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World No Tobacco Day — May 31, 2010

Tobacco use is the leading cause of preventable death worldwide and is estimated to kill 5 million persons each year. According to the World Health Organization (WHO), if current trends continue, by 2030 tobacco use could cause 8 million deaths annually (*1*).

WHO created World No Tobacco Day in 1987 to draw global attention to tobacco use and the preventable death and disease it causes. The theme for this year's World No Tobacco Day, which will be held on May 31, is "gender and tobacco, with an emphasis on marketing to women."

Although women account for only about 20% of the world's 1 billion smokers, female smoking rates are on the rise (2), and tobacco advertising increasingly targets girls and women (3). World No Tobacco Day this year emphasizes the importance of controlling tobacco use among women and understanding the differences between males and females in tobacco use, awareness of tobacco advertising and marketing, and the health effects of tobacco use. Additional information regarding World No Tobacco Day is available on the Internet (2).

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Differences by Sex in Tobacco Use and Awareness of Tobacco Marketing — Bangladesh, Thailand, and Uruguay, 2009

The majority of the world's 1.3 billion tobacco users are men, but female use is increasing (1,2). To examine differences in tobacco use and awareness of tobacco marketing by sex, CDC and health officials in Bangladesh, Thailand, and Uruguay (among the first countries to report results) analyzed 2009 data from a newly instituted survey, the Global Adult Tobacco Survey (GATS). This report summarizes the results of that analysis, which indicated wide variation among the three countries in tobacco use, product types used, and marketing awareness among males and females. In Bangladesh and Thailand, use of smoked tobacco products was far greater among males (44.7% and 45.6%, respectively) than females (1.5% and 3.1%, respectively). In Uruguay, the difference was smaller (30.7% versus 19.8%). Use of smokeless tobacco products in Bangladesh was approximately the same among males (26.4%) and females (27.9%), but females were significantly more likely to use smokeless tobacco in Thailand (6.3% versus 1.3%), and use in

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Uruguay by either sex was nearly nonexistent. Males in Bangladesh were twice as likely as females to notice cigarette advertising (68.0% versus 29.3%), but the difference between males and females was smaller in Thailand (17.4% versus 14.5%) and Uruguay (49.0% versus 40.0%). In all three countries, awareness of tobacco marketing was more prevalent among females aged 15–24 years than older women. Comprehensive bans on advertising, sponsorship, and promotion of tobacco products, recommended by the World Health Organization (WHO) (1), can reduce per capita cigarette consumption if enforced (3).

GATS* is a new nationally representative household survey of persons aged ≥15 years, initially conducted during 2008–2009 in 14 countries: Bangladesh, Brazil, China, Egypt, India, Mexico, Philippines, Poland, Russian Federation, Thailand, Turkey, Ukraine, Uruguay and Vietnam. Bangladesh, Thailand, and Uruguay were among the first countries to report results. The GATS core questionnaire includes detailed questions regarding the demographic characteristics of respondents, their tobacco use, and a wide range of tobacco-related topics (e.g., cessation, secondhand smoke, economics, media, and knowledge, attitudes, and perceptions). In each country, a multistage cluster sample design is used, with the number of households selected proportionate to population size. Households are chosen randomly within a primary sampling unit or secondary sampling unit, and one respondent is selected at random from each selected household to participate in the survey. Interviewers administer the survey in the country's local language, using handheld electronic data collection devices. Interviews are conducted privately and same-sex interviewers are used in countries where culturally appropriate (e.g., Bangladesh). Response rates and number of participants for the three countries in 2009 were as follows: Bangladesh, 93.6% and 9,629; Thailand, 94.2% and 20,566; and Uruguay, 95.6% and 5,581.

To examine differences in tobacco use by sex, estimates of current tobacco use^{\dagger} in the three countries were analyzed for both smoked tobacco products[§] and

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^{*}Additional information available at http://www.cdc.gov/tobacco/global/gats.

[†] Percentage of respondents who reported currently smoking tobacco or using smokeless tobacco on a "daily" or "less than daily" basis.

[§] In Bangladesh, these included manufactured cigarettes, bidis, and other smoked products such as cigars, pipes, and water pipes. In Thailand and Uruguay, they included manufactured and hand-rolled cigarettes.

smokeless tobacco products.[¶] To examine differences in tobacco marketing awareness by sex, "yes" responses were analyzed to questions regarding whether participants had noticed advertising, promotion, or sponsorship of cigarettes in the preceding 30 days. Estimates were reported for noticing any cigarette marketing, noticing marketing in stores where cigarettes are sold, and noticing marketing other than in stores where cigarettes are sold.^{**} In Bangladesh, similar questions regarding bidi^{††} and smokeless tobacco

^{††} Hand-rolled cigarettes made of tobacco flakes wrapped in a temburini or tendu leaf and tied with a string.

marketing were included in the survey. All estimates were weighted to reflect the noninstitutionalized population aged \geq 15 years in each country, accounting for clustered sampling in the variance estimation. Statistical significance of differences in values was determined using a chi-square test, with significance determined at p<0.05.

In all three countries, current tobacco use was higher among males than females, but use of tobacco varied substantially by sex. In Bangladesh, overall smoking prevalence among females (1.5%) was far lower than males (44.7%) (Table 1). However, the prevalence of smokeless tobacco use among females (27.9%) and males (26.4%) was approximately the same. In Thailand, smoking prevalence was much lower among females, compared with males (3.1% versus 45.6%), but smokeless tobacco use was higher among females than males (6.3% versus 1.3%, respectively). In Uruguay, 19.8% of females were current smokers, compared with 30.7% of males, but only one of the 5,581 participants reported using smokeless tobacco.

Regardless of age group or region type (urban or rural), males were more likely to smoke than females in all three countries. Among both males and females,

TABLE 1. Current tobacco use among persons aged ≥15 years, by sex and selected characteristics — Global Adult Tobacco Survey, Bangladesh, Thailand, and Uruguay, 2009

| | Bangladesh (N = 9,629) | | | | | | ailand 20,566) | | Uruguay (N = 5,581) | | | | | |
|---|---------------------------|-------------|-----------------------|------------------------|------|-------------------------|-------------------|------------------------|------------------------|------------------------|------|--------------|--|--|
| | | | Females n = 5,161) | | | Females (n = 10,514) | | | Males = 2,634) | Females (n = 2,947) | | | | |
| Characteristic | % | (95% CI*) | % | (95% CI) | % | (95% CI) | % | (95% CI) | % | (95% CI) | % | (95% CI) | | |
| Overall | 58.0 | (55.9–60.1) | 28.7 | (26.7–30.8)† | 46.4 | (44.6–48.2) | 9.1 | (8.2–10.2)† | 30.7 | (28.2–33.4) | 19.8 | (18.1–21.6)† | | |
| Smoked tobacco products [§] Age group (yrs) | 44.7 | (42.5–47.0) | 1.5 | (1.1–2.1)† | 45.6 | (43.8–47.4) | 3.1 | (2.7–3.6) [†] | 30.7 | (28.2–33.4) | 19.8 | (18.1–21.6)† | | |
| 15–24 | 24.0 | (20.4–28.0) | 0.4 | (0.1-1.0)† | 37.4 | (32.5-42.6) | 1.4 | (0.9-2.3)† | 28.9 | (23.4–35.0) | 20.2 | (15.6–25.8)† | | |
| 25–44 | 53.1 | (50.1–56.1) | 1.1 | (0.6-2.0) [†] | 51.4 | (49.1–53.7) | 2.3 | (1.8-3.0) [†] | 35.0 | (30.7–39.5) | 26.0 | (22.7–29.5)† | | |
| 45–64 | 57.9 | (53.6-62.2) | 2.6 | (1.7-4.0)† | 45.2 | (42.9-47.6) | 4.4 | (3.5-5.5)† | 34.9 | (30.4–39.7) | 22.8 | (19.1–27.1)† | | |
| ≥65 | 39.1 | (32.7–45.9) | 6.6 | (3.5–12.2)† | 37.7 | (34.2-41.4) | 5.6 | (4.2–7.4)† | 13.2 | (9.8–17.5) | 5.2 | (3.8–7.1)† | | |
| Region type | | | | | | | | | | | | | | |
| Urban | 42.1 | (39.5–44.7) | 0.8 | (0.5–1.2)† | 41.9 | (40.1–43.7) | 3.3 | (2.8–3.8)† | 30.9 | (28.1–33.8) | 20.0 | (18.2–21.9)† | | |
| Rural | 45.6 | (42.8–48.5) | 1.8 | (1.2–2.6)† | 47.1 | (44.7–49.6) | 3.0 | (2.4–3.8)† | 28.9 | (25.0–33.1) | 16.7 | (12.7–21.7)† | | |
| Smokeless tobacco products [¶] | 26.4 | (24.2–28.6) | 27.9 | (25.9–30.0) | 1.3 | (1.1–1.7) | 6.3 | (5.5,7.2) [†] | 0.0 | (0.0-0.1) | | ** | | |
| Age group (yrs) | | | | | | | | | | | | | | |
| 15–24 | 9.3 | (6.6–12.9) | 4.0 | (2.9–5.6)† | 0.1 | (0.0-0.5) | | _ | | _ | | _ | | |
| 25–44 | 27.0 | (24.3–29.9) | 26.6 | (23.9–29.5) | 0.5 | (0.3-1.0) | 0.7 | (0.4–1.1) | | _ | | — | | |
| 45–64 | 40.4 | (36.0–44.9) | 56.2 | (52.1–60.3)† | 1.6 | (1.1–2.2) | 8.5 | (7.0–10.3)† | 0.0 | (0.0–0.3) | | — | | |
| ≥65 | 49.3 | (42.8–55.8) | 64.1 | (56.3–71.2)† | 7.5 | (5.6–9.9) | 32.9 | (28.9–37.1)† | | _ | | — | | |
| Region type | | | | | | | | | | | | | | |
| Urban | 21.6 | (19.0–24.4) | 23.4 | (20.6–26.4) | 0.8 | (0.6–1.1) | 2.2 | (1.7–2.8)† | | _ | | _ | | |
| Rural | 28.1 | (25.3–31.0) | 29.6 | (27.1–32.1) | 1.5 | (1.2-2.0) | 8.3 | (7.1–9.6)† | 0.1 | (0.0-0.9) | | — | | |

* Confidence interval.

[†] Significant difference between females and males (p<0.05, chi-square test).

§ In Bangladesh, these include manufactured cigarettes, bidis, and other smoked products such as cigars, pipes, and water pipes. In Thailand and Uruguay, they include manufactured and hand-rolled cigarettes.

In Bangladesh, these include betel quid with tobacco, sada pata, gul, khoinee zarda, and pan masala. In Thailand, they include betel quid with tobacco. In Uruguay, they include any smokeless or chew tobacco product; however, only one respondent in Uruguay indicated smokeless tobacco use.

** No respondent in category reported use.

In Bangladesh, these included betel quid with tobacco, sada pata, gul, khoinee zarda, and pan masala. In Thailand, they include betel quid with tobacco. In Uruguay, they included any smokeless or chew tobacco product; however, only one respondent in Uruguay indicated smokeless tobacco use.

^{**} Noticing any cigarette marketing included noticing advertisements or signs promoting cigarettes, cigarette company sponsorship of sporting events, or cigarette promotions in the preceding 30 days. Noticing cigarette marketing in stores where cigarettes are sold included noticing cigarettes at sale prices, free gifts, or discount offers on other products while buying cigarettes, or any advertisements or signs promoting cigarettes in stores where cigarettes are sold in the preceding 30 days. Noticing cigarette marketing in places other than in stores where cigarettes are sold included noticing any advertisements or signs promoting cigarettes, or cigarette company sponsorship of sporting events, or cigarette promotions in the preceding 30 days other than in stores where cigarettes are sold.

What is already known on this topic?

Before the advent of the Global Adult Tobacco Survey (GATS), comparative data on tobacco prevalence and awareness of tobacco marketing among countries were not available.

What is added by this report?

GATS results for three of the first countries to have data available, Bangladesh, Thailand, and Uruguay, indicate wide variation in tobacco use, products used, and awareness of tobacco product marketing among males and females.

What are the implications for public health practice?

Implementation of the World Health Organization's MPOWER strategy can effectively reduce tobacco use and its associated illness and deaths.

smoking prevalence varied by age group but did not vary greatly by region type. In Bangladesh and Thailand, smokeless tobacco use among both males and females increased with age group, and smokeless tobacco use was higher in rural than urban areas. In each of these countries, the greatest prevalence of smokeless tobacco use was among women aged \geq 65 years: 64.1% in Bangladesh and 32.9% in Thailand.

The percentage of females who noticed any cigarette advertising, sponsorship, or promotion in the preceding 30 days was 29.3% in Bangladesh, 14.5% in Thailand, and 40.0% in Uruguay (Table 2). Among males, the prevalence was 68.0% in Bangladesh, 17.4% in Thailand, and 49.0% in Uruguay. Among females, awareness of cigarette marketing in stores where cigarettes are sold was 22.0% in Bangladesh, 7.6% in Thailand, and 24.0% in Uruguay. In Thailand and Uruguay, little or no difference in awareness of instore cigarette marketing was observed between males and females; however, in Bangladesh, the prevalence among males (54.8%) was more than double the prevalence among females. Similar patterns by sex were observed for awareness of cigarette marketing other than in stores where cigarettes are sold. The percentage of females who noticed tobacco advertising, sponsorship, or promotion other than in stores where cigarettes are sold was 16.5% in Bangladesh, 8.3% in Thailand, and 31.6% in Uruguay.

In all three countries, awareness of cigarette advertising was greater among females aged 15–24 years than women aged ≥25 years. Similar age differences were observed among males in all three countries. In Bangladesh, awareness of bidi (80.1%) and smokeless tobacco (69.9%) marketing was widespread among females and did not vary by age. In Thailand, for both males and females, those who lived in urban areas were more likely to report exposure to cigarette marketing than those in rural areas. This relationship also was observed among males in Uruguay. In contrast, awareness of both bidi and smokeless tobacco marketing in Bangladesh was more common among males in rural areas than in urban areas (Table 2).

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Editorial Note

This report is the first to compare results among countries that participated in GATS. The findings demonstrate the wide variation in prevalence of tobacco use and types of tobacco used by males and females in Bangladesh, Thailand, and Uruguay and also the widespread exposure to tobacco marketing in these three countries, particularly among persons aged 15–24 years. Although tobacco use surveys have been conducted previously in all three countries, the results from GATS are the first that allow comparison among countries using the same core questionnaire and survey method.

One finding from these surveys is the lower prevalence of current smoking among females in Bangladesh and Thailand compared with males, but the higher prevalence of smokeless tobacco use among females. This reflects the traditional social acceptance of smokeless tobacco use among females in Southeast Asian countries (4), where older women are more likely to be users. In contrast, in Uruguay, smokeless tobacco use by either sex is virtually nonexistent. Tobacco use in individual countries reflects a complex interaction of personal, familial, cultural, and social factors, including exposure to tobacco industry marketing (5). For example, in the United States, girls and young women have been shown to be particularly susceptible to beliefs about self-image

| TABLE 2. Awareness of tobacco marketing in the past 30 days among persons aged \geq 15 years, by sex, marketing type, and selected characteristics — |
|--|
| Global Adult Tobacco Survey, Bangladesh, Thailand, and Uruguay, 2009 |

| | | Bangla (N = 9, | | | | Thail (N = 20 | | | | Urug (N = 5) | | |
|--|--------------|--------------------------|------|----------------------------|-------------|--------------------------|------------|--------------------------|------|--------------------------|------|--------------------------|
| | (r | Males 1 = 4,468) | | Females 1 = 5,161) | (n | Males = 10,052) | | - emales = 10,514) | (n | Males = 2,634) | - | emales = 2,947) |
| Marketing type/Characteristic | % | (95% CI*) | % | (95% CI) | % | (95% CI*) | % | (95% CI*) | % | (95% CI*) | % | (95% CI*) |
| Noticed any cigarette advertising, sponsorship, or promotion [†] | 68.0 | (64.9–71.0) | 29.3 | (26.1–32.6) [§] | 17.4 | (15.8–19.0) | 14.5 | (13.0–16.0) [§] | 49.0 | (46.0–52.0) | 40.0 | (37.2–42.8) [§] |
| Age group (yrs) | | | | | | | | | | | | |
| 15-24 | 73.1 | (68.0–77.7) [¶] | 37.0 | (33.5–42.5) [¶] | 25.1 | (21.1–29.6) [¶] | 28.1 | (23.7–32.8) [¶] | 60.1 | (53.4–66.5) [¶] | 62.5 | (55.4–69.0) [¶] |
| ≥25 | 65.9 | (62.6–69.0) | | (22.4–29.1) | | (13.9–16.8) | | (10.1–12.5) | | (42.9–48.9) | 34.9 | . , |
| Region type | 05.7 | (02.0 05.0) | 25.0 | (22.7 29.1) | 15.5 | (13.5 10.0) | 11.2 | (10.1 12.3) | 45.0 | (42.9 40.9) | 54.5 | (32.2 57.7) |
| Urban | 67.6 | (63.3–71.7) | 28.6 | (23.3–34.6) | 22.0 | (20.3–23.8)** | 174 | (15.9–19.1)** | 49.8 | (46.6–53.0)** | 40.2 | (37.3–43.3) |
| Bural | 68.1 | (64.1–71.8) | | (25.7–33.6) | | (13.3–17.6) | 13.1 | (11.1–15.3) | 40.7 | , , | | (31.2–40.4) |
| | | . , | | | | | | . , | | . , | | |
| In stores where cigarettes are sold ⁺⁺ | 54.8 | (51.7–57.9) | 22.0 | (19.1–25.3) [§] | 8.3 | (7.1–9.6) | 7.6 | (6.5–8.9) | 29.9 | (27.1–32.8) | 24.0 | (21.6–26.5) [§] |
| Age group (yrs) 15–24 | 50.0 | (53.7–64.0) [¶] | 20.2 | (242,245) | 12.1 | (9.3–15.7) [¶] | 15.2 | (117, 10, 0) | 40.1 | (34.5–45.9) [¶] | 41.0 | (25.2.40.6) |
| ≥25 | 58.9 53.1 | (, | | (24.2–34.5) [¶] | 12.1 7.3 | (, | 5.8 | (11.7–19.6) [¶] | | (* * * * *) | | (35.2–48.6) [¶] |
| | 53.1 | (49.8–56.3) | 19.4 | (16.4–22.8) | 7.3 | (6.2–8.4) | 5.8 | (4.9–6.8) | 27.0 | (24.0–30.1) | 20.0 | (17.8–22.4) |
| Region type Urban | E 2 E | (49.1 56.0) | 10 F | (15.2–24.6) | 10.1 | (8.9–11.5)** | 0.0 | (7,6,10,2) | 20.6 | (27.6–33.7)** | 24 E | (22.0–27.2)** |
| Rural | 52.5 | (48.1–56.9) | | (15.2–24.0) (19.3–27.0) | 7.5 | (6.0–9.3) | 8.9 7.0 | (7.6–10.3) (5.6–8.8) | | (27.6–33.7)*** | | . , |
| | 55.6 | | | | | | | | | . , | | (12.7–20.4) |
| Other than in stores where cigarettes are sold ^{§§} | 47.7 | (44.4–51.0) | 16.5 | (14.2–19.1) [§] | 11.1 | (9.9–12.3) | 8.3 | (7.3–9.5) [§] | 39.6 | (36.6–42.6) | 31.6 | (29.0–34.4) [§] |
| Age group (yrs) | | (| | (| | (| | // | | (| | |
| 15–24 | 53.9 | (, | | (18.7–26.1) [¶] | | (13.3–20.5) [¶] | 16.5 | (13.2–20.4) [¶] | 47.1 | (, | | (43.4–57.1) [¶] |
| ≥25 | 45.1 | (41.9–48.4) | 14.1 | (11.9–16.6) | 9.6 | (8.5–10.7) | 6.4 | (5.6–7.3) | 37.4 | (34.3–40.5) | 27.5 | (25.0–30.1) |
| Region type | 50.5 | | 17.0 | (12 (22 5) | 147 | (12 2 16 1)** | 105 | | 40.1 | | 21.0 | (20.0.24.7) |
| Urban | 50.5 | (, | | (13.6–22.5) | 14.7 | (13.3–16.1)** | 10.5 | (9.4–11.7)** | 40.1 | (36.8–43.4)** | 31.8 | . , |
| Rural | 46.7 | (42.5–50.9) | 16.1 | (13.4–19.3) | 9.5 | (7.9–11.3) | 7.3 | (5.9–9.0) | 34.2 | (29.9–38.7) | 29.7 | (, |
| Noticed any bidi advertising, sponsorship, or promotion | 85.9 | (81.8–89.2) | 80.1 | (73.7–85.4) | | NA ^{¶¶} | | NA | | NA | | NA |
| Age group (yrs) 15–24 | 88.5 | (82.8–92.5) | 02.0 | (77.3–88.8) | | NA | | NA | | NA | | NA |
| ≥25 | 84.8 | (******* | | (77.3-88.8) | | NA | | NA | | NA | | NA |
| Region type | 04.0 | (80.4-88.3) | 70.2 | (70.4-64.5) | | INA | | INA | | INA | | NA |
| Urban | 76.1 | (69.9–81.3)** | 74.2 | (63.7–82.5) | | NA | | NA | | NA | | NA |
| Rural | | (83.8–92.9) | | (03.7-82.3) (73.7-88.0) | | NA | | NA | | NA | | NA |
| | | | | | | | | | | | | |
| Noticed any smokeless tobacco advertising, sponsorship, or promotion | 70.8 | (64.1–76.7) | 69.9 | (61.4–77.2) | | NA | | NA | | NA | | NA |
| Age group (yrs) | | | | | | | | | | | | |
| 15–24 | 74.1 | (| 69.3 | , , | | NA | | NA | | NA | | NA |
| ≥25 | 69.4 | (62.4–75.7) | 70.2 | (60.6–78.3) | | NA | | NA | | NA | | NA |
| Region type | | | | | | | | | | | | |
| Urban | 57.6 | (, | 67.0 | (| | NA | | NA | | NA | | NA |
| Rural | 76.0 | (66.9–83.2) | 71.0 | (60.0–80.0) | | NA | | NA | | NA | | NA |

* Confidence interval.

⁺ Includes any advertisements or signs promoting cigarettes, cigarette company sponsorship of sporting events, or cigarette promotions.

[§] Significant difference between females and males (p<0.05, chi-square test).

[¶] Significant difference between younger and older age group (p<0.05, chi-square test).

** Significant difference between urban and rural region type (p<0.05, chi-square test).

^{\$§} Includes cigarettes at sale prices, free gifts, or discount offers on other products while buying cigarettes, or any advertisements or signs promoting cigarettes in stores where cigarettes are sold. ^{§§} Includes any advertisements or signs promoting cigarettes, cigarette company sponsorship of sporting events, or cigarette promotions other than in stores where cigarettes are sold. [¶] Data not available.

and weight control, and might be influenced more by female friends and role models who smoke or use tobacco (5).

GATS survey results like these can be used to better understand comparative patterns of tobacco use among countries, which, in turn, can be used to create more effective control programs and monitor the impact of these programs. GATS was created to enable systematic monitoring of tobacco use by persons aged ≥15 years and key tobacco-control indicators in low- and middle-income countries. Over time, GATS will provide detailed information on a range of tobacco-control topics, including cessation, secondhand smoke, economics, media, and knowledge, attitudes, and perceptions.

