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Motor Vehicle-Related Death Rates — United States, 1999-2005

In 2005, the most recent year for which data are available, 45,520 deaths in the United States were related to motor vehicles (1). A Healthy People 2010 objective calls for reducing the rate of deaths related to motor vehicles to 9.2 per 100,000 population from a baseline of 15.6 in 1998 (2). To assess progress toward the Healthy People objective and to examine characteristics of motor vehicle-related death rates, CDC analyzed data from the National Vital Statistics System (NVSS) for the period 1999–2005. This report summarizes the results of that analysis, which determined that, during 1999-2005, although annual age-adjusted motor vehicle-related death rates overall were nearly unchanged (range: 15.2-15.7 per 100,000 population), substantial differences were observed by state, U.S. Census region,* sex, race, and age group. Among states, the average annual death rate ranged from 7.9 per 100,000 population in Massachusetts to 31.9 in Mississippi. Among regions, the rate ranged from 9.8 per 100,000 population in the Northeast to 19.5 in the South. The rate for men (21.7 per 100,000 population) was more than double the rate for women (9.4); the rate for American Indians/Alaska Natives (27.2) was nearly twice the rate for whites (15.7) and blacks (15.2), and the rate for persons aged 15-24 years (26.8) was 74% higher than the average annual rate overall (15.4). Additional analysis and research to determine the causes of geographic and demographic variations in motor vehicle-related deaths might result in more effective targeted interventions among the states, regions, and populations at greatest risk.

NVSS data were obtained from CDC's Web-based Injury Statistics and Query System, an interactive surveillance system that provides customized reports of injury-related deaths based on death certificate records from state vital statistics offices (1). CDC analyzed data on motor vehicle-related deaths for the period 1999-2005, the most recent years for which data were available, using codes[†] from the *International Classification of* Diseases, 10th Revision (ICD-10) (3). Because the mortality coding system in the United States changed significantly from ICD-9 to ICD-10 in 1999, analysis was limited to data for the period 1999-2005 to ensure appropriate comparisons of data from year to year (4). Bridged-race population estimates from the U.S. Census were used to calculate death rates. Rates were age adjusted to the 2000 standard U.S. population. Negative binomial regression was used to determine the statistical significance (p<0.05) of changes in rates from 1999 to 2005. Data were analyzed by state, census region, sex, race (regardless of Hispanic ethnicity), and age group.

During 1999–2005, a total of 311,356 motor vehicle–related deaths occurred in the United States. The overall average annual

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^{*} Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont. South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin. West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

[†]ICD-10 codes for motor vehicle-related deaths include those for unintentional, intentional, and undetermined deaths and are as follows: V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V2.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2, X82,Y03, and Y32.

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age-adjusted rate for this period was 15.4 deaths per 100,000 population (range: 15.2–15.7 per 100,000 population); the annual death rate decreased by 1% from 15.3 in 1999 to 15.2 in 2005 (Table 1).

Of the motor vehicle–related deaths in the United States during 1999–2005, a total of 141,780 (46%) occurred in the South census region. The average annual death rate was highest in the South (19.5 per 100,000 population), followed by the Midwest (14.7), West (14.2), and Northeast (9.8). By state, the average annual death rate was highest in Mississippi (31.9 per 100,000 population), followed by Wyoming (27.7), Arkansas (25.6), Montana (25.6), and Alabama (25.1). In four states and the District of Columbia (DC), the average annual death rate was below the *Healthy People* target of 9.2 per 100,000 population: Massachusetts (7.9), New York (8.4), Rhode Island (8.5), DC (8.4), and New Jersey (9.0) (Table 1).

During 1999–2005, the average annual death rate for males (21.7 deaths per 100,000 population) in the United States was more than twice the rate for females (9.4) (Table 2). By race, the average annual death rate was highest among American Indians/Alaska Natives (27.2 deaths per 100,000 population), followed by whites (15.7), blacks (15.2), and Asians/Pacific Islanders (8.2) (Table 2).

By age group, the average annual motor vehicle–related death rate was highest among persons aged 15–24 years (26.8 deaths per 100,000 population) and persons aged \geq 75 years (25.9) and lowest among persons aged \leq 14 years (4.0) (Table 3). From 1999 to 2005, the annual rate was flat (26.3 versus 25.9) among persons aged 15–24 years and increased by 8% among persons aged 45–64 years and by 4% among persons aged 25–44 years. The annual rate decreased by 18% among persons aged \leq 14 years and by 15% among persons aged \geq 75 years.

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Editorial Note: During 1999–2005, approximately 300,000 deaths in the United States were related to motor vehicle crashes; however, the overall annual death rate did not change substantially (range: 15.2–15.7 per 100,000 population). During an earlier period, from 1969 to 1992, the overall annual rate of motor vehicle–related deaths in the United States decreased 43%, from 27.7 per 100,000 population§ to 15.8 (1), a rate only slightly higher than the rate observed during 1999–2005. Motor vehicle–related deaths are preventable, and numerous factors have been credited for the decrease in the death rate during 1969–1992, including adoption of the 0.08 g/dL blood alcohol concentration limit for drivers; vehicle

[§] National Safety Council, Injury Facts, 2002.

TABLE 1. Number of motor vehicle-related deaths* and death rates,† by state and U.S. Census region — National Vital Statistics System, United States, 1999–2005

		Average annual								Change from 1999	
Region/State	No.	rate	1999	2000	2001	2002	2003	2004	2005	to 2005 (%)	p-value§
Northeast	37,707	9.8	9.9	9.6	10.0	10.3	9.7	9.6	9.6	-3	0.496
Connecticut	2,229	9.3	9.2	10.1	9.5	10.2	8.3	9.7	8.3	-10	0.400
Maine	1,370	14.9	15.7	13.8	15.4	16.3	15.2	14.1	14.2	-10	0.757
Massachusetts	3,626	7.9	7.0	7.7	8.7	8.6	8.1	8.0	7.3	4	0.372
New Hampshire	987	11.2	10.9	11.2	11.0	10.0	10.2	12.6	12.3	13	0.024
New Jersey	5,378	9.0	8.8	9.3	9.0	9.2	9.2	8.9	8.7	-1	0.502
New York	11,413	8.4	9.3	8.1	8.7	8.8	8.1	8.1	7.8	-16	0.036
Pennsylvania	11,482	13.0	12.8	12.3	12.6	13.9	13.1	12.5	13.9	9	0.008
Rhode Island	654	8.5	8.3	7.5	8.9	8.5	9.4	8.9	7.9	-5	0.257
Vermont	568	13.1	13.7	12.5	14.6	12.6	11.8	13.0	13.1	-4	0.943
South	141,780	19.5	19.4	19.9	19.5	19.6	19.3	19.5	19.3	-1	0.054
Alabama	7,912	25.1	26.1	24.0	23.2	24.8	23.8	27.8	25.7	-2	0.148
Arkansas	4,889	25.6	24.5	25.3	24.4	25.4	26.2	28.4	24.7	1	0.023
Delaware	860	15.2	12.7	16.1	15.3	14.9	16.0	16.9	14.0	10	0.165
District of Columbia	354	8.4	6.3	9.6	9.0	9.2	10.4	7.6	6.7	6	0.934
Florida	22,356	18.8	17.9	19.0	18.6	18.9	18.8	18.6	19.6	9	< 0.001
Georgia	10,860	18.4	19.3	19.2	19.7	18.1	16.7	17.1	18.7	-3	0.181
Kentucky	6,380	22.1	20.1	20.5	21.1	22.5	22.7	23.9	23.7	18	< 0.001
Louisiana	6,968	22.2	22.0	22.7	22.2	21.5	21.4	22.7	22.7	3	0.084
Maryland	4,667	12.4	12.0	11.9	13.4	13.4	13.0	12.1	11.3	-6	0.772
Mississippi	6,391	31.9	33.9	32.9	29.1	30.8	31.4	31.5	33.4	-1	0.858
North Carolina	11,676	20.0	20.0	21.0	20.1	20.2	19.8	19.9	19.2	-4	0.056
Oklahoma	5,208	21.1	20.0	19.6	20.9	21.9	20.6	21.5	23.3	17	< 0.001
South Carolina	7,118	24.6	25.1	25.8	24.5	24.9	22.8	24.4	25.1	0	0.838
Tennessee	9,302	22.8	23.4	24.5	22.5	21.6	22.3	23.4	21.8	-7	0.343
Texas	27,226	18.1	18.2	18.6	18.9	18.7	18.4	17.4	16.8	-8	0.077
Virginia	6,818	13.4	13.0	14.0	13.5	13.3	13.8	13.6	12.8	-2	0.488
West Virginia	2,795	21.7	21.0	21.7	20.7	22.4	21.8	22.5	22.1	5	0.003
Midwest	67,402	14.7	14.9	15.1	14.8	15.3	14.6	14.1	14.1	-5	0.117
Illinois	10,829	12.3	12.6	12.7	12.8	12.6	11.9	11.9	11.5	-9	0.003
Indiana	6,802	15.7	16.5	15.1	15.9	15.6	15.2	16.1	15.4	-7	0.814
lowa	3,239	15.7	17.7	15.8	14.9	14.0	15.2	13.7	15.5	-12	0.080
Kansas	3,684	19.1	21.1	18.4	19.7	20.5	17.8	18.2	18.1	-14	0.065
Michigan	9,723	13.9	14.4	15.4	14.5	13.9	13.7	13.0	12.2	-15	< 0.001
Minnesota	4,732	13.4	13.3	14.1	12.6	14.7	13.8	12.7	12.4	-7	0.688
Missouri	8,039	20.0	19.0	19.6	19.6	21.2	21.2	19.1	20.5	8	0.049
Nebraska	2,077	16.8	17.3	16.4	15.6	19.2	17.6	15.7	16.0	-8	0.973
North Dakota	838	18.1	19.9	16.1	17.6	17.1	18.1	17.9	19.7	-1	0.374
Ohio	10,155	12.6	12.6	12.9	13.0	14.0	11.7	12.0	12.2	-3	0.485
South Dakota	1,303	24.2	23.3	23.4	24.0	24.1	27.3	24.6	22.7	-3	0.424
Wisconsin	5,981	15.5	14.6	16.5	15.1	15.8	16.0	14.7	15.6	7	0.494
	-										
West	64,467	14.2	13.6	13.9	13.9	14.6	14.6	14.2	14.3	5	<0.001
Alaska	765	18.2	15.2	23.8	17.6	18.9	19.0	18.9	14.3	-6 -7	0.891
Arizona	7,543	19.8	19.0	19.9	19.4	20.7	20.0	19.5	20.3	7	0.004
California	29,061	12.0	11.2	11.3	11.6	12.3	12.8	12.5	12.3	10	< 0.001
Colorado	5,024	16.1	15.0	17.7	17.2	17.5	15.7	15.4	14.4	-4 40	0.389
Hawaii	897	10.2	7.4	10.6	10.5	9.7	11.2	11.2	11.0	49	0.002
Idaho	1,921	20.4	21.8	21.3	19.3	22.2	20.7	18.2	19.9	-9	0.133
Montana	1,655	25.6	23.3	26.5	23.3	27.9	27.5	25.7	25.1	8	0.181
Nevada	2,614	17.5	17.7	15.5	16.3	18.2	16.8	18.2	19.3	9	0.001
New Mexico	3,087	23.8	23.5	23.4	24.0	22.7	23.4	25.4	24.0	2	0.004
Oregon	3,460	13.9	12.8	14.0	14.6	13.0	15.2	13.8	13.9	9	0.112
Utah	2,312	14.8	17.1	17.3	13.8	14.8	13.5	13.9	13.6	-20	< 0.001
Washington	5,145	12.1	12.7	12.2	12.5	12.6	12.0	10.8	12.1	-5	0.308
Wyoming	983	27.7	29.0	24.8	28.7	31.7	26.9	22.7	30.2	4	0.825
Total	311,356	15.4	15.3	15.5	15.4	15.7	15.3	15.2	15.2	-1	0.021

^{*}International Classification of Diseases, 10th Revision codes for motor vehicle-related deaths include those for unintentional, intentional, and undetermined deaths and are as follows: V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V2.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2, X82, Y03, and Y32.

[†] Age adjusted, per 100,000 population.

[§] Statistical significance determined by negative binomial regression (p<0.05).

TABLE 2. Number of motor vehicle—related deaths* and death rates,† by sex, race, and U.S. Census region§ — National Vital Statistics System, United States, 1999–2005

	North	neast	Sou	uth	Midv	vest	West		Total		
Characteristic	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Average annual rate	
Sex											
Male	25,889	14.3	97,530	27.7	45,501	20.5	44,289	19.6	213,209	21.7	
Female	11,818	5.7	44,250	11.8	21,901	9.2	20,178	8.8	98,147	9.4	
Race											
White	33,027	10.4	113,293	20.1	59,748	14.9	54,318	14.4	260,386	15.7	
Black	3,764	8.0	25,829	19.0	5,877	12.7	3,066	12.7	38,536	15.2	
AI/AN¶	71	4.3	1,166	19.6	1,055	31.9	3,343	34.2	5,635	27.2	
Asian/Pacific Islander	845	5.3	1,492	9.6	722	8.1	3,740	8.8	6,799	8.2	

^{*} International Classification of Diseases, 10th Revision codes for motor vehicle—related deaths include those for unintentional, intentional, and undetermined deaths and are as follows: V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V2.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2, X82, Y03, and Y32.

TABLE 3. Number of motor vehicle-related deaths* and death rates,† by age group — National Vital Statistics System, United States, 1999–2005

Age group		Average								Change from 1999 to 2005	
(yrs)	No.	annual rate	1999	2000	2001	2002	2003	2004	2005	(%)	p-value§
<u><</u> 14	17,100	4.0	4.4	4.3	4.1	3.9	4.0	4.0	3.6	-18	<0.001
15-24	76,054	26.8	26.3	27.1	26.8	28.2	26.7	26.4	25.9	- 2	0.845
25-44	97,589	16.4	15.9	16.3	16.6	16.8	16.5	16.3	16.6	4	< 0.001
45-64	67,511	14.5	13.9	14.4	14.1	14.7	14.7	14.8	15.0	8	< 0.001
65-74	21,532	16.7	17.8	16.6	16.4	17.1	16.2	16.2	16.8	-6	0.300
≥75	31,397	25.9	27.6	27.0	26.7	26.3	25.8	24.8	23.5	- 15	< 0.001
Total	311,356	15.4	15.3	15.5	15.4	15.7	15.3	15.2	15.2	-1	0.021

^{*} International Classification of Diseases, 10th Revision codes for motor vehicle—related deaths include those for unintentional, intentional, and undetermined deaths and are as follows: V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V2.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2, X82, Y03, and Y32.

safety improvements, primary enforcement of seat belt and child restraint laws, an increased minimum legal drinking age, alcohol checkpoints, lower speed limits and increased enforcement, and increased availability of statewide trauma systems (5). Nonetheless, additional and vigorous measures are needed if the *Healthy People 2010* national objective of 9.2 deaths per 100,000 population is to be met.

The findings in this report revealed substantial variation in motor vehicle–related death rates among states during 1999–2005. Some of this variation is explained by the extent of population exposure to the road environment, which was not part of this population-based analysis. Similar calculations using a denominator such as vehicle miles traveled can yield different variations among states. Motor vehicle–related death rates also can vary for other reasons, including the types of road users. In this analysis, rates might be higher in states with greater percentages of more vulnerable road users (e.g.,

pedestrians, bicyclists, and motorcyclists) than in states with more passenger vehicle occupants.

The South accounted for 46% of the deaths during the period studied but only 36% of the population. Reasons for this disproportion are unclear. In addition to variations in exposure to the road environment and type of road user, rates might be affected by the proportion of the population living in rural versus urban locations and greater distances traveled, differences in population demographics (e.g., income and education), and differences in safety behaviors such as safety belt use (6–8). However, regional differences also mask substantial state variability. For example, in the South, Alabama and Arkansas had rates approximately twice as high as Maryland and Virginia. The differences in death rates by sex, race, and age group observed in this analysis are consistent with other reports and again underscore the importance of identifying populations at greatest risk for targeted interventions (e.g.,

[†] Age adjusted, per 100,000 population.

[§] Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont. South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin. West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

American Indian/Alaska Native.

[†] Age adjusted, per 100,000 population.

[§] Statistical significance determined by negative binomial regression (p<0.05).

males, American Indian/Alaska Natives, and young adults) (9,10). Further studies should address reasons for the higher motor vehicle–related death rates in certain states to enable creation of strategies that directly address this concern.

