes and adjusted by age for each sex within each racial/ethnic spopulation.

Adjusted by age, sex, education, income, marital status, employment status, and health insurance

status.

<sup>&</sup>lt;sup>¶</sup>Confidence interval.

FIGURE 2. Prevalence of frequent mental distress\*, among adults, by racial/ethnic population and socioeconomic status (SES)† — Behavioral Risk Factor Surveillance System, United States, 1993–2001



\* Self-reported mental health was not good (e.g., stress, depression, or \_emotional problems) ≥14 days during the preceding 30 days.

prevalence likely is underestimated. Second, because states commonly use only English- or Spanish-language surveys, persons who speak another primary language are excluded. Third, because BRFSS is a cross-sectional survey, whether the characteristics studied (e.g., SES and marital status) affect FMD or whether FMD affects these characteristics is uncertain. Fourth, although the characteristics studied explained some of the variability in FMD among racial/ethnic populations, risk behaviors, physical and social environment, psychosocial factors, health conditions, stressful life events, unmeasured socioeconomic factors, and cultural factors might account for additional FMD differences among racial/ethnic populations. Finally, the BRFSS mental health measure was not validated for detection of mental illness with clinical psychiatric examinations.

Unfavorable socioeconomic factors were associated with increased self-reported FMD in all racial/ethnic populations. However, the proportion of persons with low SES differed among racial/ethnic populations. Targeting adverse socioeconomic risk factors, improving access to culturally competent mental health services and social services (e.g., job training programs and educational programs that address stigma), and promoting supportive relationships and social cohesion could decrease FMD among all adults and reduce racial/ethnic disparities in FMD prevalence.

#### **Acknowledgments**

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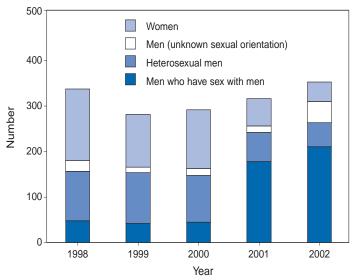
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## Transmission of Primary and Secondary Syphilis by Oral Sex — Chicago, Illinois, 1998–2002

During 1998-2002, the STD/HIV Prevention and Care Program of the Chicago Department of Public Health (CDPH) recorded 1,582 cases of primary and secondary (P&S) syphilis, the most of any U.S. city (1). Although case numbers and overall rates remained stable in Chicago during this period, patterns of transmission changed substantially. Throughout most of the 1990s, P&S syphilis was reported almost exclusively among heterosexuals. During 1998-2000, however, men who have sex with men (MSM) accounted for approximately 15% of Chicago's P&S syphilis morbidity. Since 2001, MSM have accounted for nearly 60% of patients with P&S syphilis (Figure 1). During 2000-2002, CDPH conducted interviews with persons with syphilis; some MSM reported they had engaged in only oral sex and were surprised to have acquired syphilis. In response, CDPH began collecting information on oral sex from persons with syphilis. To assess the role of oral sex in the transmission of P&S syphilis in Chicago, CDPH analyzed surveillance data and interview responses. This report summarizes the results of these analy-

Low SES: Those without a high school diploma or with annual household income of <\$15,000. High SES: Those with a college education and with annual household income of >\$50,000. Middle SES: All other respondents.

FIGURE 1. Number of primary and secondary syphilis cases, by sex, sexual orientation, and year — Chicago, Illinois, 1998–2002



ses, which suggested that a substantial proportion (13.7%) of syphilis cases were attributed to oral sex, particularly among MSM. Persons who are not in a long-term monogamous relationship and who engage in oral sex should use barrier protection (e.g., male condoms or other barrier methods) to reduce the risk for sexually transmitted disease (STD) transmission.

CDPH staff interviewed persons with syphilis to ensure adequacy of treatment for patients and their sex partners and to provide STD/human immunodeficiency virus (HIV) education and other testing and treatment services. Interviewers obtained demographic data (i.e., sex, age, race/ethnicity, and sexual orientation) and risk-behavior information (i.e., sexual behavior, number and sex of sex partners, venues for meeting partners, and self-reported HIV status). During the interviews, CDPH staff determined whether oral sex was the only sexual exposure the patient reported during the period of syphilis acquisition. Persons were asked about the type of sexual contact during the interval in which they likely acquired syphilis. This period usually is considered to be 3 months before treatment for primary syphilis and 6 months for secondary syphilis.

#### Surveillance Data

During 1998–2002, the number of reported cases of P&S syphilis in Chicago ranged from 338 to 353 cases annually; overall rates per 100,000 population ranged from 11.8 to 12.2. Rates declined 68% among women, from 9.2 to 2.9, and increased 50% among men, from 14.7 to 22.1. Of the 1,582 persons with P&S syphilis, 948 (60%) were heterosexuals, and 524 (33%) were MSM. Approximately 90% of heterosexuals were non-Hispanic black. An estimated 54% of MSM were non-Hispanic white, 26% were non-Hispanic black, and

13% were Hispanic. Rates declined by 31% among non-Hispanic black men and by 67% among non-Hispanic black, non-Hispanic white, and Hispanic women; rates increased among non-Hispanic white and Hispanic men (469% and 462%, respectively) (Figure 2).

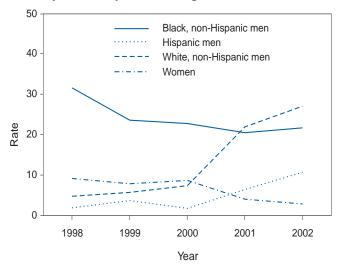
HIV-infection rates for persons with syphilis varied by sex and sexual orientation. In 2001 and 2002, among persons with P&S syphilis, less than 10% of heterosexuals and approximately half of MSM were HIV infected.

#### **Interview Data**

During 2000–2002, of 962 persons with P&S syphilis, data were available for 627 (65.2%); 325 (51.8%) were MSM, 157 (25.0%) were heterosexual men, and 145 (23.1%) were heterosexual women. Overall, 86 (13.7%) persons indicated that oral sex was their only sexual exposure during the period they likely acquired syphilis: 66 (20.3%) of 325 MSM, 10 (6.4%) of 157 heterosexual men, and 10 (6.9%) of 145 heterosexual women (p<0.0001) (Table).

During the period of syphilis acquisition among the 325 MSM, oral sex was the only sexual exposure reported by 18 (22.7%) of 79 with primary syphilis, 48 (19.5%) of 246 with secondary syphilis, 36 (21.6%) of 167 with HIV infection, nine (19.6%) of 46 without HIV infection, and 21 (18.7%) of 112 with unknown HIV status. Thirty-three (17.2%) of 192 non-Hispanic white MSM, 16 (30.2%) of 53 Hispanic MSM, and 14 (19.4%) of 72 non-Hispanic black MSM reported having only oral sex during the period in which they likely acquired syphilis. When compared with heterosexual men and women, respectively, MSM were 3.8 and 3.4 times

FIGURE 2. Rate\* of primary and secondary syphilis, by race/ethnicity, sex, and year — Chicago, Illinois, 1998–2002



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

TABLE. Number and percentage of persons with primary and secondary syphilis who reported having only oral sex during the period of syphilis acquisition, by selected characteristics — Chicago, Illinois, 2000–2002

		No. indicating	
Characteristic	No.	only oral sex	(%)
MSM*			
Primary syphilis	79	18	(22.7)
Secondary syphilis	246	48	(19.5)
HIV positive	167	36	(21.6)
HIV negative	46	9	(19.6)
Serostatus unknown	112	21	(18.7)
White, non-Hispanic	192	33	(17.2)
Hispanic	53	16	(30.2)
Black, non-Hispanic	72	14	(19.4)
Total	325	66	(20.3)
Heterosexual men			
Primary syphilis	53	4	(7.5)
Secondary syphilis	104	6	(5.8)
HIV positive	8	0	(0)
HIV negative	53	2	(3.8)
Serostatus unknown	96	8	(8.3)
Total	157	10	(6.4)
Women			
Primary syphilis	12	0	(0)
Secondary syphilis	133	10	(7.5)
HIV positive	5	0	(0)
HIV negative	56	3	(5.3)
Serostatus unknown	84	7	(8.3)
Total	145	10	(6.9)
Total	627	86	(13.7)

<sup>\*</sup> Men who have sex with men.

more likely to report only oral sex during the period of syphilis acquisition.

**Reported by:** C Ciesielski, MD, I Tabidze, MD, C Brown, MBA, Chicago Dept of Public Health, Illinois. Div of Sexually Transmitted Diseases Prevention, National Center for HIV, STD, and TB Prevention, CDC.

Editorial Note: The findings in this report suggest that during 2000–2002, 13.7% of P&S syphilis cases in Chicago were attributed to oral sex, including 20.3% of cases among MSM. Other reports also have associated oral sex with transmission of syphilis (2); one third of MSM who were involved in syphilis outbreaks in Brighton and Manchester, United Kingdom, acquired syphilis through oral sex (3). Syphilitic lesions develop at the site of syphilis infection within 10-90 days (median: 21 days), and lesions on the lips, tongue, and oral mucosa have been commonly described. During the secondary stage of syphilis, mucous patches, which have high concentrations of Treponema pallidum and are extremely infectious, might develop in the mouth. Syphilis in the oral cavity often is asymptomatic or subclinical and can be mistaken by patients for apthous ulcers or herpes, thereby delaying curative treatment and allowing ongoing transmission.

