

Weekly

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Childhood Influenza-Vaccination Coverage — United States, 2002–03 Influenza Season

Children aged <2 years are at increased risk for influenzarelated hospitalizations (1-3). Beginning in 2002, the Advisory Committee on Immunization Practices (ACIP) encouraged that, when feasible, all children aged 6-23 months, as well as household contacts and out-of-home caregivers for children aged <2 years, receive influenza vaccinations each influenza season (1). Beginning with the 2004–05 influenza season, ACIP strengthened the encouragement to a recommendation (4). Other children recommended to receive influenza vaccine continue to include those aged 6 months-18 years with certain high-risk medical conditions and those aged 6 months-18 years who are household contacts of persons at high risk for influenza complications (4). This report on childhood influenza-vaccination coverage for the 2002-03 influenza season provides a baseline for the continuing assessment of coverage among children aged 6-23 months. The findings demonstrate that, during the first year of the ACIP encouragement to vaccinate children aged 6-23 months against influenza, vaccination coverage was low, with substantial variability among states and urban areas.

This report is based on data from the 2003 National Immunization Survey (NIS), an ongoing survey that provides estimates of vaccination coverage among noninstitutionalized children aged 19–35 months. Children included in the 2003 NIS were born during January 2000–July 2002. The survey is conducted in all 50 states and 28 selected urban areas (5). In 2003, entire influenza-vaccination histories were obtained for all children.

Two measures of childhood influenza-vaccination coverage are reported: 1) receipt of one or more influenza vaccinations during September–December 2002 and 2) full vaccination (based on ACIP recommendations for 2 doses of influenza vaccine for previously unvaccinated children aged <9 years and 1 dose for previously vaccinated children aged <9 years) (4). Children were considered fully vaccinated if they had 1) received no doses of influenza vaccine before September 1, 2002, but then received 2 doses from September 1 through either the date of interview or January 31, 2003, or 2) received ≥ 1 dose of influenza vaccine before September 1 and then received ≥ 1 dose during September–December 2002. Because children aged <6 months are not eligible for vaccination and because the encouragement (and now the recommendation) calls for vaccination of children aged 6–23 months, analyses for both measures included only those children who were aged 6–23 months during the entire span of September–December 2002.

In the 2003 NIS, the overall response rate for eligible households was 62.7%, and 13,831 children (unweighted) met the age criteria for this assessment. Of these, 7.4% (\pm 0.7) received one or more influenza vaccinations, and 4.4% (\pm 0.5) were fully vaccinated (Table). Substantial variability in influenza coverage was observed among states and selected urban areas. Percentages of children receiving one or more influenza vaccinations ranged from 2.2% (\pm 2.1) in El Paso County, Texas, to 26.6% (\pm 8.0) in Rhode Island.

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Division of Public Health Surveillance and Informatics Notifiable Disease Morbidity and 122 Cities Mortality Data

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Editorial Note: The findings in this report indicate that, during the first season in which ACIP encouraged childhood influenza vaccination, coverage was low and varied substantially among states. These first national estimates of childhood influenza-vaccination coverage provide a baseline for assessing implementation of the pediatric influenza-vaccination program recommended by ACIP.

Coverage estimates for other routinely recommended childhood vaccines also vary across states and urban areas (6). Further study is needed to determine the reason for such variation and to identify useful strategies for increasing annual influenza vaccination among all groups of children (and adults) for whom the vaccine is now recommended (4).

During the 2002-03 influenza season, influenza vaccination of healthy children aged 6-23 months was not yet covered by the Vaccines for Children Program (VFC) and also might not have been covered by the majority of private health plans. The ACIP encouragement rather than full recommendation and the lack of VFC coverage both likely contributed to the low coverage observed during the 2002-03 influenza season. However, beginning with the 2003-04 influenza season, ACIP voted to include in the VFC program annual influenza vaccination for all children aged 6-23 months and for household contacts of children aged <2 years. This expansion of VFC coverage for influenza vaccine enables providers to administer free influenza vaccine to the most vulnerable groups of children (i.e., Medicaid enrollees, uninsured children, American Indian/Alaska Native children, and certain children whose health insurance does not cover the cost of vaccination). More doses of influenza vaccine were produced and available than eventually were used for the 2002-03 influenza season, so problems of inadequate vaccine supply were unlikely to have contributed to the low vaccination coverage during that season.

The vaccination rates described in this report might, in part, reflect implementation of the long-standing recommendation to administer influenza vaccine to children aged ≥ 6 months who have a high-risk condition or who live with a child or adult with a high-risk condition. However, this possibility could not be verified because NIS does not collect information on high-risk medical conditions or household contacts with high-risk conditions. In the United States, an estimated 5.5% of children aged 6–23 months have a high-risk condition for which influenza vaccination is recommended (7). Although national vaccination-coverage data are not available for groups at high risk, studies of specific populations have reported influenza coverage among children at high risk,

	1+	FLU [†]	Fully v	accinated§		1	+FLU	Fully v	accinated
State/Urban area	%	(95% CI [¶])	%	(95% CI)	State/Urban area	%	(95% CI)	%	(95% CI)
United States	7.4	(<u>+</u> 0.7)	4.4	(<u>+</u> 0.5)	Missouri	7.4	(<u>+</u> 3.5)	4.1	(<u>+</u> 2.5)
Alabama	2.5	(<u>+</u> 1.8)	1.2	(<u>+</u> 1.2)	Montana	4.4	(<u>+</u> 3.1)	2.2	(<u>+</u> 2.0)
Jefferson County	3.3	(<u>+</u> 2.8)	1.3	(<u>+</u> 1.9)	Nebraska	16.8	(<u>+</u> 6.1)	10.4	(<u>+</u> 4.8)
Alaska	4.7	(<u>+</u> 3.3)	4.0	(<u>+</u> 3.1)	Nevada	4.8	(<u>+</u> 3.5)	0.8	(<u>+</u> 1.1)
Arizona	4.8	(<u>+</u> 1.8)	2.7	(<u>+</u> 1.3)	New Hampshire	7.7	(<u>+</u> 4.1)	6.8	(<u>+</u> 3.9)
Maricopa County	4.9	(<u>+</u> 2.5)	2.3	(<u>+</u> 1.6)	New Jersey	6.1	(<u>+</u> 4.1)	3.3	(<u>+</u> 3.0)
Arkansas	6.8	(<u>+</u> 6.7)	1.7	(<u>+</u> 1.9)	Newark	4.5	(<u>+</u> 3.0)	2.1	(<u>+</u> 2.2)
California	6.9	(<u>+</u> 2.7)	4.6	(<u>+</u> 2.4)	New Mexico	5.0	(<u>+</u> 3.7)	2.7	(<u>+</u> 3.0)
Los Angeles County	4.0	(<u>+</u> 2.9)	2.1	(<u>+</u> 2.2)	New York	6.0	(<u>+</u> 2.6)	3.6	(<u>+</u> 2.0)
San Diego County	7.0	(<u>+</u> 4.5)	5.6	(<u>+</u> 4.2)	New York City	7.0	(<u>+</u> 4.3)	3.7	(<u>+</u> 3.2)
Santa Clara County	10.0	(<u>+</u> 4.7)	5.9	(<u>+</u> 3.8)	North Carolina	9.8	(<u>+</u> 4.9)	5.4	(<u>+</u> 3.2)
Colorado	13.0	(<u>+</u> 5.4)	8.6	(<u>+</u> 4.4)	North Dakota	14.3	(<u>+</u> 5.5)	9.5	(<u>+</u> 4.3)
Connecticut	11.0	(<u>+</u> 5.3)	8.0	(<u>+</u> 4.1)	Ohio	6.4	(<u>+</u> 3.5)	3.8	(<u>+</u> 2.5)
Delaware	12.6	(<u>+</u> 5.6)	7.4	(<u>+</u> 4.6)	Cuyahoga County	7.3	(<u>+</u> 6.0)	6.6	(<u>+</u> 6.0)
District of Columbia	8.4	(<u>+</u> 4.3)	5.7	(<u>+</u> 3.6)	Franklin County	9.5	(<u>+</u> 5.2)	5.8	(<u>+</u> 4.1)
Florida	5.9	(<u>+</u> 3.0)	3.9	(<u>+</u> 2.7)	Oklahoma	4.1	(<u>+</u> 2.4)	2.0	(<u>+</u> 1.7)
Miami-Dade County	2.7	(<u>+</u> 2.5)	1.9	(<u>+</u> 2.2)	Oregon	6.4	(<u>+</u> 3.9)	5.2	(<u>+</u> 3.6)
Duval County	7.2	(<u>+</u> 4.0)	2.9	(<u>+</u> 2.1)	Pennsylvania	9.9	(<u>+</u> 3.7)	5.8	(<u>+</u> 2.9)
Georgia	4.4	(<u>+</u> 2.5)	2.7	(<u>+</u> 1.5)	Philadelphia	13.1	(<u>+</u> 5.8)	5.5	(<u>+</u> 3.5)
Fulton/DeKalb counties	12.0	(<u>+</u> 5.3)	10.3	(<u>+</u> 5.1)	Rhode Island	26.6	(+8.0)	19.2	(+7.3)
Hawaii	5.8	(<u>+</u> 3.5)	3.8	(<u>+</u> 2.8)	South Carolina	4.6	(<u>+</u> 3.4)	3.9	(<u>+</u> 3.1)
Idaho	5.1	(<u>+</u> 3.7)	3.6	(<u>+</u> 3.4)	South Dakota	14.5	(<u>+</u> 5.9)	10.3	(<u>+</u> 5.1)
Illinois	9.3	(<u>+</u> 3.7)	3.8	(<u>+</u> 2.1)	Tennessee	7.8	(<u>+</u> 3.1)	4.3	(<u>+</u> 2.0)
Chicago	7.3	(<u>+</u> 5.0)	3.0	(<u>+</u> 2.7)	Davidson County	7.9	(<u>+</u> 5.0)	5.8	(<u>+</u> 4.4)
Indiana	5.7	(<u>+</u> 3.1)	4.6	(<u>+</u> 2.9)	Shelby County	6.6	(<u>+</u> 3.0)	3.5	(<u>+</u> 1.9)
Marion County	3.5	(<u>+</u> 3.3)	1.0	(<u>+</u> 1.4)	Texas	5.6	(<u>+</u> 2.1)	2.5	(<u>+</u> 1.1)
lowa	7.3	(<u>+</u> 4.6)	6.3	(<u>+</u> 4.4)	Bexar County	2.8	(<u>+</u> 2.6)	0.6	(<u>+</u> 1.2)
Kansas	9.6	(<u>+</u> 4.8)	7.1	(<u>+</u> 4.3)	City of Houston	4.8	(<u>+</u> 3.0)	2.5	(<u>+</u> 2.4)
Kentucky	4.6	(<u>+</u> 2.6)	3.6	(<u>+</u> 2.3)	Dallas County	13.0	(<u>+</u> 5.1)	6.7	(<u>+</u> 3.8)
Louisiana	7.5	(<u>+</u> 3.5)	1.5	(<u>+</u> 1.2)	El Paso County	2.2	(<u>+</u> 2.1)	1.4	(<u>+</u> 1.7)
Orleans Parish	8.6	(<u>+</u> 5.0)	2.4	(<u>+</u> 2.4)	Utah	8.6	(<u>+</u> 4.9)	5.7	(<u>+</u> 4.1)
Maine	6.0	(<u>+</u> 3.4)	3.8	(<u>+</u> 2.9)	Vermont	9.5	(<u>+</u> 4.7)	6.1	(<u>+</u> 3.8)
Maryland	8.4	(<u>+</u> 3.5)	4.4	(<u>+</u> 2.5)	Virginia	7.5	(<u>+</u> 3.8)	5.4	(<u>+</u> 3.5)
Baltimore	9.4	(<u>+</u> 5.8)	3.2	(<u>+</u> 3.3)	Washington	13.2	(<u>+</u> 4.6)	8.9	(<u>+</u> 4.1)
Massachusetts	7.7	(<u>+</u> 4.1)	6.4	(<u>+</u> 3.8)	King County	17.2	(<u>+</u> 6.8)	12.9	(<u>+</u> 6.2)
Boston	4.8	(<u>+</u> 3.8)	3.6	(<u>+</u> 3.4)	West Virginia	5.4	(<u>+</u> 4.3)	3.6	(<u>+</u> 3.5)
Michigan	3.9	(<u>+</u> 2.4)	2.1	(<u>+</u> 1.7)	Wisconsin	13.8	(<u>+</u> 5.2)	6.2	(<u>+</u> 3.2)
Detroit	5.6	(<u>+</u> 5.2)	0.3	(<u>+</u> 0.4)	Milwaukee County	8.9	(<u>+</u> 4.5)	6.7	(<u>+</u> 3.8)
Minnesota	23.7	(<u>+</u> 7.9)	16.4	(<u>+</u> 6.3)	Wyoming	3.5	(<u>+</u> 2.5)	2.3	(<u>+</u> 2.2)
Mississippi	2.5	(<u>+</u> 2.3)	0.6	(<u>+</u> 1.1)					· /

TABLE. Influenza vaccination-coverage levels among children aged 6-23 months*, by state and selected urban area - National Immunization Survey (NIS), United States, September–December 2002

* N = 13,831 (unweighted). These influenza vaccination-coverage measures represent a subset of children included in the 2003 NIS. Only those children who were aged 6-23 months during the entire period of September-December 2002 are included.