The findings in this report are subject to at least two limitations. First, death certificates and population estimates might not accurately record race, resulting in overreporting or underreporting of deaths and rates for certain racial populations. Second, the *Healthy People* objective was based on unintentional deaths only. However, this study examined all motor vehicle–related deaths, including homicides and suicides, which accounted for 1,400 deaths, or approximately 0.45% of all motor vehicle–related deaths during the study period.

Motor vehicle crashes continue to be a leading cause of death and injury in every U.S. region and state. States should reexamine their unique demographic, geographic, and cultural risk factors to determine the extent to which they are contributing to motor vehicle crashes and injuries. In addition, state and local highway safety and public health officials should reconsider additional strategies that have demonstrated effectiveness in reducing the number of motor vehicle-related deaths and injuries. For example, when properly used, lap/shoulder safety belts reduce by 45% the risk for dying in a crash and by 50% the risk for moderate to serious injury (6). Currently, 49 states and DC have safety belt laws; however, 23 states have only implemented laws with secondary enforcement (i.e., allowing police to ticket motorists for not using safety belts only if they are stopped for another violation). Secondary laws are less effective at increasing safety belt use and decreasing fatalities than primary laws (10). States should reexamine their motor vehicle safety policies to ensure that they are implementing and enforcing measures with the greatest effectiveness. Information on the effectiveness of strategies to increase use of safety belts and child safety seats and reduce alcohol-impaired driving is available at http://www.thecommunityguide.org/mvoi/index. html.

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Arthritis as a Potential Barrier to Physical Activity Among Adults With Heart Disease — United States, 2005 and 2007

Being physically active is an important component of heart disease (HD) management (1); however patients with HD are less likely to comply with physical activity recommendations than those without HD (2). Arthritis is a common comorbidity among persons with HD, and arthritis-associated joint pain and fear of further joint damage can be an unrecognized barrier to physical activity among persons with HD (CDC, unpublished data, 2008). To provide estimates of the magnitude of this problem at the state level, CDC combined 2005 and 2007 Behavioral Risk Factor Surveillance System (BRFSS) data to estimate overall and age- and sex-specific prevalence of self-reported doctor-diagnosed arthritis among adults aged ≥18 years with self-reported HD, and the prevalence of physical inactivity among adults with HD by arthritis status. The results indicated that, for these 2 years combined, arthritis affected 57.4% of adults with HD, compared with 27.4% of adults in the general population. Among adults with HD, the likelihood of physical inactivity was 30% greater compared with that of persons with HD but without arthritis, when adjusted for age, sex, race/ethnicity, education level, and body mass index (BMI) (odds ratio [OR] = 1.3). These results suggest that arthritis might be an additional barrier to increased physical activity among persons with HD. Health-care providers and public health agencies should consider addressing this barrier with arthritis-specific or general evidence-based self-management

education and exercise programs for their patients with arthritis and HD.

BRFSS is a state-based, random-digit—dialed telephone survey of the noninstitutionalized U.S. civilian population aged ≥18 years. Data were collected from the 50 states, District of Columbia (DC), Puerto Rico, and U.S. Virgin Islands. Response rates were calculated using Council of American Survey and Research Organizations (CASRO) guidelines; for 2005 and 2007,* respectively, median response rates were 51.1% and 50.6% and cooperation rates were 75.1% and 72.1%.† A total of 15,725 respondents with missing arthritis or HD data were excluded, resulting in a final sample of 757,959.

HD was defined as a "yes" response to at least one of two questions: "Has a doctor, nurse, or other health professional ever told you that you had... a heart attack, also called a myocardial infarction?" or "...angina or coronary heart disease?" Doctor-diagnosed arthritis was defined as a "yes" response to the question, "Have you ever been told by a doctor or other health professional that you have some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia?" Physical activity level of respondents was determined from six questions§ that asked about frequency and duration of participation in nonoccupational activities (i.e., lifestyle activities) of moderate and vigorous intensity; persons reporting no participation in such activities were classified as inactive. Physical activity guidelines in effect during 2005 and 2007 were used for classifying physical inactivity. Body mass index (BMI) was calculated from self-reported height and weight.

To generate nationwide estimates and 95% confidence intervals (CIs), data from 2005 and 2007 for the 50 states and DC were combined, and an annual average weighting was applied to account for multistage probability sampling. Data for arthritis and heart disease were not collected in all states in 2006, and so, were not included. To assess factors potentially confounding an association between doctor-diagnosed arthritis and physical inactivity among those with heart disease, data were combined across states, in unadjusted and adjusted (by

age, sex, race/ethnicity, education level, and BMI) logistic regression models. All other estimates in this report are unadjusted. Estimates were calculated for the 50 states, DC, and territories. Because states are most interested in the number of affected persons and unadjusted prevalence for use in planning and resource allocations, unadjusted state-specific estimates are provided in this report. Statistical significance was determined by the chi-square test (p<0.05).

Average annual adult prevalence was 6.5% for HD and 26.9% for arthritis. Among all respondents, 3.7% reported HD and arthritis, 2.8% reported HD only, 23.2% reported arthritis only, and 70.4% reported neither condition (Table 1). By sex, males had a higher prevalence of HD only and a slightly higher prevalence of both conditions (p<0.01); females had a higher prevalence of arthritis only (p<0.01). The likelihood of having one or both conditions increased with increasing age. Whites were more likely than blacks to have one or both conditions (p<0.01). Prevalence of physical inactivity was lowest among adults without arthritis or HD (11.0%; CI = 10.8%–11.2%), higher among adults with arthritis alone (17.6%; CI = 17.3%–18.0%) and HD alone (21.0%; CI = 20.0%–22.2%), and highest among adults with both conditions (29.3%; CI = 28.5%–30.2%) (p<0.01) (Figure).

In logistic regression analyses of adults with HD, those with doctor-diagnosed arthritis were 60% more likely to be physically inactive (OR = 1.6; CI = 1.4–1.7; p<0.01); when adjusted for age, sex, race/ethnicity, education level, and BMI, they were 30% more likely to be inactive (OR = 1.3; CI = 1.2–1.4; p<0.01). The state median prevalence estimate for arthritis among adults with HD was 57.4% (range: 46.9% in Hawaii to 68.6% in Mississippi) (Table 2). The state median prevalence of physical inactivity among adults with HD and arthritis was 27.2% (range: 20.5% in Colorado to 50.3% in Kentucky); among adults who had HD only, the state median was 19.5% (range: 13.5% in Utah to 38.0% in Kentucky).

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Editorial Note: HD and arthritis are common chronic diseases among adults in the United States, affecting 14.1 million and 46.5 million adults in 2006, respectively (3). Each condition is responsible for substantial activity limitation among adults aged ≥45 years, and persons with both conditions are significantly more limited that those with just one condition (4). The results of this analysis indicate that, during 2005 and 2007, doctor-diagnosed arthritis affected more than half of persons with HD. In this group, the adjusted likelihood of physical inactivity was 30% higher compared with that of persons with

^{*} BRFSS survey data are available at http://www.cdc.gov/brfss/technical_infodata/surveydata.htm.

[†] The response rate is the percentage of persons who completed interviews among all eligible persons, including those who were not successfully contacted. The cooperation rate is the percentage of persons who completed interviews among all eligible persons who were contacted.

[§] Available at http://www.cdc.gov/brfss/questionnaires/pdf-ques/2005brfss.pdf and http://www.cdc.gov/brfss/questionnaires/pdf-ques/2007brfss.pdf.

U.S. Department of Health and Human Services. 1999 Physical activity and health: a report of the surgeon general. Atlanta, GA: US Department of Health and Human Services, CDC; 1996. Available at http://www.cdc.gov/nccdphp/sgr/sgr.htm. New guidelines were released in October of 2008 (2008 Physical Activity Guideline for Americans, available at http://www.health.gov/paguidelines).

TABLE 1. Percentage of respondents aged ≥18 years who reported heart disease and arthritis, heart disease only, arthritis only, or neither condition, by selected characteristics — Behavioral Risk Factor Surveillance System, United States, 2005 and 2007

						-			
	Unweighted	Heart dis	sease and arthritis	Heart	disease only	Arti	nritis only	Neith	er condition
Characteristic	No.	%	(95% CI*)	%	(95% CI)	%	(95% CI)	%	(95% CI)
Sex									
Male	286,066	3.9	(3.8-4.0)	3.8	(3.7-3.9)	18.7	(18.4-19.0)	73.6	(73.3 - 73.9)
Female	471,893	3.5	(3.4-3.6)	1.8	(1.7-1.9)	27.4	(27.2-27.6)	67.3	(67.0-67.6)
Age group (yrs)									
18–44	246,910	0.4	(0.4-0.5)	1.1	(1.0-1.2)	10.6	(10.4-10.8)	87.9	(87.7-88.1)
45-64	303,213	4.2	(4.1-4.3)	3.2	(3.0-3.3)	32.2	(31.9 - 32.5)	60.4	(60.1 - 60.8)
≥65	202,201	12.5	(12.2–12.8)	7.1	(6.9-7.3)	43.7	(43.2-44.1)	36.7	(36.3–37.1)
Race/Ethnicity									
White, non-Hispanic	605,447	4.1	(4.0-4.2)	2.8	(2.7-2.9)	25.6	(25.4-25.8)	67.5	(67.3-67.7)
Black, non-Hispanic	56,139	3.4	(3.2-3.6)	2.3	(2.1-2.6)	23.1	(22.4-23.7)	71.3	(70.6-71.9)
Hispanic	47,050	1.8	(1.6–2.1)	3.0	(2.6-3.3)	13.0	(12.4 - 13.6)	82.2	(81.5-82.9)
Other, non-Hispanic	42,325	3.3	(3.0-3.6)	2.6	(2.2-2.9)	18.0	(17.3-18.9)	76.1	(75.2 - 77.0)
Education level (yrs)									
<u>≤</u> 11	77,412	6.3	(6.0-6.6)	4.2	(3.9-4.5)	23.6	(22.9-24.2)	66.0	(65.3-66.7)
12	232,247	4.4	(4.2-4.5)	3.0	(2.9-3.2)	25.3	(25.0-25.7)	67.3	(66.9-67.7)
<u>≥</u> 13	446,791	2.8	(2.8-2.9)	2.4	(2.3-2.5)	22.0	(21.8-22.3)	72.8	(72.5 - 73.0)
BMI [†]									
Underweight/Normal	273,708	2.5	(2.4-2.6)	2.3	(2.2-2.4)	18.1	(17.9-18.4)	77.1	(76.8 - 77.4)
Overweight	263,204	3.7	(3.6-3.8)	3.1	(3.0-3.3)	23.6	(23.3-23.9)	69.5	(69.2-69.9)
Obese	187,106	5.7	(5.6–5.9)	3	(2.8–3.1)	30.7	(30.3–31.1)	60.6	(60.1–61.0)
Total§	757,959	3.7	(3.6–3.8)	2.8	(2.7-2.9)	23.2	(23.0-23.4)	70.4	(70.2–70.6)

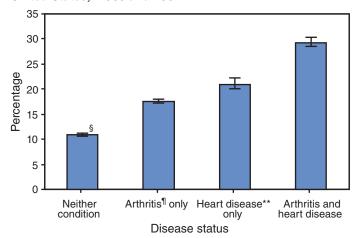
^{*} Confidence interval.

HD but without arthritis. State-specific estimates were generally consistent with the overall findings, with differences among states likely attributable to varying distributions of potential confounders (e.g., age, race, and education level). The analyses suggest that arthritis might be an additional barrier to being physically active among persons with HD.

The findings in this study are consistent with other research indicating that persons with both arthritis and HD might face additional barriers to increased physical activity (4). This study is the first to quantify the relationship using a population-based sample that provides both national and state-specific estimates of the prevalence and compares physical inactivity for persons with both conditions to those with HD alone.

Both HD and arthritis can interfere with physical functioning, ability to work, and ability to perform household tasks (4). These conditions also might interfere with efforts to become more physically active. Persons with arthritis face the same barriers to being more active as most adults, including lack of motivation and time, competing responsibilities, and difficulty finding an enjoyable activity (5). They also face additional barriers, such as concerns about aggravating arthritis pain and causing further joint damage, and they might be unsure about which types and amounts of activity are safe. Qualitative research suggests that persons with arthritis might experience short-term increases in pain when they initiate an

FIGURE. Physical inactivity among adults aged ≥18 years,* by disease status — Behavioral Risk Factor Surveillance System, United States,† 2005 and 2007



- * Includes all respondents reporting no activity when asked six questions about frequency and duration of participation in nonoccupational activities of moderate and vigorous intensity (i.e., lifestyle activities). All other respondents were classified as active. Questions available at http://www.cdc.gov/brfss/questionnaires/pdf-ques/2005brfss.pdf and http://www.cdc.gov/brfss/questionnaires/pdf-ques/2007brfss.pdf.
- † Includes all 50 states and the District of Columbia.
- § 95% confidence interval.
- [¶] Doctor-diagnosed arthritis was defined as a "yes" response to the question, "Have you ever been told by a doctor or other health professional that you have some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia?"
- ** Heart disease was defined as a "yes" response to at least one of two questions: "Has a doctor, nurse, or other health professional ever told you that you had... a heart attack, also called a myocardial infarction?" or "...angina or coronary heart disease?"

[†] Body mass index, calculated as weight (kg) / height (m)²; normal = 18.5–24.9, overweight = 25.0–29.9, and obese = \geq 30.0.

[§] Number of persons who provided a response for heart disease and for arthritis. Some categories might not add to total because of missing demographic data.

TABLE 2. Prevalence of arthritis among adults aged ≥18 years with heart disease, and prevalence of physical inactivity* among adults with heart disease, with and without arthritis, by state/area — Behavioral Risk Factor Surveillance System, United States,[†] 2005 and 2007