Because the risk for HIV transmission through oral sex is much lower than the risk through anal or vaginal sex (4), persons might mistakenly consider unprotected oral sex (i.e., with-

out a condom) to be a safe or no-risk sexual practice and adopt oral sex as a replacement for higher-risk behaviors. Condoms rarely are used for oral sex. Of an estimated 1,000 MSM in Chicago who stated that they had engaged in oral sex during the preceding 60 days, more than 75% never used condoms for either oral insertive or oral receptive sex (CDPH, unpublished data, 2003). Oral syphilitic lesions disrupt the protective epithelial barrier and recruit HIV target cells, increasing the risk for HIV transmission (5). Although oral sex might carry a lower risk for transmitting HIV than other forms of sex, repeated unprotected exposures, especially in the presence of syphilitic lesions, represent a substantial risk for HIV transmission. Syphilis might also increase progression of HIV disease (6,7).

The findings in this report are subject to at least one limitation. The data might underestimate the role of oral sex in syphilis transmission because most persons who reported engaging in anal and vaginal sex also reported engaging in oral sex. Transmission was attributed to oral sex in only the 14% of cases in which oral sex was the only sexual exposure reported during the interval when syphilis likely was acquired.

Some men who engaged in only oral sex believed that they were practicing safe sex and were surprised when they received a syphilis diagnosis. These data underscore the need for educating sexually active persons regarding the risk for syphilis transmission through oral sex. That syphilis might hasten the progression of HIV disease should provide a further motivation for MSM, especially HIV-infected MSM, to avoid syphilis acquisition. Persons who are not in a long-term monogamous relationship and who engage in oral sex should use barrier protection (e.g., male condoms or other barrier methods) to reduce the risk for STD and HIV transmission.

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## Postexposure Prophylaxis, Isolation, and Quarantine To Control an Import-Associated Measles Outbreak — Iowa, 2004

On March 12, 2004, a college student infectious with measles returned to Iowa from India by a commercial airliner (1); the case was subsequently linked to two other measles cases. This report updates information about this outbreak and provides details regarding vaccination, quarantine, and other measures used by Iowa public health authorities to interrupt disease transmission in a vulnerable population. The effective uses of quarantine and isolation during the outbreak underscore the utility of these public health tools in halting communicable disease transmission.

Immediately after being notified of the measles case, the Iowa Department of Public Health (IDPH) and local health departments in Iowa began using media releases, passenger lists, and interviews with the infected student to identify and contact persons potentially exposed to measles. Susceptible contacts (i.e., persons exposed and not fully vaccinated) were offered postexposure prophylaxis (PEP), either measlesmumps-rubella (MMR) vaccination within 72 hours of exposure or immune globulin (IG) within 6 days of exposure. Approximately 10 days later, measles cases were identified in two other Iowa residents: 1) a fellow airline passenger who previously had received two MMR vaccinations and 2) an unvaccinated close contact who had received postexposure MMR vaccination approximately 26 hours after contact with the first patient. Contacts of these two patients also were identified and offered PEP if they were deemed susceptible to measles infection. In public health immunization clinics specifically organized to vaccinate persons who had been exposed to measles, approximately 175 persons received postexposure MMR vaccination, and 20 received postexposure IG.

All three patients, who were moderately ill, were placed in voluntary isolation, which IDPH and local health departments monitored with home visits and telephone calls. Two susceptible health-care workers, who were exposed when the second patient sought medical care and who did not receive PEP within the recommended period, were placed in voluntary quarantine for 2 weeks, during which they did not leave their homes.

Two of the three measles patients were part of an insular community (estimated population: 2,000–3,000) with low vaccination rates (i.e., the community's K–12 school had a vaccination rate of 59% for vaccines required for school entry, including MMR). Community members held daily gatherings that provided opportunities for measles transmission to susceptible persons. PEP was offered to all susceptible persons in the community, and 56 accepted. Seven persons who

had potentially been exposed to measles refused PEP, even though they were aware of the potential for being quarantined. Initially, all seven agreed to be quarantined in lieu of receiving vaccine, but because of their subsequent unwillingness to comply with voluntary quarantine, all seven were served by the local public health nurse with state-issued involuntary home quarantine orders, some with the assistance of local law enforcement officers. (Examples of Iowa's quarantine orders are available at http://www.idph.state.ia.us/adper/cade.asp.) Although none reported a history of full vaccination or symptomatic measles, within days of being quarantined, four of the seven were determined serologically to be immune and were released from quarantine; the other three completed their 2-week quarantine.

IDPH and the local health department monitored compliance with quarantine orders with at least daily unannounced home visits or telephone calls and released the persons from quarantine via oral communication. In the future, because of confusion about the exact time of day the quarantine should end, written release-from-quarantine notices will be served. No known breaks in quarantine occurred. None of those persons in quarantine acquired measles. No additional cases were reported.

Reported by: V McKeever, Jefferson County Public Health, Iowa; H Adams, JD, Office of the Iowa Attorney General; T Thornton, P Quinlisk, MD, Iowa Dept of Public Health. M Cetron, MD, Div of Global Migration and Quarantine, National Center for Infectious Diseases; R Goodman, MD, JD, F Shaw, MD, JD, A Moulton, PhD, Public Health Law Program, Office of the Chief of Public Health Practice; M Papania, MD, National Immunization Program, CDC.

**Editorial Note:** Use of vaccination, both pre- and postexposure, is the most common and preferred strategy for preventing transmission of measles (2). During this outbreak, Iowa public health officials first offered timely postexposure vaccination to susceptible persons who had close contact with a person infected with measles. However, when postexposure vaccination was refused, quarantine was used to reduce the risk of further transmission of measles to a vulnerable population.

An essential public health tool, rarely used in the last half century in the United States, quarantine is often confused with isolation, which is the restriction of movement of persons who are known to be infected with a communicable disease and who often are symptomatic. Quarantine reduces the risk of exposure to disease by separating and restricting the movement of persons who are not yet ill but who have been exposed to an infectious agent and might become infectious. Quarantine is more difficult to implement than isolation because the persons under quarantine are not symptomatic and thus have greater difficulty understanding the need for staying at home when compared with ill persons who need to be isolated.

Before antibiotics and vaccines, quarantine was used when direct medical countermeasures were not routinely available. However, quarantine often was implemented in a manner that equated disease with crime; consequently, quarantine acquired negative connotations associated with stigma and discrimination. For quarantine to be an effective and acceptable public health tool, these negative connotations must be overcome by applying the measure equally and fairly among all persons who have been exposed, and by using other approaches. These include providing education about the rationale for using quarantine; offering acceptable alternatives to quarantine, when feasible, such as postexposure vaccination or obtaining serologic proof of immunity; and applying due process measures, such as written notice and opportunities to appeal.

The use of quarantine to address public health problems demands a balancing of individual civil liberties with the collective needs of the public's health. Additional focus on the health, welfare, and social needs of persons subjected to quarantine is required. During the 2003 epidemic of severe acute respiratory syndrome (SARS), CDC listed 10 principles for modern quarantine (Box 1) (3,4).

In the United States, as in most countries of the world, government has the duty and legal power to address risks associated with persons whose freedom of movement might endanger the public's health. Under circumstances described in federal statute\*, the U.S. government has the authority to detain persons for the control of communicable diseases. In particular, the U.S. government has the authority to isolate and quarantine persons to control the spread of selected communicable diseases specified by presidential executive order (5,6). In addition, all 50 states and the District of Columbia have the authority to detain persons under their own quarantine laws. In the event of an epidemic resulting from natural transmission or from deliberate introduction, both state and federal quarantine laws could be invoked to stem the spread of disease.

After the events of September 11, 2001, and in response to the draft Model State Emergency Health Powers Act (7), Iowa lawmakers reviewed the state's legal authority for public health emergency preparedness and response. In 2003, as a result of this review, the Iowa state legislature enacted new laws related to public health disaster preparedness. The new legislation included a provision authorizing IDPH to order quarantine in the event of a public health disaster<sup>†</sup>. To implement this legislation and preexisting laws authorizing quarantine in nondisaster situations, IDPH adopted administrative rules governing the quarantine process. These rules became effective on March 10, 2004, only 2 days before the measles infected student returned home to Iowa. Although the measles

#### **BOX 1. Ten principles of modern quarantine**

Modern quarantine is a collective action for the common good predicated on aiding persons infected or exposed to infectious agents while protecting others from the dangers of inadvertent exposure.