Defined as receipt of one or more influenza vaccinations during September–December 2002.

[§]Children were considered fully vaccinated if they had 1) received no doses of influenza vaccine before September 1, 2002, but then received 2 doses from September 1 through either the date of interview or January 31, 2003, or 2) received >1 dose of influenza vaccine before September 1, 2002, and then received ≥1 dose during September–December 2002. [¶]Confidence interval.

ranging from 7% to 79% (4,8,9). In the 2004 NIS, information on risk status of children aged 19-35 months at the time of interview and of their household contacts is being collected for a subsample of households. Additional mechanisms are needed to assess coverage among children aged >35 months, including those who have one or more high-risk medical conditions or who live with a person at high risk (e.g., a child aged <2 years).

Two decisions made during analysis might have influenced, in opposite directions, the vaccination-coverage estimates. First, analysis was limited to those vaccinations administered during September-December for the 1+ FLU measure and during September 1, 2002-January 31, 2003 (or date of interview if the interview occurred before January 31) for the fully vaccinated measure, although some vaccines might have been administered after these months and would not have

been counted. This approach possibly reduced both measures of influenza-vaccination coverage reported here, particularly the estimate of fully vaccinated children, because difficulty in scheduling and returning for the second dose of influenza vaccine might delay receipt of the second dose until later in the influenza season. Second, measurement of vaccination coverage was restricted to children aged 6-23 months during the entire influenza-vaccination period of September-December. Children in this age group were eligible for vaccination under the ACIP encouragement for the entire period of assessment, so their caregivers and providers each had an equal amount of time to ensure vaccination. Therefore, this sample of children likely has higher vaccination coverage than children who were aged 6-23 months during only a portion of the 4-month vaccination interval, thereby potentially inflating the coverage estimate.

The findings in this report are subject to at least three limitations. First, NIS is a telephone survey; although statistical adjustments compensate for expected differences in coverage in households without telephones, coverage bias might remain. Second, NIS relies on provider-verified vaccination histories; incomplete records and reporting might result in underestimates of coverage. Finally, because of sampling uncertainty and wide confidence intervals for many state and urban-area estimates from NIS, these estimates should be interpreted with caution.

Influenza-vaccination coverage among children aged 6-23 months was low during the first year of the ACIP encouragement. For the 2004–05 influenza season, an ACIP recommendation replaces the encouragement that was in place previously (10); this change is expected to result in increased vaccination coverage. However, substantial work is needed to fully implement this new recommendation for children aged 6-23 months and household contacts of children aged <2 years and to reduce the number of preventable influenza-related hospitalizations among young children (2).

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Alcohol-Attributable Deaths and Years of Potential Life Lost — United States, 2001

Excessive alcohol consumption is the third leading preventable cause of death in the United States (1) and is associated with multiple adverse health consequences, including liver cirrhosis, various cancers, unintentional injuries, and violence. To analyze alcohol-related health impacts, CDC estimated the number of alcohol-attributable deaths (AADs) and years of potential life lost (YPLLs) in the United States during 2001. This report summarizes the results of that analysis, which indicated that approximately 75,766 AADs and 2.3 million YPLLs, or approximately 30 years of life lost on average per AAD, were attributable to excessive alcohol use in 2001. These results emphasize the importance of adopting effective strategies* to reduce excessive drinking, including increasing alcohol excise taxes and screening for alcohol misuse in clinical settings.

Alcohol-Related Disease Impact (ARDI)* software was used to estimate the number of AADs and YPLLs. ARDI estimates AADs by multiplying the number of deaths from a particular alcohol-related condition by its alcohol-attributable fraction (AAF). Certain conditions (e.g., alcoholic cirrhosis of the liver) are, by definition, 100% alcohol attributable. For the majority of the chronic conditions profiled in ARDI, the system calculates AAFs by using relative risk estimates from metaanalyses (2,3) and prevalence data on alcohol use from the Behavioral Risk Factor Surveillance System. For some conditions, especially those with an acute onset (e.g., injuries), ARDI includes direct estimates of AAFs. Direct estimates of AAFs are based on studies assessing the proportion of deaths from a particular condition that occurred at or above a specified blood alcohol concentration (BAC) (4,5). For acute conditions, a death is alcohol attributable if the decedent (or, as in the case of motor-vehicle traffic, a driver or non-occupant) had a BAC of ≥ 0.10 g/dL. AAFs for motor-vehicle-traffic deaths are

^{*}Available at http://www.cdc.gov/alcohol.

o-rig-i-nal: *adj*(ə-'rij-ən-[°]l) 1 : being the first instance or source from which a copy, reproduction, or translation can be made; see also *MMWR*.



know what matters.



obtained from the Fatality Analysis Reporting System (6). YPLLs, a commonly used measure of premature death, are then calculated by multiplying age- and sex-specific AAD estimates by the corresponding estimate of life expectancy. For chronic conditions, AADs and YPLLs were calculated for decedents aged \geq 20 years; for the majority of acute conditions, they were calculated for decedents aged \geq 15 years. However, ARDI also provides estimates of AADs and YPLLs for persons aged <15 years who died from motor-vehicle crashes, child maltreatment, or low birthweight. Consistent with World Health Organization recommendations (7), the harmful and beneficial effects of alcohol use are reported separately.

In 2001, an estimated 75,766 AADs and 2.3 million YPLLs were attributable to the harmful effects of excessive alcohol use (Table). Of the 75,766 deaths, 34,833 (46%) resulted from chronic conditions, and 40,933 (54%) resulted from acute conditions. Overall, 54,847 (72%) of all AADs involved males, and 4,554 (6%) involved persons aged <21 years. Of the deaths among males, 41,202 (75%) involved men aged \geq 35 years; of those deaths, 41,202 (58%) were attributed to chronic conditions. For males and females combined, the leading chronic cause of AADs was alcoholic liver disease (12,201), and the leading acute cause of AADs was injury from motor-vehicle crashes (13,674). In addition, in 2001, an estimated 11 lives were saved because of the potential benefits of excessive alcohol use, all of which were attributable to a reduced risk for death from cholelithiasis (i.e., gall bladder disease).

Of the estimated 2,279,322 YPLLs, 788,005 (35%) resulted from chronic conditions, and 1,491,317 (65%) resulted from acute conditions (Table). Overall, 1,679,414 (74%) of the total YPLLs were among males, and 271,392 (12%) involved persons aged <21 years. Of all YPLLs among males, 973,214 (58%) involved men aged >35 years, of which 53% were attributed to chronic conditions. Deaths from alcoholic liver disease resulted in 316,321 YPLLs, and deaths from motorvehicle–traffic crashes resulted in 579,501 YPLLs.

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Editorial Note: In 2001, excessive alcohol use was responsible for approximately 75,000 preventable deaths and 2.3

million YPLLs in the United States. The majority of these deaths involved males (72%), and the majority of the deaths among males involved those aged \geq 35 years (75%). Approximately half of the total deaths and two thirds of the total YPLLs resulted from acute conditions. Moreover, the BAC level used in this analysis for defining an alcohol-attributable injury death (\geq 0.10 g/dL) is higher than the BAC level used by the National Institute for Alcohol Abuse and Alcoholism (8) to define binge drinking (\geq 0.08 g/dL); as a result, all of the injury deaths were attributable to binge alcohol use (i.e., \geq 5 drinks per occasion for men: \geq 4 drinks per occasion for women).

The findings described in this report are similar to recent estimates of AADs attributable to excessive drinking in the United States (1). In contrast, earlier estimates of alcoholrelated deaths (9) were higher than the estimates in this analysis and other recent estimates (1) because they were calculated by using a different methodology and were based on mortality from all levels of alcohol consumption, not just excessive drinking.

The 2.3 million YPLLs for excessive drinking is approximately half of the total YPLLs that were caused by smoking in 1999, the most recent year for which this estimate is available (10), even though mortality attributable to tobacco use is nearly six times higher than that attributable to excessive drinking. This difference exists because many AADs, particularly those caused by injuries, primarily affect youth and young adults, and deaths attributable to tobacco use are uncommon in this population.

The findings in this report are subject to at least six limitations. First, data on alcohol use, which are used to calculate indirect estimates of AAFs, are based on self-reports and might underestimate the true prevalence of excessive alcohol use because of underreporting of alcohol use by survey respondents and sampling noncoverage. Second, the risk estimates used in ARDI were calculated by using average daily alcohol consumption levels that begin at levels greater than those typically used to define excessive drinking in the United States. Third, deaths among former drinkers, who might have discontinued their drinking because of alcohol-related health problems, are not included in the calculation of AAFs, even though some of these deaths might have been alcohol attributable. Fourth, ARDI does not include estimates of AADs for several conditions (e.g., tuberculosis, pneumonia, and hepatitis C) for which alcohol is believed to be an important risk factor but for which suitable pooled risk estimates were not available. Fifth, ARDI exclusively uses the underlying cause of death from vital statistics to identify alcohol-related conditions and does not consider contributing causes of death that

TABLE. Number of deaths and years of potential life lost (YPLLs) attributable to the harmful effects of excessive alcohol use, by cause and sex — United States, 2001

		Deaths			YPLLs	
Cause	Male	Female	Total	Male	Female	Total
Chronic conditions						
Acute pancreatitis	370	364	734	7,138	6,054	13,192
Alcohol abuse	1,804	517	2,321	50,375	16,433	66,808
Alcohol cardiomyopathy	443	56	499	10,195	1,552	11,747
Alcohol dependence syndrome	2,770	750	3,520	71,782	22,017	93,799
Alcohol polyneuropathy	2,770	0	3,520	86	22,017	86
Alcohol-induced chronic pancreatitis	224	71	295	6,209	2,135	8,344
Alcoholic gastritis	6	2	233	130	46	176
Alcoholic liver disease	8,927	3,274	12,201	221,369	94,952	316,321
	0,927	3,274 0	12,201	49	94,952 0	49
Alcoholic myopathy	2 564	178	742	49 12,609	3,996	49 16,605
Alcoholic psychosis			352	-	-	
Breast cancer	N/A*	352		N/A	6,786	6,786
Cholelithiases	0	0	0	0	0	0
Chronic hepatitis	3	3	6	55	63	119
Chronic pancreatitis	126	106	232	2,608	1,952	4,560
Degeneration of nervous system attributable to alcohol	93	21	114	1,668	486	2,154
Epilepsy	96	81	177	2,912	2,235	5,147
Esophageal cancer	394	53	447	6,213	788	7,000
Esophageal varices	50	21	71	1,063	342	1,405
Fetal alcohol syndrome	3	2	5	210	137	347
Fetus and newborn affected by maternal use of alcohol	0	1	1	0	80	80
Gastroesophageal hemorrhage	19	9	28	301	139	440
Hypertension	632	552	1,184	9,458	6,460	15,918
Ischemic heart disease	635	273	908	8,012	2,898	10,909
Laryngeal cancer	203	30	233	3,146	519	3,665
Liver cancer	518	172	690	8,640	2,633	11,273
Liver cirrhosis, unspecified	3,917	2,802	6,719	80,616	54,528	135,144
Low birthweight, prematurity, and intrauterine growth retardation	96	2,002	146	7,139	3,961	11,100
Oropharyngeal cancer	303	57	360	5,280	889	6,169
	23	14	300	451	298	750
Portal hypertension	23	N/A	233	2,224	298 N/A	2,224
Prostate cancer						
Psoriasis	0	0	0	1	1	2
Spontaneous abortion	N/A	0	0	N/A	0	0
Stroke, hemorrhagic	1,399	290	1,690	22,476	4,592	27,068
Stroke, ischemic	520	191	711	5,331	1,853	7,184
Superventricular cardiac dysrythmia	73	92	165	639	796	1,435
Total [†]	24,448	10,385	34,833	548,386	239,619	788,005
cute conditions						
Air-space transport	122	37	159	3,917	1,404	5,321
Alcohol poisoning	253	78	331	8,798	2,952	11,750
Aspiration	97	99	196	1,865	1,692	3,557
Child maltreatment	100	71	171	7,086	5,386	12,472
Drowning	671	141	812	25,461	4,633	30,093
Excessive blood alcohol concentration	1	141	2	35	4,033	50,095
	2,560	2,206	4,766	41,627	24,288	65,914
Fall injuries			•		-	•
Fire injuries	702	465	1,167	18,991	11,729	30,720
Firearm injuries	113	18	131	4,434	695	5,129
Homicide	5,963	1,692	7,655	262,379	71,543	333,922
Hypothermia	164	83	247	3,692	1,343	5,035
Motor-vehicle–nontraffic injuries	171	33	204	5,712	1,072	6,784
Motor-vehicle-traffic injuries	10,674	3,000	13,674	442,943	136,558	579,501
Occupational and machine injuries	121	6	127	3,467	151	3,619
Injuries from other road vehicle craches	178	53	231	6,139	1,709	7,849
Poisoning (not alcohol)	2,782	1,182	3,964	103,917	45,127	149,043
Suicide	5,617	1,352	6,969	186,568	49,297	235,865
Suicide by and exposure to alcohol	21	5	26	777	231	1,008
Water transport	90	10	100	3,220	454	3,674
Total	30,399	10,534	40,933	1,131,028	360,289	1,491,317
Fotal .	54,847	20,918	75,766	1,679,414	599,908	2,279,322

* Not applicable.