					Physic	cal inactivity amo	ong adults w	ith heart disease
		Arthritis among	adults wit	h heart disease		out arthritis		ith arthritis
	No. of	Weighted no.	,					
State/Area	respondents	(in 1,000s)§	%	(95% CI [¶])	%	(95% CI)	%	(95% CI)
Alabama	10,447	171	63.9	(59.7–67.8)	18.7	(13.8–24.8)	36.3	(31.6–41.2)
Maska	5,365	12	63.0	(54.5–70.8)	20.2	(11.8–32.3)	23.4	(13.9–36.7)
rizona	9,443	157	51.0	(44.4–57.5)	14.7	(8.6–24.0)	29.1	(22.6–36.5)
Arkansas	11,013	96	61.1	(57.7–64.4)	23.9	(19.1–29.5)	26.5	(22.9–30.5)
California	11,825	645	48.5	(43.8–53.3)	17.9	(12.9–24.3)	22.2	(16.8–28.8)
Colorado	17,887	79	54.6	(50.8–58.3)	17.7	(13.6–22.7)	20.5	(16.9–24.6)
Connecticut	12,777	79	53.9	(49.8–58.0)	17.5	(13.4–22.7)	22.9	(18.9–27.4)
Delaware	8,183	29	60.8	(56.1–65.3)	19.5	(14.2–26.3)	29.6	(24.4–35.4)
District of Columbia	7,700	12	61.5	(55.5–67.2)	16.3	(10.9–23.5)	31.2	(23.5–40.1)
lorida	47,739	591	55.5	(52.4–58.5)	24.7	(20.8–29.1)	29.1	(25.8–32.6)
Georgia	13,767	221	55.8	(51.7–59.8)	24.2	(18.9–30.4)	33.6	(29.3–38.2)
ławaii	13,019	23	46.9	(42.1–51.7)	15.1	(11.1–20.1)	21.3	(16.3–27.3)
daho	11,049	38	55.7	(50.5–60.8)	16.6	(12.0–22.6)	24.8	(20.7–29.5)
				,		,		, ,
linois	10,313	320	57.5	(52.9–61.9)	28.3	(21.9–35.6)	31.2	(26.6–36.2)
ndiana	11,626	211	61.9	(57.4–66.2)	17.3	(12.8–22.8)	25.6	(21.8–29.9)
owa	10,479	83	58.5	(54.5–62.4)	20.1	(15.6–25.4)	27.1	(22.8–31.8)
ansas	17,121	75	56.6	(53.5–59.7)	18.0	(14.9–21.5)	34.6	(31.2–38.2)
Centucky	13,536	151	56.1	(52.6–59.5)	38.0	(32.7-43.7)	50.3	(45.9–54.6)
ouisiana	9,620	126	55.4	(50.8–60.0)	36.4	(29.5-43.9)	40.8	(35.3–46.6)
1aine	10,790	44	61.4	(57.4–65.3)	20.0	(15.2-25.9)	27.2	(22.8-32.2)
laryland	17,461	138	59.4	(55.4-63.3)	17.6	(13.5-22.7)	26.2	(22.3-30.5)
Massachusetts	30,413	164	56.8	(53.6-59.8)	26.1	(21.6-31.1)	29.3	(25.8 - 33.0)
1ichigan	19,641	359	65.9	(63.2-68.5)	19.1	(15.5-23.2)	28.3	(25.3-31.6)
1innesota	7,603	105	52.3	(47.5-57.1)	20.5	(15.5-26.6)	20.8	(16.3-26.3)
Mississippi	12,257	109	68.6	(65.2-71.9)	31.0	(25.2-37.4)	35.2	(31.2 - 39.4)
1issouri	10,427	201	62.8	(58.6–66.8)	17.2	(12.5–23.1)	24.3	(20.3–28.8)
Montana (10,978	23	57.2	(52.9–61.4)	21.6	(15.9–28.6)	22.8	(18.4–27.8)
lebraska	19,276	45	61.2	(57.3–64.9)	24.3	(18.9–30.6)	27.1	(23.1–31.6)
levada	7,286	60	53.0	(46.7–59.2)	20.0	(12.8–29.8)	23.4	(17.0–31.2)
lew Hampshire	12,028	37	58.8	(54.8–62.6)	17.1	(13.0–22.1)	24.1	(20.2–28.6)
lew Jersey	20,899	225	53.5	(49.2–57.7)	22.0	(17.3–27.5)	32.4	(28.3–36.7)
lew Mexico	12,191	40	52.1	(48.0–56.2)	19.2	(15.0–24.3)	24.5	(20.3–29.3)
lew York	14,321	477	55.5	(51.4–59.4)	21.2	(16.6–26.7)	26.4	(22.5–30.8)
lorth Carolina	32,038	264	58.9	(56.4–61.3)	22.4	(19.1–26.1)	30.7	(28.1–33.4)
orth Dakota	8,761	17	56.2	(51.8–60.4)	21.3		23.6	(18.9–29.0)
Ohio				,		(16.1–27.7)		,
	18,727	377	62.2	(58.8–65.5)	17.1	(13.3–21.7)	28.6	(24.7–32.9)
Oklahoma	21,170	136	62.6	(59.5–65.5)	21.8	(18.0–26.2)	35.4	(31.8–39.1)
Dregon	16,966	84	56.6	(53.0–60.2)	14.8	(11.4–18.9)	22.9	(19.5–26.8)
Pennsylvania	26,609	422	63.0	(59.7–66.2)	19.6	(15.4–24.6)	27.5	(24.0–31.3)
Rhode Island	8,475	30	60.5	(55.9–64.8)	19.5	(14.2–26.1)	32.6	(27.2–38.4)
South Carolina	18,835	131	62.9	(59.9–65.9)	18.4	(14.6–22.9)	28.2	(24.8–31.8)
outh Dakota	13,786	23	60.3	(56.9–63.5)	20.4	(16.6–25.0)	31.5	(27.9–35.5)
ennessee	9,781	217	61.1	(55.7–66.2)	28.1	(20.9-36.7)	46.7	(41.5–52.0)
exas	23,760	555	51.7	(48.2–55.1)	20.2	(16.1-25.0)	32.2	(28.3-36.3)
ltah	10,216	38	54.6	(49.4-59.7)	13.5	(8.2-21.5)	24.8	(19.3-31.3)
ermont	13,699	18	60.3	(56.4-64.0)	15.3	(11.8-19.7)	26.0	(22.1 - 30.4)
irginia	11,696	198	55.6	(50.7-60.4)	15.5	(11.0-21.3)	27.4	(22.9-32.4)
/ashington	49,183	144	57.4	(55.2–59.6)	14.9	(12.6–17.6)	21.8	(19.7–24.2)
Vest Virginia	7,998	98	62.0	(58.6–65.3)	30.0	(24.8–35.8)	42.9	(38.7–47.2)
Visconsin	12,335	140	61.0	(56.3–65.6)	16.1	(10.9–23.2)	24.3	(19.9–29.3)
Vyoming	11,169	12	57.1	(53.0–61.2)	22.7	(16.8–29.9)	23.7	(19.5–28.5)
/ledian**	,	_	57.4	(/	19.5	(,	27.2	(= = ===)
uerto Rico	7,723	131	48.6	(44.6-52.6)	46.9	(40.8–53.0)	56.3	(51.1-61.4)
J.S. Virgin Islands	4,960	1	35.3	(27.4–44.1)	15.6	(8.4–27.2)	33.7	(20.9–49.3)

^{*}Physical activity level of respondents was determined from six questions that asked about frequency and duration of participation in nonoccupational activities of moderate and vigorous intensity; those reporting no participation in such activities were classified as inactive (engaged in no nonoccupational physical activity); all others were classified as active.

[†] Includes all 50 states, the District of Columbia, Puerto Rico, and the U.S. Virgin Islands.

[§] Weighted annual average number of adults with heart disease who also have arthritis.

[¶] Confidence interval.

^{**} Does not include Puerto Rico or the U.S. Virgin Islands.

exercise program, but that continued participation results in a long-term reduction in symptoms (5).

The findings in this report are subject to at least four limitations. First, arthritis, HD, and physical activity are self-reported and unconfirmed by a health-care provider or objective monitoring; however, such self-reports are considered valid for surveillance purposes (6). Second, BRFSS excludes persons without landline telephones, persons in the military, and those residing in institutions. Estimates are weighted to the population, thus partially correcting for this, but effects might be unpredictable. Third, state prevalence estimates were not adjusted for population characteristics (e.g., age); therefore, comparisons between states should be made with caution. Finally, BRFSS response rates were low; BRFSS weighting procedures partially correct for nonresponse, but the effect of low response rates is uncertain.

Specially tailored self-management education interventions, such as the Chronic Disease Self Management Program and the arthritis-specific Arthritis Foundation (AF) Self-Help Program, help adults learn to manage arthritis pain and discuss how to safely increase physical activity (7). Several exercise programs, including EnhanceFitness, the AF Exercise Program, and the AF Aquatics Program, are available in many communities and are appropriate for adults with HD and arthritis. Self-directed physical activities, including low-impact activities such as walking, swimming, and biking, also are appropriate for adults with both conditions.**

Greater integration of heart disease and arthritis intervention efforts by health-care providers, payers, and health departments might better address the effects of these co-occurring conditions. Increasing physical activity (e.g., through aerobic exercise and strength training) can benefit persons with arthritis, HD, or both conditions (8,9) by improving physical function and lowering blood pressure and low-density lipoprotein cholesterol levels. Health-care providers should consider whether arthritis-related barriers contribute to physical inactivity in their HD patients and should help those patients learn how to overcome arthritis-specific barriers by providing appropriate advice and referrals. HD patients with arthritis should be encouraged to reduce sedentary behavior; appropriate physical activity might include moderate-intensity aerobics and muscle-strengthening exercises (10).

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Completeness and Timeliness of Reporting of Meningococcal Disease — Maine, 2001–2006

Neisseria meningitidis is an important cause of invasive bacterial disease in the United States (1), with a total of 1,077 cases of meningococcal disease reported in 2007 (2). The case-fatality ratio is 10%–14%, and 11%–19% of survivors have long-term sequelae (1). In the United States, approximately 98% of cases of meningococcal disease occur sporadically; outbreaks are uncommon (1). Chemoprophylaxis is the primary means of preventing meningococcal disease among close contacts of patients in sporadic cases (1), and the ability of health departments to identify these contacts and provide treatment depends on the completeness and timeliness of disease reporting. To assess these attributes in meningococcal disease surveillance in Maine, the Maine Department of Health and Human Services (MDHHS) analyzed public health surveillance data from MDHHS and hospital discharge data from the Maine Health Data Organization (MHDO) for the period 2001–2006. This report describes the results of that analysis, which indicated that the completeness of reporting of meningococcal disease in Maine during this period was approximately 98%. Of cases reported to MDHHS, 56% were reported within 1 day of hospital admission. Passive disease surveillance efforts appear

^{**} Additional information available at http://www.cdc.gov/arthritis/campaigns/ physical_activity/index.htm.

to have achieved near complete reporting of meningococcal disease in Maine; however, timeliness of reporting was sometimes suboptimal. Evaluation of surveillance efforts should be repeated periodically to determine whether completeness of reporting remains high and timeliness improves.

Maine law requires that all health-care providers, laboratories, and health-care facilities report meningococcal disease (upon recognition or strong suspicion) immediately by telephone to MDHHS. Reports are assigned to epidemiologists for investigation. Reports meeting the Council of State and Territorial Epidemiologists (CSTE) and CDC case definition for meningococcal disease* are entered in the National Electronic Disease Surveillance System.† Beginning in 2006, the CSTE-CDC case definition was revised to include suspected cases of meningococcal disease; in previous years, the case definition only included categories for confirmed and probable cases.

MHDO maintains the state's hospital discharge dataset, which includes inpatient and outpatient visits for all nonfederal, acute-care hospitals in the state. *International Classification of Diseases, 9th Revision* (ICD-9) codes 036.0–036.9 (for meningococcal disease) were used to identify patients with meningococcal disease. The dataset did not contain patient names, so MHDO data were matched with MDHHS data for the period 2001–2006 using date of birth, admission date, and hospital. Persons who were in both datasets were considered to have verified cases of meningococcal disease. Hospital records were reviewed for patients who were in the MHDO dataset but who had not been reported to MDHHS.

The utility of various ICD-9 codes and clinical settings for identifying cases of meningococcal disease from the MHDO dataset was examined by calculating sensitivity and positive predictive value (PPV) (Table 1). The completeness of meningococcal disease reporting was estimated by the Sekar-Deming capture-recapture method (3)§ (Table 2). The capture-recapture method provides an estimate of the actual total number of cases (reported or unreported) and the completeness of disease reporting using data from two independent surveillance systems (3). This technique requires being able to identify cases found in both surveillance systems, cases found only by the first surveillance system, and cases found only by

the second surveillance system (3). Cases that could not have been reported to both MDHHS and MHDO were excluded from the capture-recapture analysis. These cases included out-of-state residents hospitalized in Maine who would not have been included in MDHHS records and Maine residents hospitalized out of state or at a Veterans Health Administration (VHA) facility in the state who would not have been included in the MHDO dataset. Timeliness of reporting was assessed by determining the difference in days between hospital admission and notification to MDHHS.

A total of 52 cases of meningococcal disease were reported to MDHHS during 2001-2006. These cases included two that occurred in Maine residents hospitalized out-of-state and one in a person hospitalized at a VHA facility in Maine. A total of 107 patients were identified in the MHDO dataset. A total of 42 patients were in both the MHDO and MDHHS datasets and were considered to have verified cases of meningococcal disease. Hospital records were reviewed for the 65 patients who were in the MHDO dataset but not in the MDHHS dataset. Nine (14%) of these patients were determined to have had meningococcal disease using the CSTE-CDC case definition; these included eight cases in out-of-state residents hospitalized in Maine. The remaining 56 patients in the MHDO dataset did not meet the CSTE-CDC case definition. Of these 56, 19 (34%) had meningeal signs but neither clinical purpura fulminans nor laboratory evidence of N. meningitides; 15 (27%) were coded incorrectly (e.g., with diagnoses other than meningococcal disease); 13 (23%) had noninvasive infections (e.g., a positive sputum culture for *N. meningitides*); and nine (16%) had medical records that were missing or incomplete.

In the analysis of the utility of various ICD-9 codes for identifying cases of meningococcal disease using MHDO data, sensitivity (92%) and PPV (53%) were highest when a combination of code 036.0 (meningococcal meningitis) or 036.2 (meningococcemia) was used (Table 1). Other ICD-9 codes for meningococcal disease (036.1 and 036.3-036.9) had poor sensitivity and PPV. Inpatient data were more sensitive and had higher PPV than outpatient data. The completeness of reporting for meningococcal disease to MDHHS was estimated at 97.6% (95% confidence interval = 95.9%-99.3%) (Table 2), based on MDHHS receiving reports on 49.0 of 50.2 total cases. Information was sufficient to assess timeliness of reporting for 43 (83%) of 52 cases reported to MDHHS. Reports were received in a median of 1 day (range: 0-11 days); 35% of cases were reported to MDHHS on the day of hospital admission, 56% were reported within 1 day, and 79% were reported within 2 days. No secondary cases of meningococcal disease among close contacts of patients with meningococcal disease were reported in Maine during the study period.

^{*}Case definition available at http://www.cdc.gov/ncphi/disss/nndss/casedef/case_definitions.htm.

[†] Additional information available at http://www.cdc.gov/nedss.

[§] Completeness of reporting was calculated as R / N, and the 95% confidence interval was calculated as R / N \pm 1.96 Var (N)^{1/2} where Var (N) = (R x S x N₁ x N₂) / C³. R = number of cases identified in MDHHS dataset, N = estimated total number of cases of meningococcal disease in Maine during 2001–2006 calculated as C + N₁ + N₂ + X where X = (N₁ x N₂) / C, S = number of cases identified in MHDO dataset, N₁ = number of cases identified only in MDHHS dataset, N₂ = number of cases identified only in MHDO data, and C = number of cases identified in both MDHHS and MHDO datasets.

TABLE 1. Sensitivity and positive predictive value of hospital discharge data to identify meningococcal disease, by diagnostic code and clinical setting — Maine, 2001–2006

	Cases*	Noncases	Sensitivity	Positive predictive value
	Cases	Noncases	(%) [†]	(%)§
ICD-9 [¶] code				
036.0 (meningococcal meningitis)	19	31	37	38
036.2 (meningococcemia)	28	11	55	72
036.0 or 036.2	47	42	92	53
036.1 or 036.3-036.9	4	14	8	22
Clinical setting				
Inpatient	49	20	96	71
Outpatient	2	36	4	5
Total	51	56	100	48

^{*} Meeting the Council of State and Territorial Epidemiologists and CDC case definition for meningococcal disease, available at http://www.cdc.gov/ncphi/disss/nndss/casedef/case_definitions.htm. Cases included persons with meningococcal disease in both Maine Health Data Organization (MHDO) and Maine Department of Health and Human Services datasets (n = 42) and those reported only to MHDO (n = 9). Eight persons who were reported only to MHDO were out-of-state residents hospitalized in Maine.

TABLE 2. Estimated completeness* of reporting for meningococcal disease — Maine, 2001–2006

		Maine Departm	ent of Health and H (MDHHS)	luman Services
		Cases [†] reported	Cases not reported	All cases
	Cases§ reported	(C)	(N ₂)	(S)
Maine Health	Cases ³ reported	42	1	43
Data	Cases not	(N ₁)	(X)	
Organization	reported	7	0.2¶	7.2
(MHDO)	Allegae	(R)		(N)
	All cases	49	1.2	50.2**

^{*} Calculated by using the Sekar-Deming capture-recapture method (3). Calculated estimates are in *italics*. Completeness of reporting was calculated as R / N, and the 95% confidence interval was calculated as R / N \pm 1.96 Var (N) $^{1/2}$ where Var (N) = (R x S x N $_1$ x N $_2$) / C 3 . R = number of cases identified in MDHHS dataset, N = estimated total number of cases of meningococcal disease in Maine during 2001–2006, S = number of cases identified in MHDO dataset, N $_1$ = number of cases identified only in MDHHS dataset, N $_2$ = number of cases identified only in MHDO dataset, and C = number of cases identified in both MDHHS and MHDO datasets.

Reported by: V Rea, MPH, Maine Dept of Health and Human Svcs and Univ of Southern Maine. A Pelletier, MD, Coordinating Office for Terrorism Preparedness and Emergency Response, CDC.

Editorial Note: Because of the severity of meningococcal disease symptoms, nearly all patients are treated in a hospital or emergency department setting. This results in a dataset (i.e., hospital discharge data) that can be compared with

public health surveillance records to estimate the completeness of reporting to health departments using the capture-recapture technique (3). Most other nationally notifiable conditions either 1) do not result in routine hospitalization (e.g., salmonellosis) or 2) do not occur frequently enough at the state level (e.g., botulism) to allow use of the capture-recapture technique. Therefore, meningococcal disease provides an uncommon opportunity to assess completeness of reporting using hospital discharge data.

Six other studies using the capturerecapture technique to compare health department data with hospital discharge data have described the completeness of meningococcal disease reporting. The results have ranged from 64% to 95%, with a median value of 94% (4–9). The only published study from the United States was conducted in New York State in 1991 and reported 93% completeness (4). Completeness of reporting for meningococcal disease likely is considerably higher than for most other notifiable conditions because of the severity of the illness and the availability of a widely accepted public health intervention.