- 1. Used when exposed to highly dangerous and contagious diseases, when resources are available to implement and maintain, and when less restrictive means cannot accomplish the public health objectives.
- 2. Encompasses a wide range of strategies, from passive self-monitoring for symptoms to use of barriers limiting entry and exit to authorized persons.
- 3. Used in combination with other interventions and countermeasures to ensure that persons in quarantine or isolation are among the first to receive all supportive interventions available.
- 4. Ensures rapid isolation of infectious persons and separation from those merely exposed.
- 5. Lasts only as long as necessary to achieve epidemic control but no longer than the disease incubation period.
- 6. Does not have to be absolute to be effective; therefore, favors voluntary over compulsory approaches.
- 7. More likely to involve limited numbers of exposed persons in small areas than in a widespread geographic locale.
- 8. Requires clear understanding of the roles of jurisdictions and legal authorities.
- 9. Requires coordination and planning with multiple partners.
- 10. Requires education, trust, and participation of the general public.

outbreak did not constitute a public health disaster under the 2003 statute, the state used the new quarantine process as outlined in its administrative rules to assist in containing the outbreak

In 2003, the SARS outbreak triggered the widest use of quarantine globally since the influenza pandemic of 1917. Largely voluntary quarantine was used in Canada to keep approximately 20,000 persons in their homes for 10 days (8). For 27 persons who refused voluntary quarantine, public health officials issued legally enforceable quarantine orders. In certain cities in Asia (e.g., Beijing, Hong Kong, Singapore, and Taipei), quarantine authority was used to order thousands of persons to remain in their homes, an intervention that has been credited with helping to contain the outbreak (3). Although SARS did not spread within the United States, certain jurisdictions used quarantine authority to minimize the risk of spreading the virus (e.g., via unprotected health-care workers exposed to infectious SARS patients).

<sup>\*42</sup> U.S.C. § 264.

<sup>&</sup>lt;sup>†</sup>Iowa Code section 135.144 (2003 Suppl.), 139A.4, 139A.9, and 641 Iowa Administrative Code chapter 1.

The scope and specifics of laws authorizing quarantine vary substantially by state. States that have not reviewed their quarantine laws might consider doing so by using a systematic approach covering essential features (e.g., quarantine, jurisdictional aspects, and due process) (Box 2). State and local health officials also might consider reviewing quarantine-related laws with their agencies' legal counsels, in coordination with law enforcement officials and the judiciary.

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## BOX 2. Essential questions to review regarding quarantine authority

#### **Ouarantine authority**

- Who may declare a quarantine?
- Does a list of specific diseases exist for which a person can be quarantined?
- What is the process of initiating a quarantine?
- What is the penalty for violating a quarantine?
- How is the quarantine enforced?
- Is area quarantine authorized by law?
- Is group quarantine authorized by law?

#### Jurisdictional considerations

- Does the law clarify the relation between state and local jurisdictions in quarantine situations?
- Does the law clarify the coordination of quarantine authority among local jurisdictions?
- Does the law place any restrictions on coordination of quarantine authority between this state and the federal government?

#### Due process considerations

- What legal provisions exist for notice, hearing, consolidation of petitions, and legal representation?
- What provisions address confidentiality?
- Does the law contain any provisions addressing the use of habeas corpus?

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## West Nile Virus Activity — United States, October 13–19, 2004

During October 13–19, a total of 200 cases of human West Nile virus (WNV) illness were reported from 20 states (Arizona, Arkansas, California, Colorado, Illinois, Indiana, Iowa, Kansas, Maryland, Michigan, Mississippi, Missouri, Nevada, New Mexico, North Carolina, Oklahoma, Pennsylvania, South Dakota, Wisconsin, and Wyoming).

During 2004, a total of 40 states and the District of Columbia (DC) have reported 2,151 cases of human WNV illness to CDC through ArboNET (Table and Figure). Of these, 687 (32%) cases were reported in California, 378 (18%) in Arizona, and 276 (13%) in Colorado. A total of 1,232 (58%) of the 2,118 cases for which such data were available occurred in males; the median age of patients was 52 years (range: 1 month–99 years). Date of illness onset ranged from April 23 to October 6; a total of 68 cases were fatal.

A total of 191 presumptive West Nile viremic blood donors (PVDs) have been reported to ArboNET in 2004. Of these, 70 (37%) were reported in California; 37 (19%) in Arizona; 16 in Texas; 15 in New Mexico; seven each in Colorado and Louisiana; six in Oklahoma; five in Nevada; four in Georgia; three each in Florida, Michigan, and South Dakota; two each in Minnesota, Mississippi, Missouri, and Wisconsin; and one each in Delaware, Iowa, Nebraska, New Jersey, North Dakota, Oregon, and Pennsylvania. Of the 191 PVDs, three persons aged 35, 69, and 77 years subsequently had neuroinvasive illness, and 45 persons (median age: 52 years; range: 17–73 years) subsequently had West Nile fever.

In addition, during 2004, a total of 5,073 dead corvids and 1,263 other dead birds with WNV infection have been reported from 45 states and New York City. WNV infections have been reported in horses in 36 states; one bat in Wisconsin; seven dogs in Nevada, New Mexico, and Wisconsin; six squirrels in Arizona and Wyoming; and 13 unidentified animal species in eight states (Arizona, Idaho, Illinois, Iowa, Missouri, Nevada, New York, and South Carolina). WNV seroconversions have been reported in 1,195 sentinel chicken flocks in 13 states (Alabama, Arizona, Arkansas, California,

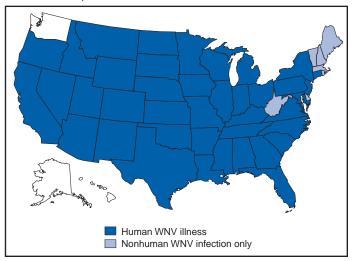
TABLE. Number of human cases of West Nile virus (WNV) illness, by area — United States, 2004\*

	Neuro- invasive	West Nile	Other clinical/	Total	
Area	disease†		unspecified¶	reported to CDC**	Deaths
Alabama	13	0	0	13	0
Arizona	128	70	180	378	9
Arkansas	12	9	1	22	0
California	142	242	303	687	20
Colorado	39	237	0	276	3
Connecticut	0	1	0	1	0
District of Columbi	a 1	0	0	1	0
Florida	30	5	0	35	1
Georgia	11	5	0	16	0
Idaho	0	0	2	2	0
Illinois	28	27	1	56	2
Indiana	5	0	2	7	1
Iowa	10	7	2	19	1
Kansas	19	25	0	44	2
Kentucky	1	5	0	6	0
Louisiana	55	15	0	70	3
Maryland	6	5	1	12	0
Michigan	8	1	0	9	0
Minnesota	13	20	0	33	2
Mississippi	23	5	1	29	3
Missouri	24	7	1	32	1
Montana	1	3	1	5	0
Nebraska	2	20	0	22	0
Nevada	25	19	0	44	0
New Jersey	1	0	0	1	0
New Mexico	29	46	4	79	4
New York	3	2	0	5	0
North Carolina	3	0	0	3	0
North Dakota	2	18	0	20	1
Ohio	7	1	0	8	2
Oklahoma	9	6	0	15	1
Oregon	0	1	0	1	0
Pennsylvania	7	3	1	11	1
South Carolina	0	1	0	1	0
South Dakota	5	44	0	49	1
Tennessee	9	1	0	10	0
Texas	75	20	0	95	8
Utah	5	5	0	10	0
Virginia	4	0	1	5	1
Wisconsin	4	6	0	10	1
Wyoming	2	5	2	9	0
Total	761	887	503	2,151	68

<sup>\*</sup> As of October 19, 2004.

Delaware, Florida, Iowa, Louisiana, Nebraska, Nevada, Pennsylvania, South Dakota, and Utah) and in 25 wild hatchling birds in Missouri and Ohio. Four seropositive sentinel horses were reported in Minnesota and Puerto Rico. A total of 7,262 WNV-positive mosquito pools have been reported in 38 states, DC, and New York City.

FIGURE. Areas reporting West Nile virus (WNV) activity — United States, 2004\*



<sup>\*</sup> As of 3 a.m., Mountain Standard Time, October 19, 2004.

Additional information about national WNV activity is available from CDC at http://www.cdc.gov/ncidod/dvbid/westnile/index.htm and at http://westnilemaps.usgs.gov.

#### Notice to Readers

# Availability of 24-Hour Clinician Information Line and Addition of Topics

CDC's Clinician Information Line (CIL) announces the addition of three topics — mass trauma, bovine spongiform encephalopathy (BSE)/variant Creutzfeldt-Jakob disease (vCJD), and viral hemorrhagic fevers — to its expanding list of disease topics. The line now covers 16 topics: smallpox, influenza/avian influenza, ricin, severe acute respiratory syndrome, radiation, West Nile virus, chlorine, anthrax, botulism, plague, nerve agents, tularemia, viral hemorrhagic fevers, hurricane recovery, mass trauma, and BSE/vCJD. Clinicians with questions relating to any of these topics can reach CIL at telephone 877-554-4625 (toll-free).

CIL was established by CDC in 2003 to rapidly disseminate information to clinicians. The hotline, available 24 hours a day, 7 days a week, is staffed by registered nurses who have access to the latest CDC guidelines and information. The nurses use these guidelines to address emergency preparedness concerns and answer specific questions about emerging diseases. In addition, CIL nurses can connect callers to their local and state public health departments in real time. CIL nurses interact with CDC staff and subject matter specialists to obtain the most up-to-date information. Additional information is available at http://www.bt.cdc.gov/coca.