[†] Because of rounding, numbers might not sum to totals.

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Albert Einstein

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might be alcohol related. Finally, age-specific estimates of AAFs were only available for motor-vehicle–traffic deaths, even though alcohol involvement varies by age, particularly for acute conditions.

This analysis illustrates the magnitude of the health consequences of excessive alcohol use in the United States. In addition to estimating the national health effects of alcohol use, ARDI software also can produce state estimates of AADs and YPLLs. Such state-specific analyses are needed because the prevalence of excessive alcohol use, particularly binge drinking, is known to vary substantially by location. State-specific results also can focus discussions of effective public health strategies (e.g., increasing alcohol excise taxes and screening for alcohol misuse in clinical settings) to prevent excessive alcohol use and its adverse health and social consequences.

Acknowledgment

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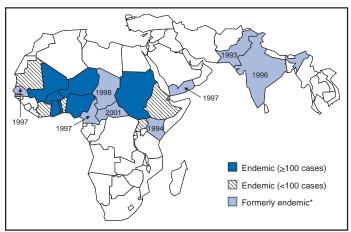
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Progress Toward Global Eradication of Dracunculiasis, 2002–2003

In 1986, when the World Health Assembly adopted a resolution calling for the eradication of dracunculiasis (i.e., Guinea worm disease), an estimated 3.5 million cases occurred in 20 countries, and 120 million persons were at risk for the disease (1). This report describes the status of the global dracunculiasis eradication program (DEP)* as of the end of 2003 (2,3). The findings indicate substantial overall progress towards eradication in 2003 compared with 2002, a major reduction in cases in Sudan, and an increase in cases in Ghana. Further progress will require 1) increased surveillance in all areas in which dracunculiasis is endemic or was previously endemic, 2) access to areas that lack security, and 3) concentrated efforts in Sudan once peace is achieved.

By the end of 2003, annual incidence of dracunculiasis had been reduced >99% from that estimated in 1986, and eight countries in which the disease was previously endemic (Cameroon, Central African Republic, Chad, India, Kenya, Pakistan, Senegal, and Yemen) were free of the disease. Of the remaining 12 countries in which dracunculiasis remains endemic, five reported <100 cases each (Benin, Cote d'Ivoire, Ethiopia, Mauritania, and Uganda) (Figure). During 2002– 2003, the number of cases reported worldwide decreased 41% (from 54,683 to 32,193), and the number of villages reporting \geq 1 case decreased 26% (from 6,255 to 4,659). Of the remaining dracunculiasis cases, 89% were reported in Sudan (63%) and Ghana (26%). Of the 143 cases that were exported from one country to another during 2003, a total of 58 were

FIGURE. Status of dracunculiasis eradication program — worldwide, 2003



* Includes year in which most recent indigenous case was reported.

exported from Ghana, 40 from Sudan, 23 from Mali, eight each from Niger and Togo, four from Nigeria, and two from Cote d'Ivoire (4).

National programs intensified their interventions in most areas during 2003 compared with 2002 (Table). However, the percentage of cases that were reportedly contained in 2003 remained <75% for nine of the 12 countries. A case of dracunculiasis is classified as contained if three conditions are met: 1) the infected person is detected within 24 hours of the emergence of the Guinea worm through the skin, 2) actions (e.g., occlusive bandages, counseling, and care of the patient until the worm is extracted) are taken to prevent the person from contaminating sources of drinking water, and 3) the previous two conditions are confirmed by a health-care provider within 7 days of the occurrence.

Sudan reported 51% fewer cases in 2003 (20,299 cases from 3,407 villages; reporting rate[†]: 66%) than in 2002 (41,493 cases from 4,333 villages; reporting rate[§]: 74%). Sudan's DEP is accessing more villages than ever (approximately 6,200) as a result of the official ceasefire observed since October 2002 as part of peace negotiations to end the civil conflict. This program continues to prepare for intensified activities after a possible peace agreement, but the conflict in southern Sudan remains the greatest impediment to the Sudanese and global eradication campaigns. However, during 2003, the northern states of Sudan reported no indigenous cases for the first time since reporting began, experiencing only imported cases (n = 298) from the south of the country.

Ghana reported 8,290 cases in 2003, a 48% increase compared with 2002 (5,611); of these, 7,879 (95%) were reported in 15 of the country's 110 districts. This increase is attributable to improved surveillance, several unexpected outbreaks, and inadequate interventions in villages where dracunculiasis was known to be endemic during 2002. Increased cases offset substantial reductions in cases in some districts during the latter half of 2003. The top five districts where dracunculiasis is endemic, which reported 26% of all Ghana's cases in 2002, reduced their numbers of cases by 37.5% (from 1,486 to 929) during July–December 2002 and the first 6 months of 2003. However, overall cases in the top 15 districts where dracunculiasis is endemic increased 7.0% during the same period (from 2,327 to 2,491), mainly because of increases in cases of >1,000% in Nkwanta (from 54 to 584) and Savelugu-Nanton (from 15 to 228) districts. During 2002-2003, Ghana reduced by 2% (from 5,611 to 5,508) the number of cases in

^{*} Major program partners include the ministries of health in 20 countries where dracunculiasis is or was endemic, The Carter Center, United Nations Children's Fund (UNICEF), World Health Organization, Bill and Melinda Gates Foundation, other bilateral donors, U.S. Peace Corps, and CDC.

[†] Percentage of villages where dracunculiasis was known to be endemic during 2002–2003 that reported ≥1 indigenous case in 2003.

[§] Percentage of villages where dracunculiasis was known to be endemic during 2001–2002 that reported ≥1 indigenous case in 2002.

			No. of villages/localities	% change s in cases				Villages/Lo	calities			
Country	No. of reported cases (indigenous) in 2003	% of cases contained during 2003	where interventions were applied in 2002 and 2003	where interventions were applied in 2002 and 2003	No. reporting ≥1 cases	No. reporting only imported cases	No. reporting indigenous cases	% reporting monthly*	% with filters in all house- holds*	% using ABATE®*	% with ≥1 sources of safe water*	% provided with health education*
Sudan	20,299	(18)	4,289	(-57)	3,387	0	3,387	(66)	(67)	(2)	(41)	(91)
Ghana	8,285	(59)	1,200	(-2)	975	330	645	(99)	(100)	(39)	(42)	(100)
Nigeria	1,459	(74)	540	(-67)	280	41	239	(100)	(100)	(45)	(68)	(100)
Mali	824	(54)	178	(-39)	187	2	185	(98)	(85)	(13)	(16)	(100)
Togo	622	(74)	232	(-70)	168	97	71	(100)	(92)	(83)	(44)	(100)
Niger	279	(49)	92	(-45)	78	17	61	(100)	(100)	(28)	(6)	(100)
Burkina Faso	175	(59)	133	(-83)	69	31	38	(82)	(100)	(20)	(70)	(100)
Cote d'Ivoire	42	(48)	26	(-93)	12	0	12	(95)	(84)	(67)	(80)	(77)
Benin	26	(100)	31	(-86)	13	4	9	(89)	(100)	(100)	(92)	(100)
Ethiopia	13	(96)	12	(-46)	12	10	2	(100)	(100)	(100)	(25)	(100)
Uganda	13	(73)	18	(-88)	8	9	1	(100)	(100)	(96)	(100)	(100)
Mauritania	13	(77)	18	(-81)	9	0	9	(98)	(100)	(54)	(86)	(100)
Total	32,050	(34)	6,769	(-53)	5,198	541	4,659	(78)	(78)	(17)	(44)	(94)

TABLE. Number of dracunculiasis cases reported, number of villages where dracunculiasis is endemic, and status of interventions against dracunculiasis, by country — worldwide, 2003

*Percentage is based on the number of villages reporting ≥1 indigenous case in 2002 and/or 2003 in each country.

the villages where dracunculiasis is known to be endemic in which authorities intervened in 2002.

During 2002–2003, Nigeria and Togo reduced their indigenous cases by 62% (from 3,820 to 1,459) and 58% (from 1,502 to 669), respectively, and increased reported rates of case containment from 66% to 74% and from 62% to 74%, respectively. In Mali and Niger, where lack of security delayed interventions among nomadic Tuareg populations until late 2001 and late 2002, respectively, cases were reduced by 4% (from 861 to 829) and increased by 20% (from 248 to 293). Lack of security remains a critical limiting factor for the programs in Cote d'Ivoire, Ethiopia, Sudan, and Uganda.

Reported by: World Health Organization Collaborating Center for Research, Training, and Eradication of Dracunculiasis; The Carter Center, Atlanta, Georgia. Div of Parasitic Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: Dracunculiasis is a parasitic infection caused by *Dracunculus medinensis*. Persons become infected by drinking water from ponds contaminated by copepods (water fleas) that contain immature forms of the parasite. One year later, adult worms approximately 1 meter (40 inches) in length emerge through skin lesions, usually on the lower limbs, which frequently develop severe secondary bacterial infections. No effective treatment or vaccine for the disease exists, and infected persons do not become immune to future infections by the parasite. However, dracunculiasis can be prevented by 1) filtering drinking water through a finely woven cloth, 2) treating contaminated water with the larvicide ABATE[®] (temephos), 3) educating persons to avoid entering water sources when Guinea worms are emerging from their bodies, and 4) providing clean water from bore-hole or hand-dug wells (5). The 12 remaining countries where dracunculiasis is endemic made substantial progress toward eradication in 2003, which reflects intensification of interventions in most areas during 2002. Further improvements in public awareness are expected as a result of targeted mass media campaigns in the three countries with the most cases (Ghana, Nigeria, and Sudan).

In September 2003, a joint program review was held at The Carter Center (Atlanta, Georgia) for the three countries. The delegations included senior ministerial representatives and technical leaders of the eradication programs. All 12 countries developed specific programmatic objectives for 2004; improving interventions remains a key objective. Major obstacles to rapid completion of the campaign include 1) ongoing lack of security in areas of western Africa where dracunculiasis is endemic (e.g., Cote d'Ivoire) and 2) limited funding to meet the challenges of eradicating dracunculiasis in postwar Sudan. All countries should implement daily surveillance in communities where dracunculiasis is known to be endemic to ensure detection and containment as soon as any worm begins to emerge. Moreover, all countries in which dracunculiasis is endemic should implement improved surveillance in large areas in which the disease was previously endemic.

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Tuberculosis Transmission in a Renal Dialysis Center — Nevada, 2003

Among persons with chronic renal failure, infection with *Mycobacterium tuberculosis* is more likely to progress to tuberculosis (TB) (1,2). Chronic renal failure is an immunocompromising condition associated with cutaneous anergy, which can result in a false-negative tuberculin skin test (TST) result (3–5). In 2003, a health-care worker (HCW) (i.e., a hemodialysis technician) in an outpatient renal dialysis center in Nevada became ill with pulmonary TB, exposing more than 400 patients and other employees. The HCW had a previous positive TST result but never received treatment for TB infection. This report summarizes the results of a contact investigation, which suggested that the HCW had transmitted *M. tuberculosis* to 29 patients and 13 employees. The findings underscore the need for TB screening and treatment of TB infection for all HCWs and patients at high risk.

Before diagnosis in August 2003, the HCW had experienced 6 weeks of cough, fatigue, and a 14-pound weight loss. Microscopic examination of sputum was 4+ positive for acidfast bacilli (AFB), indicating infectiousness, and sputum culture yielded *M. tuberculosis* susceptible to all first-line anti-TB medications. The HCW was considered infectious for 3 months before TB diagnosis. During the 3-month period, employees and patients in the dialysis center were considered contacts and evaluated. Employee work schedules and patient dialysis schedules were reviewed to quantify the cumulative hours each person had been exposed to the HCW. In September 2003, initial screening of exposed persons included review of medical history, TB symptoms, and previous TST results. Persons without a previous positive TST result received a TST. All dialysis patients were referred for chest radiographs. Persons with TB symptoms or an abnormal chest radiograph submitted sputum for AFB testing and culture. Persons with a negative TST result (<5 mm induration) during initial testing were retested 12 weeks later. TB disease was defined as clinical signs or symptoms of TB with bacteriologic or radiographic confirmation. Latent TB infection (LTBI) was defined as a positive TST result (\geq 5 mm induration) and exclusion of TB disease by chest radiograph and sputum culture. Patients with a positive TST result who either had a previously documented negative TST result within the preceding 12 months or reported not having a previous positive TST were assumed to be recently infected by the HCW.

As of August 2004, a total of 481 contacts had been identified; 48 (10%) were patients from other jurisdictions who had been referred for evaluation by TB-control programs in their jurisdictions. Of the remaining 433 contacts, 95 (22%) were employees, and 291 (67%) were patients of the dialysis center; an additional 47 (11%) were other contacts*. Of the 433 contacts, 333 (77%) were evaluated (Table); 36 (11%) had a previous positive TST result. The remaining 297 contacts received a TST; 48 (16%) had a positive TST result. A total of 41 (12%) of the 333 evaluated contacts reported TB symptoms, but TB disease was excluded by chest radiograph and sputum culture.