Although most cases of meningococcal disease were reported to MDHHS in a timely manner, 44% were reported more than 1 day after hospital admission. In the 1991 New York study, 34% of cases were reported more than 1 day after diagnosis (4). Timeliness of reporting is important for this disease because chemoprophylaxis of close contacts of an index patient is most effective when administered as soon as possible; ideally, chemoprophylaxis should be started within 24 hours after

identification of the index case, but not later than 14 days after illness onset (1).

During the attempt to identify cases of meningococcal disease in the MHDO dataset, certain diagnostic codes (i.e., 036.1 and 036.3–036.9) and outpatient data had poor sensitivity and PPV. Because each potential case required medical record

[†] Calculated as follows: [(cases) / 51] x 100%.

[§] Calculated as follows: [(cases) / (cases + noncases)] x 100%.

[¶]International Classification of Diseases, 9th Revision.

[†] Meeting the Council of State and Territorial Epidemiologists and CDC case definition for meningo-coccal disease, available at http://www.cdc.gov/ncphi/disss/nndss/casedef/case_definitions.htm. Cases excluded were those in Maine residents hospitalized out of state (n = 2) and in patients hospitalized at Veterans Health Administration facilities in Maine (n = 1).

[§] Meeting the Council of State and Territorial Epidemiologists and CDC case definition for meningococcal disease. Cases excluded were in out-of-state residents who were hospitalized in Maine (n = 8).

[¶] Estimated number of cases not reported to either MDHHS or MHDO. Calculated as follows: $X = (N_1 \times N_2) / C$.

^{**} Estimated number if all cases were reported. Calculated as follows: $N = C + N_1 + N_2 + X$.

review for confirmation, considerable effort was required to identify a small number of actual cases. For example, of 38 reports of meningococcal disease among outpatients in the hospital discharge dataset, only two (5%) cases were verified after reviewing medical records.

The findings in this report are subject to at least two limitations. First, the two data systems used in this analysis might not have been completely independent because information from hospitals was included in both MHDO and MDHHS datasets. This type of dependence between data sources might result in an overestimate of the completeness of reporting (10). Second, some of the 19 patients in the MHDO dataset with meningeal signs, but neither clinical purpura fulminans nor laboratory evidence of *N. meningitides*, might have met the definition for a suspected case if such a category had existed before 2006. This might have affected the estimate for the completeness of reporting.

Passive disease surveillance efforts appear to have been adequate for achieving near complete reporting of meningococcal disease in Maine; however, timeliness of reporting was sometimes suboptimal. Evaluation of this surveillance system should be repeated periodically to determine whether completeness of reporting remains high and timeliness improves. Other attributes of surveillance systems (e.g., simplicity, representativeness, and acceptability) also should be assessed in future evaluations. In Maine, a delay of approximately 18 months after the end of a calendar year occurs before hospital discharge data for that year become available. This delay limits usage of the data for public health surveillance. When hospital discharge data become available on a real-time basis in Maine, MDHHS will need to determine how best to use this information, given the apparent limitations of ICD-9 codes in the MHDO dataset for identifying cases of meningococcal disease.

Acknowledgments

The findings in this report are based, in part, on contributions by E Bartlett, Houlton Regional Hospital; T Beaulier-Fuller, Aroostook Medical Center; C Bouley, Mercy Hospital; S Dirrigl, Southern Maine Medical Center; D Dunton, H Elliot, D Fenn, and D McKenney, Eastern Maine Medical Center; P Hadley, Franklin Memorial Hospital; E King, Maine General Hospital; B MacPike, Maine Coast Memorial Hospital; D Peabody, St. Joseph Healthcare; C Reeder, York Hospital; P Rybak, Mercy Hospital; D Skalina, Central Maine Medical Center; D Theriault, St. Mary's Hospital; B Wagner, Maine Medical Center; S Whiting, Reddington-Fairview Hospital; P Carson, D Guppy, L LaRochelle, L Parker, and A Robbins, Maine Dept of Health and Human Svcs; and D Baughman and A Cohn, Div of Bacterial Diseases, National Center for Immunization and Respiratory Diseases, CDC.

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Notice to Readers

Public Health Law 101

CDC's Public Health Law Program has developed "Public Health Law 101," a new foundational course on public health law, as a learning resource for public health practitioners, students, and others. The course comprises nine slide lecture units for delivery to health departments by legal counsel and other persons trained in law. The slide units can be downloaded free of charge from the Public Health Law Program's website at http://www2a.cdc.gov/phlp/phl101.

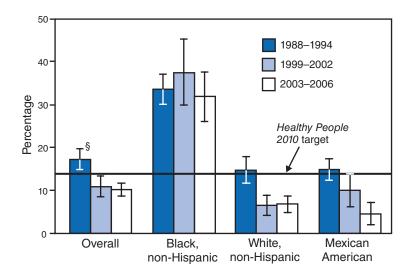
Erratum: Vol. 58, No. RR-1

In the MMWR Recommendations and Reports "Guidelines for Field Triage of Injured Patients: Recommendations of the National Expert Panel on Field Triage," an error occurred on page CE-4. The correct answer to question 6 is "D."

QuickStats

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Percentage of Adults Aged 20–29 Years with Genital Herpes* Infection, by Race/Ethnicity[†] — National Health and Nutrition Examination Survey, United States, 1988–1994, 1999–2002, and 2003–2006



- * As determined by herpes simplex virus, type 2 (HSV-2) antibody.
- [†] For all years, the categories black and white include persons who reported only one racial group and exclude persons of Hispanic ethnicity. Persons of Mexican-American ethnicity might be of any race.
- § 95% confidence interval.

The percentage of adults aged 20–29 years with genital herpes infection decreased from 17% during 1988–1994 to 10% during 2003–2006, below the *Healthy People 2010* target of 14% (objective 25-4). Rates of genital herpes infection among non-Hispanic blacks were significantly higher than rates among non-Hispanic whites and Mexican Americans.

SOURCES: National Health and Nutrition Examination Survey, 1988–2006. Available at http://www.cdc.gov/nchs/nhanes.htm.

Healthy People 2010 database. Available at http://wonder.cdc.gov/data2010.

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TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending February 21, 2009 (7th week)*

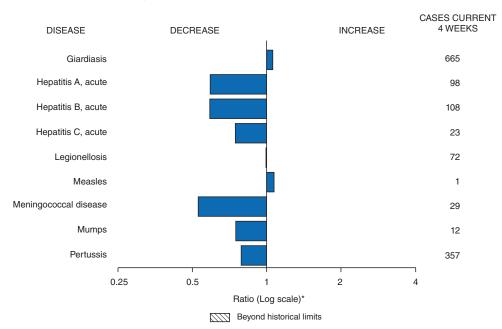
week chang residuary 21, 2000 (rail week	Current	Cum	5-year weekly			ases re		i	States reporting cases
Disease	week	2009	average†	2008	2007	2006	2005	2004	during current week (No.)
Anthrax			0	_	1	1	_		
Botulism:									
foodborne	_	3	_	14	32	20	19	16	
infant	1	4	2	100	85	97	85	87	FL (1)
other (wound and unspecified)	1	3	0	22	27	48	31	30	CA (1)
Brucellosis	1	3	2	83	131	121	120	114	CA (1)
Chalcra	_	4	1 0	29 3	23 7	33 9	17 8	30 6	
Cholera	_	12	2						
Cyclosporiasis [§] Diphtheria	_	13	_	132	93	137	543	160	
Domestic arboviral diseases ^{§,¶} :			_		_	_	_	_	
California serogroup	_	_	_	41	55	67	80	112	
eastern equine	_	_	_	3	4	8	21	6	
Powassan	_	_	_	1	7	1	1	1	
St. Louis	_	_	_	10	9	10	13	12	
western equine	_	_	_	_	_	_	_	_	
Ehrlichiosis/Anaplasmosis§,**:									
Ehrlichia chaffeensis	2	13	2	906	828	578	506	338	MN (1), GA (1)
Ehrlichia ewingii	_	_	_	9	_	_	_	_	
Anaplasma phagocytophilum	_	2	1	586	834	646	786	537	
undetermined	_	_	0	72	337	231	112	59	
Haemophilus influenzae,††									
invasive disease (age <5 yrs):		_					_		
serotype b	_	2	0	29	22	29	9	19	
nonserotype b	_	23	4	183	199	175	135	135	140 (4) 47 (4)
unknown serotype	2	26	4	187	180	179	217	177	MO (1), AZ (1)
Hansen disease§	1	9	1	73	101	66	87	105	CA (1)
Hantavirus pulmonary syndrome§ Hemolytic uremic syndrome, postdiarrheal§	1	7	0 2	16 262	32 292	40 288	26 221	24 200	OH (1)
Hepatitis C viral, acute	7	75	16	860	845	766	652	720	NY (1), OH (3), NC (1), KY (1), OR (1)
HIV infection, pediatric (age <13 years)§§		<i>73</i>	4	_	-	700	380	436	NT (1), OTT (3), NO (1), NT (1), OTT (1)
Influenza-associated pediatric mortality [§] ,¶¶	8	18	3	88	77	43	45		AZ (1), CO (2), MA (1), TX (4)
Listeriosis	7	55	8	705	808	884	896	753	MI (1), CA (6)
Measles***	_	2	1	135	43	55	66	37	(1), 571 (5)
Meningococcal disease, invasive†††:									
A, C, Y, and W-135	5	20	8	318	325	318	297	_	FL (3), ID (1), CO (1)
serogroup B	2	8	4	171	167	193	156	_	OH (2)
other serogroup	_	2	1	30	35	32	27	_	
unknown serogroup	5	48	18	597	550	651	765	_	PA (1), OH (1), FL (1), CA (2)
Mumps	2	31	15	408		6,584	314	258	KS (1), NC (1)
Novel influenza A virus infections	_	_	_	2	4	N	N	N	
Plague	_	_	0	1	7	17	8	3	
Poliomyelitis, paralytic	_	_	_	_	_	_	1		
Polio virus infection, nonparalytic§	_	_	_		_	N	N	N	
Psittacosis [§] Q fever total ^{§,§§§} :	_	1 4	0 2	10 103	12 171	21 169	16 136	12 70	
acute	_	3	1	91		109	130	70	
chronic	_	1		12	_	_	_	_	
Rabies, human			_	1	1	3	2	7	
Rubella ^{¶¶}	_	1	0	16	12	11	11	10	
Rubella, congenital syndrome	_	i	0	_		1	1	_	
SARS-CoV§,****	_		_	_	_			_	
Smallpox§	_	_	_	_	_	_	_	_	
Streptococcal toxic-shock syndrome§	_	4	3	137	132	125	129	132	
Syphilis, congenital (age <1 yr)	_	_	5	_	430	349	329	353	
Tetanus	_	1	0	16	28	41	27	34	
Toxic-shock syndrome (staphylococcal)§	_	6	2	69	92	101	90	95	
Trichinellosis	2	6	0	37	5	15	16	5	CA (2)
Tularemia	_	3	0	111	137	95	154	134	
Typhoid fever	6	39	6	420	434	353	324	322	PA (1), MN (1), FL (1), CA (3)
Vancomycin-intermediate Staphylococcus aureus		3	0	44	37	6	2	_	
Vancomycin-resistant Staphylococcus aureus§	_		_		2	1	3	1	
Vibriosis (noncholera <i>Vibrio</i> species infections)§	_	15	1	467	549	N	N	N	
Yellow fever									

See Table I footnotes on next page.

TABLE I. (Continued) Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending February 21, 2009 (7th week)*

- -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts.
 - * Incidence data for reporting year 2008 and 2009 are provisional, whereas data for 2004, 2005, 2006, and 2007 are finalized.
 - † Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf.
 - § Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
 - Includes both neuroinvasive and nonneuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.
- ** The names of the reporting categories changed in 2008 as a result of revisions to the case definitions. Cases reported prior to 2008 were reported in the categories: Ehrlichiosis, human monocytic (analogous to *E. chaffeensis*); Ehrlichiosis, human granulocytic (analogous to *Anaplasma phagocytophilum*), and Ehrlichiosis, unspecified, or other agent (which included cases unable to be clearly placed in other categories, as well as possible cases of *E. ewingii*).
- †† Data for H. influenzae (all ages, all serotypes) are available in Table II.
- §§ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
- 11 Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Seventeen influenza-associated pediatric deaths occurring during the 2008-09 influenza season have been reported.
- *** No measles cases were reported for the current week.
- ††† Data for meningococcal disease (all serogroups) are available in Table II.
- §§§ In 2008, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
- 199 The one rubella case reported for the current week was unknown.
- **** Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals February 21, 2009, with historical data



^{*} 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.

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TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

			Chlamydi	a [†]			Cocc	idiodomy	cosis			Cry	ptosporidi	osis	
		Prev					Prev						rious		
B	Current	52 w		Cum	Cum	Current	52 w		Cum	Cum	Current		veek	Cum	Cum
Reporting area United States	week	Med	Max 41 525	2009 124.471	140.247	108	Med 124	Max 343	2009 928	2008 961	<u>week</u> 38	Med 106	Max 459	2009 358	2008 458
New England	11,765 323	21,415 709	41,535 1,635	4,871	142,347 4,137	108	0	343 0	928	961	36	4	459 20	356 9	458 63
Connecticut	_	221	1,282	971	625	N	0	Ö	N	Ň	_	0	3	3	38
Maine§ Massachusetts	41 216	51 327	72 1,017	380 2,877	344 2,438	N N	0 0	0	N N	N N	_	1 0	6 9	2	 12
New Hampshire	3	40	63	130	311		0	0	<u> </u>	1	_	1	4	3	4
Rhode Island§	46	54	208	367	400	N	0	0	<u> </u>		_	0	3	_ 1	_
Vermont§ Mid. Atlantic	17 2,498	19 2,755	53 5,387	146 18,475	19 16,735	N	0	0	N	N 	_	1 13	7 34	42	9 55
New Jersey	202	430	635	1,710	3,027	N	Ö	Ö	N	N		0	2	_	4
New York (Upstate)	528	555	3,163	3,225	2,322	N	0	0	N	N	_	4	17	18	8
New York City Pennsylvania	1,278 490	1,099 779	3,410 1,074	8,623 4,917	5,480 5,906	N N	0	0 0	N N	N N	_	1 5	6 15	8 16	16 27
E.N. Central	1,131	3,056	24,584	15,947	22,849	2	1	3	3	5	9	25	125	74	101
Illinois Indiana	95 241	638 379	22,152 713	4,236 2.480	4,531 2,806	N N	0	0 0	N N	N N	_	2	13 13	3 5	13 9
Michigan	604	843	1,226	5,990	5,956	_	0	3		4	2	5	13	19	24
Ohio	30	804	1,346	1,788	6,410	2	0	2	3	1	6	6	59	36	27
Wisconsin	161	293	488	1,453	3,146	N	0	0	N	N	1	9	46	11	28
W.N. Central lowa	893	1,278 175	1,541 239	7,952 910	8,929 1,206	N	0	2 0	N	N	<u>8</u>	16 4	68 30	40 5	55 17
Kansas Minnesota	413	181 271	362 311	1,522 1,215	1,160 2,105	N	0	0 0	N	N	3	1 4	8 15	3 11	5 11
Missouri	390	489	566	3,318	3,203	_	0	2	_	_	2	3	13	10	5
Nebraska [§]	21	81	244	507	601	N	0	0	N	N	3	1	8	7	11
North Dakota South Dakota	13 56	30 56	58 85	53 427	283 371	N N	0 0	0	N N	N N	_	0 1	2 9	4	1 5
S. Atlantic	1,741	3,732	6,326	20,836	25,894	_	0	1	3	_	15	19	47	118	81
Delaware	· —	70	151	668	459	_	0	1	1	_	_	0	1	_	3
District of Columbia Florida	74 1,264	127 1,370	201 1,571	858 9.538	910 8.548	N	0 0	0	 N	N	<u> </u>	0 8	2 35	39	1 39
Georgia	6	581	1,308	1,610	4,014	N	0	0	N	N	4	5	13	52	19
Maryland [§] North Carolina	_	430 0	693 460	1,446	2,703 2,235	 N	0	1 0	2 N	N	<u> </u>	1 0	4 16	3 20	7
South Carolina§	_	475	3,040	2,997	3,701	N	Ö	0	N	N	1	1	4	2	5
Virginia [§] West Virginia	369 28	618 61	1,059 102	3,267 452	2,854 470	N N	0	0	N N	N N	_	1 0	4 3	1 1	3 4
E.S. Central	620	1,581	2,022	9,891	10,630	_	0	0	_		1	3	9	11	15
Alabama§	_	428	531	1,428	3,433	N	0	Ö	N	N	_	1	6	3	8
Kentucky Mississippi	255 339	240 419	373 770	1,742 3,257	1,559 2,153	N N	0 0	0	N N	N N	1	0	4 2	3 3	3 1
Tennessee§	26	538	790	3,464	3,485	N	Ö	Ŏ	Ň	N	_	1	6	2	3
W.S. Central	1,959	2,821	3,503	18,032	18,765	_	0	1	_	_	2	7	164	4	18
Arkansas [§] Louisiana	303	274 418	455 775	2,141 1,843	1,891 2,017	N —	0	0 1	N	N	1	0 1	7 5	1	1 4
Oklahoma	159	197	392	683	1,506	N	0	0	N	N	1	1	16	3	6
Texas§	1,497	1,910	2,469	13,365	13,351	N 04	0	0	N 677	N 607	_	3	149 37		7
Mountain Arizona	715 322	1,256 467	1,950 650	5,294 2,285	9,693 3,001	84 84	88 86	181 179	677 667	607 585	_	8 1	9	21 3	31 8
Colorado	_	196	588	756	2,530	N	0	0	N	N	_	1	12	5	5
Idaho [§] Montana [§]	20	58 56	314 87	34 319	510 427	N N	0	0	N N	N N	_	1	5 3	2 2	8 4
Nevada [§]	288	175	415	1,238	1,439	_	0	6	7	9	_	0	1	2	_
New Mexico§ Utah	_	124 104	455 253	194 155	861 831	_	0 0	3 1	1 2	6 7	_	2 0	23 6	5	3
Wyoming§	85	33	58	313	94	_	ő	i	_	<u>'</u>	_	ő	4	2	_
Pacific	1,885	3,700	4,419	23,173	24,715	22	35	172	245	348	3	8	29	39	39
Alaska California	1,242	85 2,876	184 3,264	516 18,515	527 18,887	N 22	0 35	0 172	N 245	N 348	3	0 5	1 14	1 25	 29
Hawaii	68	102	161	590	745	N	0	0	N	N	_	0	1	_	_
Oregon [§] Washington	294 281	185 400	631 527	1,332 2,220	1,444 3,112	N N	0 0	0	N N	N N	_	1	4 16	11 2	7 3
American Samoa	_	0	14	_,	29	N	0	0	N	N	N	0	0	N	N
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	<u></u>	_	_	_	
Guam Puerto Rico	162	4 119	24 333	1,054	12 584	N	0	0	N	N	N	0	0 0	N	N
U.S. Virgin Islands	_	12	23		77	_	0	0	_	_		0	0	_	_

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly.