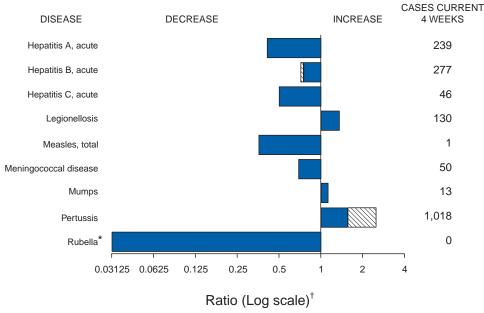
<sup>&</sup>lt;sup>†</sup> Cases with neurologic manifestations (i.e., West Nile meningitis, West Nile encephalitis, and West Nile myelitis).

<sup>§</sup> Cases with no evidence of neuroinvasion.

Illnesses for which sufficient clinical information was not provided.

<sup>\*\*</sup> Total number of human cases of WNV illness reported to ArboNet by state and local health departments.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals October 16, 2004, with historical data



Beyond historical limits

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending October 16, 2004 (41st Week)\*

	Cum. 2004	Cum. 2003		Cum. 2004	Cum. 2003
Anthrax	-	-	HIV infection, pediatric <sup>†¶</sup>	126	166
Botulism:	-	-	Influenza-associated pediatric mortality	-	NA
foodborne	11	9	Measles, total	24**	51 <sup>††</sup>
infant	60	54	Mumps	150	170
other (wound & unspecified)	9	23	Plague	1	1
Brucellosis†	81	77	Poliomyelitis, paralytic	-	-
Chancroid	27	47	Psittacosis†	9	9
Cholera	4	1	Q fever <sup>†</sup>	58	56
Cyclosporiasis†	200	59	Rabies, human	5	2
Diphtheria	-	-	Rubella	10	7
Ehrlichiosis:	-	-	Rubella, congenital syndrome	-	1
human granulocytic (HGE)†	237	247	SARS-associated coronavirus disease†§§	-	8
human monocytic (HME) <sup>†</sup>	226	205	Smallpox <sup>†</sup> ¶	-	NA
human, other and unspecified	26	38	Staphylococcus aureus:	-	-
Encephalitis/Meningitis:	-	-	Vancomycin-intermediate (VISA)† ¶	-	NA
California serogroup viral†§	67	104	Vancomycin-resistant (VRSA)† ¶	1	NA
eastern equine <sup>† §</sup>	3	13	Streptococcal toxic-shock syndrome†	84	133
Powassan <sup>†§</sup>	-	-	Tetanus	11	15
St. Louis†§	8	39	Toxic-shock syndrome	103	99
western equine <sup>†§</sup>	-	-	Trichinosis	4	1
Hansen disease (leprosy)†	63	68	Tularemia <sup>†</sup>	63	69
Hantavirus pulmonary syndrome†	17	18	Yellow fever	-	-
Hemolytic uremic syndrome, postdiarrheal†	113	129			<u> </u>

<sup>-:</sup> No reported cases.

<sup>\*</sup> No rubella cases were reported for the current 4-week period yielding a ratio for week 41 of zero (0).
† Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

Not notifiable in all states.

Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update September 26, 2004.

<sup>\*\*</sup> Of 24 cases reported, 11 were indigenous, and 13 were imported from another country.

Of 51 cases reported, 31 were indigenous, and 20 were imported from another country.

SS Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (notifiable as of July 2003).

Not previously notifiable.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending October 16, 2004, and October 11, 2003 (41st Week)\*

(41st Week)*	AID	)S	Chlan	Chlamydia <sup>†</sup>		lomycosis	Cryptosp	oridiosis		s/Meningitis t Nile§
Reporting area	Cum. 2004 <sup>¶</sup>	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	31,120	33,700	685,609	676,937	4,526	2,884	2,571	2,685	761	2,804
NEW ENGLAND	981	1,150	24,023	21,908	-	-	145	158	-	26
Maine N.H.	15 37	49 25	1,626 1,338	1,571 1,243	N	N	18 27	18 18	-	2
vt.	14	14	806	831	-	-	21	28	-	-
Mass. R.I.	343 109	476 82	10,824 2,676	8,742 2,327	-	-	49 4	68 12	-	12 4
Conn.	463	504	6,753	7,194	N	N	26	14	-	8
MID. ATLANTIC	6,925	8,025	83,882	84,075	-	-	371	334	11	218
Upstate N.Y. N.Y. City	724 3,949	740 4,369	17,556 25,829	15,494 27,264	N	N	99 82	96 97	1 2	- 56
N.J.	1,140	1,259	12,318	12,471			25	14	1	21
Pa.	1,112	1,657	28,179	28,846	N	N	165	127	7	141
E.N. CENTRAL Ohio	2,742 525	3,195 640	115,962 26,211	123,068 34,281	14 N	7 N	760 194	819 117	52 7	150 84
nd.	300	428	14,534	13,596	N	N	77	77	5	15
III. Mich.	1,290 493	1,472 509	32,418 29,066	37,660 23,918	14	7	69 130	83 107	28 8	30 14
Nis.	134	146	13,733	13,613	-	-	290	435	4	7
W.N. CENTRAL	641	631	42,224	39,191	5	2	295	473	75	690
Minn. Iowa	152 50	123 67	7,213 5,293	8,476 4,003	N N	N N	105 68	128 97	13 10	48 80
Mo.	277	304	16,601	14,242	3	1	56	37	24	36
N. Dak. S. Dak.	14 8	3 8	1,229 2,001	1,234 2,027	N -	N -	10 33	11 35	2 5	94 151
Nebr.**	41	42	4,046	3,667	2	1	23	19	2	192
Kans.	99	84	5,841	5,542	N	N	-	146	19	89
S. ATLANTIC Del.	9,492 121	9,302 183	136,479 2,289	127,227 2,333	N	4 N	428	289 4	55 -	178 11
Md.	1,252	1,147	14,931	12,894	-	4	14	20	6	48
D.C. √a.	621 513	807 699	2,572 17,814	2,442 14,965	-	-	12 49	9 36	1 4	3 19
N. Va.	67	71	2,238	2,067	N	N	4	4	-	1
N.C. S.C.**	482 535	886 615	22,926 15,847	19,961 11,558	N -	N -	65 15	37 7	3	16 2
Ga.	1,327	1,499	25,317	28,032	- N	- NI	160	94	11	23
Fla.	4,574	3,395	32,545	32,975	N	N	109	78 406	30	55 85
E.S. CENTRAL Ky.	1,528 187	1,491 141	44,330 4,494	43,953 6,407	4 N	1 N	106 37	106 21	46 1	85 11
Tenn.**	617	644	17,528	15,995	N	N	28	34	9	21
Ala.** Miss.	360 364	344 362	9,273 13,035	11,578 9,973	4	1	20 21	41 10	13 23	25 28
W.S. CENTRAL	3,581	3,354	85,233	83,440	2	-	73	90	151	585
Ark. La.	174 719	146 444	5,763 17,750	6,228 15.659	1 1	-	14 3	16 3	12 55	23 84
Okla.	154	162	8,679	9,268	Ń	N	17	12	9	56
Гех.**	2,534	2,602	53,041	52,285	-	-	39	59	75	422
MOUNTAIN Mont.	1,178 6	1,248 11	38,435 1,756	38,120 1,500	2,912 N	1,918 N	141 34	112 17	229 1	870 75
daho	15	21	2,192	1,919	N	N	23	26	-	-
Vyo. Colo.	16 257	5 313	830 9,447	763 10,191	2 N	1 N	3 47	4 29	2 39	92 620
N. Mex.	152	96	4,333	5,874	18	7	11	9	29	74
Ariz. Jtah	437 53	534 52	12,692 2,834	10,489 2,942	2,809 32	1,872 7	17 4	5 15	128 5	7
Nev.	242	216	4,351	4,442	51	31	2	7	25	2
PACIFIC	4,052	5,304	115,041	115,955	1,589	952	252	304	142	2
Nash. Oreg.	313 239	365 202	13,801 6,548	12,992 5,834	N -	N -	36 29	43 35	-	-
Calif.	3,357	4,640	87,698	89,878	1,589	952	185	225	142	2
Alaska Hawaii	39 104	15 82	2,914 4,080	2,993 4,258	-	-	2	1 -	-	-
Guam	2	5	-,000	493	_	_	-	_	-	_
P.R.	595	851	2,701	1,970	N	N	N	N	-	-
V.I. Amer. Samoa	10 U	29 U	143 U	331 U	U	- U	Ū	U	- U	- U
C.N.M.I.	2	Ŭ	32	Ü	-	Ŭ	-	Ŭ	-	Ü

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

\* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

† Chlamydia refers to genital infections caused by *C. trachomatis*.

§ Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

† Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update September 26, 2004.