The theme of WHO's World No Tobacco Day 2010 (May 31) is "gender and tobacco with an emphasis on marketing to women." Tobacco marketing is important to the initiation and maintenance of tobacco use (6). In all three countries in this report, greater awareness of cigarette marketing was found among females aged 15–24 years than older women,

suggesting that tobacco companies might be targeting this age group. Historically, the tobacco industry has taken advantage of increasingly liberalized social attitudes toward women and increased economic empowerment of women to aggressively market and sell its products (7). In the absence of effective tobacco control policies, this pattern might repeat itself in lowand middle-income countries, resulting in a rise in tobacco use and tobacco-related disease and death.

Globally, each year, the tobacco industry spends tens of billions of dollars on direct and indirect advertising of tobacco products (8). Comprehensive bans on tobacco advertising, sponsorship, and promotion have been shown to reduce per capita cigarette consumption (3) if adequately enforced. Enforcement of bans on tobacco advertising, sponsorship, and promotion, is a component of WHO's MPOWER strategy (1). According to WHO, only 26 countries have implemented comprehensive bans on direct and indirect tobacco advertising, and many do not have high levels of compliance (8). Bangladesh and Uruguay have a ban on all national television, radio, and print media, and on some, but not all, other forms of direct and/or indirect advertising of tobacco products. In these countries, enforcement is rated as high, but not complete (8). Thailand has a ban on all direct and indirect advertising, with the level of enforcement rated somewhat lower. §§ The results presented in this report indicate that the lowest prevalence of awareness of cigarette marketing, among both males and females, was found in Thailand, where prohibition of the display of cigarettes packets or logos of tobacco brands at the points of sale was enforced beginning in 2005.

The findings in this report are subject to at least two limitations. First, the prevalence results are based on self-reports. In certain settings, social norms (i.e., unacceptability of women smoking) might result in underreporting. However, this tendency might have been mitigated by using same-sex interviewers and conducting interviews in private settings. Second, regarding the findings on awareness of tobacco marketing, slight variations in the number and type of specific response categories used in each country might limit comparability. For example, Thailand added a category of "pubs/bars" as a site for tobacco marketing to the core GATS questionnaire and removed "public walls." Uruguay added the category "e-mail" to promotions, and Thailand added a category for the "Internet." Aside from these differences, the response categories were similar among the three countries.

Continued monitoring will be needed to determine trends in tobacco use and awareness of tobacco marketing and the differences between males and females. Repeated GATS surveys in participating countries will allow the countries to compare results to other countries, track key tobacco control indicators, and monitor progress toward tobacco-control goals.

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^{§§} Enforcement ratings are measured on a 10-point scale and are based on an in-country qualitative assessment by national tobaccocontrol experts. Bangladesh received an enforcement rating of 9, Thailand 7, and Uruguay 9.

Attitudes Toward Mental Illness — 35 States, District of Columbia, and Puerto Rico, 2007

Negative attitudes about mental illness often underlie stigma, which can cause affected persons to deny symptoms; delay treatment; be excluded from employment, housing, or relationships; and interfere with recovery (1). Understanding attitudes toward mental illness at the state level could help target initiatives to reduce stigma, but state-level data are scant. To study such attitudes, CDC analyzed data from the District of Columbia (DC), Puerto Rico, and the 35 states participating in the 2007 Behavioral Risk Factor Surveillance System (BRFSS) (the most recent data available), which included two questions on attitudes toward mental illness. Most adults (88.6%) agreed with a statement that treatment can help persons with mental illness lead normal lives, but fewer (57.3%) agreed with a statement that people are generally caring and sympathetic to persons with mental illness. Responses to these questions differed by age, sex, race/ ethnicity, and education level. Although most adults with mental health symptoms (77.6%) agreed that treatment can help persons with mental illness lead normal lives, fewer persons with symptoms (24.6%) believed that people are caring and sympathetic to persons with mental illness. This report provides the first state-specific estimates of these attitudes and provides a baseline for monitoring trends. Initiatives that can educate the public about how to support persons with mental illness and local programs and media support to decrease negative stereotypes of mental illness can reduce barriers for those seeking or receiving treatment for mental illness (2,3).

To measure attitudes about mental illness through BRFSS and other surveys, the Substance Abuse and Mental Health Services Administration (SAMHSA) and CDC collaborated in 2005 to develop brief questions suitable for surveillance (4). BRFSS is an ongoing, state-based, random-digit–dialed telephone survey of the noninstitutionalized civilian population aged ≥18 years.* With SAMHSA and CDC support, 35 states, DC, and Puerto Rico questioned survey respondents to the 2007 BRFSS about mental illness. Questions included the Kessler-6 scale of serious psychological distress (5), frequent mental distress, one question about current treatment for an emotional problem, and two attitudinal questions.

The Kessler 6-scale asks respondents how often in the past 30 days they felt six symptoms of mental illness (i.e., feeling nervous, depressed, hopeless, restless, like a failure, like everything was an effort). Each item is scored on a 5-point scale indicating frequency, ranging from 0 (none of the time) to 4 (all of the time), and summed (score range: 0-24). Respondents scoring 13 or more on this scale were classified as having serious psychological distress (5). Frequent mental distress was measured with the question, "For how many days in the past 30 days was your mental health (due to stress, depression, or problems with emotions) not good?" Respondents reporting 14 or more poor mental health days were identified as having frequent mental distress. To determine current treatment for an emotional problem, survey participants were asked, "Are you now taking medicine or receiving treatment from a doctor or other health professional for any type of mental health condition or emotional problem?"

Attitudes were assessed by asking respondents to indicate their level of agreement with two statements. The first statement assessed attitude on the effectiveness of treatment: "Treatment can help people with mental illness lead normal lives." The second statement assessed the respondent's perception of others' attitudes toward persons with mental illness: "People are generally caring and sympathetic to people with mental illness."[†] Before inclusion in BRFSS, cognitive testing in a sample of the general population confirmed that adults understood these questions as intended. For example, respondents suggested that "normal lives" meant "being able to do everyday things, like going to the grocery store, paying bills, things that you have to do to live." The question about attitudes toward treatment also demonstrated acceptable construct validity with expectations regarding mental illness recovery.

Data were weighted to estimate population parameters. CDC used statistical software to calculate unadjusted and adjusted proportions (adjusted for sex,

^{*}Additional information available at http://www.cdc.gov/brfss.

[†] These questions were modified from the 2002 National Scottish Survey of Public Attitudes to Mental Health, Well Being and Mental Health Problems, included in more recent versions of the survey available at http://www.scotland.gov.uk/publications/2009/09/15120147/10.

What is already known on this subject?

Negative attitudes about mental illness pose barriers for persons needing mental health treatment or recovering from mental illness.

What is added by this report?

This report provides the first state-specific estimates of attitudes toward persons with mental illness and treatment of mental illness. Most adults agreed (89%) with the effectiveness of mental illness treatment but fewer agreed (57%) that other people are caring and sympathetic toward those with mental illness.

What are the implications for public health practice?

Initiatives that can educate the public about how to support persons with mental illness and local programs and media support to decrease negative stereotypes of mental illness can reduce barriers for those seeking or receiving treatment for mental illness.

age group, racial/ethnic group, education, and household income) of agreement by state and by serious psychological distress, frequent mental distress, and mental health treatment, and to account for the complex BRFSS survey design. After adjustment, CDC examined differences in proportions across agreement categories for both questions by serious psychological distress, frequent mental distress, and mental health treatment status. The analyses excluded persons who responded "did not know" or "refused" to answer the questions.[§] The sample size included 202,065 adults. Among the 35 states, DC, and Puerto Rico, the median Council of American Survey Research Organization (CASRO) response rate was 51% and the CASRO cooperation rate was 71.4%.[¶]

Most adults agreed, either strongly (62.8%) or slightly (25.8%), that treatment could help persons with mental illness lead normal lives, but responses varied by states (Table 1). The highest percentages of strongly agreeing with this statement were in Connecticut, DC, Louisiana, Oregon, Vermont, Virginia, and Washington; the lowest was in Puerto Rico (Figure). Proportions for neither agree nor disagree ranged from 0.6% (Iowa) to 9.2% (Puerto Rico). Younger adults, men, persons other than white non-Hispanics, and persons at lower education levels were less likely to agree strongly with this statement (Table 2).

In contrast with the statement about treatment, a lower proportion of adults agreed, either strongly (22.3%) or slightly (35.0%), with the statement that people are caring and sympathetic to persons with mental illness (Table 3). The highest percentages of strongly agreeing with this statement occurred in Hawaii, Louisiana, Mississippi, Oklahoma, Nevada, and New Mexico. The lowest was in Puerto Rico. Adults aged 25–54 years, women, white non-Hispanics and black non-Hispanics, and college graduates were less likely to agree with this statement (Table 2).

Approximately 4.0% of adults were classified with serious psychological distress, 10.0% were classified with frequent mental distress, and 10.8% reported receiving treatment for an emotional problem. Although most adults with mental health symptoms (77.6%) agreed strongly or slightly that treatment can help persons with mental illness lead normal lives, about 17.8% disagreed (Table 2). Fewer respondents with mental health symptoms (24.6%) agreed strongly or slightly that people are generally caring and sympathetic to persons with mental illness than those without such distress or treatment (Table 2).

Reported by

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Editorial Note

This is the first state-specific study of attitudes toward mental illness treatment and empathy toward persons with mental illness. The study sought to assess attitudes related to the course of mental illness (i.e., treatment prognosis and possibility of recovery; and perception of supportive behaviors) that might directly influence seeking treatment or recovery and might reflect stigmatizing attitudes amenable to public health intervention. In the 37 jurisdictions surveyed, most adults believed in the effectiveness of mental illness treatment, but fewer agreed that people are

[§] For each question, approximately 2% of respondents answered "did not know" and approximately 0.3% of respondents refused to answer each question.

⁹ 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. Rates are available at http://ftp.cdc.gov/pub/data/ brfss/2007summarydataqualityreport.pdf.

| | Unweighted sample size | | Disagree strongly | | Disagree slightly | | her agree disagree | | Agree lightly | | Agree trongly |
|----------------------|---------------------------|-----|------------------------|-----|----------------------|-----|-----------------------|------|------------------|------|------------------|
| State | Ν | % | (95% Cl [§]) | % | (95% CI) | % | (95% CI) | % | (95% CI) | % | (95% CI) |
| Alaska | 2,365 | 1.2 | (0.7–2.1) | 3.7 | (2.4–5.5) | 1.4 | (0.5–3.2) | 25.9 | (23.0-2 9.1) | 63.3 | (60.0–66.5) |
| Arkansas | 5,299 | 1.9 | (1.3–2.7) | 3.5 | (2.8–4.4) | 0.7 | (0.4–1.0) | 23.9 | (22.2–25.6) | 67.2 | (65.4–69.0) |
| California | 5,052 | 1.8 | (1.3–2.5) | 4.3 | (3.5-5.2) | 1.5 | (1.1–2.0) | 29.6 | (27.7–31.5) | 61.6 | (59.7–63.6) |
| Colorado | 5,423 | 1.4 | (1.0–1.9) | 3.8 | (3.0-4.8) | 0.7 | (0.4–1.1) | 25.9 | (24.3–27.6) | 65.3 | (63.5–67.0) |
| Connecticut | 6,586 | 1.1 | (0.7–1.6) | 2.4 | (1.9–3.1) | 1.9 | (1.4–2.6) | 21.6 | (20.1–23.1) | 71.3 | (69.7–72.9) |
| District of Columbia | 3,419 | 1.5 | (1.0-2.1) | 2.9 | (2.2-3.7) | 1.3 | (0.7-2.1) | 18.3 | (16.5–20.2) | 74.0 | (71.9–76.0) |
| Georgia | 6,838 | 1.8 | (1.3–2.5) | 3.8 | (3.1-4.6) | 3.0 | (2.4-3.8) | 23.7 | (22.1–25.4) | 65.3 | (63.5–67.1) |
| Hawaii | 6,262 | 2.4 | (1.9-3.0) | 4.8 | (4.0-5.8) | 1.7 | (1.3-2.2) | 26.9 | (25.2–28.6) | 59.9 | (58.1–61.7) |
| Illinois | 5,030 | 1.5 | (1.0-2.0) | 4.0 | (3.2-5.0) | 0.9 | (0.6-1.3) | 27.2 | (25.4–29.0) | 65.0 | (63.1–66.9) |
| Indiana | 5,467 | 1.4 | (0.9-2.0) | 3.5 | (2.8-4.4) | 1.3 | (0.9–1.7) | 26.6 | (24.8-28.4) | 64.5 | (62.6–66.4) |
| lowa | 4,921 | 1.3 | (0.9–1.9) | 3.3 | (2.6-4.2) | 0.6 | (0.3-1.0) | 26.0 | (24.3-27.8) | 66.5 | (64.7–68.3) |
| Kansas | 4,081 | 1.1 | (0.7-1.4) | 2.6 | (1.9–3.3) | 2.3 | (1.6–2.9) | 25.5 | (23.8–27.3) | 66.2 | (64.3-68.1) |
| Kentucky | 6,185 | 1.7 | (1.0-2.8) | 1.5 | (1.1-2.0) | 5.7 | (4.7-6.9) | 25.2 | (23.4–27.0) | 62.1 | (60.1–64.1) |
| Louisiana | 6,098 | 2.1 | (1.6-2.8) | 3.6 | (2.8-4.6) | 1.9 | (1.4–2.6) | 16.6 | (15.3–18.1) | 72.0 | (70.3–73.7) |
| Maine | 3,734 | 1.5 | (0.8-2.4) | 3.3 | (2.5-4.2) | 1.0 | (0.7–1.6) | 23.7 | (21.9–25.6) | 70.5 | (68.5–72.5) |
| Massachusetts | 4,162 | 2.1 | (1.3-3.1) | 3.6 | (2.7-4.6) | 1.8 | (1.3-2.5) | 23.4 | (21.3–25.7) | 66.9 | (64.5–69.3) |
| Michigan | 4,235 | 1.6 | (1.0-2.6) | 3.5 | (2.7-4.5) | 0.9 | (0.5-1.4) | 25.2 | (23.4–27.1) | 65.9 | (63.8–67.8) |
| Minnesota | 4,485 | 1 | _ | _ | _ | 3.6 | (2.9–4.3) | 29.2 | (27.3–31.2) | 67.2 | (65.2–69.2) |
| Mississippi | 7,381 | 2.2 | (1.5-3.1) | 4.4 | (3.6-5.4) | 1.3 | (1.0-1.7) | 21.6 | (20.2-23.1) | 67.0 | (65.3–68.7) |
| Missouri | 4,738 | 1.5 | (1.0-2.1) | 3.2 | (2.4-4.2) | 1.7 | (1.1–2.3) | 25.1 | (23.1–27.3) | 68.6 | (66.3–70.7) |
| Montana | 5,415 | 1.6 | (1.1–2.3) | 3.5 | (2.8-4.4) | 3.3 | (2.6-4.1) | 25.9 | (24.2–27.6) | 62.7 | (60.8–64.5) |
| Nebraska | 4,890 | 1.1 | (0.6–1.9) | 3.2 | (2.3-4.5) | 1.7 | (1.0-2.8) | 24.9 | (22.3–27.7) | 66.9 | (64.0–69.7) |
| Nevada | 3,868 | 2.0 | (1.3-2.8) | 3.7 | (2.9-4.8) | 2.0 | (1.3-3.0) | 29.2 | (26.8-31.7) | 60.2 | (57.7–62.7) |
| New Hampshire | 5,453 | 0.9 | (0.6–1.3) | 3.1 | (2.5-3.9) | 2.1 | (1.6-2.6) | 24.3 | (22.7–25.9) | 67.7 | (66.0–69.3) |
| New Mexico | 5,961 | 1.8 | (1.2-2.6) | 3.8 | (3.1-4.6) | 2.4 | (1.9-3.0) | 24.4 | (22.8–26.2) | 63.3 | (61.5–65.2) |
| Ohio | 5,014 | 1.2 | (0.7–1.7) | 3.6 | (2.9-4.5) | 1.4 | (1.0-2.0) | 23.0 | (21.3–24.7) | 68.8 | (66.9–70.6) |
| Oklahoma | 6,885 | 1.2 | (0.8–1.6) | 3.1 | (2.5-3.8) | 0.8 | (0.5-1.2) | 24.1 | (22.7–25.6) | 66.5 | (64.9–68.0) |
| Oregon | 1,898 | 0.9 | (0.4–1.6) | 2.2 | (1.4-3.5) | 1.4 | (0.7-2.5) | 21.4 | (19.0-24.1) | 71.7 | (68.8–74.4) |
| Puerto Rico | 3,832 | 1.6 | (1.1–2.2) | 4.4 | (3.6-5.3) | 9.2 | (8.0–10.6) | 56.4 | (54.3-58.4) | 25.7 | (23.9–27.6) |
| Rhode Island | 3,915 | 1.3 | (0.8-2.0) | 3.5 | (2.7-4.5) | 2.9 | (2.1-3.8) | 28.3 | (26.2-30.5) | 61.9 | (59.7–64.2) |
| South Carolina | 9,889 | 1.4 | (1.1–1.8) | 4.4 | (3.7-5.1) | 1.1 | (0.8-1.5) | 26.8 | (25.4–28.2) | 61.6 | (60.1–63.1) |
| Texas | 7,386 | 2.2 | (1.8–2.8) | 4.9 | (4.1-5.8) | 4.4 | (3.7–5.2) | 24.9 | (23.2–26.6) | 57.9 | (56.1–59.7) |
| Vermont | 6,589 | 1.0 | (0.7-1.5) | 2.1 | (1.6-2.6) | 1.4 | (1.0–1.9) | 22.8 | (21.4–24.3) | 70.2 | (68.6–71.7) |
| Virginia | 5,305 | 2.1 | (1.0-4.2) | 2.8 | (2.1-3.6) | 1.8 | (1.3 - 2.4) | 20.8 | (19.0-22.7) | 70.8 | (68.5-72.9) |
| Washington | 13,325 | 1.5 | (1.1-1.9) | 3.0 | (2.4-3.6) | 1.9 | (1.5-2.3) | 20.8 | (19.8–21.9) | 70.0 | (68.8–71.2) |
| Wisconsin | 4,332 | 1.5 | (1.0-2.1) | 4.3 | (3.2–5.5) | 0.7 | (0.4–1.1) | 29.8 | (27.7-31.9) | 61.6 | (59.4–63.8) |
| Wyoming | 5,780 | 0.9 | (0.5-1.4) | 3.1 | (2.4-3.9) | 1.5 | (1.0-2.0) | 26.7 | (25.0-28.5) | 65.5 | (63.7-67.3) |
| Total | 202,065 | 1.8 | (1.6–2.0) | 3.9 | (3.6–4.1) | 2.1 | (1.9–2.3) | 25.8 | (25.3–26.3) | 62.8 | (62.3–63.4) |

TABLE 1. Level of agreement* with the statement that treatment can help persons with mental illness lead normal lives,[†] by state and territory — Behavioral Risk Factor Surveillance System, 2007

* Adjusted for sex, age group, racial/ethnic group, education and household income level. Estimates are weighted; sample size is unweighted.

⁺ Attitudes were assessed by asking respondents to indicate their level of agreement with the statement, "Treatment can help people with mental illness lead normal lives."

§ Confidence intervals.

¹ Data suppressed because of unstable estimates; before adjustment, about 4% of Minnesota adults disagreed with this statement.

caring and sympathetic toward persons with mental illness. These results have public health implications because adverse attitudes about mental illness can lead to stigmatization of persons with mental illness. In addition, the results have implications for mental health treatment because adults who do not believe in the effectiveness of mental illness treatment might be less likely to seek treatment when needed. Also, persons with mental health symptoms who believe that others are not caring and sympathetic toward persons with mental illness to friends, family members, colleagues, or other persons who could help.

Some of the adverse attitudes indicated in this report might be caused by stigma experienced by

some respondents (e.g., those with mental health problems who received less support at work or at home or who experienced exclusion from activities) (6). Respondents who perceived adverse attitudes about empathy in other persons also might have had less contact with persons with mental illness, or also might harbor misconceptions about the risks associated with mental illness symptoms (7).

Although the study did not include all 50 states and U.S. territories, state-to-state differences were noted, but no clear regional patterns emerged on the attitudes studied. Differences might have resulted from culture and the social environment (e.g., norms, customs, language, lifestyle, and degree of acculturation), differences in how mental health is portrayed

| FIGURE. Level of agreement* with the statement that people are caring and sympathetic to persons with mental illness, [†] by state and territory | |
|---|--|
| — Behavioral Risk Factor Surveillance System, 2007 | |

| California | | 8.0 21.6 | 42.0 | | 25.1 |
|----------------------|------|-------------|------|---------|---------|
| Hawaii | 1 | 0.5 20.9 | 33.5 | 29.7 | |
| Rhode Island | 9.4 | 23.4 | 39.1 | 21.8 | |
| Illinois | 10.1 | 26.8 | 38.4 | 22.3 | |
| Nebraska | 8.4 | 25.7 | 40.7 | 19.9 |) |
| lowa | 10.5 | 25.2 | 40.0 | 20.3 | |
| Vermont | 8.0 | 26.8 | 40.0 | 20.2 | |
| Oklahoma | 11.5 | 23.6 | 32.7 | 27.5 | |
| Minnesota | 8.1 | 25.3 | 41.9 | 18. | 3 |
| Michigan | 10.0 | 26.0 | 37.3 | 22.9 | |
| Wisconsin | 9.6 | 29.1 | 40.1 | 19.8 | |
| Indiana | 10.1 | 25.3 | 37.7 | 22.2 | |
| South Carolina | 10.9 | 24.3 | 35.0 | 24.2 | |
| Maine | 9.2 | 27.5 | 37.9 | 21.1 | |
| Texas | | 10.6 19.8 | 32.1 | 26.3 | |
| Louisiana | 1 | 3.8 18.9 | 25.7 | 32.7 | |
| Colorado | 8.6 | 28.3 | 36.3 | 21.8 | |
| Alaska | 9.4 | 25.4 | 37.8 | 20.3 | |
| New Mexico | 10.5 | 26.1 | 31.7 | 25.7 | |
| New Hampshire | 10.3 | 27.5 | 38.6 | 17.7 | |
| Georgia | 11.8 | 25.3 | 34.1 | 21.6 | |
| Montana | 9.5 | 25.5 | 37.8 | 17.9 | |
| Ohio | 10.9 | 28.2 | 37.5 | 17.9 | |
| Arkansas | 12.7 | 27.4 | 33.8 | 21.6 | |
| Massachusetts | 11.6 | 27.1 | 34.7 | 20.6 | |
| Wyoming | 10.7 | 30.4 | 37.4 | 17.6 | |
| Virginia | 11.0 | 28.3 | 36.1 | 18.3 | |
| Nevada | 11.4 | 28.7 | 28.8 | 25.5 | |
| Missouri | 13.2 | 29.2 | 36.3 | 17.8 | |
| Kansas | 10.4 | 28.6 | 36.7 | 17.2 | |
| Mississippi | 17.7 | 22.8 | 25.7 | 28.0 | |
| Connecticut | 10.9 | 28.7 | 32.8 | 18.8 | |
| Kentucky | 16 | 5.1 18.5 | 27.0 | 23.3 | |
| District of Columbia | 14.3 | 28.2 | 30.6 | 19.5 | |
| Washington | 17.6 | 26.8 | 28.1 | 19.5 | |
| Oregon | 15.5 | 32.0 | 32.2 | 15.3 | |
| Puerto Rico | 6.5 | 35.4 | 31.1 | 7.2 | |
| | 40 | 1 1 20 0 | 20 | 1 40 | Г 60 |
| | U | Percer | | 40 | 00 |

* Adjusted for sex, age group, racial/ethnic group, education and household income level. Estimates are weighted; sample size is omitted. Neither agree nor disagree responses are not shown.