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

			Giardiasi	s				Gonorrhe	а		Нае		s <i>influenz</i> s, all sero		ive
			rious reeks					vious weeks					rious reeks		
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008
United States	115	307	600	1,464	1,761	2,645	5,748	14,992	30,252	40,801	24	47	87	301	459
New England	5	23	49	79	168	27	101	299	614	549	_	2	8	12	28
Connecticut	_ 1	5	14	22	38	_	51	272	205	126	_	0	7	5	
Maine§ Massachusetts		3 6	12 17	26 —	12 68	1 20	2 38	6 123	13 339	9 354	_	0	2 4	2	22
New Hampshire	_	3	11	8	16	2	2	6	12	9	_	0	1	3	1
Rhode Island§	2	1	8	8	14	3	5	13	39	50	_	0	7	1	_
Vermont§	2	3	15	15	20	1	1	3	6	1	_	0	3	1	3
Mid. Atlantic New Jersey	26	60 4	108 14	249	334 66	493 41	611 96	990 167	3,739 319	3,762 801	6	10 1	18 5	57 —	80 21
New York (Upstate)	19	21	67	112	87	85	116	480	646	615	3	3	14	23	17
New York City	1	16	30	67	92	261	203	633	1,625	825	_	1	6	2	12
Pennsylvania	6	16	46	70	89	106	209	268	1,149	1,521	3	4	10	32	30
E.N. Central Illinois	4	47 11	88 32	182 24	300 80	377 27	1,034 190	10,422 9,613	5,340 1,385	8,660 1,437	2	7 2	18 7	40 8	79 31
Indiana	N	0	7	N	N	91	147	254	926	1,237	1	1	13	9	9
Michigan	_	12	22	52	56	194	306	657	2,048	2,471	_	0	2	2	4
Ohio Wisconsin	4	17 8	31 20	88 18	109 55	11 54	271 76	531 141	516 465	2,583 932	1	2	6 2	18 3	27 8
W.N. Central	10	29	143	138	132	170	315	392	1,856	2,346	2	3	12	22	37
lowa	_	6	143	28	36	_	29	50	1,030	223	_	0	1	_	1
Kansas	3	3	11	19	15	72	41	83	370	295	_	0	3	2	1
Minnesota Missouri	1 6	0 8	106 22	1 61	12 40	— 83	55 148	78 193	214 939	519 1,071	_ 1	0 1	10 4	4 10	9 19
Nebraska§	_	4	10	19	20	10	25	49	155	188	i	Ó	2	6	6
North Dakota	_	0	.3		4	1	2	6	4	22	_	0	3	_	1
South Dakota	_	2	10	10	5	4	8	20	62	28	_	0	0	_	_
S. Atlantic Delaware	42 —	58 1	96 3	447 3	279 4	471	1,276 19	2,008 44	5,976 134	8,632 159	10	12 0	24 2	99	121 1
District of Columbia	_	i	5	_	5	30	54	101	364	305	_	0	2	_	2
Florida	30	27	57	243	128	340	437	518	2,846	3,191	6	3	9	37	27
Georgia Maryland [§]	<u> </u>	9 5	56 10	136 25	71 29	2	229 114	481 212	527 349	1,546 860	3	2 1	9 5	21 15	35 26
North Carolina	N	0	0	N N	29 N	_	0	831	349	219	1	1	9	11	6
South Carolina§	2	2	6	10	14	_	175	829	886	1,407	<u>.</u>	i	7	3	6
Virginia§	5	8	29	28	19	96	182	486	786	841	_	1	6	3	12
West Virginia	_	1	5	2	9	3	14	26	84	104	_	0	3	9	6
E.S. Central Alabama§	_	8 4	22 12	17 5	48 31	155	544 163	764 213	3,107 505	3,936 1,424	1 1	3 0	8 2	16 3	23 4
Kentucky	N	Ö	0	Ň	N	51	89	153	528	614	<u>.</u>	ő	1	1	_
Mississippi	N	0	0	N	N	94	143	285	1,038	806	_	0	2	_	2
Tennessee§	_	3	13	12	17	10	164	297	1,036	1,092	_	2	6	12	17
W.S. Central Arkansas§	2 1	8 2	21 8	26 6	25 10	561 118	952 85	1,299 167	5,331 650	6,757 630	_	2	17 2	11 1	11
Louisiana		2	10	11	9	_	165	317	679	1,136	_	ő	1	i	1
Oklahoma	1	3	11	9	6	83	72	141	267	639	_	1	16	9	9
Texas [§]	N	0	0	N	N	360	614	729	3,735	4,352	_	0	2	_	1
Mountain Arizona	9 1	27 3	62 8	117 19	158 14	100 26	197 62	337 86	641 257	1,555 469	2 2	5 2	12 6	37 24	62 30
Colorado	8	10	27	41	56	_	56	101	104	399	_	1	5	5	11
Idaho§	_	3	14	11	21	_	3	13	_	25	_	0	4	1	_
Montana [§] Nevada [§]	_	1 1	9 8	14 5	8 12	1 70	2 35	6 129	10 236	13 379	_	0	1 2		1 3
New Mexico§	_	i	8	2	17	_	22	47	19	195	_	ő	4	3	8
Utah	_	6	18	19	26	_	8	19	5	69	_	0	5	2	9
Wyoming [§]		0	3	6	4	3	2	9	10	6	_	0	2	_	_
Pacific Alaska	17 —	56 2	140 10	209 6	317 8	291	589 11	716 19	3,648 81	4,604 62	1	2	6 1	7 2	18 2
California	16	34	59	157	237	215	488	591	3,057	3,789	_	0	3	_	7
Hawaii	_	0	4	1	3	3	11	22	58	85	1	0	2	3	1
Oregon [§] Washington	1	7 8	18 88	26 19	60 9	36 37	23 55	48 88	179 273	197 471	_	1 0	4 2	2	8
American Samoa	_	0	0		J	31	0		2/3	4/1		0	0	_	_
American Samoa C.N.M.I.	_		_	_	=	_	_	1 —	_		_	_	_	_	=
Guam	_	0	.0	_	-	_	1	15	-	.4	_	0	0	_	_
Puerto Rico	_	2	13	9	13	5	4	25	26	42		0	0	_	_
U.S. Virgin Islands	_	0	0	_	_	_	2	6	_	14	N	0	0	N	N

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Med: *Incidence data for reporting year 2008 and 2009 are provisional.

† Data for *H. influenzae* (age <5 yrs for serotype b, nonserotype b, and unknown serotype) are available in Table I.

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS). Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