\*\* Contains data reported through National Electronic Disease Surveillance System (NEDSS)

<sup>\*\*</sup> Contains data reported through National Electronic Disease Surveillance System (NEDSS).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 16, 2004, and October 11, 2003 (41st Week)\*

(41st Week)*										
		Escher	<del></del>	rohemorrhagio	·					
			1	in positive,	Shiga toxi		01			
	Cum.	7:H7 Cum.	Serogrou Cum.	Cum.	not sero	Grouped Cum.	Cum.	liasis Cum.	Cum.	Cum.
Reporting area	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003
UNITED STATES	1,874	1,970	182	189	130	126	13,592	14,787	242,632	258,797
NEW ENGLAND	125	124	43	35	16	12	1,279	1,206	5,619	5,716
Maine	10	10	-	-	-	-	103	145	179	152
N.H. Vt.	15 10	15 15	5	3	-	-	32 136	30 96	98 67	95 68
Mass.	53	53	13	8	16	12	584	608	2,553	2,275
R.I. Conn.	8 29	1 30	1 24	24	-	-	101 323	84 243	666 2,056	768 2,358
MID. ATLANTIC	221	205	26	18	28	31	2,928	2,960	26,876	32,294
Upstate N.Y.	101	73	13	9	12	15	1,047	804	5,646	6,043
N.Y. City N.J.	32 32	7 29	4	2	5	-	782 298	960 404	8,138 4,796	10,704 6,406
Pa.	56	96	9	7	11	16	801	792	8,296	9,141
E.N. CENTRAL	340	461	35	28	24	16	1,913	2,561	48,366	54,933
Ohio Ind.	81 47	86 70	10	15	18	16 -	647	709 -	13,395 5,300	18,071 5,248
III.	49	107	1	2	1_	-	338	760	14,181	16,969
Mich. Wis.	69 94	73 125	7 17	- 11	5	-	565 363	595 497	11,970 3,520	10,205 4,440
W.N. CENTRAL	388	333	25	39	14	18	1,449	1,592	13,405	13,673
Minn.	101	113	13	17	1	1	590	579	2,262	2,358
Iowa Mo.	115 67	76 66	- 11	- 12	7	- 1	237 420	221 407	938 7,090	1,007 6,802
N. Dak.	13	10	-	4	6	7	20	32	7,090 87	67
S. Dak.	30	22	- 1	4	-	-	50	61	223	170
Nebr. Kans.	60 2	21 25	-	2	-	9	114 18	112 180	811 1,994	1,225 2,044
S. ATLANTIC	139	119	30	37	37	34	2,196	2,112	61,811	63,366
Del.	2	7	N	N	N	N	39	39	708	901
Md. D.C.	20 1	12 1	3	3	1 -	1 -	86 52	89 37	6,391 1,951	6,114 1,935
Va.	31	32	10	10	-	-	400	266	7,007	6,986
W. Va. N.C.	2	3	-	-	25	26	28 N	33 N	747 12,189	687 11,510
S.C.	7	1	-	-	-	-	51	119	7,741	6,822
Ga. Fla.	20 56	25 38	11 6	5 19	- 11	7	647 893	689 840	11,100 13,977	13,890 14,521
E.S. CENTRAL	73	68	3	2	9	5	309	300	19,286	21,961
Ky.	22	23	2	2	6	5	N	N	2,030	2,847
Tenn. Ala.	31 13	29 12	1	-	3	-	158 151	133 167	6,579 5,638	6,645 7,399
Miss.	7	4	-	-	-	-	-	-	5,039	5,070
W.S. CENTRAL	63	73	2	4	2	4	253	236	32,812	34,587
Ark.	11	9	1	-	-	-	97	124	2,884	3,312
La. Okla.	3 16	3 22	-	-	-	-	36 116	9 103	8,286 3,689	9,024 3,791
Tex.	33	39	1	4	2	4	4	-	17,953	18,460
MOUNTAIN	203	245	17	23	-	6	1,201	1,259	8,339	8,224
Mont. Idaho	14 43	13 58	9	- 15	-	-	59 143	86 163	51 73	84 58
Wyo.	8	2	1	-	-	-	21	20	48	33
Colo. N. Mex.	44 9	57 10	2 2	3 4	-	6	416 55	363 42	2,077 603	2,288 958
Ariz.	20	28	N	Ň	N	N	140	201	3,076	2,922
Utah Nev.	46 19	56 21	2 1	1	-	-	268 99	273 111	442 1,969	295 1,586
PACIFIC	322	342	1	3	_	_	2,064	2,561	26,118	24,043
Wash.	121	89	-	1	-	-	296	278	2,112	2,179
Oreg. Calif.	58 134	89 154	1	2	-	-	360 1,278	340 1,803	954 21,655	795 19,704
Alaska	1	4	-	-	-	-	67	71	436	434
Hawaii	8	6	-	-	-	-	63	69	961	931
Guam	N	N	-	-	-	-	- 0 <i>E</i>	2	-	53
P.R. V.I.	-	1 -	-	-	-	-	85 -	224	202 49	210 70
Amer. Samoa	U	U	U	U	U	U	U	U	U	U
C.N.M.I.	-	U	-	U		U	-	U	3	U

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

\* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending October 16, 2004, and October 11, 2003 (41st Week)\*

(41st Week)*		Haemophilus influenzae, invasive									
	All	ages		- Taomopimae		years			<b>→</b> `	atitis te), by type	
		rotypes	Serot	ype b		rotype b	Unknown	serotype		A	
Departing area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	
Reporting area UNITED STATES	1,440	1,486	10	2003	78	93	141	164	4,334	5,432	
NEW ENGLAND	124	106	1	2	5	5	3	3	837	256	
Maine	12	4	-	-	-	-	-	1	11	11	
N.H. Vt.	16 6	12 7	-	1 -	2	-	1	-	17 8	15 6	
Mass. R.I.	50 3	49 6	1	1	-	5	2	1 1	720 20	140 12	
Conn.	37	28	-	-	3	-	-	-	61	72	
MID. ATLANTIC	297	319	-	1	4	3	32	40	508	1,040	
Upstate N.Y. N.Y. City	98 60	115 55	-	1 -	4	3	5 11	8 11	80 198	99 367	
N.J.	61	57	-	-	-	-	3	8	101	175	
Pa.	78	92	-	-	-	-	13	13	129	399	
E.N. CENTRAL Ohio	222 83	248 59	-	3	6 2	4	34 14	45 11	445 40	510 95	
Ind.	40 50	41 89	-	-	4	-	1	5 20	85	54 153	
III. Mich.	18	21	-	3	-	4	11 6	1	154 125	166	
Wis.	31	38	-	-	-	-	2	8	41	42	
W.N. CENTRAL Minn.	80 40	91 37	2 1	1	3 3	7 7	8 1	12 2	124 31	142 37	
Iowa	1	-	1	-	-	-	-	-	41	24	
Mo. N. Dak.	28 3	35 2	-	-	-	-	6	9	37 1	44	
S. Dak.	-	1	-	-	-	-	-	-	3	-	
Nebr. Kans.	8 -	2 14	-	-	-	-	1 -	1	10 1	12 25	
S. ATLANTIC	364	323	-	1	21	13	29	18	849	1,366	
Del. Md.	- 50	- 74	-	-	4	- 5	-	- 1	5 90	7 136	
D.C.	-	1	-	-	-	-	-	-	7	31	
Va. W. Va.	30 14	40 14	-	-	1	-	1 3	5	102 6	76 13	
N.C.	46	36	-	-	6	3	1	2	77	74	
S.C. Ga.	4 123	5 60	-	-	-	-	22	1 6	24 304	34 655	
Fla.	97	93	-	1	10	5	2	3	234	340	
E.S. CENTRAL Ky.	59 5	69 6	1	1	-	3 2	8	8	137 29	225 28	
Tenn.	38	40	-	-	-	1	6	5	79	161	
Ala. Miss.	13 3	21 2	1	1 -	-	-	2	3	7 22	22 14	
W.S. CENTRAL	60	68	1	2	7	10	1	4	314	519	
Ark.	2	6	-	-	-	1	-	-	54	25	
La. Okla.	11 46	20 39	-	-	7	2 7	1 -	4 -	40 19	39 13	
Tex.	1	3	1	2	-	-	-	-	201	442	
MOUNTAIN Mont.	160	136	3	6	24	22	19	15	379 5	392 8	
Idaho	5	4	-	-	-	-	2	1	19	12	
Wyo. Colo.	1 40	1 31	-	-	-	-	1 5	6	5 45	1 58	
N. Mex.	31	15	-	-	7	4	5	1	18	18	
Ariz. Utah	59 12	64 11	2	6	12 2	9 5	2 3	4 3	230 45	219 31	
Nev.	12	10	1	-	3	4	1	-	12	45	
PACIFIC Wash.	74 3	126 10	2 2	4	8	26 6	7 1	19 3	741 50	982 51	
Oreg.	38	32	-	-	-	-	3	2	58	49	
Calif. Alaska	21 4	55 18	-	4 -	8 -	20	1 1	9 5	607 5	863 8	
Hawaii	8	11	-	-	-	-	1	-	21	11	
Guam	-	-	-	-	-	-	-	-	-	2	
P.R. V.I.	-	-	-	-	-	-	-	-	20	62	
Amer. Samoa C.N.M.I.	U	U U	U	U U	U -	U U	U	U U	U -	U U	
N: Not notifiable.	U: Unavailable.		orted cases.	<u> </u>	-	- 0	-	<u> </u>	-		