The dialysis center employees were assumed to be immunocompetent and used as a surrogate group of contacts to evaluate for evidence of TB transmission. Of the 95 employ-

* Relatives of the HCW, persons who accompanied patients to the dialysis center, and persons with unidentified relationships to the HCW.

		Employees (n = 95)		Patients (n = 291)		Other* (n = 47)		otal 433)
Category	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Total evaluated [†]	80	(84)	212	(73)	41	(87)	333	(77)
Previous positive TST results§	12	(15)	16	(8)	8	(20)	36	(11)
Total tested [¶]	68	(85)	196	(92)	33	(80)	297	(89)
Positive TST result**	13	(19)	29	(15)	6	(18)	48	(16)
Positive TST result on initial test ^{††}	7	(54)	21	(72)	6	(100)	34	(71)
Positive TST result on repeat test§§	6	(46)	8	(28)	0	(0)	14	(29)
TST conversions ^{¶¶}	6	(46)	1	(3)	0	(0)	7	(15)

TABLE. Results of tuberculin skin tests (TSTs) of tuberculosis (TB) contacts at an outpatient renal dialysis center — Nevada, 2003

* Other includes relatives of the health-care worker (HCW) with TB (n = two), persons who accompanied patients to the dialysis center (n = 38), and persons with unidentified relationships to the HCW (n = seven).

[†] Persons who underwent review of medical history, TB symptoms, and previous TST results.

§ Persons evaluated who reported or had a previously documented positive TST result.

 ¶ Persons who received a TST during this contact investigation.

** Persons with a TST result of \geq 5 mm induration.

^{††} Persons who received a TST immediately after TB was diagnosed in the HCW.

§ TST was repeated 12 weeks later on all persons with a negative TST result (<5 mm induration) during the initial screening.

III Documented induration increase of ≥10 mm compared with a routine TST obtained during the 2-year period before the exposure among persons with a positive TST result.

ees identified as contacts, 80 (84%) were evaluated; of these, 12 (15%) had a previously documented positive TST result. The remaining 68 employees received a TST; 13 (19%) had a positive TST result. Employees with positive TST results had chest radiographs that were normal. The 13 employees with a positive TST result were similar to the 55 employees with a negative TST result (i.e., by hours of exposure to the HCW, national origin, race/ethnicity, and age). Six (46%) of the 13 employees with a positive TST result had documented TST conversion (i.e., induration increase of \geq 10 mm compared with a routine TST obtained during the 2-year period before exposure); four worked on the same shift as the HCW.

No routine TB screening program had been conducted for patients at the dialysis center. One patient had a documented negative TST result before the exposure; 16 patients reported a previous positive TST result. Of the 291 patients identified as contacts, 212 (73%) were evaluated; 196 (92%) received a TST. A total of 76 (26%) had chest radiographs; five (7%) had abnormal radiographs, and TB disease was excluded subsequently by sputum culture. A total of 29 (15%) patients had a positive TST result. Patients with a positive TST result were older (median age: 65 years; range: 44–88 years) than those with a negative TST result (median age: 60 years; range: 11–95 years) (p = 0.01, Wilcoxon rank-sum). The median time of exposure to the HCW was the same (16 hours) for patients with positive and negative TST results. Of the 196 patients, 72 (37%) received direct care from the HCW; of these, nine (13%) had a positive TST result. Among the 72 patients, the median time of exposure was not different for those with a positive TST result compared with those with a negative TST result.

Employees with a positive TST result and exposed patients were offered a twice-weekly 9-month regimen of isoniazid. As of September 10, six employees and six patients had completed treatment for LTBI, and two patients had died of unrelated causes while receiving treatment. Two patients are continuing LTBI treatment. No secondary cases have been identified.

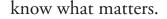
Reported by: L Hickstein, C McPherson, MD, D Kwalick, MD, V DeFriez, R Todd, DrPH, Nevada State Health Div. K Ijaz, MD, I González, MD, M Haddad, MSN, P Tribble, MA, Div of Tuberculosis Elimination, National Center for HIV, STD, and TB Prevention; M Arduino, DrPH, Div of Healthcare Quality Promotion, National Center for Infectious Diseases; S Wei, Div of Applied Public Health Training, Epidemiology Program Office; J Miller, MD, EIS Officer, CDC.

Editorial Note: In this report, TST conversions among six immunocompetent employees suggest that *M. tuberculosis* transmission occurred within the renal dialysis center. Only

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one patient had a previously documented TST result for comparison; therefore, all 29 patients with a positive TST result were considered recently infected. Because exposure duration did not differ between the employees with positive TST results and those with negative TST results, no minimum level of exposure was associated with risk for infection with *M. tuberculosis*.

The findings in this report are subject to at least one limitation. The majority of persons with chronic renal failure have impaired delayed-type hypersensitivity, which might result in false-negative TST results (3–5). The positive TST results from this investigation likely underestimated the true prevalence of LTBI among these patients.

CDC recommends that after a known exposure to infectious TB disease, immunocompromised persons should receive treatment for presumptive LTBI, regardless of TST result (2). LTBI treatment was offered to all patients exposed to the HCW, even if their TST remained negative after repeat screening. However, convincing these high-risk contacts of the benefits of treating LTBI often was unsuccessful even after repeat counseling. Therefore, this investigation fell short of the national health objective for 2010 that 85% of TB contacts and other persons at high risk complete a course of treatment for LTBI (6). Because recently infected contacts are at high risk for having TB disease, the local health department is training the dialysis center employees to detect signs and symptoms of TB disease and ensure that anyone with TB symptoms is identified and treated promptly. If dialysis patients have TB disease diagnosed, maintenance dialysis in airborne isolation is required until they have completed enough anti-TB therapy to demonstrate clinical improvement and have negative *M. tuberculosis* sputum cultures.

TB infection has a higher risk for progression to TB disease among renal dialysis patients because of their older age and immunocompromised status associated with chronic renal failure and other illnesses (7). Studies in New Jersey and California have documented TB disease rates six to 11 times greater among hemodialysis patients than among the overall state populations (8,9). Because these patients spend more time in health-care settings, when *M. tuberculosis* infection progresses to TB disease, they can expose other persons who also are at greater risk for disease. Therefore, despite the limitations of TST in this population, early detection and treatment of LTBI is imperative (2). All dialysis patients should be tested at least once for a baseline TST result and rescreened if TB exposure is detected (2,10).

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West Nile Virus Activity — United States, September 15–21, 2004

During September 15–21, a total of 218 cases of human West Nile virus (WNV) illness were reported from 21 states (Arizona, California, Florida, Illinois, Indiana, Kansas, Maryland, Michigan, Minnesota, Mississippi, Missouri, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, Utah, Wisconsin, and Wyoming).

During 2004, a total of 39 states have reported 1,604 cases of human WNV illness to CDC through ArboNET (Table, Figure). Of these, 507 (32%) cases were reported from California, 355 (22%) from Arizona, and 225 (14%) from Colorado. A total of 897 (58%) of the 1,541 cases for which all data were available occurred in males; the median age of patients was 51 years (range: 1 month–99 years). Illness onset ranged from April 23 to September 14; a total of 48 cases were fatal.

A total of 143 presumptive West Nile viremic blood donors (PVDs) have been reported to ArboNET in 2004. Of these, 51 (36%) were reported from California; 37 (26%) from Arizona; 15 from Texas; 12 from New Mexico; five from Colorado; four from Georgia; three each from Florida, Oklahoma, and South Dakota; two each from Missouri and Wisconsin; and one each from Iowa, Louisiana, Minnesota, Nebraska, North Dakota, and Pennsylvania. Of the 143 PVDs, three persons aged 35, 69, and 77 years subsequently had neuroinvasive illness, and 32 persons (median age: 55 years; range: 17–73 years) subsequently had West Nile fever.

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6

52

6

3

8

7

1,604

State	Neuroinvasive disease [†]	West Nile fevers	Other clinical/ unspecified [¶]	Total reported to CDC**	Deaths
Alabama	9	0	0	9	0
Arizona	122	65	168	355	5
Arkansas	5	6	0	11	0
California	117	181	209	507	15
Colorado	32	193	0	225	2
Connecticut	0	1	0	1	0
Florida	26	5	0	31	1
Georgia	4	3	1	8	0
Idaho	0	0	2	2	0
Illinois	14	14	1	29	1
Indiana	2	0	1	3	1
Iowa	3	4	2	9	1
Kansas	25	0	0	25	1
Kentucky	0	3	0	3	0
Louisiana	30	4	0	34	3
Maryland	4	3	1	8	0
Michigan	5	0	0	5	0
Minnesota	9	13	0	22	2
Mississippi	13	6	1	20	2
Missouri	16	2	1	19	1
Montana	1	3	0	4	0
Nebraska	0	16	0	16	0
Nevada	21	15	0	36	0
New Mexico	22	36	4	62	3
New York	3	2	0	5	0
North Carolin	a 2	0	0	2	0
North Dakota	2	17	0	19	1
Ohio	2	1	0	3	1
Oklahoma	4	1	0	5	1
Oregon	0	1	0	1	0
Pennsylvania	2	2	0	4	0
South Carolir		1	0	1	0
South Dakota	a 5	33	0	38	1
T	-		•	•	•

* As of September 21, 2004.

Tennessee

Texas

Utah

Total

Virginia

Wisconsin

Wyoming

[†] Cases with neurologic manifestations (i.e., West Nile meningitis, West Nile encephalitis, and West Nile myelitis).

§ Cases with no evidence of neuroinvasion.

5

42

4

2

4

2

559

[¶] Illnesses for which sufficient clinical information was not provided.

1

10

2

0

4

4

652

0

0

0

1

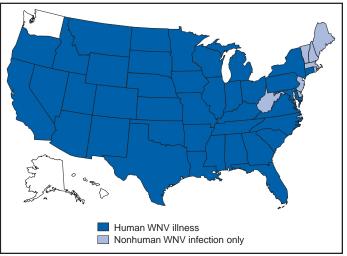
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1

393

Total number of human cases of WNV illness reported to ArboNet by state and local health departments.

In addition, during 2004, a total of 4,188 dead corvids and 987 other dead birds with WNV infection have been reported from 44 states and New York City. WNV infections have been reported in horses from 34 states (Alabama, Arizona, Arkansas, California, Colorado, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Jersey, New Mexico, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, South Dakota, Tennessee, Texas, Utah, Virginia, Wisconsin, FIGURE. Areas reporting West Nile virus (WNV) activity -United States, 2004'



* As of 3 a.m., Mountain Standard Time, September 21, 2004.

West Virginia, and Wyoming) and in five dogs from Nevada and New Mexico. Three squirrels with WNV infection were reported from Arizona. Six unidentified animal species with WNV infection were reported from Arizona, Idaho, Illinois, Iowa, Missouri, and Nevada. WNV seroconversions have been reported in 799 sentinel chicken flocks from 13 states (Alabama, Arizona, Arkansas, California, Delaware, Florida, Iowa, Louisiana, Nebraska, Nevada, Pennsylvania, South Dakota, and Utah) and in seven wild hatchling birds from Missouri and Ohio. Three seropositive sentinel horses were reported from Puerto Rico. A total of 5,707 WNV-positive mosquito pools have been reported from 34 states and New York City.

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.

Outbreak of Cyclosporiasis Associated with Snow Peas — Pennsylvania, 2004

On September 17, this report was posted as an MMWR Early Release on the MMWR website (http://www.cdc.gov/mmwr).

During June–July 2004, public health officials in Pennsylvania were notified of cases of the parasitic disease cyclosporiasis (1,2) among persons associated with a residential facility (e.g., residents, staff, and volunteers). CDC confirmed the diagnosis of Cyclospora cayetanensis infection (1) by examining stool specimens from multiple patients. By early July, local public health officials had been notified of approximately 50 potential cases of cyclosporiasis associated with the facility; onsets of illness were from early June through early July. This report describes the findings of the epidemiologic and traceback investigations, which determined the cases were linked to consumption of raw Guatemalan snow peas at five special events, for which food was prepared by the facility staff, from late May through late June (Table). This is the first documented outbreak of cyclosporiasis linked to snow peas. The Food and Drug Administration (FDA) and CDC are working with Guatemalan officials to determine the sources of the snow peas and possible modes of contamination.

A case of cyclosporiasis was defined as onset of illness 1–14 days after consumption of food or beverages served at one or more of the five special events. Persons with laboratory-confirmed cases had infection confirmed by CDC by examining stool specimens for *Cyclospora* (1), and at least one gastrointestinal (GI) symptom (i.e., diarrhea [loose or watery stool], nausea, vomiting, abdominal cramps, loss of appetite, or unintentional weight loss) or constitutional symptom (i.e., fever, chills, muscle aches, joint aches, generalized body aches, headache, or fatigue). Persons with probable (clinically defined) cases of infection either had 1) three or more loose or watery stools during a 24-hour period and at least one other symptom or 2) five or more symptoms, including at least three GI symptoms.