⁺ Attitudes were assessed by asking respondents to indicate their level of agreement with the statement, "People are generally caring and sympathetic to people with mental illness."

TABLE 2. Level of agreement with statements about mental illness* by demographic characteristics, serious psychological distress, and having received treatment— Behavioral Risk Factor Surveillance System, 2007

| | Unweighted sample size | | isagree trongly | | sagree ightly | | er agree isagree | | Agree lightly | | Agree tongly |
|---|---------------------------|------|------------------------|------|------------------|-----|---------------------|------|------------------|------|-----------------|
| Statements/Characteristics | N | %† | (95% CI [§]) | % | (95% CI) | % | (95% Cl) | % | (95% CI) | % | (95% CI) |
| Treatment can help persons with mental illness | lead normal lives | | | | | | | | | | |
| Total [†] | 202,065 | 1.8 | (1.6–2.0) | 3.9 | (3.6-4.1) | 2.1 | (1.9–2.3) | 25.8 | (25.3–26.3) | 62.8 | (62.3–63.4) |
| Age group (yrs) | | | . , | | | | . , | | | | . , |
| 18–24 | 7,286 | 2.3 | (1.7–3.1) | 6.8 | (5.7-8.0) | 2.1 | (1.6–2.7) | 38.4 | (36.2–40.6) | 50.5 | (48.2–52.7) |
| 25–34 | 20,504 | 1.9 | (1.5–2.5) | 4.0 | (3.5–4.6) | 1.9 | (1.6–2.3) | 31.0 | (29.7–32.3) | 61.2 | (59.8-62.5) |
| 35–54 | 72,878 | 1.4 | (1.2–1.7) | 2.9 | (2.7-3.2) | 1.9 | (1.6–2.1) | 23.9 | (23.2-24.6) | 69.9 | (69.2–70.6) |
| ≥55 | 93,290 | 1.4 | (1.2–1.6) | 3.5 | (3.2–3.8) | 2.5 | (2.3–2.7) | 23.6 | (23.0-24.2) | 69.0 | (68.4–69.6) |
| Sex | | | | | | | | | | | |
| Male | 72,350 | 1.9 | (1.7–2.2) | 4.3 | (4.0-4.7) | 2.3 | (2.1–2.6) | 30.7 | (29.9–31.5) | 60.7 | (59.9–61.6) |
| Female | 122,671 | 1.3 | (1.1–1.5) | 3.2 | (2.9–3.5) | 1.9 | (1.7–2.1) | 23.0 | (22.5–23.6) | 70.6 | (70.0-71.2) |
| Race/Ethnicity | | | | | | | | | | | |
| White, non-Hispanic | 152,980 | 1.1 | (1.0–1.3) | 3.0 | (2.8-3.3) | 1.8 | (1.6–2.0) | 24.7 | (24.2–25.2) | 69.4 | (68.9–69.9) |
| Black, non-Hispanic | 13,772 | 2.8 | (2.3–3.3) | 6.6 | (5.6–7.7) | 2.4 | (1.9–3.0) | 26.9 | (25.1–28.7) | 61.4 | (59.6-63.3) |
| Hispanic | 14,689 | 3.0 | (2.4–3.7) | 5.1 | (4.3–6.0) | 3.4 | (2.9–4.0) | 34.7 | (32.9–36.5) | 53.8 | (52.0-55.7) |
| Other | 12,062 | 2.1 | (1.4–3.0) | 4.4 | (3.6–5.4) | 1.9 | (1.4–2.6) | 29.9 | (27.7–32.2) | 61.7 | (59.3-64.0) |
| Educational level | | | | | | | | | , | | , |
| <high school<="" td=""><td>18,186</td><td>3.4</td><td>(2.8-4.1)</td><td>5.8</td><td>(5.0-6.7)</td><td>3.5</td><td>(2.9-4.2)</td><td>31.9</td><td>(30.2–33.7)</td><td>55.3</td><td>(53.4–57.1)</td></high> | 18,186 | 3.4 | (2.8-4.1) | 5.8 | (5.0-6.7) | 3.5 | (2.9-4.2) | 31.9 | (30.2–33.7) | 55.3 | (53.4–57.1) |
| High school graduate | 56,660 | 1.9 | (1.6–2.2) | 5.0 | (4.5–5.4) | 2.4 | (2.1–2.7) | 30.2 | (29.3–31.1) | 60.6 | (59.7–61.6) |
| Some college | 51,772 | 1.4 | (1.1–1.7) | 3.8 | (3.4–4.2) | 2.0 | (1.8–2.3) | 27.6 | (26.6–28.5) | 65.2 | (64.2–66.2) |
| College graduate | 68,130 | 1.0 | (0.7–1.3) | 2.1 | (1.8–2.4) | 1.5 | (1.3–1.7) | 21.7 | (21.0–22.4) | 73.8 | (73.0–74.5) |
| Mental health symptoms [†] | , | | (, | | | | | | (| | (, |
| Frequent mental distress | 20,176 | 3.1 | (2.5–3.6) | 5.3 | (4.6–5.9) | 2.1 | (1.7–2.6) | 24.8 | (23.4–26.1) | 61.5 | (59.9–63.0) |
| Serious psychological distress | 8,010 | 5.7 | (4.8–6.7) | 9.6 | (8.3–10.9) | 2.1 | (1.6–3.1) | 24.6 | (22.4–26.8) | 54.6 | (52.0–57.2) |
| Receiving medicine/treatment from a health | 26,279 | 1.8 | (1.4–2.1) | 3.9 | (3.4–4.5) | 1.4 | (1.2–1.7) | 20.3 | (19.2–21.4) | 70.2 | (69.0-71.3) |
| professional for an emotional problem | 20,279 | 1.0 | (1.7 2.1) | 5.7 | (3.4 4.3) | 1.4 | (1.2 1.7) | 20.5 | (17.2 21.4) | 70.2 | (05.0 71.5) |
| None of the above | 157,176 | 1.6 | (1.4–1.8) | 3.8 | (3.5-4.1) | 2.2 | (2.0-2.4) | 26.8 | (26.3–27.4) | 62.4 | (61.9–63.0) |
| All of the above | 3,293 | 6.8 | (5.4-8.2) | 11.0 | (8.8–13.2) | 2.3 | (1.4–3.2) | 25.6 | (22.6–28.6) | 52.0 | (48.5–55.5) |
| | | | | | | | | | | | |
| People are generally caring and sympathetic to Total [†] | 202,065 | | | 247 | (24.2, 25.2) | 2.2 | (3.0-3.4) | 25.0 | | 22.2 | (21.9–22.8) |
| | 202,065 | 10.6 | (10.3–10.9) | 24.7 | (24.3–25.2) | 3.2 | (5.0-5.4) | 35.0 | (34.5–35.5) | 22.3 | (21.9-22.6) |
| Age group (yrs) | 7 2 2 2 | | ((0, 0, 0)) | 22.0 | (21.2.24.0) | 2.0 | (2 2 2 4) | 42.5 | (41.2.45.7) | 22.0 | (20.0.24.0) |
| 18–24 | 7,339 | 7.7 | (6.8–8.8) | 23.0 | (21.2–24.9) | 2.9 | (2.3–3.6) | 43.5 | (41.3–45.7) | 22.8 | (20.9–24.8) |
| 25–34 | 20,579 | 10.3 | (9.6–11.2) | 28.3 | (27.2–29.5) | 3.0 | (2.6–3.5) | 37.9 | (36.6–39.2) | 20.4 | (19.3–21.7) |
| 35–54 | 72,928 | 12.0 | (11.6–12.5) | 27.1 | (26.5–27.8) | 3.3 | (3.0–3.6) | 37.0 | (36.2–37.7) | 20.5 | (19.9–21.2) |
| ≥55 | 92,814 | 11.1 | (10.7–11.5) | 23.5 | (22.9–24.0) | 3.7 | (3.5–4.0) | 34.5 | (33.9–35.2) | 27.2 | (26.6–27.8) |
| Sex | | | | | | | | | | | |
| Male | 72,578 | 8.9 | (8.4–9.3) | 22.9 | (22.2–23.6) | 3.5 | (3.2–3.8) | 40.6 | (39.8–41.4) | 24.1 | (23.4–24.9) |
| Female | 122,140 | 12.9 | (12.5–13.3) | 28.5 | (27.9–29.0) | 3.2 | (3.0–3.4) | 33.9 | (33.3–34.5) | 21.5 | (20.9–22.0) |
| Race/Ethnicity | | | | | | | | | | | |
| White, non-Hispanic | 152,612 | 11.2 | (10.8–11.5) | 28.0 | (27.5–28.5) | 3.2 | (3.0–3.4) | 38.4 | (37.9–38.9) | 19.3 | (18.9–19.7) |
| Black, non-Hispanic | 13,772 | 15.1 | (13.9–16.4) | 23.0 | (21.5–24.6) | 3.0 | (2.5–3.7) | 31.7 | (29.9–33.6) | 27.2 | (25.6–28.8) |
| Hispanic | 14,672 | 7.8 | (6.9–8.7) | 20.3 | (18.9–21.8) | 4.5 | (4.0–5.1) | 35.7 | (33.9–37.6) | 31.7 | (29.9–33.5) |
| Other | 12,154 | 10.7 | (9.6–12.0) | 19.2 | (17.5–20.9) | 2.9 | (2.2–3.7) | 35.0 | (32.7–37.4) | 32.2 | (30.0–34.5) |
| Educational level | | | | | | | | | | | |
| <high school<="" td=""><td>18,096</td><td>9.3</td><td>(8.4–10.3)</td><td>16.3</td><td>(15.0–17.5)</td><td>3.4</td><td>(2.9-3.9)</td><td>32.4</td><td>(30.7-34.2)</td><td>38.6</td><td>(36.8–40.5)</td></high> | 18,096 | 9.3 | (8.4–10.3) | 16.3 | (15.0–17.5) | 3.4 | (2.9-3.9) | 32.4 | (30.7-34.2) | 38.6 | (36.8–40.5) |
| High school graduate | 56,843 | 10.5 | (10.0–11.0) | 22.3 | (21.6–23.1) | 3.3 | (3.0–3.7) | 36.2 | (35.2–37.1) | 27.7 | (26.9–28.6) |
| Some college | 51,687 | 12.1 | (11.5–12.7) | 27.3 | | 3.5 | (3.1–3.8) | 36.8 | (35.9–37.8) | 20.4 | (19.6–21.2) |
| College graduate | 67,814 | 11.0 | (10.5–11.5) | 30.4 | | 3.3 | (3.0–3.6) | 39.8 | (39.0-40.5) | 15.6 | (15.0–16.2) |
| Mental health symptoms [†] | | | | | | | | | , | | |
| Frequent mental distress | 20,176 | 22.2 | (21.1–23.4) | 26.6 | (25.2–28.0) | 2.9 | (2.3-3.4) | 28.1 | (26.6–29.6) | 17.3 | (16.0–18.6) |
| Serious psychological distress | 8,010 | 31.4 | (29.2–33.6) | 26.4 | (23.7–29.0) | 2.3 | (1.6–3.0) | 22.9 | (20.6–25.3) | 14.4 | (12.3–16.4) |
| Receiving medicine/treatment from a health | 26,279 | 19.3 | (18.3–20.3) | 20.4 | | 3.2 | (1.0 3.0) | 29.3 | (28.1–30.6) | 17.6 | (12.3 10.4) |
| professional for an emotional problem | | | , | | (0)) | 5.2 | (510) | 0 | () | | (|
| None of the above | 157,176 | 9.2 | (8.9-9.5) | 24.3 | (23.8–24.8) | 3.2 | (3.0-3.5) | 36.4 | (35.8–36.9) | 23.4 | (22.9–23.9) |
| | | | | | | | | | | | |

* Attitudes were assessed by asking respondents to indicate their level of agreement with the statements "Treatment can help people with mental illness lead normal lives" and "People are generally caring and sympathetic to people with mental illness."
 † Adjusted for sex, age group, racial/ethnic group, education and household income level. Row totals do not equal 100% because "don't know" and refusals were omitted. Estimates are weighted; sample size is unweighted.
 § Confidence intervals.

| | Unweighted Disagree sample size strongly | | | | Disagree slightly | | ther agree disagree | | Agree slightly | | Agree strongly |
|----------------------|---|------|------------------------|------|----------------------|------|------------------------|------|-------------------|------|-------------------|
| State | N | % | (95% Cl [§]) | % | (95% CI) | % | (95% CI) | % | (95% CI) | % | (95% CI) |
| Alaska | 2,365 | 9.4 | (7.7–11.3) | 25.4 | (22.7–28.4) | 2.3 | (1.2–4.5) | 37.8 | (34.7–40.9) | 20.3 | (17.7–23.2) |
| Arkansas | 5,299 | 12.7 | (11.6–13.9) | 27.4 | (25.8-29.1) | 1.4 | (1.0-1.9) | 33.8 | (32.0-35.6) | 21.6 | (20.2-23.2) |
| California | 5,052 | 8.0 | (7.0–9.0) | 21.6 | (20.0-23.2) | 2.1 | (1.6–2.6) | 42.0 | (40.1-43.9) | 25.1 | (23.4–26.9) |
| Colorado | 5,422 | 8.6 | (7.7–9.6) | 28.3 | (26.7–29.9) | 1.3 | (1.0–1.6) | 36.3 | (34.6-38.0) | 21.8 | (20.2-23.4) |
| Connecticut | 6,623 | 10.9 | (9.8-12.0) | 28.7 | (27.1-30.3) | 4.0 | (3.3-4.7) | 32.8 | (31.2-34.5) | 18.8 | (17.5-20.1) |
| District of Columbia | 3,419 | 14.3 | (12.8–15.9) | 28.2 | (26.3-30.2) | 3.0 | (2.3-3.7) | 30.6 | (28.5-32.7) | 19.5 | (17.7–21.4) |
| Georgia | 6,838 | 11.8 | (10.7–13.0) | 25.3 | (23.7-26.9) | 4.8 | (4.1–5.7) | 34.1 | (32.3-35.9) | 21.6 | (20.1-23.1) |
| Hawaii | 6,270 | 10.5 | (9.4–11.7) | 20.9 | (19.5-22.4) | 2.4 | (1.9-3.0) | 33.5 | (31.8-35.2) | 29.7 | (28.0-31.4) |
| Illinois | 5,030 | 10.1 | (9.0-11.3) | 26.8 | (25.2-28.5) | 1.1 | (0.8-1.6) | 38.4 | (36.5-40.2) | 22.3 | (20.7–23.9) |
| Indiana | 5,467 | 10.1 | (9.1–11.2) | 25.3 | (23.7-26.9) | 2.0 | (1.5-2.6) | 37.7 | (35.8–39.6) | 22.2 | (20.6-23.9) |
| lowa | 4,921 | 10.5 | (9.5-11.6) | 25.2 | (23.7-26.8) | 1.5 | (1.1–2.0) | 40.0 | (38.2-41.9) | 20.3 | (18.9–21.9) |
| Kansas | 4,081 | 10.4 | (9.3-11.6) | 28.6 | (26.9-30.4) | 4.5 | (3.7–5.3) | 36.7 | (34.7-38.6) | 17.2 | (15.7–18.8) |
| Kentucky | 6,185 | 16.1 | (14.6–17.7) | 18.5 | (17.0-20.2) | 11.1 | (9.8-12.7) | 27.0 | (25.2-28.8) | 23.3 | (21.6-25.1) |
| Louisiana | 6,099 | 13.8 | (12.6-15.1) | 18.9 | (17.5-20.4) | 3.7 | (3.1-4.4) | 25.7 | (24.2-27.4) | 32.7 | (31.1-34.4) |
| Maine | 3,851 | 9.2 | (8.1-10.4) | 27.5 | (25.7-29.5) | 2.1 | (1.6-2.7) | 37.9 | (35.9-40.0) | 21.1 | (19.4–22.8) |
| Massachusetts | 4,162 | 11.6 | (10.1-13.3) | 27.1 | (25.0-29.3) | 3.4 | (2.6-4.4) | 34.7 | (32.3-37.1) | 20.6 | (18.7-22.8) |
| Michigan | 4,235 | 10.0 | (8.9-11.2) | 26.0 | (24.2-27.8) | 1.5 | (0.9-2.4) | 37.3 | (35.3-39.3) | 22.9 | (21.3-24.6) |
| Minnesota | 4,729 | 8.1 | (7.1–9.1) | 25.3 | (23.6-27.0) | 5.0 | (4.2-6.0) | 41.9 | (39.9-43.9) | 18.3 | (16.7–20.0) |
| Mississippi | 7,381 | 17.7 | (16.4–19.1) | 22.8 | (21.5-24.2) | 2.6 | (2.1-3.1) | 25.7 | (24.2-27.2) | 28.0 | (26.4–29.6) |
| Missouri | 4,850 | 13.2 | (11.7-14.7) | 29.2 | (27.2-31.4) | 1.5 | (1.1 - 2.1) | 36.3 | (34.1-38.5) | 17.8 | (16.2-19.5) |
| Montana | 5,415 | 9.5 | (8.5-10.5) | 25.5 | (23.9-27.2) | 4.7 | (4.0-5.5) | 37.8 | (35.9-39.7) | 17.9 | (16.5-19.5) |
| Nebraska | 4,890 | 8.4 | (7.0-10.1) | 25.7 | (23.2-28.4) | 2.0 | (1.3-3.0) | 40.7 | (37.8-43.7) | 19.9 | (17.7-22.3) |
| Nevada | 3,868 | 11.4 | (10.1-12.9) | 28.7 | (26.4-31.0) | 2.3 | (1.7-3.0) | 28.8 | (26.6-31.1) | 25.5 | (23.2-27.9) |
| New Hampshire | 5,453 | 10.3 | (9.3-11.4) | 27.5 | (26.0-29.1) | 3.7 | (3.1-4.4) | 38.6 | (36.9-40.4) | 17.7 | (16.5-19.1) |
| New Mexico | 5,961 | 10.5 | (9.5-11.7) | 26.1 | (24.5-27.7) | 2.3 | (1.8-3.0) | 31.7 | (29.9-33.5) | 25.7 | (24.0-27.4) |
| Ohio | 5,014 | 10.9 | (9.7-12.1) | 28.2 | (26.5-30.0) | 3.3 | (2.6-4.1) | 37.5 | (35.6-39.4) | 17.9 | (16.5-19.5) |
| Oklahoma | 6,885 | 11.5 | (10.5-12.5) | 23.6 | (22.3-24.9) | 1.1 | (0.8-1.6) | 32.7 | (31.2-34.3) | 27.5 | (26.1–29.0) |
| Oregon | 1,898 | 15.5 | (13.5–17.7) | 32.0 | (29.2-34.8) | 2.1 | (1.3-3.2) | 32.2 | (29.5-35.0) | 15.3 | (13.3–17.6) |
| Puerto Rico | 3,832 | 6.5 | (5.5-7.6) | 35.4 | (33.4-37.4) | 17.3 | (15.7–18.9) | 31.1 | (29.2-33.1) | 7.2 | (6.2-8.3) |
| Rhode Island | 3,923 | 9.4 | (8.3-10.7) | 23.4 | (21.5-25.3) | 4.5 | (3.7-5.5) | 39.1 | (36.9-41.3) | 21.8 | (20.0-23.8) |
| South Carolina | 9,889 | 10.9 | (10.0-11.9) | 24.3 | (23.1-25.7) | 1.2 | (0.9–1.6) | 35.0 | (33.6-36.5) | 24.2 | (23.0-25.5) |
| Texas | 7,386 | 10.6 | (9.5-11.7) | 19.8 | (18.4-21.2) | 5.2 | (4.5-6.1) | 32.1 | (30.4-33.9) | 26.3 | (24.6-28.0) |
| Vermont | 6,589 | 8.0 | (7.2-8.8) | 26.8 | (25.4–28.3) | 2.1 | (1.7–2.6) | 40.0 | (38.4-41.6) | 20.2 | (18.9–21.5) |
| Virginia | 5,305 | 11.0 | (9.8–12.4) | 28.3 | (26.0-30.6) | 4.2 | (3.4–5.1) | 36.1 | (33.8–38.4) | 18.3 | (16.4–20.3) |
| Washington | 13,366 | 17.6 | (16.7–18.6) | 26.8 | (25.7–27.9) | 3.1 | (2.7–3.6) | 28.1 | (27.0–29.3) | 19.5 | (18.5–20.6) |
| Wisconsin | 4,332 | 9.6 | (8.3–11.0) | 29.1 | (27.1–31.2) | 0.5 | (0.3–0.9) | 40.1 | (37.9–42.4) | 19.8 | (18.1–21.6) |
| Wyoming | 5,780 | 10.7 | (9.7–11.8) | 30.4 | (28.7–32.0) | 1.6 | (1.2–2.0) | 37.4 | (35.7–39.2) | 17.6 | (16.3–19.0) |
| Total | 202,065 | 10.6 | (10.3–10.9) | 24.7 | (24.3–25.2) | 3.2 | (3.0–3.4) | 35.0 | (34.5.35.5) | 22.3 | (21.9–22.8) |

TABLE 3. Level of agreement* with the statement that people are caring and sympathetic to persons with mental illness,[†] by state and territory — Behavioral Risk Factor Surveillance System, 2007

* Adjusted for sex, age group, racial/ethnic group, education and household income level. Estimates are weighted; sample size is unweighted.

[†] Attitudes were assessed by asking respondents to indicate their level of agreement with the statement, "People are generally caring and sympathetic to people with mental illness." § Confidence intervals.

> in various media, and differences in awareness of and access to mental health treatment. Geographic variability in attitudes toward mental illness and its causes should be a topic of further study.

> Attitudes toward persons with mental illness appear to be improving in the United States. One study determined that in 2006, compared with previous decades since the 1950s, more U.S. adults believed that mental health problems could improve with treatment (8). The large proportion of adults with positive attitudes toward mental illness treatment in the United States (and in the 37 jurisdictions studied for this report) might result from antistigma campaigns, and greater attention, awareness, and understanding of mental health (9).

One result from the analysis presented in this report was the varying attitudes by education level. For example, adults with greater education were more likely to agree strongly that mental health treatment can help persons with mental illness lead normal lives but were less likely to agree strongly that people can be caring and sympathetic to persons with mental illness. In one study, among some professionals, more knowledge and contact with persons with mental illness was associated with more stigmatizing attitudes (10). Another possibility is that these adults might have experienced less supportive behaviors associated with mental illness (i.e., feel stigmatized) and thus were more likely to report negative attitudes compared with other groups.