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

\* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 16, 2004, and October 11, 2003 (41st Week)\*

(41st Week)*	Hepatitis (viral, acute), by type				1		1			
	Cum.	Cum.	Cum.	Cum.	Legior Cum.	nellosis Cum.	Lister Cum.	iosis Cum.	Lyme d Cum.	Sease Cum.
Reporting area	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003
UNITED STATES	4,918	5,537	682	835	1,432	1,697	498	540	13,770	16,852
NEW ENGLAND Maine	279 2	283 1	9	7	45 -	91 2	31 6	38 6	1,928 53	3,212 131
N.H.	30	13	-	-	7	8	3	3	173	139
Vt. Mass.	5 159	4 187	4 4	7	4 6	5 47	5	15	43 619	37 1,399
R.I. Conn.	5 78	11 67	- 1	-	13 15	13 16	1 15	- 14	175 865	434 1,072
MID. ATLANTIC	963	603	120	98	411	502	121	112	9,303	11,242
Upstate N.Y.	73	74	14	13	85	123	39	28	3,117	3,735
N.Y. City N.J.	89 563	158 145	-	-	41 75	57 74	16 20	20 22	2,566	186 2,596
Pa.	238	226	106	85	210	248	46	42	3,620	4,725
E.N. CENTRAL	444	408	91	125	386	349	83	70	788	840
Ohio Ind.	100 34	110 28	5 7	7 7	184 65	184 25	37 16	19 6	58 15	57 19
III.	71	52	12	18	18	39	5	18	1	65
Mich. Wis.	216 23	181 37	67 -	88 5	112 7	84 17	22 3	18 9	28 686	6 693
W.N. CENTRAL	241	254	41	178	39	57	11	13	440	316
Minn. Iowa	41 13	29 10	16	7 1	7 4	3 9	3 1	3	347 39	213 47
Mo.	154	173	25	168	21	28	5	6	47	49
N. Dak. S. Dak.	4	2 2	-	-	2 3	1 2	-	-	-	- 1
Nebr.	29	23	-	2	1	5	2	3	7	2
Kans.	-	15	-	-	1	9	-	1	-	4
S. ATLANTIC Del.	1,527 28	1,595 6	136	125	303 12	439 24	88 N	111 N	1,107 137	1,006 174
Md.	125	103	14	7	59 8	111	14	22 1	647	596
D.C. Va.	15 206	9 140	1 16	7	41	14 79	14	9	8 121	5 77
W. Va. N.C.	33 138	25 131	20 10	2 11	6 29	15 34	3 16	6 16	21 97	19 85
S.C.	65	140	6	24	3	7	3	4	12	8
Ga. Fla.	530 387	544 497	15 54	12 62	36 109	31 124	16 22	28 25	12 52	10 32
E.S. CENTRAL	359	366	82	66	76	89	20	25	43	53
Ky.	58	54	23	12	33	37	4	6	14	11
Tenn. Ala.	168 59	157 78	35 4	15 5	29 11	29 18	10 4	7 10	17 3	15 8
Miss.	74	77	20	34	3	5	2	2	9	19
W.S. CENTRAL Ark.	209 58	874 66	103 2	140 3	54	60 2	30 2	42 1	55 8	87
La.	52	102	58	92	4	1	3	2	4	6
Okla. Tex.	47 52	46 660	3 40	2 43	5 45	6 51	25	2 37	43	- 81
MOUNTAIN	384	474	40	40	69	54	22	31	29	14
Mont.	2	13	2	1	2	4	-	2	-	-
Idaho Wyo.	10 7	7 27	2	-	, 5	3 2	1 -	2	6 3	3 2
Colo. N. Mex.	46 11	66 32	8 7	9	17 4	9 2	11	9 2	3 1	- 1
Ariz.	208	219	5	7	11	10	-	10	6	3
Utah Nev.	38 62	38 72	4 12	22	19 4	18 6	2 8	2 4	10	2 3
PACIFIC	512	680	60	56	49	56	92	98	77	82
Wash.	41	61	20	17	10	8	9	6	13	3
Oreg. Calif.	95 352	90 504	14 23	11 26	N 39	N 48	5 74	4 83	28 34	13 63
Alaska Hawaii	14 10	4 21	3	2	-	-	- 4	5	2 N	3 N
Guam	-	9	-	3	-	-	-	-	-	-
P.R.	44	98	-	-	1	-	-	-	N	N
V.I. Amer. Samoa	- U	- U	- U	- U	U	Ū	- U	Ū	- U	- U
C.N.M.I.	-	Ŭ	-	ŭ	-	Ŭ	-	Ŭ	-	Ŭ

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

\* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending October 16, 2004, and October 11, 2003 (41st Week)\*

(41st Week)*			Menina	ococcal	T		Ι		Rocky I	/lountain
		laria	dise	ease	Pertu			, animal	spotte	d fever
Reporting area	Cum. 2004	Cum. 2003								
UNITED STATES	987	1,039	1,020	1,321	11,131	6,761	4,381	5,662	1,145	715
NEW ENGLAND Maine	60 6	55 2	53 9	60 6	1,254 2	969 12	528 38	482 59	18	7
N.H.	5	6	4 2	3 2	56	77	22	21	-	-
Vt. Mass.	4 28	2 26	31	36	61 1,092	60 756	31 223	29 172	15	7
R.I. Conn.	4 13	2 17	1 6	2 11	31 12	16 48	30 184	58 143	1 2	-
MID. ATLANTIC	237	277	129	160	2,286	784	467	751	75	39
Upstate N.Y. N.Y. City	39 107	45 148	29 23	40 37	1,585 128	354 111	433 5	347 6	3 19	13
N.J. Pa.	50 41	53 31	31 46	20 63	188 385	118 201	29	62 336	27 26	16 10
E.N. CENTRAL	90	89	145	207	2,429	690	137	147	26	19
Ohio Ind.	27 14	17 2	58 23	51 38	464 125	209 54	66 10	49 23	15 5	8 1
III. Mich.	21 18	37 23	12 41	56 37	319 219	67 92	43 16	23 39	2 4	5 5
Wis.	10	10	11	25	1,302	268	2	13	-	-
W.N. CENTRAL Minn.	52 25	41 20	62 22	106 25	1,385 276	350 132	336 75	563 30	104	58 1
Iowa Mo.	3 17	5 5	14 18	23 39	99 251	103 65	92 51	93 34	- 88	2 47
N. Dak.	3 1	1	2 2	1	686	6	51	48	- 4	-
S. Dak. Nebr.	3	2	4	1	20 33	3	10 53	116 91	12	4 3
Kans. S. ATLANTIC	- 261	8 261	- 191	11 230	20 532	33 518	4 1,540	151 2,198	- 562	1 419
Del.	6	2	4	8	8	7	9	43	4	1
Md. D.C.	52 11	61 13	10 4	24 5	94 3	71 2	157	287	54 -	94 1
Va. W. Va.	36 1	31 4	16 5	22 5	163 17	87 16	399 52	433 72	24 4	27 5
N.C. S.C.	17 9	20 3	26 11	30 20	67 42	108 101	506 125	663 192	386 17	195 27
Ga. Fla.	54 75	58 69	20 95	27 89	31 107	29 97	290	320 188	55 18	61 8
E.S. CENTRAL	27	26	51	69	229	129	119	180	164	110
Ky. Tenn.	4 7	7 5	9 15	16 18	56 135	41 60	20 36	31 96	2 89	1 59
Ala. Miss.	11 5	7 7	14 13	18 17	26 12	17 11	53 10	52 1	40 33	20 30
W.S. CENTRAL	93	106	94	147	580	588	919	983	166	54
Ark. La.	7 4	4 4	14 32	13 36	55 10	41 10	43	25 2	86 5	-
Okla. Tex.	7 75	4 94	8 40	14 84	33 482	66 471	90 786	166 790	70 5	40 14
MOUNTAIN	38	34	56	68	1,161	783	191	162	25	8
Mont. Idaho	- 1	- 1	3 6	4 6	40 34	5 68	22 7	20 15	3 4	1 2
Wyo. Colo.	13	1 19	3 13	2 19	28 565	123 269	5 42	6 38	4 2	2
N. Mex.	2	1	7	8	125	61	4	5	2	-
Ariz. Utah	10 7	7 4	12 5	21	190 149	118 106	100 8	60 14	2 8	1
Nev.	5 120	1	7	8	30 1 275	33	3	4	-	-
PACIFIC Wash.	129 16	150 21	239 28	274 26	1,275 577	1,950 580	144	196	5	1 -
Oreg. Calif.	15 94	9 113	53 149	48 182	337 333	391 963	6 130	6 182	3 2	1
Alaska Hawaii	1 3	1 6	3 6	7 11	9 19	7 9	8 -	8 -	-	-
Guam	-	1	-	-	-	1	-	-	-	-
P.R. V.I.	-	1 -	5 -	9	4	2	46	64	N -	N -
Amer. Samoa C.N.M.I.	U	U U								
O.IN.IVI.I.		<u> </u>		<u> </u>		<u> </u>		<u> </u>		