Of the 349 persons associated with the facility who were in the population potentially at risk for infection, 315 (90%) persons were interviewed to ascertain exposure (e.g., event attendance) and illness status; 215 (68%) of the 315 interviewed had attended at least one event. Of the 215 persons, 96 (45%) had illness that was consistent with one of the case definitions; 40 cases were laboratory confirmed, and 56 were probable. All of the cases were associated with special events (i.e., none were attributable to other meals at the facility, which were prepared by the same staff and in the same kitchen), and each of the five events was associated with laboratoryconfirmed cases. Therefore, the investigation focused on identifying an item served at all five events, but not at other meals. Only pasta salad met these criteria. In addition, pasta salad was the only food item statistically significantly associated with illness in retrospective cohort studies, which were conducted among persons who attended the two most recent events (events D and E) (Table); data for 77 attendees were included in analyses. The summary relative risk for these two events (i.e., for the association between pasta salad and illness) was 32 (95% confidence interval: 5–219; p<0.001). Specifically, 90% (38 of 42) of the persons who ate the salad had cases of cyclosporiasis, compared with 3% (one of 35) of the persons who did not eat the salad. The median incubation periods for illness associated with events D and E were 8 days (range: 1–13 days) and 7 days (range: 1–10 days), respectively.

The pasta salad included multiple types of raw produce, none of which were implicated in investigations of previous outbreaks of cyclosporiasis (1). Of the produce used in the salad (Table), only snow peas met all of the following criteria: 1) were included in all three batches of the salad served at the five events, 2) were from the same "lot" (i.e., from one container, purchased on 1 day, and from one supplier), and 3) were not served at other meals except the five events. Event A on May 31 (Table) was the first occasion in 2004 at which pasta salad or snow peas were served by the facility.

All of the snow peas used by the facility came from the same 4.5-kg container, which was purchased on May 21 and refrigerated thereafter. On June 22, after the last (third) batch of salad was prepared (Table), the residual snow peas were discarded; none were available for testing for *Cyclospora* oocysts or DNA when the investigation was initiated. In an investigation conducted by FDA, the snow peas were traced to an exporter in Guatemala.

The snow peas were handled only on days when batches of salad were prepared (Table). For each batch, a handful of peas (approximately 1 kg) was removed from the container, washed in municipal water, and added to the salad. None of the food handlers who prepared or served the salad had symptoms consistent with cyclosporiasis before the onset of the outbreak or on the days the first two batches were prepared or served (Table). One person who helped prepare the third batch had

TABLE. Characteristics of five special events associated with cases of cyclosporiasis in a residential facility — Pennsylvania, 2004

		Event						
Characteristic	Α	В	С	D	E			
Date of event	May 31	June 3	June 23	June 24	June 24			
No. of batch of pasta salad served*	First	Second	Third	Third	Third			
Date batch prepared	May 29	June 2	June 22	June 22	June 22			
Retrospective cohort study conducted	No	No	No	Yes	Yes			

* Raw produce in the pasta salad, which varied among the batches, included snow peas, Vidalia onions, red peppers, tomatoes, broccoli, celery, green peppers, and carrots. However, Vidalia onions and red peppers were included in only one and two batches, respectively; different types of tomatoes were used in different batches; different "lots" of broccoli and celery, from different suppliers, were used in the various batches; and green peppers and carrots were also served raw at other meals, besides the five events.

a probable case of cyclosporiasis after eating salad from the first two batches.

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Editorial Note: The findings of this investigation indicate that raw Guatemalan snow peas were linked to this outbreak of cyclosporiasis in Pennsylvania. No evidence of ongoing transmission has been obtained, despite heightened surveillance for cases of cyclosporiasis. This is the first investigation in which snow peas have been implicated as the vehicle of an outbreak of cyclosporiasis. Several other types of fresh produce (e.g., raspberries, basil, and mesclun lettuce), from various countries, have previously been implicated as vehicles of U.S. cyclosporiasis outbreaks (1).

FDA and CDC are working with Guatemalan officials to determine the sources of the snow peas (e.g., farms or cooperatives) and possible modes of contamination. The modes of contamination of implicated vehicles have not been definitively determined for any previous foodborne outbreak of cyclosporiasis (I); better understanding of the biology and epidemiology of the parasite is needed. For imported vehicles of infection, international collaboration is critical to the success of investigations and to the identification of appropriate prevention and control measures. Produce should be thoroughly washed before it is eaten. This practice might decrease but not eliminate the risk for transmission of *Cyclospora* (I,3).

Health-care providers should consider the diagnosis of *Cyclospora* infection in persons with prolonged or remittingrelapsing diarrheal illness and specifically request testing of stool specimens for this parasite (*I*); such testing is not routinely conducted by most laboratories. Trimethoprim/ sulfamethoxazole (TMP/SMX) has been shown in a placebocontrolled trial to be effective treatment for *Cyclospora* infection (4). Adults should receive TMP 160 mg plus SMX 800 mg (one double-strength tablet) orally, twice a day for 7 days. Some patients might benefit from longer courses of therapy. Alternative treatments for persons allergic to sulfa drugs have not yet been identified (1).

Newly identified clusters of cases of cyclosporiasis should be investigated to identify the vehicles of infection and their sources and modes of contamination. Although cases of cyclosporiasis are not yet reportable in all U.S. states and territories, such cases are nationally notifiable. Clinicians and laboratorians who identify cases of cyclosporiasis, especially ones unrelated to foreign travel, are encouraged to inform the appropriate local public health officials, who are encouraged to contact CDC's Division of Parasitic Diseases, National Center for Infectious Diseases. To report cases and potential outbreaks, contact CDC, telephone 770-488-7319; for questions about laboratory diagnosis of infection, 770-488-4474; for clinical questions, 770-488-7775. Additional information about cyclosporiasis is available at http://www.cdc.gov/ncidod/ dpd/parasites/cyclospora/default.htm.

Acknowledgments

This report is based in part on contributions by W Ness, MBA, D German, S Leyland, community partners, Pennsylvania. R Klein, PhD, Medical Entomology Research and Training Unit/Guatemala City, Guatemala; C Bern, MD, M Bartlett, Div Parasitic Diseases, National Center for Infectious Diseases, CDC.

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Notice to Readers

Supplemental Recommendations About the Timing of Influenza Vaccination, 2004–05 Season

In early August 2004, discussion with the Food and Drug Administration (FDA) and influenza vaccine manufacturers indicated that production of vaccine for the 2004–05 influenza season was proceeding satisfactorily. However, on August 26, Chiron Corporation announced that, in conducting final internal release procedures for its inactivated influenza vaccine, Fluvirin[®], the company's quality-assurance systems had identified a small number of lots that did not meet product sterility specifications; these lots will not be distributed. In recent discussions with CDC, the company stated that laboratory testing determined the problem was localized. After the company completes its quality-assurance testing, all remaining lots that have met sterility specifications will be available for distribution. Chiron expects to distribute 46–48 million doses during this influenza season, with 42–44 million doses distributed in October and the remaining doses distributed in early November. Total influenza-vaccine production from all manufacturers who will supply the U.S. market during the 2004–05 influenza season is estimated at 100 million doses, which is approximately 13 million more doses than was produced for the 2003–04 influenza season.

CDC is recommending that influenza vaccination proceed for all recommended persons as soon as vaccine is available, recognizing that availability might be limited in early October. Some delay might occur for customers receiving influenzavaccine doses purchased from Chiron, which might result in a need to reschedule planned clinics and other vaccination campaigns. The optimal time to vaccinate against influenza is October and November, and the Advisory Committee on Immunization Practices (ACIP) recommends that persons planning substantial organized vaccination campaigns consider scheduling those events after mid-October because availability of vaccine in any one location cannot be ensured consistently in early fall. Aventis Pasteur, Inc. expects to distribute approximately 52 million doses of inactivated influenza vaccine (Fluzone[®]) this season. MedImmune Vaccines, Inc., expects to distribute approximately 1.5 million doses of live attenuated influenza vaccine (FluMistTM). No delays in the timing of distribution of vaccine from these two manufacturers of influenza vaccine are expected.

The annual preseason assessment of each year's projected vaccine supply was requested by ACIP to help address vaccine shortages first experienced in 2000. The committee recommended that mass vaccination campaigns for the 2000–01 season be delayed until the availability of supply was ensured (1,2). ACIP issued similar recommendations for the 2001–02 influenza season (3) and incorporated into its annual influenza recommendations the possible use of prioritized timing

of vaccine administration when necessary because of vaccine shortages or delays (4). No delays occurred in vaccination campaigns during either the 2002–03 or the 2003–04 (5) seasons.

CDC also will purchase 4.5 million doses of inactivated influenza vaccine, which will be held in a stockpile to ensure sufficient supply in the event of increased demand like that experienced last winter. CDC has legislative authority through the Vaccines for Children program to purchase influenza vaccine for a national stockpile program for children aged \leq 18 years. Additional information about influenza and influenza vaccination is available from CDC at http://www.cdc.gov.

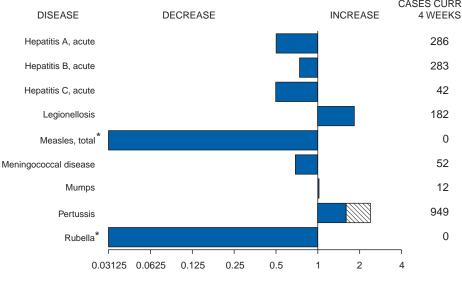
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Erratum: Vol. 53, No. 34

In the report, ("Suspension of Rotavirus Vaccine After Reports of Intussusception — United States, 1999," first paragraph, second sentence, the date for when rhesus-human rotavirus reassortant-tetravalent vaccine was licensed was incorrect. The date should be *August 31, 1998*.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals September 18, 2004, with historical data CASES CURRENT



Ratio (Log scale)[†]

Beyond historical limits

* No Rubella cases were reported for the current 4-week period yielding a ratio for week 37 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.

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending September 18, 2004 (37th Week)*

	Cum. 2004	Cum. 2003		Cum. 2004	Cum. 2003
Anthrax	-	-	Hemolytic uremic syndrome, postdiarrheal [†]	92	108
Botulism:	-	-	HIV infection, pediatric ⁺ [¶]	113	144
foodborne	10	8	Measles, total	23**	51††
infant	52	49	Mumps	142	156
other (wound & unspecified)	7	17	Plague	1	1
Brucellosis [†]	78	68	Poliomyelitis, paralytic	-	-
Chancroid	28	43	Psittacosis [†]	6	9
Cholera	4	1	Q fever [†]	52	54
Cyclosporiasis [†]	187	58	Rabies, human	3	1
Diphtheria	-	-	Rubella	15	6
Ehrlichiosis:	-	-	Rubella, congenital syndrome	-	1
human granulocytic (HGE) [†]	190	231	SARS-associated coronavirus disease ^{† §§}	-	8
human monocytic (HME) [†]	175	175	Smallpox [†] [¶]	-	NA
human, other and unspecified	18	37	Staphylococcus aureus:	-	-
Encephalitis/Meningitis:	-	-	Vancomycin-intermediate (VISA)† 11	4	NA
California serogroup viral ^{†§}	44	91	Vancomycin-resistant (VRSA)† 11	1	NA
eastern equine ^{†§}	2	13	Streptococcal toxic-shock syndrome [†]	79	126
Powassan ^{†§}	-	-	Tetanus	10	14
St. Louis ^{†§}	5	33	Toxic-shock syndrome	92	90
western equine ^{†§}	-	-	Trichinosis	5	1
Hansen disease (leprosy) [†]	61	62	Tularemia [†]	55	60
Hantavirus pulmonary syndrome [†]	16	17	Yellow fever	-	-

-: No reported cases.

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).

¹ Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update August 29, 2004.

Of 23 cases reported, 10 were indigenous, and 13 were imported from another country.

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

So Up a cases reported, si were integenous, and 20 were imported from another assance. ^{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.