The findings in this report are subject to at least four limitations. First, BRFSS surveys include only noninstitutionalized adults with telephones. Persons in institutions and in households without telephones are excluded, and this population might include a higher proportion of persons with mental health symptoms. Second, because states commonly use only English- or Spanish-language surveys, persons who speak other primary languages are excluded, which could affect race- and ethnicity-specific results. Third, because these data are not nationally representative, no conclusions can be drawn about the entire U.S. population. Finally, the question on caring and sympathy requires further validation in terms of understanding its association with other mental health attitudinal measures (4).

Persons with mental illness generally are able to live successful, full lives, particularly if they receive proper treatment and support. To reduce the effects of stigma, public health and mental health agencies can implement local activities to reduce negative attitudes about mental illness (3). Because the media can frame public opinion, they can be important partners in this and in promoting accounts of mental illness recovery (2). Public educational resources, such as those available on SAMHSA's "What a difference a friend makes" Internet site,** also can reduce negative attitudes toward mental illness by providing information about mental illness and its treatment, and help persons learn how to reassure, be friends with, and accept persons who seek or receive treatment for mental illness.

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^{**} Available at http://www.whatadifference.samhsa.gov.

FDA Licensure of Bivalent Human Papillomavirus Vaccine (HPV2, Cervarix) for Use in Females and Updated HPV Vaccination Recommendations from the Advisory Committee on Immunization Practices (ACIP)

On October 16, 2009, the Food and Drug Administration (FDA) licensed bivalent human papillomavirus vaccine (HPV2; Cervarix, GlaxoSmithKline) for use in females aged 10 through 25 years. Cervarix is the second human papillomavirus (HPV) vaccine licensed for use in females in the United States. Quadrivalent HPV vaccine (HPV4; Gardasil, Merck & Co, Inc.) was licensed in 2006 for use in females aged 9 through 26 years, and the Advisory Committee on Immunization Practices (ACIP) recommended routine HPV4 vaccination of females aged 11 or 12 years, and catch-up vaccination for females aged 13 through 26 years (1). This report provides updated recommendations for routine and catch-up vaccination of females with either HPV2 or HPV4.

Both HPV2 and HPV4 are composed of virus-like particles (VLPs) prepared from recombinant L1 capsid protein of HPV; the two vaccines are not live vaccines (Table 1). HPV2 is directed against two oncogenic types (HPV 16 and 18). HPV4 is directed against two oncogenic types (HPV 16 and 18) and two nonncogenic types (HPV 6 and 11). Both vaccines have high efficacy against HPV 16 and 18-related cervical precancer lesions. HPV4 also has high efficacy against HPV 6 and HPV 11-related genital warts and HPV 16 and 18-related vaginal and vulvar precancer lesions (Table 2) (2-5).

HPV 16 and 18 cause about 70% of cervical cancers; each of the other oncogenic HPV types accounts for a small percentage of all cervical cancers. Other HPV-associated cancers in females include a subset of vulvar, vaginal, anal, and oropharyngeal and oral cavity cancers, caused primarily by HPV 16. HPV 6 and 11 cause approximately 90% of genital warts and most cases of recurrent respiratory papillomatosis.

In anticipation of FDA licensure of HPV2, ACIP reviewed data on the immunogenicity, efficacy, and safety of HPV2, as well as information on HPV4. At its October 21, 2009, meeting, ACIP approved updated recommendations for use of HPV vaccines in females.

 $TABLE \ 1. \ Selected \ characteristics \ of \ quadrivalent \ human \ papillomavirus \ vaccine \ (HPV4) \ and \ bivalent \ human \ papillomavirus \ vaccine \ (HPV2)^*$

| Characteristic | HPV4 | HPV2 |
|-------------------------------------|--|---|
| Manufacturer | Merck & Co, Inc. | GlaxoSmithKline |
| Vaccine composition (L1 protein) | 20 μg HPV 6 40 μg HPV 11 40 μg HPV 16 20 μg HPV 18 | 20 μg HPV 16 20 μg HPV 18 |
| Manufacturing | Saccharomyces cerevisiae (bread yeast), expressing L1 | <i>Trichoplusia ni</i> insect cell line infected with L1 encoding recombinant baculovirus |
| Adjuvant | AAHS: 225 μg amorphous aluminum hydroxyphosphate sulfate | AS04: 500 μg aluminum hydroxide 50 μg 3-O-desacyl-4' monophosphoryl lipid A |
| Preservatives | None | None |
| Other content | Sodium chloride, L-histidine, polysorbate 80, sodium borate, and water for injection | Sodium chloride and sodium dihydrogen phosphate dehydrate, and water for injection |
| Temperature storage | Store refrigerated at 36°–46°F (2°–8°C). Do not freeze. | Store refrigerated at 36°–46°F (2°–8°C). Do not freeze. |
| Volume per dose | 0.5 mL | 0.5 mL |
| Administration | Intramuscular | Intramuscular |
| Schedule/Intervals | 3 doses Second and third doses 1 to 2 months and 6 months after first dose | 3 doses Second and third doses 1 to 2 months and 6 months after first dose |

* Both vaccines are composed of virus-like particles (VLPs) prepared from recombinant L1 capsid protein of human papillomavirus (HPV); the vaccines are not live vaccines.

| | Vac | cine | Con | trol | Vac | cine efficacy |
|--|-------|-------|-------|-------|-------|---------------|
| Vaccine/Endpoint/HPV type | No. | Cases | No. | Cases | % | (CI*) |
| Bivalent vaccine (HPV2) [†] | | | | | | (96.1% CI) |
| CIN2/3 or AIS [§] | | | | | | |
| HPV 16 and/or 18 | 7,344 | 4 | 7,312 | 56 | 92.9 | (79.9–98.3) |
| HPV 16 | 6,303 | 2 | 6,165 | 46 | 95.7 | (82.9–99.6) |
| HPV 18 | 6,794 | 2 | 6,746 | 15 | 86.7 | (39.7–98.7) |
| Quadrivalent vaccine (HPV4) [¶] | | | | | | (95% CI) |
| CIN2/3 or AIS** | | | | | | |
| HPV 6, 11, 16, and/or 18 | 7,864 | 2 | 7,865 | 110 | 98.2 | (93.3–99.8) |
| HPV 16 | 6,647 | 2 | 6,455 | 81 | 97.6 | (91.1–99.7) |
| HPV 18 | 7,382 | 0 | 7,316 | 29 | 100.0 | (86.6–100.0) |
| VIN2/3 or VaIN2/3 ** | | | | | | |
| HPV 6, 11, 16, and/or 18 | 7,900 | 0 | 7,902 | 23 | 100.0 | (82.6–100.0) |
| HPV 16 | 6,654 | 0 | 6,467 | 17 | 100.0 | (76.5–100.0) |
| HPV 18 | 7,414 | 0 | 7,343 | 2 | 100.0 | (<0-100.0) |
| Genital warts ^{††} | | | | | | |
| HPV 6 and/or 11 | 6,932 | 2 | 6,856 | 189 | 99.0 | (96.2–99.9) |

TABLE 2. Efficacy of bivalent human papillomavirus vaccine (HPV2) and quadrivalent human papillomavirus vaccine (HPV4) in females

Abbreviations: CIN2/3 = cervical intraepithelial neoplasia grade 2 or 3, AIS = adenocarcinoma in situ, VIN2/3 = vulvar intraepithelial neoplasia grade 2 or 3, VaIN2/3 = vaginal intraepithelial neoplasia grade 2 or 3, HPV = human papillomavirus.

* Confidence interval.

¹ Phase III trial. According to protocol efficacy analysis included females aged 15 through 25 years who received all 3 vaccine doses, were seronegative at day 1 and HPV DNA negative at day 1 through month 6 for the respective HPV type, and had normal or low grade cytology at day 1, with case counting beginning 1 day after third vaccine dose; mean duration of follow-up post first vaccine dose: 34.9 months.

Source: Paavonen J, Naud P, Salmeron J, et al. Efficacy of human papillomavirus (HPV)-16/18 AS04-adjuvanted vaccine against cervical infection and precancer caused by oncogenic HPV types (PATRICIA): final analysis of a double-blind, randomised study in young women. Lancet 2009;374:301–14.
 Combined analysis of one phase II and two phase III trials. Per protocol efficacy analysis included females aged 16 through 26 years who received all 3 vaccine doses, were seronegative at day 1 and HPV DNA negative at day 1 through month 7 for the respective HPV type,

with case counting beginning 1 month after third vaccine dose; mean duration of follow-up post first vaccine dose: 42 months. ** Source: Kjaer SK, Sigurdsson K, Iversen OE, et al. A pooled analysis of continued prophylactic efficacy of quadrivalent human papillomavirus

(Types 6/11/16/18) vaccine against high-grade cervical and external genital lesions. Cancer Prev Res 2009;2:868–78.
 ^{††} Source: Food and Drug Administration. Product approval-prescribing information [package insert]. Gardasil [human papillomavirus quadrivalent (types 6, 11, 16, and 18) vaccine, recombinant], Merck & Co, Inc: Food and Drug Administration 2009. Available at http://www.fda.gov/biologicsbloodvaccines/vaccines/approvedproducts/ucm094042.htm. Accessed May 25, 2010.

HPV2 Clinical Trial Data

HPV2 efficacy was evaluated in two randomized, double-blind, controlled clinical trials in females aged 15 through 25 years, including a phase IIb study (6, 7)and a phase III study (4). The phase III trial included 18,644 females, followed for a mean of 34.9 months. Efficacy against HPV 16 or 18-related cervical intraepithelial neoplasia grade 2 or 3 or adenocarcinoma in situ (CIN2+) was 92.9% in the according to protocol analysis (Table 2) (4). Among women who were HPV 16 or 18 DNA positive at study enrollment, the vaccine had no efficacy against CIN2+ due to that type. A subset of participants in the phase IIb study has been followed for up to 6.4 years (mean: 5.9 years) after dose one with high efficacy against HPV 16 or 18-related CIN2+ demonstrated throughout the follow-up period (7).

Protection against cervical lesions due to nonvaccine HPV types was evaluated. In an analysis limited to lesions without HPV 16 or 18 coinfection, efficacy against CIN2+ due to any of 12 nonvaccine oncogenic types (HPV 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, and 68) was 37.4% (96.1% confidence interval [CI] = 7.4–58.2). In a post hoc analysis, efficacy against HPV 31-related CIN2+ in the according to protocol population was 89.4% (99.7% CI = 29.0–99.7) (5).

In all studies, \geq 99% of participants developed an HPV 16 and 18 antibody response 1 month after completing the 3-dose series. Bridging immunogenicity studies were conducted among 1,193 females aged 10 through 14 years; geometric mean titers (GMTs) 1 month after the third dose were noninferior to those in females aged 15 through 25 years (5). The antibody responses for all vaccine antigens were noninferior after concomitant administration of HPV2 with tetanus toxoid, diphtheria toxoid, and acellular pertussis vaccine and/or with meningococcal conjugate vaccine in females aged 11 through 18 years compared with those after administration at separate visits. Rates of solicited and unsolicited symptoms and events were similar in all study groups (8).

HPV2 vaccinees were evaluated for injection-site and systemic symptoms, medically significant conditions, new onset autoimmune disorders, new onset chronic diseases, deaths, serious adverse events, and pregnancy outcomes. Safety was evaluated by pooling data from 11 clinical trials of bivalent vaccine in females aged 10 through 25 years (9), and by a meta-analysis of safety databases of bivalent vaccine as well as other vaccines with the same adjuvant (10). The pooled safety analysis included 23,713 females aged 10 through 25 years; approximately 12,000 females received at least 1 dose of HPV2. In an analysis of local and general adverse events, a larger proportion of persons reported at least one injection-site symptom in the HPV2 group compared with controls (5). In the HPV2 group, 92% reported injection-site pain, 48% redness, and 44% swelling compared with 64%-87%, 24%-28%, and 17%-21% in the control groups. Fatigue, headache, and myalgia were the most common general symptoms. No differences were observed in unsolicited symptoms within 30 days of vaccination between the vaccine group and control groups.

Serious adverse events and deaths were evaluated in a pooled safety analysis that included 29,953 females aged 10 through 72 years (16,142 received HPV2). Proportions of persons reporting a serious adverse event were similar in vaccine and control groups (5.3% and 5.9%, respectively), as were the types of serious adverse events reported (5). In the pooled safety analysis, including 12,533 women who received HPV2 and over 10,730 in the control groups, incidence of potential new autoimmune disorders did not differ (0.8% in both groups).

Clinical protocols excluded women who were pregnant, and participants were instructed to avoid pregnancy until 2 months after the last vaccination. However, 3,696 pregnancies occurred in the vaccine group and 3,580 in the pooled control groups. Overall, no differences were observed in rates of any specific pregnancy outcomes between groups (5). Among 761 pregnancies around the time of vaccination (defined as last menstrual period 30 days before to 45 days after vaccination), 13.6% of pregnancies ended in spontaneous abortion in the vaccine group compared with 9.6% in the control group. HPV2 has been classified as Category B on the basis of animal studies that revealed no evidence of impaired fertility or harm to the fetus. No data are available on use of HPV2 in lactating women.

Vaccine Recommendations for HPV2 and HPV4

ACIP recommends routine vaccination of females aged 11 or 12 years with 3 doses of either HPV2 or

HPV4. The vaccination series can be started beginning at age 9 years.

Vaccination is recommended for females aged 13 through 26 years who have not been vaccinated previously or who have not completed the 3-dose series. If a female reaches age 26 years before the vaccination series is complete, remaining doses can be administered after age 26 years. Ideally, vaccine should be administered before potential exposure to HPV through sexual contact.

ACIP recommends vaccination with HPV2 or HPV4 for prevention of cervical cancers and precancers. Both vaccines might provide protection against some other HPV-related cancers in addition to cervical cancer, although there are currently only data sufficient to recommend HPV4 for protection against vulvar and vaginal cancers and precancers. HPV4 is recommended also for prevention of genital warts.

Dosage, Administration, and Schedules

The dosing and administration schedules are the same for HPV4 and HPV2. Each dose is 0.5 mL, administered intramuscularly, preferably in a deltoid muscle. The vaccines are administered in a 3-dose schedule. The second dose is administered 1 to 2 months after the first dose, and the third dose is administered 6 months after the first dose.

The minimum interval between the first and second dose of vaccine is 4 weeks and between the second and third dose is 12 weeks. The minimum interval between the first and third dose is 24 weeks. Doses received after a shorter-than-recommended dosing interval should be readministered. If the HPV vaccine schedule is interrupted, the vaccine series does not need to be restarted. Coadministration of a different inactivated or live vaccine, either simultaneously or at any time before or after HPV vaccine, is permitted because neither HPV vaccine is a live vaccine.

Whenever feasible, the same HPV vaccine should be used for the entire vaccination series. No studies address interchangeability of HPV vaccines. However, if the vaccine provider does not know or have available the HPV vaccine product previously administered, either HPV vaccine can be used to complete the series to provide protection against HPV 16 and 18. For protection against HPV 6 or 11-related genital warts, a vaccination series with less than 3 doses of HPV4 might provide less protection against genital warts than a complete 3-dose HPV4 series.

Special Situations

Females who have abnormalities on their cervical cancer screening results are likely to be infected with one or more genital HPV types. With increasing severity of Papanicolau (Pap) findings, the likelihood of infection with HPV 16 or 18 increases, and benefits of vaccination decrease. Vaccination is still recommended for such females, because vaccination can provide protection against infection with HPV vaccine types not already acquired. Females should be advised that vaccination will have no therapeutic effect on an existing HPV infection or abnormal Pap test.

Prevaccination assessments (e.g., Pap testing or screening for high-risk HPV DNA, type-specific HPV tests, or HPV antibody) to establish the appropriateness of HPV vaccination are not recommended at any age.

A history of genital warts or clinically evident genital warts indicates infection with HPV, most often HPV 6 or 11. Vaccination is still recommended for such females because vaccination can provide protection against infection with HPV vaccine types not already acquired. Females should be advised that vaccination will have no therapeutic effect on an existing HPV infection or genital warts.

Lactating women can receive HPV vaccine.

HPV2 and HPV4 are not live vaccines, and can be administered to females who are immunosuppressed (from disease or medications). However, the immune response and vaccine efficacy might be less than that in immunocompetent persons.

Precautions and Contraindications

HPV vaccines are not recommended for use in pregnant women. If a woman is found to be pregnant after initiating the vaccination series, the remainder of the 3-dose series should be delayed until completion of pregnancy. Pregnancy testing is not needed before vaccination. If a vaccine dose has been administered during pregnancy, no intervention is needed.

Patients and health-care providers should report any exposure to HPV4 during pregnancy to Merck at telephone, 800-986-8999, and any exposure to HPV2 during pregnancy to GlaxoSmithKline at telephone, 888-452-9622.

HPV vaccines can be administered to persons with minor acute illnesses. Vaccination of persons with moderate or severe acute illnesses should be deferred until after the patient improves.

Syncope can occur after vaccination and has been observed among adolescents and young adults. To avoid serious injury related to a syncopal episode, vaccine providers should consider observing patients for 15 minutes after they are vaccinated.

HPV vaccines are contraindicated for persons with a history of immediate hypersensitivity to any vaccine component. HPV4 is produced in *Saccharomyces cerevisiae* (baker's yeast) and is contraindicated for persons with a history of immediate hypersensitivity to yeast. Prefilled syringes of HPV2 have latex in the rubber stopper and should not be used in persons with anaphylactic latex allergy. HPV2 single dose vials contain no latex.

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FDA Licensure of Quadrivalent Human Papillomavirus Vaccine (HPV4, Gardasil) for Use in Males and Guidance from the Advisory Committee on Immunization Practices (ACIP)

On October 16, 2009, the Food and Drug Administration licensed quadrivalent human papillomavirus vaccine (HPV4; Gardasil, Merck & Co. Inc.) for use in males aged 9 through 26 years for prevention of genital warts caused by human papillomavirus (HPV) types 6 and 11. HPV4 had been licensed previously for use in females aged 9 through 26 years for prevention of HPV 6, 11, 16, and 18-related outcomes (i.e., vaginal, vulvar, and cervical precancers and cancers and genital warts). The Advisory Committee on Immunization Practices (ACIP) recommends routine vaccination of females at age 11 or 12 years and catch-up vaccination for females aged 13 through 26 years (1). On October 21, 2009, ACIP provided guidance that HPV4 may be given to males aged 9 through 26 years to reduce their likelihood of acquiring genital warts; ACIP does not recommend HPV4 for routine use among males. This report presents the ACIP policy statement and summarizes background data. Issues reviewed by ACIP included efficacy, immunogenicity, and safety of the HPV4 vaccine in males, epidemiology of HPV and burden of HPV-associated diseases and cancers in males, cost-effectiveness of male vaccination, and programmatic considerations.

HPV types 6 and 11 cause approximately 90% of genital warts and most cases of recurrent respiratory papillomatosis. Approximately 500,000 cases of genital warts are estimated to occur each year in the United States among sexually active men and women (2,3). Direct medical costs related to genital warts are estimated at \$200 million per year (2,3); in addition, genital warts can have an adverse impact on quality of life (4). HPV-associated cancers in males include certain anal, penile, and oropharyngeal and oral cavity cancers caused primarily by HPV 16.

HPV4 has high efficacy for prevention of genital warts. The phase III efficacy study enrolled 4,065 males aged 16 through 26 years. Participants were enrolled from North America, South America, Europe, Australia, and Asia. The efficacy for prevention of genital warts related to HPV types 6, 11, 16, or 18 among males who received all 3 vaccine doses and were seronegative at day 1, and DNA negative day 1 through month 7 to the respective HPV type (per protocol population) was 89.4%; the efficacy for HPV 6 or 11-related genital warts alone was approximately the same (Table) (5). The efficacy for prevention of HPV 6, 11, 16, or 18-related genital warts among males who received at least 1 vaccine dose and regardless of baseline DNA or serology (intent to treat population), was 67.2%, and the efficacy for prevention of genital warts related to any HPV type was 62.1% (Table) (5). No evidence of efficacy was observed among males who were infected with the respective HPV type at baseline. The median duration of follow-up at the time of the study's interim analysis was approximately 2.3 years.

Data on immunogenicity in males are available from the phase III trial conducted among males aged 16 through 26 years, and from bridging immunogenicity studies conducted among males aged 9 through 15 years (5). Seroconversion rates were high for all four HPV types (HPV 6, 11, 16, or 18) targeted by HPV4, and postvaccination antibody titers were significantly higher in males aged 9 through 15 years compared with males aged 16 through 26 years (5).

As observed previously with females, in the clinical trials for males, the most common adverse events were injection-site reactions, most of which were mild or moderate in intensity (5). Headache and fever were the most commonly reported systemic adverse reactions in both treatment groups (5). Postlicensure data in females indicate that HPV4 adverse events are similar to adverse events reported following administration of other vaccines to adolescents (6).

Mathematical modeling suggests that adding male HPV vaccination to a female-only HPV vaccination program is not the most cost-effective vaccination strategy for reducing the overall burden of HPVassociated conditions in males and females when vaccination coverage of females is high (>80%) (7). When coverage of females is less than 80%, male vaccination might be cost-effective, although results vary substantially across models (7). Because the health burden is greater in females than males, and numerous models have shown vaccination of adolescent girls to be a cost-effective use of public health resources,

| | Vac | Con | trol | Vaccine efficacy | | |
|---------------------------------------|-------|-------|-------|------------------|------|-------------|
| Endpoint | No. | Cases | No. | Cases | % | (95% CI*) |
| Per protocol efficacy ^{†,§} | | | | | | |
| HPV 6, 11, 16, and/or 18-related | 1,397 | 3 | 1,408 | 28 | 89.4 | (65.5–97.9) |
| Intent to treat efficacy [¶] | | | | | | |
| HPV 6, 11, 16, and/or 18-related | 1,943 | 24 | 1,937 | 72 | 67.2 | (47.3-80.3) |
| Any type-related | 1,943 | 32 | 1,937 | 83 | 62.1 | (42.4–75.6) |

TABLE. Efficacy of quadrivalent human papillomavirus vaccine (HPV4) for prevention of genital warts in males aged 16 through 26 years

Source: Food and Drug Administration. Product approval-prescribing information [package insert]. Gardasil [human papillomavirus quadrivalent (types 6, 11, 16, and 18) vaccine, recombinant], Merck & Co, Inc: Food and Drug Administration 2009. Available at http://www.fda.gov/biologicsbloodvaccines/vaccines/approvedproducts/ucm094042.htm. Accessed May 25, 2010.

* Confidence interval.

⁺ Population included males who received all 3 vaccine doses, were seronegative at day 1, and DNA negative at day 1 through month 7 to the respective human papillomavirus (HPV) type, with case counting beginning after month 7.

[§] Efficacy for genital warts (HPV 6 and/or 11-related) was 89% (95% CI = 66–98). Source: Food and Drug Administration. Vaccine and Related Biological Products Advisory Committee meeting presentations. September 9, 2009. Available at http://www.fda.gov/advisorycommittees/ committeesmeetingmaterials/bloodvaccinesandotherbiologics/vaccinesandrelatedbiologicalproductsadvisorycommittee/ucm183835.htm.

[¶] Population included all males who received at least 1 vaccine dose, regardless of baseline DNA or serology, with case counting beginning after day 1.

improving coverage in females aged 11 and 12 years could potentially be a more effective and cost-effective strategy than adding male vaccination.