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

\* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending October 16, 2004, and October 11, 2003 (41st Week)\*

(41st Week)*	<u></u>				, , , , , , , , , , , , , , , , , , ,					
					Streptococc	al disease	Stre Drug re	ptococcus pne sistant	<i>umoniae</i> , inv	asive
	Salmor	nellosis	Shige	llosis	invasive,		all a		Age <	5 years
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	30,902	33,890	8,976	18,481	3,674	4,663	1,744	1,600	531	546
NEW ENGLAND	1,680	1,725	239	267	154	401	26	79	55	7
Maine N.H.	77 116	107 122	4 7	6 7	8 16	24 27	2	-	3 N	- N
Vt.	48	60	2	7	8	18	7	6	1	4
Mass. R.I.	969 99	1,009 103	151 18	178 13	105 17	179 11	N 17	N 10	44 7	N 3
Conn.	371	324	57	56	-	142	-	63	Ú	Ü
MID. ATLANTIC	4,435	3,972	938	1,905	600	810	108	104	88	80
Upstate N.Y. N.Y. City	989 1,006	920 1,100	370 305	353 327	199 83	306 118	44 U	55 U	60 U	59 U
N.J.	716	665	179	306	139	154	-	-	6	2
Pa.	1,724	1,287	84	919	179	232	64	49	22	19
E.N. CENTRAL Ohio	3,949 1,064	4,561 1,116	811 141	1,524 257	733 196	1,103 262	382 269	353 231	131 65	240 77
Ind.	467	458	179	128	86	107	113	122	30	24
III. Mich.	1,072 708	1,570 642	251 106	822 209	156 252	278 314	- N	- N	- N	96 N
Wis.	638	775	134	108	43	142	N	N	36	43
W.N. CENTRAL	1,656	2,002	280	626	221	287	16	13	74	59
Minn. Iowa	479 379	451 309	52 61	87 57	126 N	139 N	- N	- N	54 N	42 N
Mo.	519	739	131	302	54	64	11	9	12	2
N. Dak. S. Dak.	37 98	29 97	3 9	6 16	11 15	15 20	- 5	3 1	2	4
Nebr.	127	131	22	78	13	24	-	-	6	5
Kans.	17	246	2	80	2	25	N	N	-	6
S. ATLANTIC Del.	8,722 81	8,297 88	2,190 6	5,596 157	816 3	767 6	925 4	864 1	40 N	17 N
Md.	630	683	112	516	130	188	-	18	29	-
D.C. Va.	50 968	34 830	32 130	64 345	9 63	8 91	5 N	- N	3 N	7 N
W. Va.	172	107	5	-	20	31	90	59	8	10
N.C. S.C.	1,254 765	1,019 604	270 275	825 395	104 37	92 37	N 69	N 123	U N	U N
Ga.	1,587	1,607	552	1,005	261	151	274	195	N	N
Fla.	3,215	3,325	808	2,289	189	163	483	468	N	N
E.S. CENTRAL Ky.	2,063 284	2,349 329	634 58	771 106	184 53	165 41	114 24	116 15	2 N	- N
Tenn.	512	616	317	256	131	124	89	101	N	N
Ala. Miss.	589 678	585 819	213 46	254 155	-	-	- 1	-	N 2	N
W.S. CENTRAL	2,651	5,038	1,994	4,748	226	229	49	62	103	86
Ark.	428	657	57	94	16	6	7	19	8	7
La. Okla.	584 336	741 386	227 380	395 686	2 55	1 72	42 N	43 N	24 36	17 42
Tex.	1,303	3,254	1,330	3,573	153	150	N	N	35	20
MOUNTAIN	1,907	1,780	636	971	423	386	31	5	38	57
Mont. Idaho	172 131	87 144	4 12	2 25	8	1 18	N	N	N	N
Wyo.	46	71	5	6	7	2	9	4	-	-
Colo. N. Mex.	464 209	403 216	133 99	242 194	122 68	110 93	5	-	35 -	44 9
Ariz.	547 201	533	298	406 39	177 38	132 28	N	N	N	N
Utah Nev.	137	179 147	39 46	57	3	2	15 2	1 -	3 -	4 -
PACIFIC	3,839	4,166	1,254	2,073	317	515	93	4	-	-
Wash.	455 348	453 353	92 59	139 192	53 N	56 N	- N	- N	N	N N
Oreg. Calif.	2,704	353 3,136	1,055	1,697	169	356	N N	N N	N N	N N
Alaska	48 284	56 168	5	8 37	- 95	103	- 03	4	N	N
Hawaii Guam	20 <del>4</del>	37	43	33	-	103	93	-	-	-
P.R.	190	521	7	33 25	N	N	N	N	N	N
V.I. Amer. Samoa	- U	- U	- U	- U	- U	- U	Ū	- U	Ū	- U
C.N.M.I.	3	Ü	-	Ü	-	Ü	-	Ü	-	Ü

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

\* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending October 16, 2004, and October 11, 2003 (41st Week)\*

(41st Week)*					T				Variable	
	D. Control	Syphi		9 . 1					Varice	
	Cum.	& secondary Cum.	Con Cum.	genital Cum.	Cum.	culosis Cum.	Cum.	id fever Cum.	(Chicke	npox) Cum.
Reporting area	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003
UNITED STATES	5,763	5,480	268	348	8,004	9,739	224	299	14,146	12,603
NEW ENGLAND Maine	156 2	163 7	4	-	283	335 19	19	25	591 180	2,442 643
N.H.	4	16	3	-	12	11	-	2	-	-
Vt. Mass.	98	103	-	-	180	8 173	13	14	411 -	556 136
R.I.	21	18	-	-	29	42	1	2	-	5
Conn. MID. ATLANTIC	31 759	19 667	1 38	- 54	62 1,579	82 1,744	5 51	7 70	73	1,102 30
Upstate N.Y.	79	31	3	8	197	227	9	12	-	-
N.Y. City N.J.	454 124	374 136	12 22	29 17	787 331	898 341	16 13	34 20	-	-
Pa.	102	126	1	-	264	278	13	4	73	30
E.N. CENTRAL	649	725	48	61	931	909	17	32	4,375	4,247
Ohio Ind.	170 44	165 35	1 8	3 11	155 101	157 101	5	2 4	1,077 -	967
III. Mich.	265 147	303 207	12 27	18 28	415 193	436 165	- 10	16 10	2,906	2,594
Wis.	23	15	-	1	67	50	2	-	392	686
W.N. CENTRAL	125	122	5	4	293	367	8	6	129	42
Minn. Iowa	15 5	37 8	1 -	-	138 29	148 25	4	2 2	- N	- N
Mo.	78	46	2	4	85	97	2	1	5	-
N. Dak. S. Dak.	-	2 2	-	-	3 8	16	-	-	81 43	42
Nebr. Kans.	5 22	5 22	2	-	27 3	16 65	2	1	-	-
S. ATLANTIC	1,497	1,442	39	70	1,520	1,895	39	44	1,864	1,741
Del.	8	5	1	-	-	-	-	-	4	24
Md. D.C.	283 66	249 41	6 1	11 -	189 65	187 -	11 -	9	20	25
Va. W. Va.	83 2	67 2	2	1	189 15	197 16	6	14	479 1,107	475 1,013
N.C.	146	126	9	16	232	245	6	7	N	N
S.C. Ga.	97 253	81 383	6 1	10 13	149 11	127 410	6	- 5	254	204
Fla.	559	488	13	19	670	713	10	9	-	-
E.S. CENTRAL	317	255	17	11	429	525	7	5	-	-
Ky. Tenn.	34 103	30 107	1 8	1 2	87 156	93 179	3 4	2	-	-
Ala. Miss.	138 42	96 22	6 2	6 2	153 33	173 80	-	3	-	-
W.S. CENTRAL	952	720	43	63	749	1,460	14	29	5,159	3,646
Ark.	34	40	-	2	87	71	-	-	-	-
La. Okla.	216 20	120 52	2	1 1	125	116	1	1	46	12
Tex.	682	508	41	59	537	1,273	13	28	5,113	3,634
MOUNTAIN Mont.	283	251 -	45	29	381 4	353 5	6	6	1,955	455 -
Idaho	16	7	2	2	4	8	-	1	-	-
Wyo. Colo.	3 28	- 27	-	3	2 85	3 77	1	3	28 1,498	42
N. Mex. Ariz.	46 154	51 151	1 42	6 18	18 175	38 170	2	2	81	2
Utah	7	5	-	-	33	30	1	-	348	411
Nev.	29	10	-	-	60	22	2	-	-	-
PACIFIC Wash.	1,025 105	1,135 61	29	56 -	1,839 180	2,151 192	63 6	82 3	-	-
Oreg.	24	37	- 28	- 55	65	85	2 49	3 75	-	-
Calif. Alaska	890	1,030 1	-	-	1,472 31	1,738 46	-	-	-	-
Hawaii	6	6	1	1	91	90	6	1	-	-
Guam P.R.	- 112	1 164	- 5	13	60	41 86	-	-	217	114 454
V.I.	4	1	-	-	-	-	-	-	-	-
Amer. Samoa C.N.M.I.	U 2	U U	U -	U U	U 10	U U	U -	U U	U -	U U
N: Not notifiable	LI: Unavailable	· No rone								