Vo	l. 53	/ N	О.	37

	AID	S	Chlam	iydia⁺	Coccidioo	lomycosis	Cryptosp	oridiosis		s/Meningitis t Nile [§]
Reporting area	Cum. 2004 [¶]	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
JNITED STATES	27,094	29,932	617,924	606,309	4,145	2,514	2,231	2,144	556	2,416
NEW ENGLAND	873	989	21,593	19,436	-	-	123	137	-	19
Maine	15	49	1,449	1,397	N	N	16	14	-	-
N.H. /t.	30 13	24 13	1,204 710	1,102 731	-	-	24 21	16 23	-	1
Mass.	289	408	9,630	7,696	-	-	39	61	-	11
R.I.	98	79	2,405	2,086	-	-	4	12	-	2
Conn.	428	416	6,195	6,424	N	Ν	19	11	-	5
MID. ATLANTIC Jpstate N.Y.	5,955 683	6,691 671	76,530 15,724	75,308 13,704	N	N	294 78	274 74	5 1	161
N.Y. City	3,288	3,395	23,537	24,513	-	-	58	78	2	40
N.J.	1,014	1,152	11,389	11,162		-	22	13	-	17
Pa.	970	1,473	25,880	25,929	Ν	N	136	109	2	104
E.N. CENTRAL	2,398	2,918	105,292	109,742	12	7	651	648	27	87
Ohio nd.	487 276	554 378	24,942 12,954	29,986 12,215	N N	N N	179 67	77 62	2 2	49 10
III.	1,126	1,341	28,523	33,840	-	-	69	68	14	16
Mich.	386	509	26,753	21,747	12	7	115	87	5	7
Wis.	123	136	12,120	11,954	-	-	221	354	4	5
W.N. CENTRAL Minn.	597 149	567 110	36,679 6,856	35,084 7,649	5 N	2 N	278 96	326 99	57 9	613 42
lowa	47	63	3,642	3,666	N	N	90 60	99 54	9	42 70
Mo.	263	268	14,376	12,691	3	1	45	25	16	27
N. Dak.	14	3	1,086	1,110	N	N	9	11	2	93
S. Dak. Nebr.**	7 33	8 38	1,788 3,626	1,785 3,251	2	-	23 23	30 10	5	139 176
Kans.	84	77	5,305	4,932	Ň	Ň	22	97	25	66
S. ATLANTIC	8,434	8,476	122,595	114,284	-	3	373	246	38	126
Del.	108	173	2.013	2,123	N	N	-	3	-	7
Md. D.C.	991	989 764	13,463	11,480	-	3	14	15	4	37
Va.	523 481	653	2,237 15,268	2,239 13,452	-	-	11 42	8 32	2	3 14
W.Va.	57	60	2,004	1,792	N	N	4	4	-	1
N.C.	427 509	851 544	20,812	18,594	N	N	55 14	27	2	13
S.C.** Ga.	1,185	544 1,375	14,299 22,933	9,778 25,088	-	-	139	5 86	4	2 13
Fla.	4,153	3,067	29,566	29,738	N	N	94	66	26	36
E.S. CENTRAL	1,336	1,303	40,121	39,544	4	1	95	97	27	66
Ky.	160	111	4,014	5,794	N	N	28	20	-	7
Tenn.** Ala.	533 316	570 310	15,776 8,622	14,359 10,369	N	N	28 18	32 35	5 9	13 21
Miss.	327	312	11,709	9,022	4	1	21	10	13	25
W.S. CENTRAL	3,181	3,086	76,810	75,497	2	-	56	73	81	507
Ark.	134	126	5,180	5,577	1	-	14	9	5	15
La.	655	415	15,926 7,926	14,727	1	-	-	2	30	73
Okla. Tex.**	133 2,259	154 2,391	47,778	8,141 47,052	N	N	16 26	9 53	4 42	39 380
MOUNTAIN	973	1,141	34,406	34,643	2,637	1,677	129	92	204	837
Mont.	5	11	1,574	1,383	2,007 N	N N	34	17	1	73
daho	15	18	1,991	1,768	N	N	19	20	-	-
Nyo. Colo.	15 166	5 295	761 8,262	700 9,119	2 N	1 N	3 43	3 23	2 32	91 601
N. Mex.	140	88	4,212	5,264	13	6		7	22	67
Ariz.	385	484	11,424	9,832	2,553	1,637	17	4	122	3
Jtah Nev.	54 193	47 193	2,416 3,766	2,637 3,940	25 44	6 27	3 2	12 6	4 21	- 2
										2
PACIFIC Wash.	3,347 291	4,761 309	103,898 12,470	102,771 11,469	1,485 N	824 N	232 26	251 25	117	-
Oreg.	219	184	5,778	5,092	-	-	28	29	-	-
Calif.	2,727	4,184	81,075	79,697	1,485	824	176	197	117	-
Alaska Hawaii	37 73	13 71	2,580 1,995	2,711 3,802	-	-	- 2	-	-	-
Guam	2	5	1,000	450			2			
P.R.	403	5 787	2,368	450 1,707	N	N	N	N	-	-
V.I.	10	25	143	288	-	-	-	-		-
Amer. Samoa	U 2	U U	U 32	U U	U	U U	U	U U	U	U U

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending September 18, 2004, and September 13, 2003

N: Not notifiable.

<u>1</u>
 <u>1</u>

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

(37th Week)*										
		Escher	<i>ichia coli</i> , Ente	rohemorrhagio						
			-	in positive,	Shiga toxii					
		57:H7		p non-O157	not sero		Giarc			orrhea
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	1,674	1,624	161	172	113	104	12,118	12,688	217,719	231,265
NEW ENGLAND	111	104	37	32	20	11	1,083	1,010	5,078	4,975
Maine	8	8	-	-	-	-	92	116	164	139
N.H.	14	13	5	3	-	-	27	27	91	85
Vt. Mass.	10 49	13 42	- 10	- 8	20	- 11	121 485	84 500	62 2,267	59 1,956
R.I.	6	1	1	-	-	-	91	82	608	680
Conn.	24	27	21	21	-	-	267	201	1,886	2,056
MID. ATLANTIC	186 87	185 65	22 11	18 9	23 9	24	2,592 917	2,544 670	24,536	29,029
Upstate N.Y. N.Y. City	30	6	-	9	9	11	692	836	5,120 7,526	5,374 9,581
N.J.	29	26	3	2	5	-	263	366	4,369	5,822
Pa.	40	88	8	7	9	13	720	672	7,521	8,252
E.N. CENTRAL Ohio	308 76	370 69	32 9	27 14	17 13	14 14	1,670 568	2,208 607	43,412 12,514	48,873 15,732
Ind.	40	60	9	-	-	- 14	- 506		4,689	4,664
III.	49	75	1	2	1	-	338	666	12,452	15,146
Mich. Wis.	59 84	58 108	5 17	- 11	3	-	489 275	506 429	10,658 3,099	9,343 3,988
W.N. CENTRAL	375	269	25	33	15	16	1,400	1,331	11,688	12,240
Minn.	88	209 94	13	16	15	1	537	495	2,171	2,102
lowa	103	58	-	-	-	-	211	175	649	911
Mo. N. Dak.	62 12	55 8	12	9 3	6 6	1 6	340 18	351 28	6,099 74	6,112 56
S. Dak.	27	17	-	3	-	-	42	49	199	153
Nebr.	56	17	-	2	-	-	102	97	715	1,070
Kans.	27	20	-	-	2	8	150	136	1,781	1,836
S. ATLANTIC Del.	123 2	109 5	26 N	35 N	29 N	25 N	1,959 35	1,819 30	55,427 630	56,889 835
Md.	20	12	3	2	1	1	86	75	5,762	5,426
D.C. Va.	1 27	1 30	- 9	- 9	-	-	45 356	36 236	1,678	1,738 6,276
va. W. Va.	27	3	9	9	-	-	27	230	6,150 665	609
N.C.	-	-	-	-	19	20	N	N	11,035	10,741
S.C. Ga.	6 20	1 22	- 10	- 5	-	-	39 587	84 594	7,007 9,950	5,748 12,423
Fla.	45	35	4	19	9	4	784	736	12,550	13,093
E.S. CENTRAL	69	56	1	1	8	5	255	250	17,454	19,549
Ky.	20	18	1	1	5	5	N	N	1,777	2,555
Tenn. Ala.	30 12	24 11	-	-	3	-	139 116	116 134	5,878 5,265	5,889 6,573
Miss.	7	3	-	-	-	-	-	-	4,534	4,532
W.S. CENTRAL	58	67	2	4	1	4	214	212	29,284	31,192
Ark.	10	8	1	-	-	-	80	111	2,530	2,992
La. Okla.	2 15	3 20	-	-	-	-	31 100	9 92	7,330 3,361	8,346 3,254
Tex.	31	36	1	4	1	4	3	-	16,063	16,600
MOUNTAIN	168	197	14	19	-	5	1,068	1,069	7,313	7,360
Mont.	12	12	- 7	-	-	-	47	75	49	75
ldaho Wyo.	37 6	44 2	1	14	-	-	126 17	133 16	60 44	54 32
Colo.	43	50	2	3	-	5	373	304	1,839	2,035
N. Mex. Ariz.	8 16	9 24	1 N	2 N	N	N	52 136	35 184	574 2,693	867 2,697
Utah	31	38	2	-	-	-	235	231	365	2,097
Nev.	15	18	1	-	-	-	82	91	1,689	1,344
PACIFIC	276	267	2	3	-	-	1,877	2,245	23,527	21,158
Wash. Oreg.	96 50	65 71	- 2	1 2	-	-	248 320	220 298	1,824 808	1,928 671
Calif.	120	125	-	-	-	-	1,199	1,606	19,993	17,353
Alaska	1	2	-	-	-	-	54	58	400	382
Hawaii	9	4	-	-	-	-	56	63	502	824
Guam P.R.	N	N 1	-	-	-	-	- 62	2 195	- 175	47 189
V.I.	-	-	-	-	-	-	-	-	49	62
Amer. Samoa	U	U U	U	U	U	U U	U	U	U	U U
C.N.M.I.	-	U	-	U	-	U	-	U	3	U

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 18, 2004, and September 13, 2003 (37th Week)*

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MMWR

(37th Week)*				Haemophilus	influenzae, inv	asive			Hep	atitis
	Alla	ages		naomophilao	Age <5					te), by type
		rotypes	Serot	ype b	Non-ser	-	Unknown	serotype		A
	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting area	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003
UNITED STATES	1,374	1,361	10	20	67	89	139	146	3,981	4,550
NEW ENGLAND Maine	117 12	97 4	1	2	5	5	3	3 1	740 10	224 8
N.H.	14	11	-	1	2	-	-	-	17	13
Vt. Mass.	5 48	7 45	- 1	- 1	-	- 5	1 2	- 1	8 628	6 123
R.I.	3	5	-	-	-	-	-	1	19	11
Conn.	35	25	-	-	3	-	-	-	58	63
MID. ATLANTIC Upstate N.Y.	278 93	291 104	-	1 1	4 4	3 3	31 5	35 8	458 66	940 83
N.Y. City	59	50	-	-	-	-	11	9	178	341
N.J. Pa.	57 69	56 81	-	-	-	-	3 12	8 10	93 121	152 364
E.N. CENTRAL	216	226	-	3	6	3	34	41	384	437
Ohio	80 38	57 36	-	-	2 4	-	14 1	10 4	38 73	76 44
Ind. III.	50	30 82	-	-	- 4	-	11	4 20	132	44 135
Mich.	17 31	19	-	3	-	3	6 2	1 6	118	143
Wis. W.N. CENTRAL	86	32 86	2	-	- 3	6	2 9	11	23 140	39 129
Minn.	36	34	1	-	3	6	-	2	28	37
lowa Mo.	1 31	- 35	1	-	-	-	- 6	- 9	38 43	19 42
N. Dak.	3	2	-	-	-		-	-	1	42
S. Dak. Nebr.	- 8	1 1	-	-	-	-	- 1	-	3 8	- 10
Kans.	7	13	-	-	-		2		19	21
S. ATLANTIC	346	296	-	1	18	12	27	16	778	1,025
Del. Md.	- 48	- 67	-	-	- 4	- 5	-	-	5 86	6 108
D.C.	-	1	-	-	-	-	-	-	5	29
Va. W.Va.	28 13	39 14	-	-	-	-	1 3	5	92 4	62 12
N.C.	44	32	-	-	5	3	1	1	71	58
S.C. Ga.	4 121	5 53	-	-	-	-	20	1 6	23 277	26 438
Fla.	88	85	-	1	9	4	2	3	215	286
E.S. CENTRAL	57	56	1	1	-	2	7	5	130	126
Ky. Tenn.	5 37	5 31	-	-	-	1 1	- 5	- 3	29 74	23 75
Ala. Miss.	12 3	18 2	1	1	-	-	2	2	6 21	14 14
WISS. W.S. CENTRAL	56	63	-	2	6	10	-	4	283	454
Ark.	2	5	-	-	-	1	-	-	53	23
La. Okla.	10 43	19 36	-	-	- 6	2 7	1	4	31 19	37 9
Tex.	1	3	1	2	-	-	-	-	180	385
MOUNTAIN	152	129	3	6	18	22	21	13	349	348
Mont. Idaho	- 5	- 4	-	-	-	-	- 2	-	5 16	7 11
Wyo.	1	1	-	-	-	-	1	-	4	1
Colo. N. Mex.	38 29	25 15	-	-	- 5	- 4	5 5	5 1	43 16	54 17
Ariz.	56	64	-	6	8	9	4	4	213	194
Utah Nev.	12 11	10 10	2 1	-	2 3	5 4	3 1	2	41 11	24 40
PACIFIC	66	117	2	4	7	26	6	18	719	867
Wash. Oreg.	3 34	9 29	2	-	-	6	1 2	2 2	42 51	43 45
Calif.	17	52	-	4	7	20	2 1	9	603	761
Alaska Hawaii	4 8	18 9	-	-	-	-	1 1	5	5 18	8 10
Guam	-	-	-	-	-	-	-	-	-	2
P.R.	-	-	-	-	-	-	-	-	19	61
V.I. Amer. Samoa	Ū	- U	- U	- U	- U	- U	- U	- U	- U	- U
C.N.M.I.		U	- ortod casos	Ŭ	-	Ŭ	-	Ŭ	-	Ŭ

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 18, 2004, and September 13, 2003