Men who have sex with men (MSM) are particularly at risk for conditions associated with HPV types 6, 11, 16, and 18; diseases and cancers that have a higher incidence among MSM include anal intraepithelial neoplasias, anal cancers, and genital warts (8, 9). HPV4 has high efficacy for prevention of anal intraepithelial neoplasias in MSM (10); however, this information was not available before the October 2009 ACIP meeting and has not yet been reviewed by FDA.

Vaccine Guidance

The 3-dose series of HPV4 may be given to males aged 9 through 26 years to reduce their likelihood of acquiring genital warts. HPV4 would be most effective when given before exposure to HPV through sexual contact.

Administration, Special Situations, Precautions, and Contraindications

HPV4 is administered in a 3-dose schedule. The second dose is administered 1 to 2 months after the first dose, and the third dose is administered 6 months after the first dose. The minimum interval between the first and second dose of vaccine is 4 weeks, and the minimum interval between the second and third dose is 12 weeks. The minimum interval between the first and third dose is 24 weeks. Doses received after

a dosing interval that is shorter than recommended should be readministered.

If the HPV vaccine schedule is interrupted, the vaccine series does not need to be restarted. Coadministration of a different inactivated or live vaccine, either simultaneously or at any time before or after HPV4 is permitted because HPV4 is not a live vaccine.

HPV4 can be administered to persons who are immunosuppressed (from disease or medications). However, the immune response and vaccine efficacy might be less than that in immunocompetent persons.

HPV4 can be administered to persons with minor acute illnesses. Vaccination of persons with moderate or severe acute illnesses should be deferred until after the patient improves.

Syncope can occur after vaccination and has been observed among adolescents and young adults. To avoid serious injury related to a syncopal episode, vaccine providers should consider observing patients for 15 minutes after they are vaccinated.

HPV4 is contraindicated for persons with a history of immediate hypersensitivity to any vaccine component. HPV4 is a recombinant vaccine produced in *Saccharomyces cerevisiae* (baker's yeast) and is contraindicated for persons with a history of immediate hypersensitivity to yeast.

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Announcement

State-Specific Health-Care-Associated Infections Summary Data Report

CDC's Division of Healthcare Quality Promotion has published the first state-specific health-careassociated infections (HAIs) summary data report. This report includes data reported by health-care facilities to CDC's National Healthcare Safety Network (NHSN), a public health surveillance system that serves as a mainstay of HAI monitoring and prevention programs.

This initial report presents state-specific data for central line-associated bloodstream infections (CLABSIs) in states requiring facilities to report CLABSIs through NHSN, and overall national data. The standardized infection ratio is used to compare data reported to NHSN from January-June 2009 with the national NHSN data from 2006–2008. This report provides baseline measurements that can guide state prevention activities. In addition, this report represents a first step in monitoring national progress toward the CLABSI prevention goals in the U.S. Department of Health and Human Services *Action Plan to Prevent Healthcare-Associated Infections*. The full CDC report is available at http://www.cdc.gov/hai/statesummary.html.

Notice to Readers

NNDSS Tables Have Updated "N" Indicators for the Year 2009

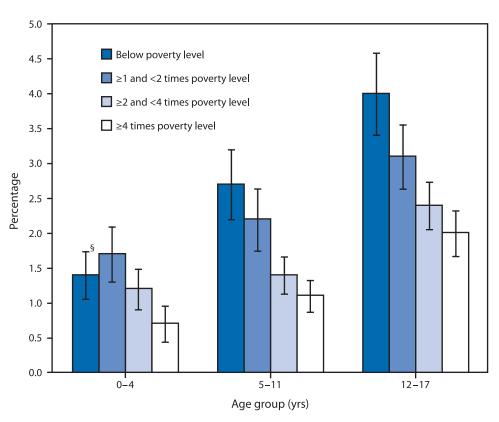
The 2009 Council of State and Territorial Epidemiologists (CSTE) State Reportable Conditions Assessment (2009 SRCA) has collected data from 55 reporting jurisdictions (50 U.S. states, the District of Columbia, New York City, and three U.S. territories) to determine which of the nationally notifiable conditions (NNC) were reportable in each reporting jurisdiction during 2009. The 2009 SRCA gathered information regarding whether the condition is explicitly reportable (i.e., listed as a specific disease or as a category of diseases on reportable disease lists), whether a condition is implicitly reportable (i.e., included in a general category of the reportable disease list, such as "rare diseases of public health importance"), or not reportable within each jurisdiction. Only conditions that were explicitly reportable were considered reportable under 2009 SRCA methodology.

Results of the 2009 SRCA will be used to indicate whether each NNC is or is not reportable for the specified period and reporting jurisdiction. NNC that are not reportable are noted with an "N" indicator (for "not reportable") in the *MMWR* Table II weekly update (Provisional cases of selected notifiable diseases, United States) and in the *MMWR* Summary of Notifiable Diseases — United States, 2009. This notation will allow readers to distinguish whether 1) no cases were reported even though the condition is reportable or 2) no cases were reported because the condition is not reportable.

The 2009 SRCA data collection and validation concluded in May 2010; results will be used to populate the "N" indicators for NNDSS data in both 2009 and 2010 *MMWR* data tables. The 2009 NNDSS data displayed in the *MMWR* weekly provisional tables will reflect reporting requirements gathered from the 2009 SRCA until 2010 SRCA official results are available.

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Percentage of Children Aged <18 Years with an Impairment or Health Problem That Limits Crawling, Walking, Running, or Playing, by Age Group and Poverty Status* — National Health Interview Survey (NHIS), United States, 2001–2007[†]



- * For each survey year, poverty status is based on the ratio of the family's income to federal poverty levels, as calculated by the U.S. Census Bureau. In addition to family income, federal poverty levels take into account family size and the number of children in the family. A larger ratio of income relative to poverty level indicates increasing family income and thus decreasing poverty status. Because of high levels of missing income data in NHIS, poverty status was determined from the 2001–2007 NHIS multiple imputed income and earnings data files.
- [†] Estimates are based on household interviews of a sample of the civilian, noninstitutionalized U.S. population. One child aged <18 years was randomly selected per family; a knowledgeable adult provided information for each child. Prevalence of impairments or health problems resulting in activity limitations is based on a question that asked, "Does [the sample child] have an impairment or health problem that limits [his/her] ability to crawl, walk, run, or play?" Unknowns with respect to impairments are excluded from the denominators. § 95% confidence interval.

During 2001–2007, children aged 12–17 years were more likely than younger children to have an impairment or health problem that limited crawling, walking, running, or playing. The prevalence of such impairments or problems generally declined as poverty status decreased.

Source: National Health Interview Survey, 2001–2007, sample child core component. Available at http://www.cdc.gov/nchs/nhis/quest_data_related_1997_forward.htm.

Notifiable Diseases and Mortality Tables

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending May 22, 2010 (20th week)*

| Listeriosis 10 | 2010 | 3 3 3 2 4 0 3 0 4 0 7 17 - 0 - 0 - 0 - 0 - 0 - 0 | 2009 1 116 11 80 25 115 33 10 141 55 4 6 12 | 2008 — 145 17 109 19 80 25 5 139 — 62 4 2 | 2007 1 144 32 85 27 131 23 7 93 55 4 | 2006 1 165 20 97 48 121 33 9 137 | 2005 | OK (1) TX (1) |
|--|--|--|--|--|---|---|---|--|
| Botulism, total | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 3 3 3 2 4 0 3 0 4 0 7 17 - 0 - 0 - 0 - 0 - 0 - 0 | 116 11 80 25 115 33 10 141 55 4 6 | 145 17 109 19 80 25 5 139 — 62 4 | 144 32 85 27 131 23 7 93 — | 165 20 97 48 121 33 9 137 — | 135 19 85 31 120 17 8 | |
| foodborne-infant-other (wound and unspecified)-Brucellosis-Chancroid-Cholera-Cyclosporiasis [§] -Diphtheria-Domestic arboviral diseases-California serogroup virus disease-Eastern equine encephalitis virus disease-Powassan virus disease-St. Louis encephalitis virus disease-Western equine encephalitis virus disease-Haemophilus influenzae,** invasive disease (age <5 yrs): | | 3 0 3 0 4 0 7 17 - 0 - 0 - 0 - 0 - 0 - 0 | 11 80 25 115 33 10 141 55 4 6 | 17 109 19 80 25 5 139 — 62 4 | 32 85 27 131 23 7 93 — | 20 97 48 121 33 9 137 — | 19 85 31 120 17 8 | |
| infant other (wound and unspecified) — Brucellosis — Chancroid — Cholera — Cyclosporiasis [§] — Diphtheria — Domestic arboviral diseases [§] , [¶] : California serogroup virus disease — Eastern equine encephalitis virus disease — Eastern equine encephalitis virus disease — Powassan virus disease — St. Louis encephalitis virus disease — Western equine encephalitis virus disease — Haemophilus influenzae, ^{**} invasive disease (age <5 yrs): serotype b — nonserotype b — unknown serotype — Hantavirus pulmonary syndrome [§] — Hemolytic uremic syndrome, postdiarrheal [§] — HIV infection, pediatric (age <13 yrs) ^{††} — Influenza-associated pediatric mortality [§] , ^{§§} = Listeriosis Measles [¶] = Meningococcal disease, invasive***: A, C, Y, and W-135 = serogroup a other serogroup … unknown serogroup … unknown serogroup … unknown serogroup … | | 3 2 2 0 3 0 4 0 7 17 - - - 0 - 0 - 0 - 0 - 0 | 80 25 115 33 10 141 | 109 19 80 25 5 139 — 62 4 | 85 27 131 23 7 93 — 55 | 97 48 121 33 9 137 — | 85 31 120 17 8 | |
| other (wound and unspecified)BrucellosisChancroidCholeraCyclosporiasis [§] DiphtheriaDomestic arboviral diseasesEastern equine encephalitis virus diseasePowassan virus diseaseSt. Louis encephalitis virus diseaseWestern equine encephalitis virus diseaseWestern equine encephalitis virus diseaseWestern equine encephalitis virus diseaseWestern equine encephalitis virus diseaseHaemophilus influenzae,** invasive disease (age <5 yrs): | | 2 0 3 0 17 - - 0 - 0 - 0 - 0 - 0 - 0 | 25 115 33 10 141 55 4 6 | 19 80 25 5 139 — 62 4 | 27 131 23 7 93 — 55 | 48 121 33 9 137 — | 31 120 17 8 | |
| Brucellosis | - 31 - 21 - 27 | 3 0 17 0 0 | 115 33 10 141 55 4 6 | 80 25 5 139 — 62 4 | 131 23 7 93 — 55 | 121 33 9 137 — | 120 17 8 | TX (1) |
| Chancroid - Cholera - Cyclosporiasis [§] - Diphtheria - Domestic arboviral diseases [§] , [¶] : - California serogroup virus disease - Eastern equine encephalitis virus disease - Powassan virus disease - St. Louis encephalitis virus disease - Western equine encephalitis virus disease - Haemophilus influenzae,** invasive disease (age <5 yrs): | - 21 - 27 | 0 2 0 7 17 | 33 10 141 55 4 6 | 25 5 139 — 62 4 | 23 7 93 — 55 | 33 9 137 — | 17 8 | TX (1) |
| Cholera - Cyclosporiasis [§] - Diphtheria - Domestic arboviral diseases [§] , [¶] : - California serogroup virus disease - Eastern equine encephalitis virus disease - Powassan virus disease - St. Louis encephalitis virus disease - Western equine encephalitis virus disease - Western equine encephalitis virus disease - Haemophilus influenzae,** invasive disease (age <5 yrs): | - 27 | 2 0 7 17 0 0 - 0 | 10 141 55 4 6 | 5 139 — 62 4 | 7 93 — 55 | 9 137 — | 8 | TX (1) |
| Cyclosporiasis [§] Diphtheria — Domestic arboviral diseases [§] ,¶: California serogroup virus disease — Eastern equine encephalitis virus disease — Powassan virus disease — St. Louis encephalitis virus disease — Western equine encephalitis virus disease — Haemophilus influenzae, ^{**} invasive disease (age <5 yrs): serotype b — nonserotype b — unknown serotype — Hansen disease [§] — Hantavirus pulmonary syndrome [§] — Hemolytic uremic syndrome, postdiarrheal [§] — HiV infection, pediatric (age <13 yrs) ^{††} — Influenza-associated pediatric mortality [§] , ^{§§} — Listeriosis — Meningococcal disease, invasive***: A, C, Y, and W-135 — serogroup B — other serogroup — unknown serogroup — unknown serogroup — Mumps — | | 17 0 0 0 0 0 0 0 | 141 — 55 4 6 | 139 — 62 4 | 93 — 55 | 137 — | | TX (1) |
| Diphtheria | | | — 55 4 6 | 62 4 | 55 | — | 543 — | TX (1) |
| Domestic arboviral diseases \$^{\$,\$}: California serogroup virus disease | | - 0 - 0 | 4 6 | 4 | | | — | |
| California serogroup virus disease | | - 0 - 0 | 4 6 | 4 | | | | |
| Eastern equine encephalitis virus disease - Powassan virus disease - St. Louis encephalitis virus disease - Western equine encephalitis virus disease - Haemophilus influenzae,** invasive disease (age <5 yrs): | | - 0 - 0 | 4 6 | 4 | | | | |
| Powassan virus disease | | 0 | 6 | | Л | 67 | 80 | |
| St. Louis encephalitis virus disease | - 7 - 67 2 89 - 15 | 0 | | 2 | 4 | 8 | 21 | |
| Western equine encephalitis virus disease Haemophilus influenzae,** invasive disease (age <5 yrs): | - 7 - 67 2 89 - 15 | | 12 | | 7 | 1 | 1 | |
| Haemophilus influenzae,** invasive disease (age <5 yrs): | - 67 2 89 - 15 | | | 13 | 9 | 10 | 13 | |
| serotype b — nonserotype b — unknown serotype b — Hansen disease [§] — Hantavirus pulmonary syndrome [§] — Hemolytic uremic syndrome, postdiarrheal [§] — Holytic uremic syndrome, postdiarrheal [§] — Holytic uremic syndrome, postdiarrheal [§] — Influenza-associated pediatric mortality [§] , ^{§§} : Si Listeriosis III Measles ^{¶¶} : Si Meningococcal disease, invasive***: A, C, Y, and W-135 : Si Serogroup B · · · · · · · · · · · · · · · · · · | - 67 2 89 - 15 | , O | | _ | _ | _ | _ | |
| nonserotype b | - 67 2 89 - 15 | 0 | | | | | | |
| unknown serotype Hansen disease ^{\$} | 2 89 - 15 | | 35 | 30 | 22 | 29 | 9 | |
| Hansen disease [§] — Hantavirus pulmonary syndrome [§] — Hemolytic uremic syndrome, postdiarrheal [§] — HIV infection, pediatric (age <13 yrs) ^{††} — Influenza-associated pediatric mortality [§] , ^{§§} 1 Listeriosis 10 Measles [¶] 2 Meningococcal disease, invasive****: A, C, Y, and W-135 5 serogroup B 0 other serogroup — unknown serogroup 1 Mumps 8 | - 15 | 4 | 236 | 244 | 199 | 175 | 135 | |
| Hantavirus pulmonary syndrome ⁵ — Hemolytic uremic syndrome, postdiarrheal ⁵ — HIV infection, pediatric (age <13 yrs) ^{††} — Influenza-associated pediatric mortality ⁵ , ⁵⁵ … Listeriosis … Measles [¶] … Measles [¶] … A, C, Y, and W-135 … serogroup B … other serogroup … unknown serogroup … Mumps … | | 9 4 | 180 | 163 | 180 | 179 | 217 | NY (1), SC (1) |
| Hemolytic uremic syndrome, postdiarrheal ⁵ | - 2 | 5 1 | 81 | 80 | 101 | 66 | 87 | |
| Hemolytic uremic syndrome, postdiarrheal ⁵ | | ! 1 | 14 | 18 | 32 | 40 | 26 | |
| HIV infection, pediatric (age <13 yrs) ^{TT} Influenza-associated pediatric mortality ^{5, 55} 1 Listeriosis 10 Measles [¶] 1 Meningococcal disease, invasive***: 1 A, C, Y, and W-135 1 serogroup B other serogroup unknown serogroup 1 Mumps 8 | - 40 | | 240 | 330 | 292 | 288 | 221 | |
| Influenza-associated pediatric mortality ^{5,95} Listeriosis 14 Measles ⁹¹ Meningococcal disease, invasive***: A, C, Y, and W-135 serogroup B other serogroup unknown serogroup unknown serogroup | | . 1 | _ | _ | _ | _ | 380 | |
| Listeriosis 10 Measles ^{\$¶} 2 Meningococcal disease, invasive***: A, C, Y, and W-135 2 serogroup B | 51 | 2 | 360 | 90 | 77 | 43 | 45 | GA (1), TX (2) |
| Meningococcal disease, invasive***: A, C, Y, and W-135 serogroup B other serogroup unknown serogroup Mumps | | | 858 | 759 | 808 | 884 | 896 | NY (1), PA (1), OH (1), FL (2), WA (1), CA (4) |
| Meningococcal disease, invasive***: A, C, Y, and W-135 serogroup B other serogroup unknown serogroup Mumps | 3 22 | | 67 | 140 | 43 | 55 | 66 | NE (3) |
| serogroup B – other serogroup – unknown serogroup 3 Mumps 8 | | | | | | | | |
| serogroup B – other serogroup – unknown serogroup 3 Mumps 8 | 2 101 | 6 | 287 | 330 | 325 | 318 | 297 | TX (1), WA (1) |
| other serogroup – unknown serogroup 3 Mumps 8 | | | 164 | 188 | 167 | 193 | 156 | |
| unknown serogroup | _ | | 23 | 38 | 35 | 32 | 27 | |
| Mumps 8 | | | 502 | 616 | 550 | 651 | 765 | MO (1), FL (1), KY (1) |
| | | | 2,069 | 454 | | 6,584 | 314 | NY (3), NYC (71), OH (1), IA (2), NE (1), TX (3), WA (2), CA (2) |
| | | . 0 | 43,771 | 2 | 4 | NN | NN | |
| Plague | | . 0 | 8 | 3 | 7 | 17 | 8 | |
| Poliomyelitis, paralytic | | | 1 | _ | _ | _ | 1 | |
| Polio virus Infection, nonparalytic [§] | | | _ | _ | _ | NN | NN | |
| Psittacosis [§] | - 4 | 0 | 9 | 8 | 12 | 21 | 16 | |
| 5 555 | 3 26 | | 110 | 120 | 171 | 169 | 136 | |
| acute | | | 90 | 106 | _ | | | NY (1), CA (2) |
| chronic | - | | 20 | 14 | _ | | _ | |
| Rabies, human | | - <u> </u> | 3 | 2 | 1 | 3 | 2 | |
| Rubella | | 2 0 | 3 | 16 | 12 | 11 | 11 | WA (1) |
| Rubella, congenital syndrome | | | 1 | | | 1 | 1 | |
| SARS-CoV [§] ,**** | | | | | _ | | | |
| Smallpox [§] | | | _ | | _ | | | |
| 6 | 2 66 | i 3 | 161 | 157 | 132 | 125 | 129 | NY (1), KY (1) |
| Syphilis, congenital (age <1 yr) | - 59 | | 422 | 431 | 430 | 349 | 329 | |
| Tetanus – | | | 422 | 43 I 19 | 430 28 | 549 41 | 529 27 | |
| | 2 32 | | 78 | 71 | 20 92 | 101 | 27 90 | CA (2) |
| Trichinellosis | | | 12 | 39 | 92 5 | 101 | 90 16 | |
| | 2 8 | | 93 | | | 95 | 154 | MO (1) OK (1) |
| Typhoid fever | | | 93 401 | 123 449 | 137 | 95 353 | | MO (1), OK (1) PA (1) $V(A (1) V(A (1) CA (4))$ |
| | | | | | 434 | | 324 | PA (1), VA (1), WA (1), CA (4) |
| s s s s s s s s s s s s s s s s s s s | | | 78 | 63 | 37 | 6 | 2 | |
| 5 | | | 709 | | 2 | 1 NN | 3 | |
| N | | | 798 | 588 | 549 | NN | NN | MD (1), VA (1), FL (5), OK (1), AZ (1), CA (2) |
| Yirai hemorrhagic reverational — — — — — — — — — — — — — — — — — — — | 78 | | NN | NN | NN | NN | NN | |

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 May 22, 2010 (20th week)*

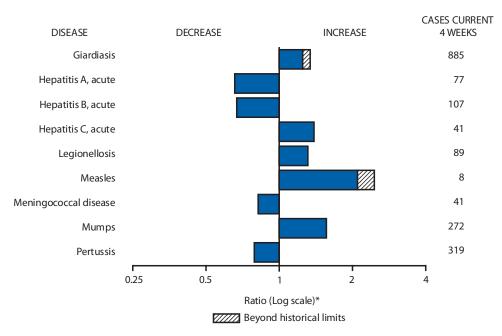
---: No reported cases. N: Not reportable. NN: Not Nationally Notifiable Cum: Cumulative year-to-date counts.

- * Incidence data for reporting years 2009 and 2010 are provisional, whereas data for 2005 through 2008 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/ncphi/disss/nndss/phs/files/5yearweeklyaverage.pdf.
- [§] Not reportable in all states. Data from states where the condition is not reportable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenzaassociated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/ncphi/disss/nndss/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.
- ** 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.
- ^{§§} Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Since April 26, 2009, a total of 285 influenza-associated pediatric deaths associated with 2009 influenza A (H1N1) virus infection have been reported. Since August 30, 2009, a total of 276 influenza-associated pediatric deaths occurring during the 2009–10 influenza season have been reported. A total of 134 influenza-associated pediatric deaths occurring during the 2008–09 influenza season have been reported.
- ^{¶¶} The three measles cases reported for the current week were indigenous. *** Data for meningococcal disease (all serogroups) are available in Table II.
- **** CDC discontinued reporting of individual confirmed and probable cases of 2009 pandemic influenza A (H1N1) virus infections on July 24, 2009. CDC will report the total number of 2009 pandemic influenza A (H1N1) hospitalizations and deaths weekly on the CDC H1N1 influenza website (http://www.cdc.gov/h1n1flu). In addition, three cases of novel influenza A virus infections, unrelated to the 2009 pandemic influenza A (H1N1) virus, were reported to CDC during 2009.
- ^{§§§} In 2009, 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.
- **111** The one rubella case reported for the current week was indigenous.

**** Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.

- ⁺⁺⁺⁺ Updated weekly from reports to the Division of STD Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention.
- §§§§ There was one case of viral hemorrhagic fever reported during week 12. The one case report was confirmed as lassa fever. See Table II for dengue hemorrhagic fever.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals May 22, 2010, 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.