New Port New Jerses New J					Hepat	itis (viral,	acute), by	type†								
Reporting area Percent															is	
New Fork City New Control of the					_					_		_			_	_
United States	Reporting area															Cum 2008
Connecticut 1 0 4 2 3 — 0 2 1 7 1 0 5 4 4 4 2 3 — 0 2 1 7 1 0 5 5 4 4 4 4 2 3 4 — 0 1 1 1 1 1 1 1 0 2 2 — 1 1 1 1 1 1 0 2 2 — 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	United States	13	44	76	183	354	34	69	104	324	480	24	47	147	200	238
Mainef							_		3							8
Massachusetts		1					_								4	3
Phode Islands	Massachusetts	_	0	4	_	13	_	Ö	1		4	_	0	2	_	2
Vermonf		_					_	-		_		_	-		1	1
New Jorsey New York (Upstate) Ne		_			_		_		-	_	_	_			<u>.</u>	2
New York (Upstate) — 1 4 6 6 8 1 1 1 10 12 4 4 5 20 18 New York (Upstate) — 2 6 3 18 — 2 6 2 8 — 2 12 2 2 Pennsylvania 1 1 4 8 8 19 3 2 8 9 31 — 6 33 29 Pennsylvania 1 1 1 4 8 8 19 3 2 8 9 31 — 6 33 29 Pennsylvania 1 1 1 4 8 8 19 3 2 8 9 31 — 6 33 29 Pennsylvania 1 1 1 4 8 10 10 25 2 2 7 7 3 17 — 1 1 13 — 2 1 1 13 — 2 1 1 13 — 2 1 1 13 — 2 1 1 13 — 2 1 1 13 — 2 1 1 13 — 2 1 1 13 — 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																59
Pennsylvania								-								8 10
EN. Central																9
Illinois	•	1														32 68
Michigan	Illinois	_	1	10	3	18	_	2	7	3	17		1	13	_	13
Ohio		_					1									1 21
W.N. Central 2 3 16 9 39 3 2 7 21 10 2 8 1 10 10 10 10 10 10	Ohio	_					2									31
lowa												_				2
Kansas — 0 3 — 3 — 0 3 — 1 — 0 1 1 — 0 1 1 1 Minnesota — 0 8 1 2 — 0 7 1 1 — 0 0 1 1 1 Minsouri — 1 3 5 5 5 — 1 5 11 7 — 1 7 — 1 7 — Missouri — 1 3 5 5 5 — 1 5 11 7 — 0 0 3 — 1 7 — 1 7 — North Dakota — 0 0 0 — — — 0 0 1 — — 0 0 0 — — 0 0 0 — Suth Dakota — 0 0 1 — 1 — 0 0 1 — — 0 0 1 — 0 0 0 0												_			1	13 3
Missouri — 1 3 5 5 5 — 1 5 11 7 — 1 7 — 1 7 — North Dakota — 0 5 3 12 3 0 2 6 6 1 — 0 3 — North Dakota — 0 0 1 — 1 — 0 0 1 — 0 0 — 0 0 — 0 1 — 0 0 1 — 0 0 0 — 0 1 — 0 0 0 — 0 0 0 — 0 0 0 0	Kansas	_	0	3	_	3	_	0	3	_		_	0	1	1	_
Nebraska\(^6\)															_	4
South Dakota	Nebraska§		Ó	5				Ö	2				Ö	3	_	5
S. Atlantic 6 7 15 54 53 21 18 34 128 137 8 8 22 54 Delaware — 0 0 1 — — 0 0 1 — 0 5 — 0 2 — 7 District of Columbia U 0 0 0 1 — — 0 0 1 — 0 0 1 — 5 — 0 2 — 7 District of Columbia U 0 0 0 0 U U U U U U U U U U U U U U		_			_		_			_		_			_	1
Delaware		6			54		21			128	137	8			54	41
Florida 5 2 8 32 22 5 6 6 11 45 48 5 3 7 20 Georgia — 1 4 4 7 7 8 — 3 8 — 3 8 18 21 — 1 5 13 Maryland® — 1 4 4 7 7 7 2 2 2 5 16 15 2 2 10 9 9 North Carolina 1 0 9 9 6 9 14 0 17 41 18 1 0 7 12 South Carolina® — 0 3 — 1 — 1 4 — 1 4 1 16 — 0 2 — Wirginia® — 1 5 5 2 4 — 1 4 — 1 4 1 16 — 0 2 — West Virginia — 0 1 1 — 2 — 1 4 3 9 — 0 3 — 0 3 — West Virginia — 0 1 1 — 2 — 1 4 3 9 — 0 3 — 0 2 — West Virginia — 0 0 2 — 1 1 — 1 6 2 18 — 0 2 — West Virginia — 0 0 2 — 1 1 — 1 6 6 2 18 — 0 2 — West Virginia — 0 0 2 — 1 1 — 1 6 6 2 18 — 0 2 — West Virginia — 0 0 2 — 1 1 — 1 6 6 2 18 — 0 2 — West Virginia — 0 0 2 — 1 1 3 3 4 4 — 0 1 1 — 1 6 6 2 18 — 0 1 4 5 Mississippi — 0 2 2 — — 1 3 3 4 4 — 0 0 1 — Tennessee® — 0 6 1 3 1 3 8 12 14 1 1 1 5 7 7 West Central — 4 12 4 20 1 1 2 24 31 69 — 1 1 0 4 4 Arkansas® — 0 1 1 — — 1 0 4 4 2 8 — 0 2 — 1 1 Oklahoma — 0 2 — 1 1 3 1 4 2 8 — 0 2 2 — 1 Oklahoma — 0 5 1 — 2 2 — 1 4 4 2 8 — 0 2 2 — 1 Oklahoma — 0 5 1 — 2 2 — 1 1 3 3 1 2 9 24 1 2 8 11 Arizona — 2 11 7 1 1 — 1 5 3 3 14 1 0 2 6 — 1 1 Arizona — 2 11 7 1 1 — 1 5 3 3 14 1 0 2 6 6 — 1 Oklahoma — 0 2 11 7 1 1 — 1 5 3 3 14 1 0 2 6 6 — 1 Oklahoma — 0 2 11 7 1 1 — 1 5 3 3 14 1 0 2 6 6 — 1 Oklahoma — 0 0 5 1 1 — — 2 10 7 4 — 0 6 — 1 1 Arizona — 2 11 7 7 11 — 1 5 3 3 14 1 0 2 6 6 — 1 Oklahoma — 0 0 5 1 1 — — 0 0 1 1 — — 0 0 1 1 1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0	Delaware	_		1	_	_	_	0	1	_	5	_	0	2	_	1
Georgia — 1 4 7 8 — 3 8 18 21 — 1 5 13 Maryland [§] — 1 4 7 7 7 2 2 2 5 5 16 15 2 2 10 9 9 North Carolina 1 0 9 6 9 14 0 17 41 18 1 0 7 12 South Carolina 1 0 9 6 9 14 0 17 41 18 1 0 7 12 South Carolina 1 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1																2 17
Norfh Carolina	Georgia	_	1	4	7	8	_	3		18	21	_			13	3
South Carolina																10 3
West Virginia		_		3	_		_					_			_	1
Alabama§ — 0 2 1 1 — 1 6 2 18 — 0 2 — Kentucky — 0 3 — 3 — 2 5 8 19 1 1 4 5 Mississippi — 0 2 2 — — 1 3 4 4 4 — 0 1 — — 0 1 — — 0 1 — — 0 1 — — 0 4 — 3 — 0 2 — 1 10 4 4 1 1 4 2 8 — 0 2 — 1 10 4 4 1 1 1 4 1 2 8 — 0 2 — 1 10 3 1 2 4 1 1 1 3 <td< td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td>_</td><td>2</td></td<>		_					_					_			_	2
Kentucky — 0 3 — 3 — 2 5 8 19 1 1 4 5 Mississippi — 0 6 1 3 1 3 4 4 4 0 1 — W.S. Central — 4 12 4 20 1 12 24 31 69 — 1 10 4 Afkansas* — 0 1 — — 0 4 — 3 — 0 2 — Louisiana — 0 2 — 1 — — 0 2 — 1 U 2 4 1 10 4 — 0 6 — — 1 1 4 1 2 2 1 1 4 4 1 1 5 3 1 2 2 4 —	E.S. Central	_	1	9	4	7	1	7	13	26	55	2	2	10	12	10
Mississispipi — 0 2 2 2 — 1 3 4 4 4 — 0 1 — Tennessee® — 0 6 1 3 1 3 8 12 14 1 1 1 5 7 7 W.S. Central — 4 12 4 20 1 12 24 31 69 — 1 10 4 Arkansas® — 0 1 — — 0 4 — 3 — 0 2 — 1 10 4 Arkansas® — 0 1 1 — 2 — 1 4 2 8 — 0 2 1 1 0 0 24 — 1 5 3 1 0 0 6 — 1 1 5 3 1 0 0 6 — 1 1 5 3 1 0 0 6 — 1 1 5 3 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 0 1 1 0 1 1 1 0 0 1 1 0 1 1 1 0 0 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1		_						-								1 6
W.S. Central — 4 12 4 20 1 12 24 31 69 — 1 10 4 Arkansas§ — 0 1 — — — 0 4 — 3 — 0 2 — Louisiana — 0 2 — 1 — — 1 4 2 8 — 0 2 — Coklahoma — 0 5 1 — — 2 10 7 4 — 0 6 — Texas§ — 4 11 3 19 1 7 18 22 54 — 1 5 3 Mountain 1 4 12 10 22 — 3 12 9 24 1 2 8 11 Arizona — 2 11 7 11	Mississippi	_	0	2		_	_	1	3	4	4	_		1	_	_
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Louisiana		_			4		1					_			4	5
Texas [§] — 4 11 3 19 1 7 18 22 54 — 1 5 3 Mountain 1 4 12 10 22 — 3 12 9 24 1 2 8 11 Arizona — 2 11 7 11 — 1 5 3 14 1 0 2 6 Colorado 1 0 3 2 4 — 0 3 1 2 — 0 2 — Idaho§ — 0 1 1 — — 0 2 — — 0 1 — — 0 1 — — 0 1 — — 0 2 — — 0 1 — — 0 1 — — 0 1 — — 0	Louisiana	_	0	2			_	1	4		8		0	2	1	_
Mountain 1 4 12 10 22 — 3 12 9 24 1 2 8 11 Arizona — 2 11 7 11 — 1 5 3 14 1 0 2 6 Colorado 1 0 3 2 4 — 0 3 1 2 — 0 2 — Idaho§ — 0 3 — 2 — 0 2 — 0 1 — Montana§ — 0 1 1 — — 0 2 — 0 1 — — 0 1 — — 0 1 — — 0 1 — — 0 1 1 N 0 2 — 0 2 3 2 5 — 0 2 3 1		_					1								3	 5
Colorado	Mountain	1		12			_	3	12	9		1	2	8	11	12
Idaho§ — 0 3 — 2 — 0 2 — — — 0 1 — Montana§ — 0 1 1 — — 0 1 — — 0 1 — 0 1 1 — 0 1 1 1 — 0 1 1 1 — 0 1 1 1 1 — 0 2 3 2 — 0 2 — 0 2 — 0 2 — 0 2 — 0 2 — 0 2 — 0 2 — 0 2 — 0 2 — 0 2 — 0 2 1 — 0 2 1 . 0 2 1 . 0 0 . . 0 0 . . 0 <							_					1			6	3
Nevada [§] — 0 3 — — 0 3 2 5 — 0 2 3 New Mexico [§] — 0 2 — 1 — 0 2 — 0 2 — Utah — 0 2 — 1 — 0 2 1 Wyoming [§] — 0 1 — 1 — — — 0 0 — Pacific 2 9 25 53 77 1 6 42 34 41 4 4 10 21 2 Alaska — 0 1 1 — — 0 2 1 — — 0 1 1 1 — — 0 1 1 1 — — 0 1 1 1 — — 0 1 1 1	Idaho§		_	_	_		_	_	_		_	_	_	1	_	1
New Mexico§ — 0 3 — 3 — 0 2 3 2 — 0 2 — Utah — 0 2 — 1 — 0 3 — 1 — 0 2 1 Wyoming§ — 0 1 — 0 1 — — 0 2 1 Pacific 2 9 25 53 77 1 6 42 34 41 4 4 10 21 Alaska — 0 1 1 — — 0 2 1 — — 0 1 1 Callfornia 2 7 25 46 62 1 5 28 27 32 3 3 8 15 Hawaii — 0 2 2 9 — 1 3 3 6 <td></td> <td>_</td> <td></td> <td></td> <td>1</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>1</td>		_			1		_					_				1
Wyoming§ — 0 1 — 0 1 — — 0 0 — Pacific 2 9 25 53 77 1 6 42 34 41 4 4 10 21 21 Alaska — 0 1 1 — 0 2 1 — 0 2 1 — 0 1 1 2 — 0 1 1 California 2 7 25 46 62 1 5 28 27 32 3 3 8 15 Hawaii — 0 2 1 1 — 0 1 1 2 — 0 1 1 Oregon§ — 0 2 2 9 — 1 3 3 6 1 0 2 2 2 Washington — </td <td></td> <td>_</td> <td></td> <td>3</td> <td>_</td> <td></td> <td>_</td> <td></td> <td>2</td> <td></td> <td></td> <td>_</td> <td></td> <td>2</td> <td>_</td> <td>1</td>		_		3	_		_		2			_		2	_	1
Pacific 2 9 25 53 77 1 6 42 34 41 4 4 10 21 21 Alaska — 0 1 1 — — 0 2 1 — — 0 1 1 California 2 7 25 46 62 1 5 28 27 32 3 3 8 15 Hawaii — 0 2 1 1 — 0 1 1 1 2 — 0 1 1 1 2 — 0 1 1 1 2 — 0 1 1 1 2 — 0 1 1 1 2 — 0 1 1 1 2 — 0 1 1 1 2 — 0 1 1 1 0 2 2		_			_		_	-			1	_	-		1	3
Alaska — 0 1 1 — — 0 2 1 — — 0 1 1 California 2 7 25 46 62 1 5 28 27 32 3 3 8 15 Hawaii — 0 2 1 1 — 0 1 1 2 — 0 1 1 Oregon§ — 0 2 2 9 — 1 3 3 6 1 0 2 2 Washington — 1 6 3 5 — 1 14 2 1 — 0 3 2 American Samoa — 0 0 — — — N 0 0 N C.N.M.I. — </td <td>-</td> <td>2</td> <td></td> <td>-</td> <td>— 53</td> <td></td> <td>1</td> <td></td> <td>-</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td>21</td> <td>22</td>	-	2		-	— 53		1		-			4			21	22
Hawaii — 0 2 1 1 — 0 1 1 2 — 0 1 1 Oregon§ — 0 2 2 9 — 1 3 3 6 1 0 2 2 Washington — 1 6 3 5 — 1 14 2 1 — 0 3 2 American Samoa — 0 0 — — 0 0 — — N 0 0 N C.N.M.I. — — 0 0 — — — 0 0 — Guam — 0 0 — — — 0 0 — — 0 0 —	Alaska	_	0	1	1	_	_	0	2	1	_	_	Ó	1	1	_
Oregon [§] — 0 2 2 9 — 1 3 3 6 1 0 2 2 Washington — 1 6 3 5 — 1 14 2 1 — 0 3 2 American Samoa — 0 0 — — N 0 0 N C.N.M.I. —		2					1					3				18 1
American Samoa — 0 0 — — 0 0 — — N 0 0 N C.N.M.I. — <td>Oregon§</td> <td>_</td> <td>0</td> <td>2</td> <td>2</td> <td>9</td> <td>_</td> <td></td> <td>3</td> <td>3</td> <td>6</td> <td>1</td> <td>Ō</td> <td>2</td> <td>2</td> <td>3</td>	Oregon§	_	0	2	2	9	_		3	3	6	1	Ō	2	2	3
C.N.M.I. — — — — — — — — — — — — — — — — — —	o .	_			3	5	_	1		2	1	_				
Guam — 0 0 — — 0 0 — — 0 0 — — 0		_			_	_	_		<u> </u>	_	_	N —	<u> </u>		N —	_ N
rueno Hico — U 2 1 3 — U 4 — 11 — U 1 —	Guam	_			_	_	_			_					_	_
U.S. Virgin Islands — 0 0 — — 0 0 — — 0 0 — — 0		_					_			_		_			_	_

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.

† Data for acute hepatitis C, viral are available in Table I.

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

			yme disea	se				Malaria			Me	Al	cal diseas		re ¹
	_		vious veeks	_		_		rious reeks	_	_			rious reeks		
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008
United States	48	448	1,458	639	947	7	21	44	92	124	12	16	48	78	169
New England	2	45	261	37	136	_	0	6	1	6	_	0	3	1	6
Connecticut Maine [§]	1	0 6	0 73	<u> </u>	_	_	0 0	3 0	_	_ 1	_	0 0	0 1	_	1 1
Massachusetts	_	3	114	_	97	_	0	2	_	3	_	0	3	_	4
New Hampshire Rhode Island§	1	13 0	141 0	17	34	_	0	2	_	1 1	_	0	1	1	_
Vermont§	_	4	41	14	5	_	0	1	1		_	0	0	_	_
Mid. Atlantic	30	251	1,098	296	516	1	4	14	16	27	1	2	6	7	17
New Jersey New York (Upstate)	 23	29 99	211 1,044	39 78	162 30	_ 1	0 0	0 10	7		_	0 0	2 3	_	3 5
New York City	_	1	7	70	8		3	10	6	19	_	0	2		2
Pennsylvania	7	96	533	179	316	_	1	3	3	6	1	1	5	5	7
E.N. Central	1	12	146	28	38	2	2	7	8	24	3	3	9 5	15	29
Illinois Indiana	_	1 0	12 8	_	2		1 0	5 2	1	12 1	_	1 0	5 4	2 1	13 1
Michigan	1	1	10	9	3	_	0	2	1	4	_	0	3	2	5
Ohio Wisconsin	_	0 9	5 129	2 17	2 31	2	0 0	2 3	6	7	3	1 0	4 2	10	6 4
W.N. Central	4	8	201	8	3	_	1	10	3	2	_	2	6	8	19
Iowa	_	1	8	2	3	_	Ö	3	_	_	_	0	3	1	3
Kansas Minnesota	<u> </u>	0 4	1 201	1 4	_	_	0	2 8	1 1	_	_	0	2 4	1 2	1 7
Missouri	_	0	1	_	_	_	0	3	i	1	_	0	2	4	6
Nebraska [§]	_	0	2	_	_	_	0	2	_	1	_	0	1	_	1
North Dakota South Dakota	_	0 0	1	_ 1	_	_	0	0 0	_	_	_	0 0	1 1	_	1
S. Atlantic	9	69	219	239	229	4	4	15	46	37	4	3	9	17	24
Delaware	_	12	37	36	54	_	Ó	1	1	_		0	1	<u></u>	_
District of Columbia Florida	1	2	11 10	 14	10 3		0 1	2 7	 14	11	4	0 1	0 3	10	 8
Georgia	2	0	6	9	_	_	i	5	5	9	_	Ö	2	1	3
Maryland [§] North Carolina	_	30 0	158 5	156 6	146 2	2	1 0	7 7	15 8	14 2	_	0 0	3 3	1 3	2 3
South Carolina§	_	0	2	2	2	_	0	1	1	_	_	0	3	1	4
Virginia [§]	6	15	53	16	10	_	1	3	2	1	_	0	2	1	4
West Virginia	_	1	11	_	2	_	0	0	_	_	_	0	1	_	_
E.S. Central Alabama§	_	1 0	5 2	2	1	_	0	2 1	4	2 1	_	1 0	6 2	1	9
Kentucky	_	0	2	_	_	_	0	1	_	1	_	0	1	_	4
Mississippi Tennessee [§]	_	0 0	1 3	_	1	_	0 0	1 2	4	_	_	0 0	2 3	1	1 4
W.S. Central		2	9	_	1	_	1	11	_	5		2	7	3	19
Arkansas§	_	0	ő	_		_	Ö	0	_	_	_	0	2	1	2
Louisiana Oklahoma	_	0 0	1 1	_	_	_	0 0	1 2	_	1	_	0 0	2 3	1	9 2
Texas§	_	2	9	_	1	_	1	11		4		1	5	1	6
Mountain	_	0	16	3	4	_	0	3	_	6	2	1	4	9	10
Arizona	_	0	2 1	_ 1	2	_	0	2	_	2	_ 1	0	2	3 2	1 1
Colorado Idaho [§]	_	0	1	1	1	_	0	1	_	1	1	0	1	2	1
Montana§	_	0	16	1	_	_	0	0	_	_	_	0	1	_	1
Nevada [§] New Mexico [§]	_	0	2 2	_	1	_	0 0	0 1	_	3	_	0 0	1 1	2	1 1
Utah	_	0	1	_		_	0	i	_	_	_	0	i	_	3
Wyoming§	_	0	1	_	_	_	0	0	_	_	_	0	1	_	1
Pacific Alaska	2	4 0	18 2	26	19	_	3 0	11 2	14	15	2	5 0	19 2	17 1	36
California	2	3	8	23	18	_	2	8	12	10	2	2	19	9	28
Hawaii Orogon [§]	N	0	0	N	N	_	0	1	_	1	_	0	1	1	_
Oregon [§] Washington	_	1 0	3 11	3	1	_	0 0	1 7	1 1	3 1	_	1 0	3 5	3 3	5 3
American Samoa	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_
C.N.M.I.	_	_	_	_		_	_	_	_	_	_	_	_	_	_
Guam Puerto Rico	N	0	0	N	N	_	0	2 1	_ 1	_	_	0	0 1	_	_
U.S. Virgin Islands	N	0	0	N	N	_	0	0		_	_	0	0	_	_

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

U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.

† Data for meningococcal disease, invasive caused by serogroups A, C, Y, and W-135; serogroup B; other serogroup; and unknown serogroup are available in Table I.