(37th Week)*			acute), by ty		_					
	Cum.	B Cum.	Cum.	Cum.	Legio Cum.	nellosis Cum.	Lister Cum.	iosis Cum.	Lyme di Cum.	sease Cum.
Reporting area	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003
UNITED STATES	4,547	4,922	745	746	1,252	1,438	444	469	11,745	14,861
NEW ENGLAND Maine	250 1	249 1	7	5	36	74 2	26 5	35 6	1,395 53	2,873 106
N.H.	27	12	-	-	5	7	4	3	155	101
Vt. Mass.	3 137	3 161	3 3	5	3 5	5 41	1 3	- 14	39 372	32 1,325
R.I.	5	8	-	-	8	41	3 1	-	148	402
Conn.	77	64	1	-	15	16	12	12	628	907
MID. ATLANTIC	879	549	87	86	339	417	105	97	8,057	9,822
Upstate N.Y. N.Y. City	64 76	60 151	9	10	68 26	103 48	34 14	23 16	2,602	2,925 181
N.J.	521	135	-	-	66	60	18	20	2,252	2,442
Pa.	218	203	78	76	179	206	39	38	3,203	4,274
E.N. CENTRAL Ohio	404 90	347 91	80 5	112 7	345 161	295 164	77 33	66 18	820 67	777 45
Ind.	33	25	7	7	56	19	16	5	74	43
III.	63	51	11	16	18	35	5	18	-	62
Mich. Wis.	195 23	146 34	57	77 5	103 7	62 15	21 2	17 8	20 659	3 650
W.N. CENTRAL	269	231	178	153	36	51	9	12	345	264
Minn.	39	28	15	7	6	3	3	3	255	184
lowa Mo.	13 172	8 158	- 163	1 143	4 17	9 25	1 3	- 5	30 50	37 38
N. Dak.	4	2	-	-	2	1	-	-	-	-
S. Dak. Nebr.	- 28	2 19	-	- 2	3 1	2 3	- 2	- 3	- 6	- 2
Kans.	13	14	-	-	3	8	-	1	4	3
S. ATLANTIC	1,403	1,396	129	114	270	372	75	91	942	913
Del.	26	6	-	-	9	19	N	N	111	168
Md. D.C.	116 15	90 7	13 1	6	55 8	88 10	10	15 1	556 5	558 5
Va.	187	128	16	6	36	69	14	9	103	62
W. Va. N.C.	27 138	20 110	19 10	1 10	6 27	13 26	2 16	5 14	15 87	17 62
S.C.	60	114	7	24	3	6	1	2	8	2
Ga. Fla.	487 347	474 447	15 48	9 58	36 90	29 112	14 18	23 22	9 48	10 29
E.S. CENTRAL	330	323	76	57	63	85	20	21	40	47
Ky.	45	51	23	10	25	34	4	5	13	10
Tenn.	161	138	29 4	15	26	28	10	5 9	17	13
Ala. Miss.	53 71	68 66	20	5 27	11 1	18 5	4 2	9	2 8	6 18
W.S. CENTRAL	190	779	91	132	47	48	27	40	48	83
Ark.	55	62	2	3	-	2	2	1	8	-
La. Okla.	43 43	93 45	48 3	86 2	4 3	1 5	2	2 2	3	6
Tex.	49	579	38	41	40	40	23	35	37	77
MOUNTAIN	342	429	40	38	64	44	18	26	26	11
Mont. Idaho	2 10	13 7	2	1 1	1 7	2 3	- 1	2 2	- 6	- 3
Wyo.	7	27	2	-	5	2	-	-	2	1
Colo. N. Mex.	41 11	59 30	8 7	9	16 2	8 2	8	9 2	3	- 1
Ariz.	184	194	5	7	11	9	-	7	6	1
Utah	33	38	4	-	18	13	2	2	9	2
Nev.	54	61	12	20	4	5	7	2	-	3
PACIFIC Wash.	480 39	619 52	57 17	49 16	52 9	52 8	87 8	81 4	72 10	71 2
Oreg.	85	84	13	9	N	N	5	4	26	12
Calif. Alaska	337 14	460 4	23	22	43	44	70	69	34 2	54 3
Hawaii	5	19	4	2	-	-	4	4	Ň	Ň
Guam	-	9	-	3	-	-	-	-	-	-
P.R. V.I.	41	95	-	-	1	-	-	-	N	N
Amer. Samoa	U	U	U	U	U	U	U	U	Ū	Ū
C.N.M.I.	-	U	-	U	-	U	-	U	-	U

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 18, 2004, and September 13, 2003 (37th Week)*

,	Mal	aria		ococcal ease	Pert	issis	Rabies	, animal	Rocky Mountain spotted fever		
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	
JNITED STATES	. 894		978	1,224	9,538	5,713	3,636	5,111	990	561	
NEW ENGLAND	54	45	51	55	1,056	750	445	421	17	7	
/laine N.H.	5 4	2 5	8 4	5 3	2 46	12 67	35 20	43 17	-	-	
и.п. /t.	4	1	2	1	60	56	19	27	-	-	
lass.	25	22	30	35	914	564	192	156	15	7	
R.I. Conn.	3 13	1 14	1 6	2 9	22 12	14 37	28 151	49 129	1 1	-	
/ID. ATLANTIC	208	233	122	147	2,004	627	406	666	61	36	
Jpstate N.Y.	32	38	28	33	1,405	272	372	299	2	-	
I.Y. City I.J.	89 47	122 46	21 28	34 19	92 167	88 97	5	6 62	13 22	12 16	
Pa.	40	27	45	61	340	170	29	299	24	8	
.N. CENTRAL	79	82	137	193	2,127	564	119	120	47	14	
Dhio	24	14	53	47	399	176	58	41	15	6	
nd. I.	11 17	2 37	21 12	36 50	85 318	44 61	8 37	14 18	26 2	1 4	
lich.	17	20	41	35	153	83	15	37	4	3	
Vis.	10	9	10	25	1,172	200	1	10	-	-	
V.N. CENTRAL ⁄linn.	51 18	37 20	72 21	90 20	1,231 193	283 106	372 63	525 26	89	53 1	
owa	3	4	12	18	80	74	83	88	-	2	
1o. I. Dak.	17 3	3	20 2	36 1	216	58	33	24 47	72	43	
B. Dak.	3 1	1 2	2	1	635 18	6 3	48 10	47 111	4	- 4	
lebr.	2	-	4	6	25	7	53	90	12	2	
ans.	7	7	11	8	64	29	82	139	1	1	
S. ATLANTIC Del.	241 4	229 2	178 4	220 8	465 7	444 7	1,063 9	1,999 43	453	299 1	
/ld.	52	53	9	24	84	63	157	266	54	79	
).C. ′a.	11 36	8 28	4 14	4 19	3 135	- 77	- 8	- 393	- 22	- 20	
a. V. Va.	- 50	4	5	4	17	6	50	67	4	20 5	
I.C.	14	18	26	30	62	90	460	591	318	120	
S.C. Ga.	9 45	3 52	11 20	20 24	40 30	90 26	110 265	171 280	13 25	15 52	
la.	70	61	85	87	87	85	4	188	17	7	
.S. CENTRAL	27	22	44	62	216	120	103	165	139	93	
ίγ. enn.	4 7	5 4	8 13	14 15	50 130	37 58	19 31	29 94	1 78	1 50	
Na.	11	7	11	17	25	16	44	41	31	16	
liss.	5	6	12	16	11	9	9	1	29	26	
V.S. CENTRAL Ark.	81 7	99 4	86 14	138 13	429 49	464 39	847 38	905 25	158 80	51	
.a.	3	4	26	34	10	8	- 30	25	4	-	
Okla.	7	4	7	13	17	57	85	157	70	39	
ex.	64	87	39	78	353	360	724	721	4	12	
10UNTAIN 1ont.	35	28	53 3	65 3	941 35	709 4	150 21	142 20	21 3	7 1	
daho	1	1	6	6	26	61	3	13	3	2	
Vyo. Colo.	- 12	1 13	3 12	2 18	17 462	123 245	4 37	4 33	4	2 2	
I. Mex.	2	1	6	8	108	52	4	5	2	-	
riz.	10	7	12	21	153	117	71 7	54 9	2	-	
ltah lev.	6 4	4 1	4 7	- 7	128 12	81 26	3	9 4	6	-	
ACIFIC	118	124	235	254	1,069	1,752	131	168	5	1	
Vash.	13	19	24	25	495	462	-	-	-	-	
Dreg. Calif.	15 88	9 91	49 156	39 175	313 238	372 908	5 118	6 154	3 2	- 1	
laska	-	-	2	4	8	1	8	8	-	-	
lawaii	2	5	4	11	15	9	-	-	-	-	
Buam ?R.	-	1 1	- 5	- 8	- 4	1 2	43	- 54	N	N	
(.1.	-	-	-	-	-	-	-	-	-	-	
mer. Samoa	U	U	U	U	U	U	U	U	U	U	

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 18, 2004, and September 13, 2003

(37th Week)*					,						
					Strambagaga				eumoniae, invasive		
	Salmor	nellosis	Shige	ellosis	Streptococc invasive,		Drug rea		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	27,697	29,186	8,096	16,408	3,604	4,432	1,619	1,494	483	507	
NEW ENGLAND	1,505	1,532	203	235	152	389	22	75	54	6	
Maine N.H.	69 105	98 107	2 6	6 6	8 16	23 27	2	-	3 N	N	
Vt.	41	50	2	6	8	17	7	6	1	3	
Mass. R.I.	863 91	908 86	133 13	163 10	103 17	172 11	N 13	N 10	43 7	N 3	
Conn.	336	283	47	44	-	139	-	59	Ú	Ŭ	
MID. ATLANTIC	3,983	3,441	849	1,774	573	773	104	96	82	75	
Upstate N.Y. N.Y. City	873 885	765 940	352 255	289 299	189 74	291 112	43 U	53 U	56 U	55 U	
N.J. Pa.	638 1,587	592	164 78	293 893	136 174	149 221	- 61	- 43	6 20	2 18	
Fa. E.N. CENTRAL	3,669	1,144 4,102	70	1,413	701	1,066	361	332	115	218	
Ohio	963	1,014	128	247	185	252	254	219	60	77	
Ind. III.	422 1,072	399 1,428	155 251	113 756	81 152	103 270	107	113	25	21 81	
Mich.	623	577	87	193	241	307	N	N	N	N	
Wis. W.N. CENTRAL	589 1,745	684 1,694	91 322	104 542	42 235	134 269	N 13	N 11	30 71	39 57	
Minn.	429	373	46	70	120	130	-	-	50	40	
lowa Mo.	353 462	260 641	60 125	48 278	N 49	N 60	N 8	N 7	N 9	N 2	
N. Dak.	30	27	3	6	10	13	-	3	2	4	
S. Dak. Nebr.	75 117	79 106	9 22	13 68	12 12	20 22	5	1	- 5	- 5	
Kans.	279	208	57	59	32	24	Ν	Ν	5	6	
S. ATLANTIC Del.	7,535 82	6,922 74	2,028 7	4,978 153	772 3	738 6	858 4	807 1	39 N	15 N	
Md.	625	580	112	479	130	180	-	14	28	-	
D.C. Va.	43 849	31 717	29 112	57 298	7 60	7 89	5 N	N	3 N	5 N	
W.Va. N.C.	170	96 847	5 225	- 673	19 95	31 86	87 N	57 N	8 U	10 U	
S.C.	1,065 622	440	266	326	37	36	N 65	116	N	N	
Ga. Fla.	1,376 2,703	1,323 2,814	515 757	928 2,064	248 173	144 159	251 446	174 445	N N	N N	
E.S. CENTRAL	1,764	1,984	575	665	174	155	109	106	2	-	
Ky.	251	298	53	76	51	39	23	14	N	N	
Tenn. Ala.	452 481	533 478	295 186	236 213	123	116	85	92	N N	N N	
Miss.	580	675	41	140	-	-	1	-	2	-	
W.S. CENTRAL Ark.	2,141 350	4,380 520	1,746 50	4,193 84	210 16	210 6	45 6	59 19	84 7	81 5	
La.	433	612	204	336	2	1	39	40	16	16	
Okla. Tex.	289 1,069	315 2,933	339 1,153	602 3,171	51 141	66 137	N N	N N	33 28	41 19	
MOUNTAIN	1,727	1,528	570	780	393	369	28	4	36	55	
Mont. Idaho	136 124	77 131	4 9	2 24	- 8	1 18	N	N	N	N	
Wyo.	42	67	4	5	7	2	9	3	-	-	
Colo. N. Mex.	430 185	358 184	119 81	180 160	107 65	105 90	- 5	-	33	43 8	
Ariz. Utah	531 162	433 154	288 32	331 35	170 34	127 24	N 12	N 1	N 3	N 4	
Nev.	117	124	33	43	2	2	2	-	-	-	
PACIFIC	3,628	3,603	1,091	1,828	394	463	79	4	-	-	
Wash. Oreg.	391 312	389 316	82 55	125 182	50 N	41 N	N	N	N N	N N	
Calif.	2,628 43	2,696 53	909 5	1,479 7	273	332	N	N	N	N	
Alaska Hawaii	254	53 149	40	35	71	90	79	4	-	-	
Guam	-	35	-	28	-	-	-	-		-	
P.R. V.I.	163	476	6	19	N	N	N	N	N	N	
Amer. Samoa	U	U	U	U	U	U	U	U	U	U	
C.N.M.I.	3	U	-	U	-	U	-	U	-	U	