Notifiable Disease Data Team and 122 Cities Mortality Data Team
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Deborah A. Adams Rosaline Dhara
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Jose Aponte Michael S. Wodajo
Lenee Blanton

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending May 22, 2010, and May 23, 2009 (20th week)*

| | | Chlamydia | a trachomatis | infection | | | Cryp | otosporidiosis | ; | |
|----------------------------------|------------|--------------|----------------|-----------------|------------------|---------|------------|----------------|------------|------------|
| | Current | Previous 5 | 2 weeks | Cum | Cum | Current | Previous 5 | 52 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | 10,705 | 23,120 | 27,343 | 372,635 | 485,348 | 59 | 122 | 284 | 1,765 | 1,868 |
| New England | 972 | 739 | 1,396 | 14,151 | 15,445 | 4 | 5 | 30 | 95 | 138 |
| Connecticut | 238 | 213 | 736 | 3,393 | 4,457 | _ | 0 | 26 | 26 | 38 |
| Maine [†] | 37 | 49 | 75 | 953 | 1,004 | 1 | 1 | 4 | 21 | 13 |
| Massachusetts New Hampshire | 510 94 | 383 35 | 767 60 | 7,664 356 | 7,321 819 | _ | 1 2 | 15 6 | 21 | 39 20 |
| Rhode Island [†] | 67 | 70 | 130 | 1,346 | 1,370 | _ | 0 | 8 | 8 | 20 |
| Vermont [†] | 26 | 23 | 63 | 439 | 474 | 3 | 1 | 9 | 19 | 26 |
| Aid. Atlantic | 3,072 | 3,105 | 4,619 | 64,160 | 61,741 | 5 | 14 | 38 | 210 | 225 |
| New Jersey | 427 | 441 | 624 | 8,438 | 9,859 | _ | 0 | 5 | _ | 13 |
| New York (Upstate) | 739 | 632 | 2,530 | 12,723 | 11,392 | 2 | 3 | 16 | 48 | 50 |
| New York City | 1,326 | 1,182 | 2,283 | 25,521 | 23,353 | | 1 | 5 | 17 | 35 |
| Pennsylvania | 580 | 850 | 1,056 | 17,478 | 17,137 | 3 | 9 | 19 | 145 | 127 |
| . N. Central Illinois | 865 | 3,462 | 4,413 1,322 | 41,037 146 | 80,275 24,549 | 6 | 29 3 | 73 8 | 364 54 | 457 44 |
| Indiana | _ | 1,061 324 | 602 | 4,511 | 9,210 | _ | 4 | 11 | 40 | 101 |
| Michigan | 729 | 885 | 1,412 | 19,306 | 18,749 | _ | 6 | 11 | 102 | 84 |
| Ohio | 136 | 920 | 1,039 | 14,280 | 19,212 | 6 | 7 | 16 | 126 | 115 |
| Wisconsin | _ | 370 | 466 | 2,794 | 8,555 | _ | 8 | 39 | 42 | 113 |
| V.N. Central | 60 | 1,308 | 1,711 | 22,309 | 27,952 | 11 | 19 | 59 | 275 | 246 |
| lowa | 11 | 180 | 252 | 3,825 | 3,907 | 2 | 4 | 13 | 65 | 62 |
| Kansas | — | 172 | 571 | 2,745 | 4,067 | 1 | 2 | 6 | 29 | 25 |
| Minnesota Missouri | _ | 263 492 | 337 638 | 4,661 8,613 | 5,776 10,310 | 4 2 | 5 3 | 31 12 | 94 44 | 47 47 |
| Nebraska [†] | 49 | 93 | 237 | 1,835 | 2,047 | 2 | 2 | 9 | 34 | 25 |
| North Dakota | _ | 31 | 93 | 630 | 658 | _ | 0 | 18 | 3 | 1 |
| South Dakota | _ | 49 | 82 | _ | 1,187 | _ | 1 | 10 | 6 | 39 |
| 5. Atlantic | 2,010 | 4,428 | 6,098 | 63,585 | 99,415 | 14 | 20 | 50 | 335 | 316 |
| Delaware | 68 | 88 | 145 | 1,657 | 1,878 | _ | 0 | 2 | 1 | — |
| District of Columbia | | 112 | 178 | 1,610 | 2,773 | | 0 | 1 | 2 | 3 |
| Florida Georgia | 630 9 | 1,399 508 | 1,669 1,323 | 27,198 2,065 | 29,145 16,562 | 5 5 | 8 6 | 24 31 | 133 132 | 100 124 |
| Maryland [†] | | 444 | 1,031 | 7,387 | 8,618 | 1 | 1 | 3 | 11 | 124 |
| North Carolina | _ | 678 | 1,291 | | 16,496 | _ | 1 | 11 | 11 | 27 |
| South Carolina [†] | 628 | 521 | 1,331 | 10,543 | 10,738 | — | 1 | 7 | 15 | 18 |
| Virginia [†] | 606 | 600 | 924 | 11,689 | 11,639 | 2 | 1 | 7 | 24 | 21 |
| West Virginia | 69 | 65 | 137 | 1,436 | 1,566 | 1 | 0 | 2 | 6 | 5 |
| E.S. Central | 979 | 1,654 | 2,264 | 29,822 | 35,570 | 1 | 4 | 13 | 66 | 60 |
| Alabama [†] Kentucky | 398 | 465 290 | 606 642 | 9,083 5,032 | 10,152 4,108 | _ | 1 2 | 5 4 | 21 22 | 18 14 |
| Mississippi | _ | 429 | 640 | 5,966 | 9,572 | _ | 0 | 6 | 4 | 9 |
| Tennessee [†] | 581 | 557 | 734 | 9,741 | 11,738 | 1 | 1 | 5 | 19 | 19 |
| N.S. Central | 585 | 2,949 | 5,784 | 52,993 | 61,884 | 6 | 8 | 40 | 97 | 90 |
| Arkansas [†] | 322 | 271 | 402 | 5,815 | 5,780 | _ | 1 | 5 | 12 | 10 |
| Louisiana | | 390 | 1,055 | 2,922 | 11,678 | 1 | 1 | 6 | 14 | 9 |
| Oklahoma Texas [†] | 263 | 247 | 2,727 | 5,904 | 2,776 | 3 2 | 2 5 | 9 30 | 17 54 | 25 46 |
| | _ | 2,041 | 3,229 | 38,352 | 41,650 | | | | | |
| Mountain Arizona | 511 141 | 1,451 467 | 2,118 713 | 22,713 4,827 | 27,336 9,946 | 3 | 10 0 | 25 3 | 156 10 | 138 13 |
| Colorado | | 407 | 709 | 6,699 | 4,104 | _ | 2 | 10 | 47 | 32 |
| Idaho [†] | 108 | 61 | 185 | 1,046 | 1,387 | _ | 2 | 7 | 27 | 17 |
| Montana [†] | 13 | 56 | 74 | 1,148 | 1,283 | 2 | 1 | 4 | 20 | 13 |
| Nevada [†] | 158 | 173 | 478 | 3,662 | 4,122 | _ | 0 | 2 | 5 | 7 |
| New Mexico [†] Utah | 76 | 169 | 453 | 2,213 | 3,173 | | 2 | 8 4 | 23 17 | 38 6 |
| Wyoming [†] | 15 | 115 36 | 174 70 | 2,378 740 | 2,532 789 | 1 | 1 0 | 4 | 7 | 12 |
| acific | 1,651 | 3,454 | 5,313 | 61,865 | 75,730 | 9 | 13 | 27 | 167 | 198 |
| Alaska | 1,00 | 3,454 | 5,313 | 2,247 | 2,157 | 9 | 0 | 27 | 107 | 198 |
| California | 1,404 | 2,651 | 4,406 | 48,460 | 57,937 | 8 | 8 | 20 | 100 | 102 |
| Hawaii | — | 113 | 137 | 1,779 | 2,443 | _ | 0 | 0 | — | 1 |
| Oregon | | 180 | 468 | 1,367 | 4,270 | 1 | 3 | 10 | 44 | 71 |
| Washington | 247 | 397 | 638 | 8,012 | 8,923 | — | 1 | 8 | 22 | 22 |
| American Samoa | — | 0 | 0 | — | — | N | 0 | 0 | N | N |
| I.N.M.I. Guam | _ | 1 | 27 | | | _ | 0 | 0 | _ | _ |
| Puerto Rico | _ | 118 | 329 | 2,125 | 2,873 | N | 0 | 0 | N | N |
| I.S. Virgin Islands | | 9 | 21 | 52 | 201 | _ | 0 | 0 | _ | |

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly. † Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| | | Dengue Virus Infection | | | | | | | | | | | | |
|--|---------|------------------------|-------------|------|----------|---------|----------|---------------|-------|----------|--|--|--|--|
| | | | Dengue Feve | r | | | Dengue l | Hemorrhagic F | ever† | | | | | |
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum | | | | |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | | | | |
| United States | — | 0 | 1 | 3 | NN | — | 0 | 0 | _ | NN | | | | |
| New England | — | 0 | 1 | 2 | NN | — | 0 | 0 | — | NN | | | | |
| Connecticut Maine [§] | _ | 0 0 | 0 1 | 2 | NN NN | _ | 0 | 0 0 | _ | NN NN | | | | |
| Massachusetts | _ | 0 | 0 | | NN | | 0 | 0 | _ | NN | | | | |
| New Hampshire | _ | Ő | õ | | NN | _ | Ő | Ő | | NN | | | | |
| Rhode Island [§] | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Vermont [§] | — | 0 | 0 | _ | NN | — | 0 | 0 | _ | NN | | | | |
| Mid. Atlantic | — | 0 | 1 | 1 | NN | — | 0 | 0 | | NN | | | | |
| New Jersey New York (Upstate) | _ | 0 0 | 0 0 | _ | NN NN | _ | 0 0 | 0 0 | _ | NN NN | | | | |
| New York City | _ | 0 | õ | | NN | _ | Ő | 0 | _ | NN | | | | |
| Pennsylvania | — | 0 | 1 | 1 | NN | — | 0 | 0 | | NN | | | | |
| E.N. Central | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Illinois | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Indiana Michigan | _ | 0 0 | 0 0 | _ | NN NN | — | 0 | 0 0 | _ | NN NN | | | | |
| Michigan Ohio | _ | 0 | 0 | _ | NN | _ | 0 0 | 0 | _ | NN | | | | |
| Wisconsin | _ | Ő | õ | _ | NN | _ | Ő | Ő | | NN | | | | |
| W.N. Central | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| lowa | _ | Ő | Ő | _ | NN | _ | õ | õ | _ | NN | | | | |
| Kansas | _ | 0 | 0 | — | NN | — | 0 | 0 | _ | NN | | | | |
| Minnesota Missouri | _ | 0 0 | 0 0 | _ | NN NN | _ | 0 0 | 0 0 | _ | NN NN | | | | |
| Nebraska [§] | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| North Dakota | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| South Dakota | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| S. Atlantic | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Delaware | — | 0 | 0 | — | NN | — | 0 | 0 | _ | NN | | | | |
| District of Columbia Florida | _ | 0 0 | 0 0 | _ | NN NN | _ | 0 0 | 0 0 | _ | NN NN | | | | |
| Georgia | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Maryland [§] | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| North Carolina | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| South Carolina [§] Virginia [§] | — | 0 0 | 0 0 | _ | NN NN | _ | 0 | 0 0 | _ | NN NN | | | | |
| West Virginia | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| E.S. Central | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Alabama [§] | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Kentucky | — | 0 | 0 | _ | NN | — | 0 | 0 | _ | NN | | | | |
| Mississippi | — | 0 | 0 | — | NN | — | 0 | 0 | — | NN | | | | |
| Tennessee [§] | _ | 0 | 0 | — | NN | — | 0 | 0 | — | NN | | | | |
| W.S. Central Arkansas [§] | _ | 0 0 | 0 0 | _ | NN NN | _ | 0 | 0 0 | _ | NN NN | | | | |
| Louisiana | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Oklahoma | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Texas [§] | — | 0 | 0 | — | NN | — | 0 | 0 | _ | NN | | | | |
| Mountain | — | 0 | 0 | _ | NN | — | 0 | 0 | | NN | | | | |
| Arizona | — | 0 | 0 | — | NN | — | 0 | 0 | — | NN | | | | |
| Colorado Idaho [§] | _ | 0 0 | 0 0 | _ | NN NN | _ | 0 0 | 0 0 | _ | NN NN | | | | |
| Montana [§] | _ | 0 | õ | | NN | _ | Ő | 0 | _ | NN | | | | |
| Nevada§ | — | 0 | 0 | _ | NN | — | 0 | 0 | | NN | | | | |
| New Mexico [§] | — | 0 | 0 | — | NN | — | 0 | 0 | — | NN | | | | |
| Utah Wyoming [§] | | 0 0 | 0 0 | _ | NN NN | _ | 0 | 0 0 | _ | NN NN | | | | |
| Pacific | _ | 0 | 0 | | NN | | 0 | 0 | | NN | | | | |
| Alaska | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN NN | | | | |
| California | _ | Ő | Ő | _ | NN | _ | 0 | õ | _ | NN | | | | |
| Hawaii | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Oregon | — | 0 | 0 | — | NN | — | 0 | 0 | | NN | | | | |
| Washington | — | 0 | 0 | — | NN | — | 0 | 0 | — | NN | | | | |
| American Samoa C.N.M.I. | — | 0 | 0 | _ | NN NN | _ | 0 | 0 | _ | NN NN | | | | |
| Guam | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| Puerto Rico | _ | 0 | õ | _ | NN | _ | 0 | Õ | _ | NN | | | | |
| U.S. Virgin Islands | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN | | | | |
| | | | | | | | | | | | | | | |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 22, 2010, and May 23, 2009 (20th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. † DHF includes cases that meet criteria for dengue shock syndrome (DSS), a more severe form of DHF. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 22, 2010, and May 23, 2009 (20th week)*

| | | | | | | | Ehrlichio | sis/Anapla | smosis† | | | | | | |
|--|---------|----------|-------------|--------|--------|---------|-----------|------------|---------|---------|---------|------------|-----------|------|---------|
| | | Ehrli | chia chaffe | ensis | | | Anaplasma | a phagocyt | ophilum | | | Und | etermined | | |
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum | Current | Previous 5 | 52 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | 9 | 10 | 153 | 52 | 99 | 6 | 13 | 302 | 19 | 96 | _ | 2 | 37 | 5 | 39 |
| New England | _ | 0 | 4 | 2 | 4 | _ | 2 | 21 | 5 | 23 | _ | 0 | 1 | _ | 1 |
| Connecticut Maine [§] | _ | 0 | 0 1 | 2 | _ | _ | 0 0 | 13 3 | 2 | 3 | _ | 0 0 | 0 0 | _ | _ |
| Massachusetts | _ | 0 | 0 | | _ | _ | 0 | 0 | — | — | _ | 0 | 0 | _ | _ |
| New Hampshire Rhode Island [§] | _ | 0 | 1 4 | _ | 4 | _ | 0 0 | 3 20 | 1 2 | 6 14 | _ | 0 0 | 1 1 | _ | |
| Vermont [§] | _ | 0 | 4 | _ | 4 | _ | 0 | 20 | | | _ | 0 | 0 | _ | _ |
| Mid. Atlantic | _ | 3 | 15 | 8 | 24 | 5 | 3 | 27 | 7 | 27 | _ | 0 | 4 | 1 | 10 |
| New Jersey | — | 1 | 8 | _ | 14 | _ | 0 | 7 | | 11 | — | 0 | 0 | | _ |
| New York (Upstate) New York City | _ | 1 0 | 15 2 | 4 3 | 5 1 | 5 | 2 0 | 20 1 | 7 | 15 1 | _ | 0 0 | 2 1 | 1 | 1 |
| Pennsylvania | _ | Ő | 5 | 1 | 4 | _ | Ő | 1 | _ | _ | _ | Ő | 3 | _ | 9 |
| E.N. Central | _ | 0 | 8 | _ | 19 | _ | 2 | 23 | 1 | 43 | _ | 1 | 7 | 1 | 15 |
| Illinois Indiana | _ | 0 | 4 0 | _ | 8 | _ | 0 0 | 1 0 | _ | 1 | _ | 0 0 | 1 6 | 1 | 1 10 |
| Michigan | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | |
| Ohio | _ | 0 | 2 | _ | 2 | _ | 0 | 1 | _ | 1 | _ | 0 | 1 | _ | _ |
| Wisconsin | _ | 0 | 3 | | 9 | — | 2 | 22 | 1 | 41 | _ | 0 | 4 | | 4 |
| W.N. Central lowa | 3 | 2 0 | 23 0 | 8 | 13 | _ | 0 0 | 261 0 | _ | _ | _ | 0 0 | 30 0 | 2 | 4 |
| Kansas | _ | 0 | 2 | _ | _ | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ |
| Minnesota | _ | 0 | 6 | _ | | — | 0 | 261 | — | — | — | 0 | 30 | | 2 |
| Missouri Nebraska [§] | 3 | 1 0 | 22 1 | 8 | 13 | _ | 0 0 | 2 1 | _ | _ | _ | 0 | 4 0 | 2 | 2 |
| North Dakota | _ | Ő | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | Ő | Ő | _ | _ |
| South Dakota | — | 0 | 0 | — | — | | 0 | 0 | — | — | — | 0 | 0 | — | — |
| S. Atlantic | 1 | 3 | 14 | 22 | 25 | 1 | 0 | 2 | 6 | 2 | _ | 0 | 2 | — | — |
| Delaware District of Columbia | _ | 0 0 | 2 0 | 3 | 3 | _ | 0 0 | 1 0 | 1 | _ | _ | 0 0 | 0 0 | _ | _ |
| Florida | _ | 0 | 1 | 2 | 2 | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ |
| Georgia Maryland [§] | _ | 0 1 | 2 4 | 3 4 | 6 9 | 1 | 0 0 | 1 1 | 1 2 | 2 | _ | 0 | 0 | _ | _ |
| North Carolina | _ | 0 | 4 | 4 | 9 | _ | 0 | 1 | 1 | | _ | 0 | 0 | _ | _ |
| South Carolina [§] | | 0 | 1 | _ | 2 | — | 0 | 0 | | — | _ | 0 | 0 | — | — |
| Virginia [§] West Virginia | 1 | 1 0 | 13 1 | 3 | 3 | _ | 0 0 | 1 0 | 1 | _ | _ | 0 | 2 1 | — | _ |
| E.S. Central | _ | 1 | 11 | 6 | 11 | _ | 0 | 1 | _ | 1 | _ | 0 | 5 | 1 | 9 |
| Alabama [§] | _ | 0 | 3 | 1 | _ | | 0 | 1 | _ | _ | _ | ů 0 | 0 | _ | _ |
| Kentucky | — | 0 | 2 | — | — | _ | 0 | 0 | — | — | — | 0 | 0 | _ | — |
| Mississippi Tennessee [§] | _ | 0 1 | 2 10 | 5 | 11 | _ | 0 0 | 0 1 | _ | 1 | _ | 0 0 | 0 5 | 1 | 9 |
| W.S. Central | 5 | 0 | 118 | 6 | 1 | _ | 0 | 17 | _ | _ | _ | 0 | 3 | _ | |
| Arkansas [§] | _ | 0 | 11 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 3 | _ | _ |
| Louisiana | | 0 | 0 | | | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Oklahoma Texas [§] | 5 | 0 0 | 105 2 | 5 1 | 1 | _ | 0 0 | 16 1 | _ | _ | _ | 0 0 | 0 | _ | _ |
| Mountain | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 1 | _ | _ |
| Arizona | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 1 | _ | _ |
| Colorado Idaho [§] | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Montana [§] | _ | 0 | 0 0 | _ | _ | _ | 0 | 0 0 | _ | _ | _ | 0 0 | 0 0 | _ | _ |
| Nevada [§] | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| New Mexico [§] | _ | 0 | 0 | _ | — | _ | 0 | 0 | — | — | _ | 0 | 0 | _ | _ |
| Utah Wyoming [§] | _ | 0 | 0 0 | _ | _ | _ | 0 0 | 0 0 | _ | _ | _ | 0 | 0 0 | _ | _ |
| Pacific | _ | 0 | 1 | _ | 2 | _ | 0 | 1 | _ | _ | _ | 0 | 1 | _ | _ |
| Alaska | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| California Hawaii | _ | 0 0 | 1 0 | _ | 2 | _ | 0 0 | 1 0 | | _ | _ | 0 0 | 1 0 | _ | _ |
| Oregon | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Washington | — | 0 | 0 | — | — | — | 0 | 0 | — | — | _ | 0 | 0 | — | — |
| American Samoa | — | 0 | 0 | — | — | — | 0 | 0 | _ | — | — | 0 | 0 | — | — |
| C.N.M.I. Guam | _ | 0 | 0 | _ | _ | _ | 0 | 0 | | _ | — | 0 | 0 | _ | _ |
| Puerto Rico | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| 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 reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. † Cumulative total *E. ewingji* cases reported as of this week = 0. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 22, 2010, and May 23, 2009 (20th week)*