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

			Pertussis				Ra	bies, anin	nal		R	ocky Mou	ıntain spo	tted feve	<u> </u>
			rious reeks					ious eeks					rious reeks		
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008
United States	128	188	607	1,076	1,115	27	103	169	300	537	13	41	144	78	31
New England	1	9	26	29	177	5	6	20	24	23	_	0	2	_	1
Connecticut Maine [†]	_ 1	0 1	4 7	 19	13 10	2 2	3 1	17 5	11 6	13 2	N	0	0 0	N	N
Massachusetts		5	17	_	142	N	0	0	N	N	_	0	0	_	1
New Hampshire Rhode Island [†]	_	1 0	4 8	7 1	4 5	 N	0	3 0	1 N	4 N	_	0	1 2	_	_
Vermont [†]	_	0	2	2	3	1	1	6	6	4	_	Ö	0	_	_
Mid. Atlantic	9	17	51	94	126	2	33	67	50	123	_	1	26	_	3
New Jersey New York (Upstate)	3	1 6	6 40	 17	10 32		0 9	0 20	30	31	_	0 0	2 25	_	2
New York City	_	0	4	_	19	_	0	2	_	4	_	0	2	_	1
Pennsylvania	6	9	35	77	65	_	21	52	20	88	_	0	2	_	_
E.N. Central Illinois	29	35 11	171 45	305 68	365 22	_	3 1	29 21	5 1	1 1	_	1 1	15 11	1 1	1 1
Indiana	_	1	96	12	3	_	0	2	_		_	0	3		
Michigan Ohio	2 26	6 9	20 57	80 142	21 307	_	1	9 7	4	_	_	0 0	1 4	_	_
Wisconsin	1	2	7	3	12	N	Ö	ó	N	N	_	0	1	_	_
W.N. Central	7	20	126	234	94	1	3	13	14	10	_	4	32	2	1
lowa Kansas	1	3 1	21 13	2 14	15 3	_	0	5 3	 10	1	_	0 0	2 0	_	_
Minnesota	_	2	99	_	_	_	Ö	10	2	4	_	0	0	_	_
Missouri Nebraska†	4 2	6 2	50 32	183 32	66 8	1	1 0	8 0	1	_	_	4 0	31 4	2	1
North Dakota	_	0	1	_	_	_	0	7		2	_	0	0	_	_
South Dakota	_	0	7	3	2	_	0	2	1	3	_	0	1	_	_
S. Atlantic Delaware	70	18 0	46 3	196 4	85 —	14	34 0	88 0	167	350	13	15 0	69 5	70	20
District of Columbia	_	Ö	1	_	2	_	0	0	_	_	_	Ö	2	_	_
Florida	2	6 1	20 8	49 1	12 4	8	0 5	7 47	23 61	139 40		0 1	3 8	3	1 3
Georgia Maryland [†]	1	2	8	8	16	_	7	17	6	48	_	1	7	4	4
North Carolina	65	0	16	102	32	6	9	16	29	50	11	5	55	58	11
South Carolina† Virginia†		2	11 24	14 16	5 14	_	0 11	0 24	43	<u> </u>	_	1 2	9 15	3 2	_
West Virginia	_	0	2	2	_	_	1	9	5	7	_	0	1	_	1
E.S. Central	3	8	29	76	37	1	3	7	10	11	_	3	23	3	2
Alabama† Kentucky	3	1 3	5 12	4 52	10 6	_ 1	0 1	0 4	10	3	_	1 0	8 1	1	1
Mississippi	_	2	5	12	16	_	0	1	_	1	_	0	3	1	_
Tennessee [†]	_	2	14	8	5	_	2 1	6	_	7	_	2 2	19	1	1
W.S. Central Arkansas†	_	31 1	161 20	42 1	50 14		0	11 6	4 2	5 5	_	0	41 14	1 1	_2
Louisiana	_	1	7	7	_	_	0	0	_	_	_	0	1	_	1
Oklahoma Texas [†]	_	0 26	29 154	5 29	1 35	1	0 0	10 1	2	_	_	0 1	26 6	_	1
Mountain	5	15	34	55	118	_	2	8	13	5	_	1	3	1	1
Arizona	<u> </u>	3 2	10	8	28	N	0	0 0	N	N	_	0	2 1	_	_
Colorado Idaho†	1	1	13 5	29 7	39 2	_	0	0	_	_	_	0	1	_	=
Montana†	_	0	11	3	10	_	0	2	4	_	_	0	1	_	_
Nevada† New Mexico†	_	0 1	7 8	5 2	1 2	_	0	4 3	3	4	_	0	2 1	_	1
Utah	_	3	17	1	33	_	0	6	_	_	_	0	1	1	<u>.</u>
Wyoming [†]		0	2		3	_	0	4	6	1	_	0	2	_	_
Pacific Alaska	4	25 3	80 21	45 11	63 17	3	4 0	13 4	13 2	9 4	N	0 0	1 0	N	N
California	_	8	23	_	17	3	3	12	11	5	_	0	1	_	_
Hawaii Oregon [†]	3 1	0 3	2 13	5 21	2 15	_	0	0 2	_	_	N	0	0 1	N	N
Washington	<u>.</u>	5	74	8	12	_	Ö	0	_	_	N	Ö	Ö	N	N
American Samoa	_	0	0	_	_	N	0	0	N	N	N	0	0	N	N
C.N.M.I. Guam	_			_	_	_			_	_	N			N	N
Puerto Rico	_	0	0	_	=	1	1	5	4	5	N	0	Ő	N	N
U.S. Virgin Islands	_	0	0	_	_	N	0	0	N	N	N	0	0	N	N

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
* Incidence data for reporting year 2008 and 2009 are provisional.

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

		S	almonellos	sis		Shig	a toxin-pr	oducing E	E. coli (ST	EC) [†]		S	higellosis	·	
			vious				Prev						rious		
Reporting area	Current week	Med	veeks Max	Cum 2009	Cum 2008	Current week	Med Med	Max	Cum 2009	Cum 2008	Current week	Med Med	eeks Max	Cum 2009	Cum 2008
United States	257	915	1,485	3,222	3,955	32	85	251	245	297	120	434	612	1,642	1,784
New England	1	16	63	92	639	_	3	14	7	59	_	2	7	3	55
Connecticut Maine§	_	0 2	43 8	43 12	484 17	_	0	5 3	5	44 2	_	0 0	2 6	2	38
Massachusetts	_	9	52		104	_	0	11	_	9	_	0	5	_	12
New Hampshire Rhode Island [§]	1	2 2	10 9	16	13 13	_	1 0	3 3	2	2	_	0	1 1	1	1 3
Vermont§	_	1	7	14 7	8	_	0	6	_	2	_	0	2	_	1
Mid. Atlantic	18	90	177	308	451	_	6	192	15	24	5	45	96	213	135
New Jersey New York (Upstate)	9	11 27	30 61	11 94	93 91	_	0 3	3 188	2 9	5 8	_ 1	15 11	38 35	73 11	47 19
New York City	_	19	53	71	127	_	1	5	2	7	_	13	35	46	52
Pennsylvania	9	28	78	132	140	_	1	8	2	4	4	5	23	83	17
E.N. Central Illinois	21 —	94 26	194 72	392 49	434 135	4	11 1	75 10	33 3	36 4	30	81 17	124 35	421 44	440 161
Indiana	_	9	53	15	22	_	1	14	3	2	_	9	39	6	126
Michigan Ohio	1 16	18 27	38 65	89 191	86 120	_ 3	2 3	43 17	9 12	9 5	 27	4 42	22 80	37 288	10 94
Wisconsin	4	14	50	48	71	1	4	20	6	16	3	7	33	46	49
W.N. Central lowa	30	49 8	150 16	195 14	203 41	3	12 2	59 21	30 6	27 7	8	16 4	40 12	63 23	99 5
Kansas	4	7	31	29	19	_	1	7	1	2	3	1	5	17	2
Minnesota Missouri	13 7	12 14	69 48	57 59	45 62	3	2 2	21 11	10 9	8 7	3 1	5 3	25 14	10 8	11 43
Nebraska [§]	6	4	13	24	23	_	2	30	4	2	1	0	3	4	_
North Dakota South Dakota	_	0 2	7 9	 12	2 11	_	0 1	1 4	_	_ 1	_	0	4 9	_ 1	11 27
S. Atlantic	98	249	456	1,047	1,026	11	14	51	68	55	 24	58	100	270	387
Delaware	_	2	9	1,047	11		0	2	1	_	_	0	1	3	_
District of Columbia Florida	 52	1 97	4 174	— 478	8 530	7	0 2	1 11	 28	2 17	3	0 14	3 34	— 75	2 153
Georgia	18	43	86	194	109	_	1	7	6	1	5	19	48	79	149
Maryland [§] North Carolina	8 16	13 23	36 106	67 181	73 123	_ 3	2 1	9 21	9 19	10 9	7 6	2 3	8 27	33 44	9 12
South Carolina§	4	18	55	73	86	_	i	4	1	4	1	8	32	15	58
Virginia [§] West Virginia	_	19 3	75 6	46 7	56 30	1	3 0	27 3	3 1	6 6	2	4 0	57 3	20 1	4
E.S. Central	4	58	138	181	251	2	5	21	12	21	7	35	67	87	252
Alabama [§]	_	15	46	39	85	_	1	17	1	5	_	6	18	12	67
Kentucky Mississippi	3	10 14	18 57	46 38	42 52	_	1 0	7 2	3 1	5 1	2	3 4	24 18	11 5	34 83
Tennessee§	1	14	60	58	72	2	2	7	7	10	5	19	47	59	68
W.S. Central Arkansas§	17 4	136 11	329 40	200 43	206 27	1	7 1	27 3	2	24 1	27 1	98 11	222 27	331 21	188 14
Louisiana	_	17	50	29	53	_	Ó	1	_	i	_	11	26	26	39
Oklahoma Texas§	3 10	15 93	36 268	30 98	25 101	1	1 5	19 12	2	2 20	3 23	3 65	43 195	20 264	17 118
Mountain	16	60	110	237	291	6	10	39	41	40	13	22	55	132	93
Arizona	5	20	45	88	95	_	1	5	2	5	12	13	34	94	41
Colorado Idaho [§]	9 2	12 3	43 14	49 20	63 16	6	3 2	18 15	30 3	8 16	1	2 0	11 2	15	18 1
Montana [§]	_	2	8	15	5	_	0	3	_	4	_	0	1	_	_
Nevada [§] New Mexico [§]	_	3 6	9 33	25 9	28 41	_	0 1	2 6	1 2	2 4	_	4 2	13 12	14 8	21 7
Utah	_	6	19	29	33	_	1	9	2	1	_	1	3	1	2
Wyoming§ Pacific	— 50	1 112	4 531	2 570	10 454	— 5	0 9	1 58	1 37	— 11	 6	0 30	1 83	122	125
Alaska	52 —	1	4	6	5	_	0	1	_	_	_	0	1	1	135
California Hawaii	45 5	80 5	517 15	451 42	359 31	5	6 0	39 2	32 1	10 1	6	27 1	75 3	101 3	121 5
Oregon§	2	7	20	34	37	_	1	8	_		_	1	10	8	7
Washington	_	12	150	37	22	_	2	42	4	_	_	2	26	9	2
American Samoa C.N.M.I.	_	0	1	_	1	_	0	0	_	_	_	0	1	1	1
Guam	_	0	2	_	1	_	0	0	_	_	_	0	3	_	1
Puerto Rico	_	9 0	29 0	30	77 —	_	0 0	1 0	_	_	_	0 0	4 0	_	2
U.S. Virgin Islands								U				U			

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

U: Unavailable. — No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.

† Includes *E. coli* O157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped.

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

		Streptococcal	diseases, inv	asive, group A		Streptococc		ae, invasive di Age <5 years	sease, nondru	g resistan
	Current	Prev 52 w		Cum	Cum	Current	Prev 52 w		Cum	Cum
Reporting area	week	Med	Max	2009	2008	week	Med	Max	2009	2008
Inited States	60	88	182	622	833	26	33	53	198	304
ew England	1	4	31	21	43	_	1	11	3	22
Connecticut Maine [§]	_	0 0	26 3	11 2	4	_	0 0	11 1	_	_ 1
Massachusetts	_	1	8	_	35	_	Ö	3	_	18
New Hampshire	_	0	2	3	3	_	0	1	2	3
Rhode Island [§] Vermont [§]	<u> </u>	0 0	8 3	1 4	_ 1	_	0 0	2 1	_ 1	_
lid. Atlantic	11	17	43	113	167	3	3	19	16	43
New Jersey		2	11	1	38	_	1	4	2	11
New York (Upstate)	4	6	22	41	43	3	2	19	14	14
New York City Pennsylvania	7	3 7	11 16	17 54	39 47	 N	0 0	5 2	N	18 N
•	7									
i.N. Central Illinois		16 4	42 16	122 27	167 46	3	6 1	11 5	35 7	63 19
Indiana	_	2	19	12	16	_	Ö	5	2	7
Michigan	1	3	9	22	40	1	1	5	6	14
Ohio Wisconsin	6	5 1	14 10	53 8	46 19	2	1 0	4 2	17 3	12 11
V.N. Central	5	5	39	41	61	_	2	11	13	22
lowa	_	0	0	-	_	_	0	0	_	_
Kansas	1	0	5	8	9	_	0	3	2	2
Minnesota		0	35	 19	20		0	9 2	3	6
Missouri Nebraska [§]	_	2 1	5 3	8	24 6	_	1 0	1	6 1	11 2
North Dakota	_	Ö	3	_	_	_	ő	2	_	_
South Dakota	2	0	2	6	2	_	0	1	1	1
S. Atlantic	16	21	36	161	179	5	6	16	55	55
Delaware District of Columbia	_	0 0	1 4	5	3 3	_	0 0	0 1	_	_
Florida	7	5	10	42	47	1	1	4	12	5
Georgia	5	4	14	42	45	3	1	6	22	16
Maryland§	 3	3	10	27	38	1	1	4	10	15
North Carolina South Carolina§	3 1	2 1	10 5	16 12	9 10	<u>N</u>	0 1	0 6	N 9	N 10
Virginia§	<u>.</u>	3	9	13	19	_	Ö	6	_	8
West Virginia	_	0	3	4	5	_	0	2	2	1
E.S. Central	4	3	9	31	22		2	6	3	11
Alabama [§] Kentucky	N 2	0 1	0 3	N 10	N 5	N N	0	0	N N	N N
Mississippi	N	Ó	0	N	Ň	_	0	3	_	4
Tennessee§	2	3	6	21	17	_	1	5	3	7
V.S. Central	9	9	51	59	49	11	5	29	38	29
Arkansas§	2	0	2 2	2		1	0	3 3	7	3
Louisiana Oklahoma		0 2	13	27	4 17	_ 1	0 1	3 7	5 7	1 11
Texas§	5	6	38	27	28	9	3	20	19	14
Mountain	6	9	21	58	123	4	4	11	34	54
Arizona	2	3	. 8	19	34	2	2	9	23	31
Colorado Idaho [§]	4	2 0	10	24	38	2	1 0	4	7 1	10 1
Montana§	N	Ö	0	N	Ň	_	Ö	i	<u>.</u>	
Nevada [§]	_	0	1	1	2	N	0	0	N	N
New Mexico§ Utah	_	2 1	5 4	12 1	34 12	_	0	3 4	2 1	6 6
Wyoming§	_	Ö	2	i	- IZ	_	0	1		_
acific	1	3	8	16	22	_	0	2	1	5
Alaska	<u>.</u>	0	4	2	4	N	Ö	0	N	N
California	_	0	0			N	0	0	N	Ñ
Hawaii Oregon [§]	1 N	2 0	8 0	14 N	18 N	 N	0 0	2 0	1 N	5 N
Washington	N	0	0	N	N	N	0	0	N	N
merican Samoa	_	0	12	_	_	N	0	0	N	N
.N.M.I.	_	_	_	_	_		_	_		
luam uerto Rico		0	0				0	0		_
TINTO RICO	N	0	0	N	N	N	0	0	N	N

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

U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.

† Includes cases of invasive pneumococcal disease, in children aged <5 years, caused by *S. pneumoniae*, which is susceptible or for which susceptibility testing is not available (NNDSS event code 11717).