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

\* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE III. Deaths in 122 U.S. cities.\* week ending October 16, 2004 (41st Week)

TABLE III. Deaths in 122 U.S. cities,* week ending October 16, 2004 (41st Week)  All causes, by age (years)  All causes, by age (years)															
		All c	causes, b	y age (ye	ars)					All	causes, k	y age (y	ears)		<u> </u>
Reporting Area	All Ages	<u>≥</u> 65	45–64	25–44	1–24	<1	P&I <sup>†</sup> Total	Reporting Area	All Ages	<u>≥</u> 65	45–64	25–44	1–24	<1	P&I <sup>†</sup> Total
NEW ENGLAND	537	383	99	30	13	12	51	S. ATLANTIC	1,068	635	262	103	27	41	59
Boston, Mass. Bridgeport, Conn.	135 20	83 17	29 1	11 1	7	5 1	15 2	Atlanta, Ga. Baltimore, Md.	156 143	82 75	37 41	19 16	6 5	12 6	4 19
Cambridge, Mass.	21	15	3	3	-	-	2	Charlotte, N.C.	82	56	19	4	-	3	4
Fall River, Mass.	26	20	6	-	-	-	3	Jacksonville, Fla.	129	82	30	10	5	2	5
Hartford, Conn.	52	37	11	2	2	-	8	Miami, Fla.	91	49	21	17	1	3	4
Lowell, Mass.	21	18	3	-	-	-	2	Norfolk, Va.	37	21	6	3	2	5	1
Lynn, Mass. New Bedford, Mass.	10 20	9 15	1 3	1	1	-	1 3	Richmond, Va. Savannah, Ga.	54 62	27 50	18 10	6 1	1	2 1	3 3
New Haven, Conn.	35	22	7	3	-	3	3	St. Petersburg, Fla.	U	Ü	Ü	Ü	U	Ü	Ŭ
Providence, R.I.	41	28	10	2	1	-	2	Tampa, Fla.	199	129	43	15	7	5	12
Somerville, Mass.	5	4	7	1 1	-	- 1	- 4	Washington, D.C.	100	53	36	9	-	2	3
Springfield, Mass. Waterbury, Conn.	52 27	43 21	4	2	-	-	2	Wilmington, Del.	15	11	1	3			1
Worcester, Mass.	72	51	14	3	2	2	4	E.S. CENTRAL	841 101	557 64	175	58 8	28 7	23	52
MID. ATLANTIC	2,347	1,664	476	137	34	36	128	Birmingham, Ala. Chattanooga, Tenn.	101	79	18 18	5	3	4 4	9
Albany, N.Y.	65	50	12	2	-	1	2	Knoxville, Tenn.	101	72	19	6	3	1	4
Allentown, Pa.	21	16	3	2	-	-	-	Lexington, Ky.	63	41	14	1	5	2	3
Buffalo, N.Y.	93	70	17	4	1	1	7	Memphis, Tenn.	149	100	28	13	5	3	15
Camden, N.J. Elizabeth, N.J.	16 17	8 13	7 3	1	-	1	1 1	Mobile, Ala. Montgomery, Ala.	100 94	69 62	21 24	8 6	1	2 1	5 6
Erie, Pa.	40	33	6	i 1	-	-	1	Nashville, Tenn.	124	70	33	11	4	6	10
Jersey City, N.J.	40	24	10	5	1	-	-	W.S. CENTRAL	1,467	937	325	128	47	30	78
New York City, N.Y.	1,352	923	301 14	80 7	22	26 4	62	Austin, Tex.	77	45	19	8	2	3	4
Newark, N.J. Paterson, N.J.	52 U	25 U	14 U	Ú	2 U	Ü	1 U	Baton Rouge, La.	61	46	10	5	-	-	-
Philadelphia, Pa.	302	233	49	18	2	-	13	Corpus Christi, Tex.	37	27	8 47	- 10	1	1 7	-
Pittsburgh, Pa.§	30	24	3	2	-	1	2	Dallas, Tex. El Paso, Tex.	179 92	105 63	20	12 9	8	-	9 6
Reading, Pa.	24	19	2	2 6	1 3	2	2	Ft. Worth, Tex.	105	64	24	10	5	2	5
Rochester, N.Y. Schenectady, N.Y.	126 23	90 18	25 4	1	-	-	15 2	Houston, Tex.	350	194	93	43	13	7	23
Scranton, Pa.	27	22	4	-	1	-	3	Little Rock, Ark. New Orleans, La.	72 24	50 24	10	3	3	6	4
Syracuse, N.Y.	40	32	6	1	1	-	8	San Antonio, Tex.	290	196	62	18	12	2	- 17
Trenton, N.J. Utica, N.Y.	20 30	15 25	4 3	1 2	-	-	3	Shreveport, La.	50	32	9	6	1	2	4
Yonkers, N.Y.	29	24	3	2	-	-	5	Tulsa, Okla.	130	91	23	14	2	-	6
E.N. CENTRAL	1,870	1,274	405	111	35	45	131	MOUNTAIN Albuquerque, N.M.	971 117	637 77	208 25	82 8	23 4	21 3	58 7
Akron, Ohio	48 47	33 38	8 7	3 2	1 -	3	4 3	Boise, Idaho	37	26	5	4	2	-	2
Canton, Ohio Chicago, III.	244	36 151	65	15	7	6	3 17	Colo. Springs, Colo.	59	35	17	3	1	3	3
Cincinnati, Ohio	105	63	25	2	6	9	10	Denver, Colo.	104	60 157	25	11	3 3	5	6 9
Cleveland, Ohio	200	130	51	15	3	1	9	Las Vegas, Nev. Ogden, Utah	233 21	157 15	52 4	16 2	-	5	1
Columbus, Ohio	156	108 77	31 17	11	2	4	17 4	Phoenix, Ariz.	121	74	29	14	3	1	13
Dayton, Ohio Detroit, Mich.	104 154	89	49	5 8	4	4	14	Pueblo, Colo.	38	28	. 8	2	-	-	3
Evansville, Ind.	44	34	8	1	1	-	5	Salt Lake City, Utah Tucson, Ariz.	94 147	61 104	17 26	12 10	2 5	2	7 7
Fort Wayne, Ind.	59	43	9	7	-	-	3	· ·							
Gary, Ind. Grand Rapids, Mich.	6 62	4 42	2 9	7	1	3	- 1	PACIFIC Berkeley, Calif.	1,378 11	940 9	298 1	90 1	25	25	104 1
Indianapolis, Ind.	177	112	49	11	-	5	10	Fresno, Calif.	88	62	21	3	2	-	8
Lansing, Mich.	56	42	7	2	5	-	3	Glendale, Calif.	11	10	-	-	-	1	2
Milwaukee, Wis. Peoria, III.	116 60	84 44	23 6	7 5	1 1	1 4	11 5	Honolulu, Hawaii Long Beach, Calif.	73 65	53 46	16 10	3 7	- 1	1 1	7 9
Rockford, III.	50	40	8	1		1	5	Los Angeles, Calif.	190	118	44	17	6	5	11
South Bend, Ind.	44	36	6	1	-	1	3	Pasadena, Calif.	28	23	5	-	-	-	1
Toledo, Ohio	93	69	17	7	-	-	3	Portland, Oreg.	124	88	31	3	2	-	7
Youngstown, Ohio	45	35	8	1	-	1	4	Sacramento, Calif. San Diego, Calif.	167 122	107 85	42 22	13 10	2 1	3 4	10 10
W.N. CENTRAL Des Moines, Iowa	525 29	354 25	112 1	33 2	15 1	11	37 1	San Francisco, Calif.	114	75	27	10	1	1	11
Duluth, Minn.	22	17	2	2	1	-	3	San Jose, Calif.	117	86 12	24	3	3	1	9
Kansas City, Kans.	26	11	9	3	2	1	4	Santa Cruz, Calif. Seattle, Wash.	19 110	12 71	5 21	2 10	4	4	1 11
Kansas City, Mo.	111	70 24	30	6 2	3	2	5	Spokane, Wash.	58	38	15	3	1	1	3
Lincoln, Nebr. Minneapolis, Minn.	30 74	24 44	4 19	5	1	5	2 5	Tacoma, Wash.	81	57	14	5	2	3	3
Omaha, Nebr.	76	56	15	1	3	1	5	TOTAL	11,004¶	7,381	2,360	772	247	244	698
St. Louis, Mo.	35	19	10	4	1	1	2								
St. Paul, Minn. Wichita, Kans.	61 61	43 45	11 11	6 2	3	1	3 7								
monta, Rans.	01	+0	1.1		<u> </u>		- 1	I							

U: Unavailable. -:No reported cases.

\* Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of ≥100,000. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

† Pneumonia and influenza.

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

† Total includes unknown ages.

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