| | | | Giardiasis | 5 | | | | Gonorrhea | a | | На | emophilus i All ages | <i>nfluenzae,</i> , all seroty | | |
|--|-----------------|-----------------|-----------------|-------------|-------------|-----------------|-------------------|----------------|----------------|----------------|-----------------|-------------------------|-----------------------------------|-------------|-------------|
| Reporting area | Current week | Previous Med | 52 weeks Max | Cum 2010 | Cum 2009 | Current week | Previous 5 Med | 2 weeks Max | Cum 2010 | Cum 2009 | Current week | Previous 5 Med | 52 weeks Max | Cum 2010 | Cum 2009 |
| United States | 193 | 339 | 660 | 5,626 | 6,072 | 2,305 | 5,502 | 6,929 | 83,382 | 116,217 | 19 | 55 | 171 | 1,078 | 1,252 |
| New England | 5 | 27 | 65 | 287 | 492 | 132 | 92 | 197 | 1,919 | 1,844 | 2 | 3 | 21 | 29 | 79 |
| Connecticut | _ | 6 | 15 | 94 | 95 | 34 | 45 | 170 | 893 | 849 | 1 | 0 | 15 | 12 | 23 |
| Maine [§] | 3 | 4 | 13 | 72 | 71 | _4 | 3 | 11 | 80 | 58 | _ | 0 | 2 | 3 | 12 |
| Massachusetts New Hampshire | _ | 10 3 | 36 11 | | 211 42 | 77 7 | 39 2 | 81 7 | 767 61 | 750 41 | _ | 0 0 | 8 2 | 7 | 38 3 |
| Rhode Island [§] | _ | 1 | 7 | 19 | 23 | 10 | 6 | 19 | 108 | 123 | _ | 0 | 2 | 4 | 1 |
| Vermont [§] | 2 | 4 | 14 | 58 | 50 | | 0 | 5 | 10 | 23 | 1 | 0 | 1 | 3 | 2 |
| Mid. Atlantic | 31 | 61 | 112 | 914 | 1,161 | 516 | 626 | 941 | 12,359 | 11,818 | 7 | 12 | 34 | 240 | 219 |
| New Jersey | _ | 6 | 15 | 1 | 169 | 87 | 90 | 132 | 1,713 | 1,807 | _ | 2 | 7 | 31 | 35 |
| New York (Upstate) New York City | 25 | 24 16 | 84 | 392 271 | 401 330 | 106 215 | 99 215 | 422 396 | 1,981 | 2,072 | 5 | 3 2 | 20 6 | 67 47 | 52 29 |
| Pennsylvania | 6 | 15 | 25 37 | 250 | 261 | 108 | 215 | 277 | 4,511 4,154 | 4,205 3,734 | 2 | 4 | 9 | 47 95 | 103 |
| E.N. Central | 17 | 49 | 92 | 840 | 951 | 238 | 1,075 | 1,536 | 11,559 | 25,254 | _ | 8 | 18 | 149 | 196 |
| Illinois | | 12 | 22 | 175 | 198 | | 351 | 441 | 48 | 8,082 | _ | 3 | 9 | 45 | 71 |
| Indiana | _ | 6 | 14 | 68 | 82 | _ | 96 | 183 | 1,269 | 3,001 | _ | 1 | 5 | 27 | 39 |
| Michigan | | 13 | 25 | 227 | 232 | 188 | 247 | 502 | 5,362 | 6,115 | — | 0 | 4 | 14 | 11 |
| Ohio | 17 | 16 | 28 | 321 | 297 | 50 | 311 | 359 | 4,307 | 5,935 | _ | 2 | 6 | 50 | 43 |
| Wisconsin | 21 | 7 27 | 23 165 | 49 527 | 142 534 | 15 | 91 270 | 115 367 | 573 | 2,121 | 1 | 1 | 5 24 | 13 69 | 32 70 |
| W.N. Central lowa | 6 | 6 | 165 | 95 | 96 | 4 | 270 | 46 | 4,425 592 | 5,826 660 | | 2 | 24 1 | 1 | 70 |
| Kansas | 3 | 3 | 14 | 76 | 51 | _ | 40 | 83 | 537 | 967 | _ | 0 | 2 | 7 | 10 |
| Minnesota | _ | Ő | 135 | 136 | 137 | _ | 42 | 64 | 702 | 912 | 1 | Ő | 17 | 22 | 15 |
| Missouri | 11 | 8 | 27 | 133 | 167 | | 123 | 172 | 2,138 | 2,559 | — | 1 | 6 | 30 | 30 |
| Nebraska [§] | 1 | 3 0 | 9 8 | 72 9 | 53 4 | 11 | 22 | 55 11 | 413 | 532 44 | _ | 0 0 | 3 4 | 4 5 | 12 |
| North Dakota South Dakota | _ | 1 | 10 | 6 | 26 | _ | 2 4 | 16 | 43 | 152 | _ | 0 | 4 | | 3 |
| S. Atlantic | 64 | 73 | 144 | 1,402 | 1,327 | 574 | 1,328 | 1,774 | 17,551 | 28,988 | 6 | 14 | 27 | 276 | 355 |
| Delaware | _ | 0 | 3 | 10 | 1,527 | 17 | 1,520 | 37 | 386 | 313 | _ | 0 | 1 | 3 | 3 |
| District of Columbia | _ | 1 | 4 | 10 | 24 | _ | 43 | 86 | 616 | 1,090 | _ | 0 | 1 | _ | 1 |
| Florida | 45 | 37 | 87 | 688 | 695 | 176 | 381 | 482 | 7,210 | 8,330 | 2 | 3 | 10 | 84 | 117 |
| Georgia Maryland [§] | 8 3 | 14 5 | 52 12 | 354 114 | 281 100 | _ | 170 126 | 494 237 | 743 2,027 | 5,534 2,280 | 2 1 | 3 1 | 9 6 | 70 19 | 68 43 |
| North Carolina | N | 0 | 0 | N N | N | _ | 227 | 386 | 2,027 | 5,483 | _ | 1 | 6 | 20 | 43 |
| South Carolina [§] | 3 | 2 | 7 | 40 | 39 | 214 | 159 | 394 | 3,090 | 3,161 | 1 | 2 | 7 | 41 | 32 |
| Virginia [§] | 5 | 9 | 37 | 173 | 160 | 163 | 163 | 271 | 3,295 | 2,567 | _ | 2 | 5 | 31 | 32 |
| West Virginia | _ | 1 | 5 | 13 | 16 | 4 | 8 | 19 | 184 | 230 | _ | 0 | 5 | 8 | 15 |
| E.S. Central | 1 | 7 | 22 | 94 | 135 | 276 | 472 | 649 | 8,198 | 10,137 | 1 | 3 | 12 | 71 | 82 |
| Alabama [§] Kentucky | N | 4 | 13 0 | 51 N | 63 N | 129 | 135 84 | 187 156 | 2,787 1,279 | 2,850 1,222 | 1 | 0 0 | 2 5 | 7 14 | 22 7 |
| Mississippi | N | 0 | 0 | N | N | _ | 127 | 198 | 1,637 | 2,908 | _ | 0 | 2 | 6 | 9 |
| Tennessee§ | 1 | 4 | 18 | 43 | 72 | 147 | 144 | 206 | 2,495 | 3,157 | _ | 2 | 10 | 44 | 44 |
| W.S. Central | 2 | 9 | 18 | 116 | 137 | 183 | 879 | 1,554 | 14,095 | 17,844 | 1 | 2 | 20 | 55 | 58 |
| Arkansas§ | _ | 2 | 9 | 32 | 43 | 98 | 87 | 139 | 1,652 | 1,735 | _ | 0 | 3 | 7 | 10 |
| Louisiana | _ | 3 | 10 | 44 | 68 | | 127 | 343 | 910 | 3,794 | — | 0 | 2 | 12 | 10 |
| Oklahoma Texas [§] | 2 N | 3 0 | 10 0 | 40 N | 26 N | 85 | 69 565 | 616 964 | 1,543 9,990 | 985 11,330 | 1 | 1 0 | 15 2 | 31 5 | 35 3 |
| | 8 | 31 | 64 | 529 | 474 | 53 | 168 | 266 | 2,591 | 3,405 | _ | 5 | 14 | 144 | 121 |
| Mountain Arizona | 1 | 3 | 7 | 50 | 73 | 19 | 56 | 109 | 587 | 1,086 | _ | 2 | 10 | 55 | 41 |
| Colorado | _ | 12 | 26 | 258 | 136 | _ | 51 | 127 | 888 | 999 | _ | 1 | 6 | 37 | 35 |
| Idaho [§] | 1 | 4 | 10 | 78 | 44 | 4 | 1 | 8 | 28 | 38 | _ | 0 | 2 | 6 | 2 |
| Montana [§] | 3 | 3 | 11 | 47 | 37 | | 2 | 6 | 44 | 36 | — | 0 | 1 | 1 | 1 |
| Nevada [§] New Mexico [§] | 3 | 2 | 11 8 | 23 25 | 34 41 | 28 | 26 19 | 94 41 | 680 238 | 741 359 | _ | 0 1 | 2 5 | 5 22 | 10 17 |
| Utah | _ | 5 | 13 | 33 | 87 | 2 | 6 | 14 | 115 | 124 | _ | 1 | 4 | 13 | 14 |
| Wyoming§ | — | 1 | 5 | 15 | 22 | _ | 1 | 7 | 11 | 22 | — | 0 | 2 | 5 | 1 |
| Pacific | 44 | 53 | 132 | 917 | 861 | 318 | 539 | 651 | 10,685 | 11,101 | 1 | 2 | 9 | 45 | 72 |
| Alaska | | 2 | 7 | 32 | 22 | | 22 | 36 | 536 | 351 | — | 0 | 3 | 11 | 6 |
| California | 28 | 34 | 61 | 571 | 607 | 278 | 448 | 544 | 8,869 | 9,082 | _ | 0 | 3 | 1 | 26 |
| Hawaii Oregon | 5 | 0 9 | 2 17 | 185 | 7 124 | _ | 10 15 | 24 43 | 207 106 | 254 447 | 1 | 0 1 | 2 5 | 30 | 15 22 |
| Washington | 11 | 8 | 75 | 129 | 124 | 40 | 43 | 45 84 | 967 | 967 | _ | 0 | 4 | 30 | 3 |
| American Samoa | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | | 0 | 0 | _ | _ |
| C.N.M.I. | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Guam | — | 0 | 1 | 1 | | _ | 0 | 3 | 5 | | _ | 0 | 0 | | |
| Puerto Rico | _ | 1 | 10 | 9 | 57 | _ | 4 | 24 | 97 | 82 | _ | 0 | 1 | 1 | 1 |
| U.S. Virgin Islands | _ | 0 | 0 | — | — | — | 1 | 7 | 8 | 65 | _ | 0 | 0 | — | — |

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 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).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 22, 2010, and May 23, 2009 (20th week)*

| | | | | | | | Hepatitis (| viral, acute | e), by type | e | | | | | |
|--|---------|----------|----------|----------|-----------|---------|-------------|--------------|-------------|-----------|---------|----------|----------|----------|----------|
| | | | А | | | | | В | | | | | с | | |
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | 22 | 33 | 67 | 501 | 745 | 25 | 57 | 202 | 967 | 1,334 | 9 | 15 | 43 | 270 | 294 |
| New England Connecticut | 1 | 1 0 | 5 2 | 19 12 | 41 9 | _ | 1 0 | 4 3 | 19 5 | 25 5 | _ | 1 | 5 4 | 9 9 | 21 17 |
| Maine [†] | _ | 0 | 1 | 3 | 1 | _ | 0 | 2 | 8 | 5 | _ | 0 | 1 | _ | _ |
| Massachusetts New Hampshire | _ | 1 0 | 4 | _ | 23 4 | _ | 0 | 2 2 | 5 | 12 3 | _ | 0 | 1 0 | _ | 3 |
| Rhode Island [†] | _ | 0 | 4 | 4 | 3 | _ | 0 | 0 | | _ | _ | 0 | 0 | _ | _ |
| Vermont [†] | — | 0 | 1 | _ | 1 | — | 0 | 1 | 1 | — | — | 0 | 0 | — | 1 |
| Mid. Atlantic New Jersey | 3 | 4 | 10 5 | 71 8 | 93 29 | 1 | 5 1 | 10 4 | 105 21 | 157 54 | 1 | 2 0 | 4 2 | 32 2 | 37 5 |
| New York (Upstate) | 3 | 1 | 3 | 21 | 16 | 1 | 1 | 6 | 20 | 26 | 1 | 1 | 2 | 20 | 17 |
| New York City | — | 2 | 5 | 23 | 22 | — | 1 | 4 | 31 | 28 | — | 0 | 1 | | 1 |
| Pennsylvania | 2 | 1 4 | 6 19 | 19 61 | 26 118 | 2 | 1 7 | 5 14 | 33 130 | 49 194 | _ | 0 | 4 5 | 10 47 | 14 38 |
| E.N. Central Illinois | | 1 | 13 | 13 | 44 | | 2 | 6 | 23 | 44 | _ | 0 | 1 | | 3 |
| Indiana | — | 0 | 4 | 5 | 9 | — | 1 | 5 | 18 | 36 | — | 0 | 3 | 8 | 5 |
| Michigan Ohio | 2 | 1 0 | 4 4 | 24 14 | 30 22 | 2 | 2 2 | 6 4 | 44 45 | 54 51 | _ | 1 0 | 4 3 | 37 2 | 12 16 |
| Wisconsin | _ | Ő | 2 | 5 | 13 | _ | 0 | 3 | | 9 | _ | 0 | 1 | _ | 2 |
| W.N. Central | — | 1 | 10 | 21 | 46 | 1 | 3 | 15 | 51 | 48 | 1 | 0 | 11 | 14 | 4 |
| lowa Kansas | _ | 0 | 3 2 | 4 6 | 14 4 | _ | 1 0 | 3 2 | 8 2 | 10 4 | _ | 0 | 4 0 | 2 | 2 1 |
| Minnesota | _ | 0 | 8 | 1 | 11 | _ | 0 | 13 | 2 | 10 | _ | 0 | 9 | 3 | _ |
| Missouri Nebraska† | _ | 0 | 3 3 | 9 1 | 8 8 | 1 | 1 0 | 5 2 | 31 8 | 15 8 | 1 | 0 | 1 1 | 7 1 | |
| North Dakota | _ | 0 | 1 | _ | | _ | 0 | 0 | | _ | _ | 0 | 1 | _ | _ |
| South Dakota | — | 0 | 1 | — | 1 | — | 0 | 1 | _ | 1 | — | 0 | 1 | 1 | — |
| S. Atlantic Delaware | 4 | 7 0 | 14 1 | 117 5 | 174 2 | 10 U | 16 1 | 39 2 | 293 U | 363 U | 4 U | 3 0 | 8 0 | 59 U | 83 U |
| District of Columbia | _ | 0 | 1 | | | | 0 | 2 | | 4 | | 0 | 1 | | |
| Florida | 3 | 3 1 | 8 3 | 44 | 83 | 5 2 | 5 3 | 11 7 | 117 | 124 | 3 | 1 | 4 | 22 | 10 |
| Georgia Maryland† | _ | 0 | 3 4 | 16 9 | 13 18 | 2 1 | 3 1 | 6 | 58 23 | 55 42 | 1 | 0 1 | 2 3 | 4 12 | 19 17 |
| North Carolina | — | 0 | 3 | 11 | 31 | — | 1 | 4 | 4 | 53 | — | 0 | 4 | 9 | 17 |
| South Carolina [†] Virginia [†] | 1 | 1 | 4 3 | 18 13 | 15 12 | 2 | 1 2 | 4 14 | 15 40 | 16 34 | _ | 0 | 0 2 | 6 | 1 6 |
| West Virginia | _ | 0 | 2 | 1 | _ | _ | 0 | 19 | 25 | 21 | — | 0 | 3 | 6 | 13 |
| E.S. Central | _ | 1 | 3 | 16 | 20 | 2 | 7 | 13 | 103 | 156 | 2 | 2 | 6 | 49 | 42 |
| Alabama [†] Kentucky | _ | 0 | 2 2 | 4 9 | 3 1 | 1 | 1 2 | 5 6 | 23 34 | 45 34 | 1 | 0 1 | 2 5 | 1 36 | 5 23 |
| Mississippi | — | 0 | 2 | _ | 11 | | 0 | 5 | 8 | 20 | | 0 | 0 | _ | _ |
| Tennessee [†] | | 0 | 2 19 | 3 | 5 | 1 5 | 2 | 6 | 38 | 57 | 1 | 0 | 3 | 12 | 14 |
| W.S. Central Arkansas [†] | 3 | 3 0 | 3 | 52 | 67 4 | | 10 0 | 109 4 | 131 3 | 208 21 | _ | 0 | 14 1 | 20 | 18 1 |
| Louisiana | — | 0 | 1 | 3 | 1 | — | 1 | 5 | 16 | 23 | — | 0 | 1 | 2 | 4 |
| Oklahoma Texas [†] | 3 | 0 2 | 3 18 | 49 | 1 61 | 4 | 1 6 | 19 87 | 25 87 | 43 121 | _ | 0 | 12 4 | 9 9 | 2 11 |
| Mountain | 1 | 3 | 8 | 56 | 52 | 2 | 2 | 6 | 34 | 54 | _ | 1 | 4 | 16 | 21 |
| Arizona | — | 1 | 5 | 31 | 18 | — | 0 | 3 | 11 | 23 | — | 0 | 0 | | |
| Colorado Idaho [†] | 1 | 1 | 4 | 9 3 | 16 | 1 | 0 | 2 2 | 1 4 | 11 2 | _ | 0 | 3 2 | 2 6 | 12 1 |
| Montana [†] | _ | 0 | 1 | 3 | 3 | _ | 0 | 1 | _ | — | _ | 0 | 1 | _ | 1 |
| Nevada [†] New Mexico [†] | _ | 0 | 2 1 | 6 3 | 7 5 | 1 | 1 0 | 3 1 | 14 2 | 8 4 | _ | 0 | 1 2 | 1 5 | 1 4 |
| Utah | _ | 0 | 2 | 1 | 3 | _ | 0 | 1 | 2 | 4 | _ | 0 | 1 | 2 | 2 |
| Wyoming [†] | — | 0 | 1 | — | — | — | 0 | 1 | _ | 2 | — | 0 | 0 | — | — |
| Pacific Alaska | 8 | 5 0 | 16 0 | 88 | 134 3 | 2 | 6 0 | 20 1 | 101 1 | 129 2 | 1 | 1 0 | 6 2 | 24 | 30 |
| California | 7 | 4 | 15 | 73 | 3 100 | _ | 4 | 16 | 72 | 93 | 1 | 1 | 2 4 | 8 | 14 |
| Hawaii | — | 0 | 2 | | 6 | — | 0 | 1 | _ | 3 | — | 0 | 0 | _ | |
| Oregon Washington | 1 | 0 | 2 4 | 8 7 | 6 19 | 2 | 1 0 | 4 4 | 15 13 | 16 15 | _ | 0 0 | 3 6 | 9 7 | 8 8 |
| American Samoa | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| C.N.M.I. | _ | _ | _ | | _ | _ | | _ | | _ | _ | | | | _ |
| Guam Puerto Rico | _ | 0 0 | 6 2 | 10 2 | 13 | _ | 1 0 | 6 5 | 22 7 | 11 | _ | 1 0 | 5 0 | 19 | _ |
| 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 reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. † Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| | | | egionellos | is | | | | me disease | 5 | | | | Aalaria | | |
|--|---------|----------|------------|----------|-----------|-----------|-----------|------------|--------------|--------------|---------|------------|---------|---------|-----------|
| | Current | Previous | 52 weeks | Cum | Cum | Current - | Previous | 52 weeks | Cum | Cum | Current | Previous 5 | 2 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | 29 | 58 | 174 | 614 | 641 | 138 | 431 | 2,336 | 3,561 | 5,264 | 13 | 26 | 87 | 358 | 413 |
| New England | 1 | 3 | 18 | 20 | 25 | 32 | 118 | 853 | 624 | 1,899 | _ | 1 | 4 | 4 | 16 |
| Connecticut | 1 | 1 | 5 | 10 | 6 | 2 | 34 | 295 | 232 | 817 | _ | 0 | 3 | 1 | 1 |
| Maine [†] Massachusetts | _ | 0 | 3 9 | 2 | 17 | 29 | 13 35 | 76 397 | 142 | 63 701 | _ | 0 0 | 1 | 1 | 11 |
| New Hampshire | _ | 0 | 3 | 2 | | _ | 18 | 95 | 206 | 262 | _ | 0 | 1 | 1 | 1 |
| Rhode Island [†] | _ | 0 | 4 | 5 | 1 | | 1 | 29 | 10 | 15 | _ | 0 | 1 | 1 | 2 |
| Vermont [†] | _ | 0 | 1 | 1 | 1 | 1 | 5 | 45 | 34 | 41 | _ | 0 | 1 | 1 | 1 |
| Mid. Atlantic New Jersey | 6 | 18 3 | 73 14 | 139 | 167 32 | 76 | 199 39 | 999 429 | 1,999 437 | 1,994 790 | 3 | 7 1 | 17 5 | 96 | 116 31 |
| New York (Upstate) | 1 | 5 | 29 | 45 | 55 | 55 | 53 | 577 | 459 | 515 | 3 | 1 | 4 | 26 | 17 |
| New York City | _ | 3 | 19 | 30 | 20 | | 13 | 58 | 2 | 174 | _ | 3 | 12 | 49 | 53 |
| Pennsylvania | 5 | 6 | 25 | 64 | 60 | 21 | 66 | 475 | 1,101 | 515 | — | 1 | 4 | 21 | 15 |
| E.N. Central | 4 | 11 | 41 | 105 | 133 | — | 21 | 258 | 64 | 322 | 2 | 2 | 12 | 36 | 52 |
| Illinois Indiana | _ | 1 | 11 5 | 7 8 | 19 16 | _ | 1 1 | 12 6 | 5 9 | 16 12 | _ | 1 0 | 6 4 | 17 2 | 23 8 |
| Michigan | _ | 3 | 13 | 27 | 20 | _ | 1 | 9 | 4 | 4 | _ | 0 | 3 | 4 | 6 |
| Ohio | 4 | 5 | 17 | 61 | 59 | _ | 1 | 5 | 5 | 4 | 2 | 0 | 6 | 13 | 13 |
| Wisconsin | _ | 0 | 6 | 2 | 19 | _ | 18 | 239 | 41 | 286 | _ | 0 | 2 | _ | 2 |
| W.N. Central | 1 | 2 | 19 | 24 | 22 | _ | 4 | 1,395 | 11 | 49 | _ | 1 | 11 | 21 | 19 |
| lowa Kansas | _ | 0 0 | 3 1 | 2 2 | 8 3 | _ | 0 0 | 15 2 | 4 | 13 7 | _ | 0 0 | 1 1 | 6 3 | 4 1 |
| Minnesota | _ | 0 | 16 | 9 | _ | _ | 0 | 1,380 | _ | 26 | _ | 0 | 11 | 3 | 9 |
| Missouri | 1 | 1 | 5 | 7 | 6 | _ | 0 | 1 | 1 | 1 | _ | 0 | 1 | 3 | 3 |
| Nebraska [†] | — | 0 | 2 | 2 | 4 | _ | 0 | 3 | 3 | 1 | _ | 0 | 2 | 6 | 1 |
| North Dakota South Dakota | _ | 0 0 | 1 | 2 | 1 | _ | 0 0 | 15 0 | _ | 1 | _ | 0 0 | 1 0 | _ | 1 |
| S. Atlantic | 6 | 11 | 24 | 136 | 136 | 28 | 68 | 255 | 744 | 912 | 5 | 6 | 15 | 101 | 130 |
| Delaware | _ | 0 | 5 | 5 | 1 | 2 | 12 | 65 | 193 | 206 | _ | 0 | 1 | 2 | 1 |
| District of Columbia | _ | 0 | 5 | 2 | 5 | | 0 | 7 | 3 | 9 | _ | 0 | 3 | 5 | 5 |
| Florida | 3 | 4 | 10 | 60 | 53 | 1 | 2 | 11 | 26 | 11 | 2 | 2 | 7 | 45 | 34 |
| Georgia Maryland† | 3 | 1 | 4 12 | 17 30 | 19 25 | 19 | 0 27 | 6 134 | 3 334 | 10 475 | 1 | 0 | 6 13 | 2 21 | 24 35 |
| North Carolina | _ | 0 | 5 | 2 | 19 | _ | 1 | 7 | 12 | 31 | _ | 0 | 3 | 5 | 14 |
| South Carolina [†] | _ | 0 | 2 | 1 | 2 | _ | 1 | 3 | 10 | 11 | _ | 0 | 1 | 1 | 1 |
| Virginia [†] West Virginia | _ | 1 0 | 6 2 | 17 2 | 12 | 6 | 13 0 | 79 33 | 149 14 | 126 33 | 2 | 1 0 | 5 2 | 20 | 15 1 |
| E.S. Central | 4 | 2 | 12 | 27 | 33 | _ | 1 | 4 | 14 | 7 | _ | 0 | 4 | 6 | 14 |
| Alabama [†] | _ | 0 | 2 | 3 | 6 | _ | 0 | 1 | | , 1 | _ | 0 | 3 | 1 | 3 |
| Kentucky | _ | 1 | 3 | 8 | 13 | _ | 0 | 1 | 1 | 1 | _ | 0 | 3 | 2 | 4 |
| Mississippi | _ | 0 | 4 | 2 | 1 | — | 0 | 0 | | _ | — | 0 | 2 | _ | _ |
| Tennessee [†] | 4 | 1 | 9 | 14 | 13 | _ | 1 | 4 | 11 | 5 | 1 | 0 | 1 | 3 | 7 |
| W.S. Central Arkansas [†] | 3 | 2 0 | 14 1 | 27 1 | 34 3 | _ | 4 0 | 44 0 | 18 | 24 | 1 | 0 | 31 1 | 41 1 | 11 |
| Louisiana | _ | 0 | 3 | 1 | 3 | _ | 0 | 0 | _ | _ | _ | 0 | 1 | _ | 3 |
| Oklahoma | 3 | 0 | 4 | 3 | 1 | _ | 0 | 2 | _ | _ | 1 | 0 | 1 | 3 | _ |
| Texas [†] | _ | 1 | 10 | 22 | 27 | — | 4 | 42 | 18 | 24 | — | 1 | 30 | 37 | 8 |
| Mountain | 1 | 3 | 8 4 | 37 | 37 14 | — | 1 0 | 4 | 5 | 12 | _ | 1 | 6 | 13 | 11 |
| Arizona Colorado | _ | 1 0 | 4 | 14 2 | 4 | _ | 0 | 1 | 1 | 1 | _ | 0 0 | 2 3 | 6 1 | 1 8 |
| ldaho [†] | _ | Ő | 2 | | 1 | _ | Ő | 3 | 2 | 3 | _ | 0 | 1 | | _ |
| Montana [†] | _ | 0 | 1 | 1 | 4 | _ | 0 | 1 | _ | 1 | _ | 0 | 3 | 1 | _ |
| Nevada [†] New Mexico [†] | 1 | 0 | 2 | 11 | 6 | — | 0 0 | 2 1 | 1 | 4 | — | 0 | 1 0 | 2 | — |
| Utah | _ | 0 | 2 4 | 2 6 | 1 6 | _ | 0 | 1 | 1 | 3 | _ | 0 0 | 1 | 3 | 2 |
| Wyoming [†] | _ | Ő | 2 | 1 | 1 | _ | Ő | 1 | _ | _ | _ | Ő | 0 | _ | _ |
| Pacific | 3 | 4 | 19 | 99 | 54 | 2 | 4 | 10 | 84 | 45 | 2 | 2 | 19 | 40 | 44 |
| Alaska | | 0 | 0 | | 1 | | 0 | 1 | 1 | 2 | | 0 | 1 | 2 | 1 |
| California Hawaii | 3 | 3 0 | 19 0 | 91 | 46 1 | 2 N | 3 0 | 9 0 | 56 N | 27 N | 1 | 2 0 | 13 0 | 28 | 32 1 |
| Oregon | _ | 0 | 3 | 1 | 3 | | 1 | 4 | 26 | 14 | _ | 0 | 1 | 3 | 6 |
| Washington | _ | 0 | 4 | 7 | 3 | _ | 0 | 3 | 1 | 2 | 1 | 0 | 5 | 7 | 4 |
| American Samoa | — | 0 | 0 | _ | — | Ν | 0 | 0 | Ν | Ν | — | 0 | 0 | — | _ |
| C.N.M.I. | — | | | — | — | — | | _ | — | — | — | _ | | — | _ |
| Guam Puerto Rico | _ | 0 0 | 0 1 | _ | _ | N | 0 0 | 0 0 | N | N | _ | 0 0 | 0 2 | 1 | 1 |
| | | 0 | 0 | | | | 0 | 0 | | | _ | 0 | 0 | | |