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

		S	treptococo	cus pneu	moniae, ii	vasive dis									
			All ages					jed <5 yea	irs		Sy			d seconda	ry
			rious					ious					vious		
Reporting area	Current week	Med	eeks Max	Cum 2009	Cum 2008	Current week	Med	eeks Max	Cum 2009	Cum 2008	Current week	Med	eeks Max	Cum 2009	Cum 2008
United States	62	53	105	444	587	8	8	23	59	65	101	240	433	1,328	1,477
New England	1	1	48	6	10	_	0	5	_	1	1	5	14	44	
Connecticut	_	0	48	_	_	_	0	5	_	_	_	0	4	6	33 2
Maine [§] Massachusetts	1	0	2 0	2	2	_	0	1 0	_	_	1	0 4	2 11	1 32	26
New Hampshire	_	0	1	1	_	_	0	0	_	_	_	0	2	5	3
Rhode Island [§] Vermont [§]	_	0	2 2	3	4 4	_	0	1 1	_	1	_	0	5 2	_	2
Mid. Atlantic	2	3	13	13	50	_	0	2	1	4	21	34	52	223	225
New Jersey	_	0	0	_	_ 8	_	0	0	_	_	1	4	10	20	39
New York (Upstate) New York City	_	1	6 5	3	8 18	_	0 0	1 0	1	_	3 13	22	7 36	10 159	8 132
Pennsylvania	2	1	9	10	24	_	Ö	2	_	4	4	5	12	34	46
E.N. Central Illinois	16	11	41 7	87 6	148 48	_	2	7 2	14	19 9	6 1	17 1	239 230	137 27	113
Indiana	6	1 2	31	7	28	_	0	5	6	2	3	3	10	24	25 14
Michigan	_	0	3	4	4	_	0	1	_	1	2	3	18	34	22
Ohio Wisconsin	10	7 0	18 0	70	68 —	_	1 0	4 0	8	7	_	6 1	14 3	46 6	43 9
W.N. Central	1	2	7	11	49	_	0	2	4	2	_	8	14	35	62
lowa	_	0 1	0 4	3	 21	_	0	0 1	3	_ 1	_	0	2 5	_ 1	_
Kansas Minnesota	_	0	0	_	_	_	0	0	_		_	2	6	10	15
Missouri	1	1	4	8	27	_	0	1	1	_	_	4	10	22	46
Nebraska [§] North Dakota	_	0	0 0	_	_	_	0 0	0 0	_	_	_	0	2 0	2	1
South Dakota	_	Ö	ĭ	_	1	_	ő	1	_	1	_	Ö	1	_	_
S. Atlantic	35	22	53	270	234	7	4	14	32	27	39	55	148	319	225
Delaware District of Columbia	_	0	1 3	2	4	_	0 0	0 1	_	_		0 2	4 9	6 26	1 16
Florida	32	14	36	178	132	7	2	13	22	18	15	18	37	131	88
Georgia Maryland [§]	3	7 0	22 2	77 1	85 2	_	1 0	5 0	10	7 1	_	13 7	126 14	20 10	10 29
North Carolina	N	0	0	N	N	N	0	0	N	Ň	7	5	19	75	41
South Carolina [§] Virginia [§]	N	0	0	N	N	N	0	0 0	N	N	— 15	2 5	6 16	9 41	16 24
West Virginia	_	1	9	12	11	_	Ō	2	_	1	_	Ō	1	1	
E.S. Central	5	5 0	21 0	38	63 N	1	1 0	4 0	5	3 N	7	21 8	37 17	118 31	138
Alabama§ Kentucky	N 2	1	6	N 16	12	N —	0	2	N 3	1	2	1	10	10	68 7
Mississippi	_	0	2	_	_	_	0	1	_	_	3	3	18	22	13
Tennessee§	3	3	19	22	51	1	0	3	2	2	2	8	19	55	50
W.S. Central Arkansas§	2 2	2	7 4	13 8	20 2	_	0 0	1 1	2 1	5 1	19 3	44 3	76 35	248 35	249 8
Louisiana	 N	1	6 0	5	17		0	1	1	4	_	10	33	12	54
Oklahoma Texas [§]		0 0	0	N	N 1	N —	0 0	0 0	N	N —	<u> </u>	1 27	7 46	4 197	18 169
Mountain	_	1	11	4	12	_	0	4	1	3	1	9	25	18	78
Arizona Colorado	_	0	0 0	_	_	_	0 0	0	_	_	_	4 1	13 5	2 2	37 18
Idaho§	N	0	1	N	N	N	0	1	N	N	_	0	2	_	-
Montana [§] Nevada [§]	N	0	1 1	_ N	 N	N	0	0 0	N	N	_ 1	0 1	7 7	 12	 17
New Mexico§		0	1			<u> </u>	0	0				i	4	2	6
Utah Wyoming [§]	_	1 0	10 2	1 3	12	_	0	4 0	1	3	_	0	18	_	_
Pacific	_	0	1	2	1	_	0	1	_	1	7	45	1 73	186	354
Alaska	N	0	0	N	N	N	0	0	N	N	_	0	1	_	_
California Hawaii	N	0	0 1	N 2	N 1	N	0	0 1	N	N 1	3 1	41 0	67 3	167 5	310 5
Oregon§	N	0	0	N	N	N	0	0	N	Ń	1	0	3	4	3
Washington	N	0	0	N	N	N	0	0	N	N	2	2	9	10	36
American Samoa C.N.M.I.	N	0	0	N	N	<u>N</u>	0	0	N	N	_	0	0	_	_
Guam	_	0	0	_	=	_	0	0	_	_	=	0	0	_	_
Puerto Rico	_	0	0	_	_	_	0	0	_	_	1	3	11	19	12
U.S. Virgin Islands		0	0				0	0				0	0		

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Max* Incidence data for reporting year 2008 and 2009 are provisional.

† Includes cases of invasive pneumococcal disease caused by drug-resistant *S. pneumoniae* (DRSP) (NNDSS event code 11720).

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS). Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

		Vorio	olla (chialsa	nnov)			NI-	uroinvoci		ST MILE AL	rus disease		euroinvas	ivo§	
			ella (chicke vious	enpox)			Prev	uroinvasi	ve				euroinvas vious	lives	
	Current		vious veeks	Cum	Cum	Current	52 w		Cum	Cum	Current		eeks	Cum	Cum
Reporting area	week	Med	Max	2009	2008	week	Med	Max	2009	2008	week	Med	Max	2009	2008
United States	215	461	1,011	2,503	4,015	_	1	75		1		1	74	_	1
New England	1	10	22	42	103	_	0	2	_	_	_	0	1	_	_
Connecticut Maine [¶]	_	0	0 0	_	_	_	0 0	2	_	_	_	0	1 0	_	_
Massachusetts		0	1	_	_	_	0	0	_	_	_	0	0	_	_
New Hampshire Rhode Island [¶]	1	4 0	10 0	26	59	_	0 0	0 1	_	_	_	0	0	_	_
Vermont¶	_	5	17	16	44	_	0	Ó				Ö	0	_	_
Mid. Atlantic	23	41	81	256	407	_	0	8	_	_	_	0	4	_	_
New Jersey New York (Upstate)	N N	0	0	N N	N N	_	0	2 5	_	_	_	0	1 2	_	_
New York City	N	Ö	0	N	N	_	0	2	_	_	_	0	2	_	_
Pennsylvania	23	41	81	256	407	_	0	2	_	_	_	0	1	_	_
E.N. Central Illinois	82 10	146 35	312 71	1,083 262	1,028 28	_	0	8 4	_	_	_	0	3 2	_	_
Indiana	_	0	0	_	_	_	Ö	1	_	_	_	Ö	1	_	_
Michigan	29	58	116	351	506	_	0	4	_	_	_	0	2	_	_
Ohio Wisconsin	41 2	46 5	106 50	437 33	485 9	_	0 0	3 2	_	_	_	0	1	_	_
W.N. Central	34	19	71	172	226	_	0	6	_	1	_	0	21	_	_
Iowa	N	0	0	N	N	_	0	2	_	_	_	0	1	_	_
Kansas Minnesota	2	6 0	40 0	35	102	_	0	2 2	_	1	_	0	3 4	_	_
Missouri	32	9	51	137	113	_	Ö	3	_	_	_	0	1	_	_
Nebraska [¶] North Dakota	<u>N</u>	0	0 39	N	N 4	_	0	1 2	_	_	_	0	8 11	_	_
South Dakota	_	0	5 5	_	7	_	0	5	_	_	_	0	6	_	_
S. Atlantic	58	76	173	268	802	_	0	3	_	_	_	0	3	_	_
Delaware District of Columbia	_	1 0	5 3	1	2 4	_	0	0 0	_	_	_	0 0	1 0	_	_
Florida	37	29	87	206	225	_	0	2	_	_	_	0	0	_	_
Georgia	N	0	0	N	N	_	0	1	_	_	_	0	1	_	_
Maryland¶ North Carolina	N N	0	0 0	N N	N N	_	0 0	2 0	_	_	_	0	2 0	_	_
South Carolina [¶]	5	11	67	6	108	_	Ö	Ö	_	_	_	ő	1	_	_
Virginia [¶]	10	18	60		320	_	0	0	_	_	_	0	1	_	_
West Virginia E.S. Central	16	11 15	33 101	55 16	143 135	_	0 0	1 7	_	_	_	0 0	0 8		1
Alabama [¶]	_	15	101	16	134	_	0	3	_	_	_	ő	2	_	
Kentucky	N	0	0 2	N	Ŋ	_	0	1	_	_	_	0	0 7	_	_
Mississippi Tennessee [¶]	N	0	0	N	1 N	_	0	4 2	_		_	0	3	_	1
W.S. Central	3	103	435	443	976	_	0	8	_	_	_	0	7	_	_
Arkansas¶	3	6	61	16	111	_	0	1	_	_	_	0	1	_	_
Louisiana Oklahoma	N	1 0	6 0	6 N	20 N	_	0	3 1	_	_	_	0	5 1	_	_
Texas [¶]	_	95	422	421	845	_	0	6	_	_	_	0	4	_	_
Mountain Arizona	14	35 0	90 0	201	324	_	0 0	12 10	_	_	_	0	22 8	_	_
Colorado	14	14	44	84	139	_	0	4	_	_	_	0	10	_	_
Idaho¶ _	N	0	0	N	N	_	0	1	_	_	_	0	6	_	_
Montana [¶] Nevada [¶]	N	5 0	27 0	54 N	33 N	_	0 0	0 2	_	_	_	0 0	2 3	_	
New Mexico [¶]	_	3	18	21	40	_	0	1	_	_	_	0	1	_	_
Utah	_	11	55	42	109	_	0	2	_	_	_	0	5	_	_
Wyoming [¶] Pacific	_	0 3	4 8	 22	3 14	_	0 0	0 38	_	_	_	0 0	2 23	_	_
Alaska	_	2	6	19	2	_	0	0	_	_	_	0	0	_	_
California	_	0	0	_	_	_	0	37	_	_	_	0	20	_	_
Hawaii Oregon¶	N	1 0	5 0	3 N	12 N	_	0 0	0 2	_	_	_	0	0 4	_	_
Washington	N	0	0	N	N	_	0	1	_	_	_	0	1	_	_
American Samoa	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_
C.N.M.I. Guam	_	_	17	_	4	_	0	0	_	_	_	0	0	_	_
Puerto Rico	1	6	20	22	67	_	0	0	_	_	_	0	0	_	_
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_

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U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

^{*} Incidence data for reporting year 2008 and 2009 are provisional.

[†] Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I.

[§] Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
¶ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE III. Deaths in 122 U.S. cities,* week ending February 21, 2009 (7th week)

		All cau	ises, by a	ige (year	s)					All cau	ises, by a	age (yea	rs)		_
Reporting area	All Ages	≥65	45–64	25–44	1–24	<1	P&I [†] Total	Reporting area	All Ages	≥65	45–64	25–44	1–24	<1	P&I [†] Total
New England	513	348	121	26	5	12	49	S. Atlantic	1,129	716	296	70	25	22	78
Boston, MA	141	87	35	8	4	7	18	Atlanta, GA	131	74	39	13	1	4	8
Bridgeport, CT	35	21	10	3	_	1	3	Baltimore, MD	160	97	46	11	2	4	.7
Cambridge, MA	16	12	3	_	_	_	3	Charlotte, NC	110	68	32	6	1	3	15
Fall River, MA	21	17	3	1	1	1	4	Jacksonville, FL	183	116	49	9	8	1	23
Hartford, CT Lowell, MA	49 23	36 18	8 5	3			2 4	Miami, FL Norfolk, VA	97 48	60 28	21 13	10 3	4	2 4	4 1
Lvnn. MA	10	7	3	_	_	_	1	Richmond, VA	68	39	23	4	1	1	6
New Bedford, MA	26	19	5	2	_		2	Savannah, GA	44	30	14	_			4
New Haven, CT	Ü	Ü	Ŭ	Ū	U	U	ū	St. Petersburg, FL	66	45	12	6	3	_	5
Providence, RI	53	37	14	1	_	1	4	Tampa, FL	176	133	30	5	5	3	4
Somerville, MA	3	3	_	_	_	_	_	Washington, D.C.	36	20	13	3	_	_	_
Springfield, MA	33	19	8	5	_	1	_	Wilmington, DE	10	6	4	_	_	_	1
Waterbury, CT	44	34	8	2	_	_	4	E.S. Central	862	562	216	54	12	18	70
Worcester, MA	59	38	19	1	_	1	4	Birmingham, AL	193	114	52	13	3	11	13
Mid. Atlantic	1,979	1,400	429	99	29	22	103	Chattanooga, TN	104	75	21	7	1	_	11
Albany, NY	46	32	12	_	1	1	2	Knoxville, TN	87	61	18	6	2	_	6
Allentown, PA	22 92	17 64	5	3	_	_ 1	3 3	Lexington, KY	56	39	17	 12	<u> </u>	3	2
Buffalo, NY Camden, NJ	92	6	24 1	3 1	1		_	Memphis, TN Mobile, AL	174 55	110 37	45 13	5	4	<u> </u>	18 2
Elizabeth, NJ	16	12	4			_	_	Montgomery, AL	50	38	10	1	1	_	4
Erie, PA	49	44	3	1	1	_	1	Nashville, TN	143	88	40	10	1	4	14
Jersey City, NJ	20	17	3			_	i	W.S. Central	1,455	956	332	94	43	30	85
New York City, NY	1,050	739	236	51	13	11	47	Austin, TX	81	52	19	7	1	2	9
Newark, NJ	42	21	12	7	1	1	2	Baton Rouge, LA	84	60	15	9	_	_	_
Paterson, NJ	14	6	7	_	1	_	1	Corpus Christi, TX	62	43	15	3	_	1	4
Philadelphia, PA	206	124	55	18	5	4	9	Dallas, TX	195	119	48	18	6	4	8
Pittsburgh, PA§	25	21	4	_	_	_	_	El Paso, TX	96	73	13	4	4	2	5
Reading, PA	41	31	5	1	2	2	1	Fort Worth, TX	U	U	U	U	U	U	U
Rochester, NY	136	102	26	5	1	2	14	Houston, TX	395	251	92	29	11	12	20
Schenectady, NY	25	21	4	_	_	_	2	Little Rock, AR	84	56	18	4	3	3	1
Scranton, PA	21	17	4	_	_	_	3	New Orleans, LA	U	U	U	U	U	ū	U
Syracuse, NY	98	77	15	4	2	_	7	San Antonio, TX	280	175	70	16	14	5	28
Trenton, NJ Utica, NY	31 15	24 8	5 2	2 4	_ 1	_	2 1	Shreveport, LA Tulsa, OK	52 126	41 86	9 33	2 2	<u> </u>	1	3 7
Yonkers, NY	21	o 17	2	2		_	4	Mountain	819	556	177	48	18	20	48
E.N. Central	2,094	1,378	513	133	30	40	144	Albuquerque, NM	U	U	Ü	Ü	Ü	U	U
Akron, OH	56	34	13	2	_	7	1	Boise, ID	58	37	12	6	1	2	4
Canton, OH	40	32	5	3	_	_	2	Colorado Springs, CO	74	44	19	4	4	3	1
Chicago, IL	360	209	103	33	8	7	23	Denver, CO	95	68	15	9	1	2	7
Cincinnati, OH	97	67	20	3	1	6	11	Las Vegas, NV	269	181	62	13	5	8	15
Cleveland, OH	249	175	55	12	4	3	10	Ogden, UT	35	24	9	_	2	_	3
Columbus, OH	219	125	71	15	2	6	23	Phoenix, AZ	U	U	U	U	U	U	U
Dayton, OH	120	87	20	12	_	1	13	Pueblo, CO	27	19	8	_	_	_	2
Detroit, MI	158	83	57	16	2	_	8	Salt Lake City, UT	108	63	27	11	3	4	10
Evansville, IN	57	42	10	3	2	-	5	Tucson, AZ	153	120	25	5	2	1	6
Fort Wayne, IN	78	57	17	3	_	1	5	Pacific	1,691	1,177	370	82	34	27	198
Gary, IN	20	11	9 9	_	3	_	4	Berkeley, CA	18	12 92	5	<u> </u>	_ 1	1 1	4
Grand Rapids, MI	54 198	42 132	9 46	13	3	4	15	Fresno, CA Glendale, CA	127 40	33	28 4	2		1	12 10
Indianapolis, IN Lansing, MI	43	32	46 7	2	2	4	3	Honolulu, HI	56	38	13	2	_ 1	2	5
Milwaukee, WI	102	68	25	6	1	2	7	Long Beach, CA	67	47	11	6	2	1	11
Peoria, IL	42	33	7	_		2	3	Los Angeles, CA	262	167	60	23	11	1	42
Rockford, IL	44	31	11	2	_	_	3	Pasadena, CA	22	15	4	1	2		4
South Bend, IN	45	35	8	1	_	1	2	Portland, OR	118	66	43	4	3	2	8
Toledo, OH	112	83	20	7	2	_	6	Sacramento, CA	218	155	46	12	2	3	25
Youngstown, OH	U	U	U	U	U	U	U	San Diego, CA	136	93	30	7	3	3	9
W.N. Central	727	482	166	41	22	16	61	San Francisco, CA	131	92	27	6	2	4	18
Des Moines, IA	105	76	19	7	1	2	7	San Jose, CA	185	147	32	3	2	1	18
Duluth, MN	27	19	6	_	1	1	2	Santa Cruz, CA	30	23	4	1	_	1	7
Kansas City, KS	28	18	6	3	1	_	1	Seattle, WA	117	78	27	7	1	4	11
Kansas City, MO	114	76	22	6	8	2	8	Spokane, WA	62	50	9	1	_	2	8
Lincoln, NE	49	38	7	1	_	3	2	Tacoma, WA	102	69	27	2	4	_	6
Minneapolis, MN	66	42	17	4	2	1	7	Total [¶]	11,269	7,575	2,620	647	218	207	836
Omaha, NE	88	68	17	1	_	2	12	1							
St. Louis, MO	109	57	41	6	3	2	16	I							
St. Paul, MN	45	32	9	2	1	1 2	1	I							
Wichita, KS	96	56	22	11	5		5	I							

U: Unavailable. —:No reported cases.

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

[†] Pneumonia and influenza.

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

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