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 18, 2004, and September 13, 2003

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	Primary	Syph & secondary	ilis Cong	onital	Tubor	culosis	Typho	id fever	Varicella (Chickenpox)		
Dementing and	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	
Reporting area JNITED STATES	2004 5,174	4,951	2004 242	2003 318	7,246	2003 8,712	2004 194	2003 265	2004 13,193	2003 11,245	
NEW ENGLAND	138	149	4	-	263	291	18	23	591	2,265	
Vaine	2	6	-	-	-	18	-	-	180	642	
N.H. √t.	3	15	3	-	9	11 7	-	2	- 411	- 504	
Mass.	89	96	-	-	169	147	13	13		124	
R.I.	18	15	-	-	23	39	1	2	-	3	
Conn.	26	17	1		62	69	4	6		992	
VID. ATLANTIC Jpstate N.Y.	694 71	593 31	34 1	49 8	1,490 186	1,545 195	41 6	58 10	70	25	
N.Y. City	417	329	11	27	764	804	12	28	-	-	
N.J. Pa.	114 92	118 115	21 1	14	299 241	302 244	12 11	16 4	- 70	- 25	
E.N. CENTRAL	581	670	43	52	834	807	15	29	4,067	3,884	
Ohio	159	154	1	3	141	143	5	23	1,045	946	
nd.	42 226	34 278	8	10	89	94	-	4	-	-	
II. Mich.	133	189	10 24	18 21	367 176	377 148	8	15 8	2,630	2,321	
Wis.	21	15	-	-	61	45	2	-	392	617	
W.N. CENTRAL	116	111	3	4	308	326	8	6	123	42	
Minn. Iowa	15 5	34 8	1	-	118 23	134 21	4	2 2	- N	N	
Mo.	71	40	1	4	74	78	2	1	5	-	
N. Dak.	-	2	-	-	3	-	-	-	75	42	
S. Dak. Nebr.	- 5	1 5	-	-	8 25	16 15	- 2	-	43	-	
Kans.	20	21	1	-	57	62	-	-	-	-	
S. ATLANTIC	1,346	1,309	35	64	1,426	1,663	33	37	1,728	1,615	
Del. Md.	6 262	4 222	1 5	- 10	- 183	- 159	- 10	- 8	4	21	
D.C.	58	37	1	-	63	-	10	-	20	22	
Va.	70	63	2	1	162	180	3	12	466	441	
W.Va. N.C.	2 135	2 115	- 8	- 16	14 202	12 217	- 5	- 6	993 N	944 N	
S.C.	90	78	6	6	131	110	-	-	245	187	
Ga. Fla.	213 510	349 439	1 11	13 18	11 660	374 611	6 8	5 6	-	-	
E.S. CENTRAL	287	228	16	10	397	468	6	5			
Ky.	30	220	1	1	76	83	2	-	-	-	
Tenn.	93	94	7	2	144	163	4	2	-	-	
Ala. Miss.	126 38	83 22	6 2	6 2	144 33	147 75	-	3	-	-	
W.S. CENTRAL	836	638	39	57	643	1,338	12	26	4,865	3,012	
Ark.	32	39	-	2	83	66	-	-	-	-	
La. Okla.	191 19	97 44	- 2	1 1	- 108	- 106	- 1	-	45	10	
Tex.	594	458	37	53	452	1,166	11	26	4,820	3,002	
MOUNTAIN	261	223	43	28	331	313	5	4	1,749	402	
Mont.	-	-	-	-	4	5	-	-	-	-	
ldaho Wyo.	15 1	4	2	2	4 2	5 3	-	-	- 26	39	
Colo.	25	26	-	3	67	67	1	3	1,334	-	
N. Mex. Ariz.	46 145	40 138	1 40	5 18	16 156	35 148	- 2	- 1	68	1	
Jtah	4	5	-	-	29	28	1	-	321	362	
Nev.	25	10	-	-	53	22	1	-	-	-	
PACIFIC	915	1,030	25	53	1,554	1,961	56	77	-	-	
Nash. Dreg.	92 20	55 30	-	-	157 58	180 79	4 2	3 3	-	-	
Calif.	799	938	25	52	1,235	1,578	44	70	-	-	
Alaska Hawaii	- 4	1 6	-	- 1	28 76	45 79	- 6	- 1	-	-	
	4		-				0	I	-	-	
Guam P.R.	- 93	1 142	- 5	- 13	60	38 75	-	-	- 207	94 418	
/.I. Amer. Samoa	4	1	-	-	-	-			-	-	
	U	U	U	U	U	U	U	U	U	U	

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 18, 2004, and September 13, 2003

		n 122 U.S. cities,* week ending September 18, 2 All causes, by age (years)			0,2004		All causes, by age (years)								
Reporting Area	All Ages	≥65	45-64	25–44	1–24	<1	P&I [†] Total	Reporting Area	All Ages	<u>></u> 65	45-64	25–44	1–24	<1	P&I [†] Total
NEW ENGLAND	537	378	104	39	11	5	55	S. ATLANTIC	1,293	774	327	112	41	39	55
Boston, Mass.	120	76	26	11	6	1	13	Atlanta, Ga.	130	75	32	16	6	1	4
Bridgeport, Conn.	34	30	2	2	-	-	3	Baltimore, Md.	163	88	42	21	7	5	9
Cambridge, Mass.	25	22	2	-	1	-	2	Charlotte, N.C.	101	55	31	8	2	5	3
Fall River, Mass.	23	18	3	1	-	1	7	Jacksonville, Fla.	161	98	49	9	1	4	6
Hartford, Conn.	53	33	16	4 1	-	-	2	Miami, Fla.	78	48	20	6	2	2 4	4
Lowell, Mass. Lynn, Mass.	21 11	17 8	2 1	2	-	-	7	Norfolk, Va. Richmond, Va.	66 72	44 33	13 25	13	5 1	4	2
New Bedford, Mass.	25	20	3	2	-	2	5	Savannah, Ga.	45	28	10	2	1	4	2
New Haven, Conn.	36	23	10	1	2	-	5	St. Petersburg, Fla.	60	46	8	4	2	-	1
Providence, R.I.	70	49	16	4	-	1	3	Tampa, Fla.	196	132	40	13	5	6	17
Somerville, Mass.	2	1	-	1	-	-	-	Washington, D.C.	200	113	52	19	8	8	3
Springfield, Mass.	32	21	6	3	1	1	3	Wilmington, Del.	21	14	5	1	1	-	4
Waterbury, Conn.	26	18	4	4	-	-	2	E.S. CENTRAL	629	375	181	43	23	7	36
Worcester, Mass.	59	42	13	3	1	-	3	Birmingham, Ala.	76	45	22	5	4	-	7
MID. ATLANTIC	1,969	1,321	444	134	40	30	100	Chattanooga, Tenn.	94	64	25	4	-	1	11
Albany, N.Y.	39	28	7	1	-	3	1	Knoxville, Tenn.	87	53	25	4	4	1	6
Allentown, Pa.	15	10	5	-	-	-	-	Lexington, Ky.	74	43	18	7	4	2	4
Buffalo, N.Y.	106	76	18	9	1	2	7	Memphis, Tenn.	117	64	36	11	5	1	-
Camden, N.J.	23	8	7	5	1	2	-	Mobile, Ala.	22	15	5	-	2	-	2
Elizabeth, N.J.	18	9	8	1	-	-	-	Montgomery, Ala.	24	17	6	-	1 3	- 2	2
Erie, Pa. Jersey City, N.J.	45 32	34 19	10 9	1 4	-	-	2	Nashville, Tenn.	135	74	44	12			4
New York City, N.Y.	1,073	730	238	69	25	11	43	W.S. CENTRAL	1,243	746	329	100	38	30	61
Newark, N.J.	59	33	16	7	1	2	4	Austin, Tex.	84	48	26	6	2	2	5
Paterson, N.J.	20	12	5	-	1	2	3	Baton Rouge, La.	23	13	5	3	2	-	-
Philadelphia, Pa.	179	94	54	21	6	4	9	Corpus Christi, Tex.	58	42	14	1	-	1	5
Pittsburgh, Pa.§	22	13	5	3	1	-	1	Dallas, Tex. El Paso, Tex.	169 84	95 62	42 12	17 7	8 2	7 1	9 1
Reading, Pa.	17	11	4	1	1	-	1	Ft. Worth, Tex.	118	76	22	8	6	6	3
Rochester, N.Y.	117	92	19	6	-	-	14	Houston, Tex.	403	225	127	35	8	8	29
Schenectady, N.Y.	27	23	3	1	-	-	3	Little Rock, Ark.	69	40	20	4	2	3	1
Scranton, Pa.	25	18	5	-	2	-	- 8	New Orleans, La.	51	28	16	3	2	2	-
Syracuse, N.Y. Trenton, N.J.	98 12	68 8	22 4	4	-	4	8	San Antonio, Tex.	U	U	U	U	U	U	U
Utica, N.Y.	12	16	3	-	-	-	3	Shreveport, La.	67	48	14	5	-	-	2
Yonkers, N.Y.	23	19	2	1	1	-	1	Tulsa, Okla.	117	69	31	11	6	-	6
E.N. CENTRAL	2,021	1,351	448	120	56	40	126	MOUNTAIN Albuquerque, N.M.	876 105	617 80	177 15	51 6	16 3	13 1	49 10
Akron, Ohio	44	31	8	1	2	2	3	Boise, Idaho	41	30	8	2	-	1	6
Canton, Ohio	41	31	9	1	-	-	5	Colo. Springs, Colo.	67	47	12	4	2	2	2
Chicago, III.	329	189	98	22 6	8 2	6	17 7	Denver, Colo.	U	U	U	U	U	U	U
Cincinnati, Ohio Cleveland, Ohio	78 200	54 145	14 42	10	2	2 1	11	Las Vegas, Nev.	211	139	51	11	8	2	13
Columbus, Ohio	200	143	37	7	3	6	20	Ogden, Utah	18	15	2	1	-	-	1
Dayton, Ohio	135	89	30	8	5	3	11	Phoenix, Ariz.	118	74	31	9	1	1	5
Detroit, Mich.	185	94	52	20	13	6	11	Pueblo, Colo.	29	21	7	-	1	-	1
Evansville, Ind.	33	26	7	-	-	-	3	Salt Lake City, Utah	136	100 111	24 27	9 9	-	3 3	7 4
Fort Wayne, Ind.	47	35	10	1	-	1	3	Tucson, Ariz.	151	111	27		I		
Gary, Ind.	12	5	6	1	-	-	-	PACIFIC	1,648	1,126	339	98	52	31	142
Grand Rapids, Mich.	56	40	11	2	-	3	2	Berkeley, Calif.	9	5	2	1	-	1	1
Indianapolis, Ind.	194	116	47	17	8	6	12	Fresno, Calif.	140	102	25	7	3	3	11
Lansing, Mich. Milwaukee, Wis.	75 87	58 65	12 17	3 4	2	- 1	3	Glendale, Calif. Honolulu, Hawaii	11 71	6 56	5 12	-	-	-	2 4
Peoria, III.	61	42	10	2	6	1	4	Long Beach, Calif.	45	29	12	3	2	1	5
Rockford, III.	38	31	4	2	1		2	Los Angeles, Calif.	273	178	59	18	13	5	24
South Bend, Ind.	49	35	8	3	2	1	3	Pasadena, Calif.	12	10	2	-	-	-	2
Toledo, Ohio	82	58	17	5	1	1	3	Portland, Oreg.	122	87	21	4	6	4	12
Youngstown, Ohio	69	54	9	5	1	-	3	Sacramento, Calif.	211	148	42	14	4	3	17
W.N. CENTRAL	660	444	137	48	11	20	46	San Diego, Calif.	178	120	41	9	5	3	15
Des Moines, Iowa	72	51	157	40 5	1	- 20	40 12	San Francisco, Calif.	125	78	33	9	3	2	15
Duluth, Minn.	28	19	7	2	-	-	1	San Jose, Calif.	168	120	31	13	3	1	16
Kansas City, Kans.	46	30	9	6	-	1	4	Santa Cruz, Calif.	U	U	U	U	U	U	U
Kansas City, Mo.	101	60	22	7	2	10	2	Seattle, Wash.	112	64	26	12	8	2	10
Lincoln, Nebr.	29	23	5	-	1	-	1	Spokane, Wash.	63 108	42	13	1	2	3	3
Minneapolis, Minn.	65	38	15	4	2	6	4	Tacoma, Wash.	108	81	17	6	2	2	5
Omaha, Nebr.	78	56	20	1	-	1	8	TOTAL	10,876 [¶]	7,132	2,486	745	288	215	670
St. Louis, Mo.	82	56	17	5	2	2	5								
St. Paul, Minn.	75	49	12	11	3	-	5								
Wichita, Kans.	84	62	15	7	-	-	4								

U: Unavailable. -: No reported cases.

Or Unavailable. --INO 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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