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 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 May 22, 2010, and May 23, 2009 (20th week)*

| | I | Meningoco | ccal disea All groups | | e [†] | | | Pertussis | | | | Rabi | es, animal | | |
|---|---------|-----------|--------------------------|---------|----------------|---------|----------|-----------|-----------|------------|---------|------------|------------|----------|------------|
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum | Current | Previous 5 | 52 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | 5 | 16 | 43 | 310 | 457 | 93 | 270 | 1,748 | 3,488 | 5,080 | 25 | 77 | 147 | 926 | 1,952 |
| New England | _ | 0 | 2 | 4 | 16 | _ | 7 | 23 | 29 | 250 | 3 | 5 | 24 | 92 | 121 |
| Connecticut | _ | 0 | 2 | _ | 2 | _ | 1 | 4 | 14 | 14 | _ | 1 | 22 | 43 | 49 |
| Maine [§] Massachusetts | _ | 0 0 | 1 | 1 | 2 9 | _ | 0 4 | 10 12 | 5 | 35 161 | 2 | 1 0 | 4 0 | 24 | 20 |
| New Hampshire | _ | 0 | 1 | _ | 1 | _ | 1 | 6 | 3 | 26 | _ | 0 | 3 | 3 | 13 |
| Rhode Island [§] | _ | 0 | 1 | _ | 1 | — | 0 | 8 | 4 | 8 | _ | 0 | 5 | 3 | 13 |
| Vermont [§] | — | 0 | 1 | 3 | 1 | | 0 | 1 | 3 | 6 | 1 | 1 | 5 | 19 | 26 |
| Mid. Atlantic New Jersey | _ | 2 0 | 4 2 | 30 8 | 50 6 | 4 | 20 3 | 42 10 | 232 29 | 441 97 | 11 | 10 0 | 23 0 | 231 | 231 |
| New York (Upstate) | _ | 0 | 3 | 6 | 11 | 2 | 5 | 27 | 94 | 68 | 11 | 9 | 22 | 171 | 129 |
| New York City | _ | 0 | 2 | 7 | 10 | _ | 0 | 11 | 3 | 35 | — | 0 | 11 | 60 | 2 |
| Pennsylvania | _ | 0 | 2 | 9 | 23 | 2 | 9 | 22 | 106 | 241 | _ | 0 | 0 | _ | 100 |
| E.N. Central | _ | 2 | 7 | 44 | 78 | 34 | 56 | 105 | 882 | 1,014 | 5 | 2 | 19 | 33 | 43 |
| Illinois Indiana | _ | 0 0 | 4 2 | 7 11 | 20 19 | _ | 9 6 | 29 16 | 122 60 | 253 122 | 1 | 1 0 | 9 7 | 15 | 16 11 |
| Michigan | _ | 0 | 5 | 7 | 12 | 4 | 17 | 41 | 280 | 215 | 3 | 1 | 6 | 12 | 14 |
| Ohio | _ | 1 | 2 | 16 | 19 | 30 | 19 | 49 | 415 | 369 | 1 | 0 | 5 | 6 | 2 |
| Wisconsin | _ | 0 | 1 | 3 | 8 | _ | 2 | 12 | 5 | 55 | _ | 0 | 0 | | _ |
| W.N. Central | 1 | 1 | 6 | 20 | 35 | 6 | 26 | 627 | 262 | 886 | 4 | 6 | 18 | 78 | 138 |
| lowa Kansas | _ | 0 0 | 2 2 | 3 1 | 4 6 | _ | 4 3 | 12 12 | 71 45 | 77 85 | _ | 0 1 | 4 4 | 22 | 9 40 |
| Minnesota | _ | Ő | 2 | 2 | 8 | _ | 0 | 601 | 6 | 168 | _ | 0 | 9 | 13 | 18 |
| Missouri | 1 | 0 | 3 | 9 | 12 | 1 | 12 | 35 | 104 | 463 | 3 | 1 | 5 | 18 | 14 |
| Nebraska [§] | _ | 0 | 2 | 5 | 3 | 5 | 2 | 5 | 33 | 82 | 1 | 1 | 6 | 22 | 36 |
| North Dakota South Dakota | _ | 0 0 | 1 2 | _ | 2 | _ | 0 0 | 12 6 | 3 | 2 9 | _ | 0 | 7 4 | 3 | 4 17 |
| S. Atlantic | 1 | 2 | 7 | 65 | 92 | 12 | 22 | 63 | 331 | 547 | 1 | 31 | 58 | 368 | 903 |
| Delaware | | 0 | 1 | 1 | 2 | | 0 | 2 | | 6 | _ | 0 | 0 | | _ |
| District of Columbia | _ | 0 | 0 | _ | — | _ | 0 | 1 | 2 | 3 | _ | 0 | 0 | _ | _ |
| Florida | 1 | 1 | 5 | 35 | 28 | 6 | 6 | 29 | 84 | 182 | — | 0 | 21 | 38 | 161 |
| Georgia Maryland [§] | _ | 0 0 | 2 1 | 6 2 | 16 4 | 4 2 | 3 | 8 8 | 71 43 | 106 46 | _ | 5 7 | 14 15 | 130 | 173 137 |
| North Carolina | _ | 0 | 2 | 5 | 24 | | 1 | 9 | | 83 | _ | 6 | 17 | - 150 | 187 |
| South Carolina [§] | _ | 0 | 1 | 5 | 6 | _ | 4 | 18 | 82 | 55 | — | 0 | 0 | — | — |
| Virginia [§] | — | 0 0 | 2 | 10 | 8 4 | — | 4 0 | 15 | 42 7 | 61 5 | 1 | 10 | 26 6 | 171 | 206 |
| West Virginia | 1 | 0 | 2 4 | 1 17 | 4 19 | 4 | 15 | 6 31 | 276 | 312 | 1 | 2 | 7 | 29 46 | 39 60 |
| E.S. Central Alabama [§] | _ | 0 | 4 | 4 | 4 | 4 | 5 | 17 | 276 66 | 97 | _ | 0 | 4 | 40 14 | |
| Kentucky | 1 | 0 | 2 | 6 | 3 | 2 | 4 | 15 | 112 | 92 | 1 | 0 | 2 | 3 | 24 |
| Mississippi | _ | 0 | 2 | 2 | 4 | _ | 2 | 12 | 18 | 55 | — | 0 | 2 | — | 2 |
| Tennessee [§] | _ | 0 | 2 | 5 | 8 | 2 | 4 | 10 | 80 | 68 | — | 0 | 6 | 29 | 34 |
| W.S. Central | 1 | 1 | 9 | 37 | 37 | 23 | 70 | 754 | 987 | 854 | — | 10 | 40 | 10 | 327 |
| Arkansas [§] Louisiana | _ | 0 0 | 2 3 | 3 8 | 5 9 | 1 | 5 1 | 30 10 | 30 9 | 99 75 | _ | 0 | 10 0 | 6 | 11 |
| Oklahoma | _ | 0 | 7 | 12 | 2 | _ | 0 | 41 | 5 | 11 | _ | 0 | 15 | 4 | 4 |
| Texas§ | 1 | 1 | 7 | 14 | 21 | 22 | 61 | 681 | 943 | 669 | — | 9 | 30 | _ | 312 |
| Mountain | _ | 1 | 4 | 24 | 39 | 6 | 17 | 41 | 294 | 408 | _ | 2 | 8 | 15 | 42 |
| Arizona | _ | 0 | 2 | 7 | 7 | 1 | 6 | 12 | 110 | 73 | — | 0 | 5 | _ | _ |
| Colorado Idaho [§] | _ | 0 0 | 3 1 | 6 3 | 11 5 | 5 | 3 1 | 13 19 | 42 60 | 106 39 | _ | 0 0 | 0 2 | 1 | _ |
| Montana [§] | _ | 0 | 2 | 1 | 5 | _ | 1 | 6 | 7 | 10 | _ | 0 | 4 | _ | 13 |
| Nevada [§] | _ | 0 | 1 | 4 | 3 | _ | 0 | 6 | 2 | 6 | — | 0 | 1 | — | _ |
| New Mexico [§] | _ | 0 | 1 | 2 | 3 | _ | 1 | 6 | 29 | 30 | — | 0 | 3 | 4 | 15 |
| Utah Wyoming [§] | _ | 0 0 | 1 | 1 | 1 4 | _ | 3 0 | 6 3 | 43 1 | 127 17 | _ | 0 | 2 3 | 10 | 1 13 |
| Pacific | 1 | 3 | 16 | 69 | 91 | 4 | 25 | 186 | 195 | 368 | _ | 4 | 12 | 53 | 87 |
| Alaska | | 0 | 2 | | 3 | _ | 0 | 4 | 11 | 26 | _ | 0 | 2 | 11 | 16 |
| California | — | 2 | 13 | 48 | 57 | — | 11 | 162 | 27 | 137 | — | 3 | 11 | 38 | 71 |
| Hawaii | — | 0 | 2 | | 3 | _ | 0 | 4 | | 13 | — | 0 | 0 | _ | — |
| Oregon Washington | 1 | 0 0 | 5 7 | 12 9 | 19 9 | 2 2 | 5 5 | 12 24 | 104 53 | 86 106 | _ | 0 | 2 0 | 4 | _ |
| American Samoa | _ | 0 | 0 | | | | 0 | 24 | | | N | 0 | 0 | N | N |
| American Samoa C.N.M.I. | _ | | _ | _ | _ | _ | | _ | _ | _ | | _ | | | |
| Guam | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | | _ | 0 | 0 | _ | _ |
| Puerto Rico | _ | 0 | 1 | _ | _ | — | 0 | 0 | _ | 1 | _ | 1 | 3 | 19 | 20 |
| U.S. Virgin Islands | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 0 | — | — |

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

Commonwealth of Northern Mariada Islands.
 U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
 * Incidence data for reporting years 2009 and 2010 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).

| | | S | almonello | sis | | Shig | a toxin-pi | oducing E | . coli (STEC | :)† | | Sh | igellosis | | |
|---|---------|----------|-----------|--------------|--------------|-----------|------------|-----------|--------------|----------|---------|------------|-----------|-----------|------------|
| | Current | Previous | 52 weeks | Cum | Cum | Current - | Previous | 52 weeks | Cum | Cum | Current | Previous 5 | 52 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | 422 | 973 | 1,525 | 9,617 | 13,205 | 38 | 83 | 194 | 821 | 1,220 | 207 | 278 | 523 | 4,329 | 6,046 |
| New England | 3 | 24 | 140 | 260 | 1,067 | _ | 2 | 30 | 28 | 120 | _ | 3 | 28 | 26 | 111 |
| Connecticut Maine [§] | 2 | 0 | 135 7 | 135 27 | 430 | _ | 0 0 | 14 3 | 14 3 | 67 8 | _ | 0 0 | 15 | 15 3 | 43 |
| Massachusetts | | 2 16 | 47 | | 40 379 | _ | 1 | 5 | | 28 | _ | 2 | 2 27 | | 2 54 |
| New Hampshire | _ | 3 | 9 | 48 | 149 | _ | 1 | 3 | 9 | 12 | _ | 0 | 5 | 3 | 2 |
| Rhode Island [§] Vermont [§] | 1 | 2 1 | 11 5 | 33 17 | 49 20 | _ | 0 0 | 26 3 | 2 | 5 | — | 0 0 | 7 1 | 4 | 7 3 |
| Mid. Atlantic | 43 | 84 | 208 | 1,268 | 1,519 | 5 | 7 | 23 | 98 | 131 | 13 | 39 | 90 | 580 | 1,181 |
| New Jersey | | 18 | 47 | 162 | 315 | _ | , 1 | 5 | 5 | 41 | 1 | 6 | 23 | 90 | 304 |
| New York (Upstate) | 24 | 24 | 78 | 345 | 345 | 5 | 3 | 15 | 45 | 33 | 7 | 4 | 19 | 66 | 63 |
| New York City Pennsylvania | 19 | 22 29 | 46 67 | 308 453 | 346 513 | _ | 1 2 | 4 8 | 9 39 | 25 32 | 5 | 7 23 | 15 63 | 96 328 | 189 625 |
| E.N. Central | 49 | 76 | 167 | 1,028 | 1,695 | 6 | 10 | 30 | 99 | 220 | 18 | 29 | 233 | 695 | 1,219 |
| Illinois | _ | 25 | 52 | 338 | 493 | _ | 2 | 6 | 10 | 73 | _ | 9 | 227 | 501 | 290 |
| Indiana | _ | 10 | 30 | 36 | 162 | _ | 1 | 10 | 9 | 26 | _ | 1 | 5 | 7 | 32 |
| Michigan Ohio | 2 47 | 15 24 | 34 52 | 211 409 | 355 462 | 2 4 | 2 2 | 7 11 | 38 36 | 35 36 | 18 | 4 9 | 10 46 | 66 109 | 109 597 |
| Wisconsin | — | 11 | 30 | 34 | 223 | _ | 2 | 11 | 6 | 50 | | 4 | 23 | 12 | 191 |
| W.N. Central | 22 | 45 | 94 | 646 | 895 | 5 | 10 | 39 | 147 | 144 | 65 | 42 | 88 | 1,045 | 274 |
| lowa | 1 | 7 | 16 | 95 | 140 | 1 | 2 | 14 | 22 | 34 | _ | 0 | 5 | 18 | 38 |
| Kansas Minnesota | 3 | 7 10 | 20 32 | 99 177 | 110 206 | 1 | 1 2 | 5 17 | 12 31 | 18 31 | _4 | 4 | 14 6 | 84 14 | 84 26 |
| Missouri | 13 | 13 | 29 | 203 | 161 | 2 | 2 | 27 | 66 | 35 | 61 | 35 | 75 | 919 | 113 |
| Nebraska [§] | 5 | 4 | 12 | 57 | 169 | 2 | 1 | 6 | 15 | 23 | _ | 0 | 3 | 10 | 10 |
| North Dakota South Dakota | _ | 0 1 | 39 9 | 8 7 | 12 97 | _ | 0 0 | 7 12 | 1 | 1 2 | _ | 0 0 | 5 1 | _ | 1 2 |
| S. Atlantic | 133 | 286 | 503 | 2,719 | 2,942 | 10 | 12 | 22 | 156 | 217 | 46 | 40 | 73 | 634 | 888 |
| Delaware | _ | 2 | 9 | 27 | 23 | _ | 0 | 2 | 1 | 5 | _ | 3 | 10 | 31 | 26 |
| District of Columbia Florida | 69 | 2 132 | 6 277 | 23 | 37 | 3 | 0 3 | 1 7 | 2 60 | 1 63 | — 19 | 0 11 | 3 18 | 11 240 | 12 167 |
| Georgia | 30 | 42 | 105 | 1,317 422 | 1,249 499 | 1 | 5 1 | 4 | 18 | 21 | 19 | 12 | 23 | 240 | 235 |
| Maryland [§] | 12 | 15 | 32 | 229 | 240 | 3 | 1 | 6 | 21 | 27 | 1 | 4 | 17 | 35 | 146 |
| North Carolina South Carolina [§] | 6 | 34 16 | 90 66 | 230 179 | 374 210 | _ | 1 0 | 5 3 | 4 5 | 47 10 | 2 | 2 1 | 26 6 | 15 28 | 166 61 |
| Virginia [§] | 11 | 10 | 68 | 229 | 260 | 3 | 3 | 13 | 42 | 36 | 6 | 3 | 15 | 28 44 | 70 |
| West Virginia | 5 | 4 | 23 | 63 | 50 | — | 0 | 5 | 3 | 7 | _ | 0 | 2 | 1 | 5 |
| E.S. Central | 15 | 58 | 153 | 527 | 924 | 1 | 4 | 10 | 46 | 72 | 5 | 13 | 43 | 189 | 382 |
| Alabama [§] Kentucky | 1 7 | 14 7 | 40 18 | 151 111 | 237 149 | _ | 1 | 4 4 | 11 5 | 11 21 | 4 | 2 3 | 10 22 | 22 83 | 74 94 |
| Mississippi | _ | 25 | 87 | 98 | 342 | 1 | 0 | 1 | 7 | 12 | _ | 1 | 8 | 11 | 24 |
| Tennessee§ | 7 | 14 | 33 | 167 | 196 | _ | 1 | 8 | 23 | 28 | 1 | 5 | 15 | 73 | 190 |
| W.S. Central | 42 | 110 | 546 | 898 | 1,297 | 1 | 5 | 68 | 38 | 80 | 37 | 47 | 250 | 690 | 1,150 |
| Arkansas [§] Louisiana | 2 | 9 21 | 25 46 | 54 206 | 146 266 | _ | 0 0 | 4 3 | 5 4 | 8 11 | 1 | 4 3 | 15 7 | 12 60 | 121 88 |
| Oklahoma | 13 | 10 | 46 | 117 | 166 | 1 | 0 | 27 | 2 | 6 | 12 | 6 | 96 | 123 | 73 |
| Texas [§] | 27 | 59 | 477 | 521 | 719 | — | 3 | 41 | 27 | 55 | 24 | 35 | 144 | 495 | 868 |
| Mountain | 10 | 50 | 133 | 711 | 954 | 3 | 7 | 26 | 94 | 130 | 1 | 15 | 48 | 178 | 411 |
| Arizona Colorado | 1 | 18 11 | 50 33 | 238 193 | 333 193 | _ | 1 2 | 4 11 | 21 16 | 15 60 | 1 | 11 2 | 42 6 | 93 28 | 281 33 |
| Idaho [§] | 3 | 3 | 10 | 44 | 58 | 1 | 1 | 7 | 13 | 12 | _ | 0 | 1 | 5 | 2 |
| Montana [§] | 1 | 2 | 7 | 34 | 47 | | 0 | 7 | 15 | 6 | — | 0 | 1 | 4 | 11 |
| Nevada [§] New Mexico [§] | 4 | 4 5 | 13 40 | 65 73 | 96 92 | 2 | 0 1 | 4 3 | 9 10 | 7 13 | _ | 1 | 7 9 | 11 33 | 28 46 |
| Utah | _ | 5 | 14 | 49 | 111 | _ | 1 | 11 | 9 | 16 | _ | 0 | 4 | 4 | 10 |
| Wyoming [§] | 1 | 1 | 9 | 15 | 24 | — | 0 | 2 | 1 | 1 | — | 0 | 2 | — | _ |
| Pacific | 105 | 122 | 299 | 1,560 | 1,912 | 7 | 9 | 46 | 115 | 106 | 22 | 21 | 64 | 292 | 430 |
| Alaska California | 63 | 1 92 | 7 227 | 29 1,116 | 21 1,457 | 2 | 0 5 | 0 35 | 60 | 69 | 20 | 0 16 | 2 51 | 246 | 1 335 |
| Hawaii | — | 4 | 62 | · _ | 86 | _ | 0 | 2 | — | 3 | | 0 | 4 | _ | 9 |
| Oregon | 4 | 9 | 45 | 224 | 143 | | 1 | 11 | 11 | 9 | | 1 | 5 | 22 | 22 |
| Washington | 38 | 14 1 | 61 1 | 191 1 | 205 | 5 | 3 0 | 19 0 | 44 | 25 | 2 | 2 1 | 9 1 | 24 1 | 63 3 |
| American Samoa C.N.M.I. | _ | | _ | | _ | _ | | | _ | _ | _ | _ | _ | - - | |
| Guam | _ | 0 | 1 | 1 | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Puerto Rico | — | 8 | 39 | 67 | 194 | — | 0 | 0 | — | — | — | 0 | 1 | — | 5 |
| 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 reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. † Includes *E. coli* 0157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| | | | | Spott | ed Fever Ricketts | iosis (including RN | ISF) [†] | | | |
|---|---------|----------|-----------|-------|-------------------|---------------------|-------------------|----------|---------|----------|
| | | | Confirmed | | | | | Probable | | |
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | _ | 2 | 12 | 16 | 31 | 15 | 11 | 354 | 135 | 305 |
| New England | _ | 0 | 1 | _ | _ | _ | 0 | 1 | 1 | 4 |
| Connecticut Maine [§] | _ | 0 | 0 | _ | — | _ | 0 | 0 1 | 1 | 3 |
| Massachusetts | | 0 | 1 | | _ | | 0 | 1 | | 1 |
| New Hampshire | _ | 0 | 0 | _ | _ | _ | 0 | 1 | _ | _ |
| Rhode Island [§] Vermont [§] | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| | _ | 0 | 1 | _ | _ | — | 0 | 0 | — | — |
| Mid. Atlantic New Jersey | _ | 0 | 2 1 | 3 | _ | _ | 1 0 | 7 4 | 11 | 24 18 |
| New York (Upstate) | _ | 0 | 1 | _ | _ | _ | 0 | 3 | 2 | 1 |
| New York City | — | 0 | 1 | _ | — | — | 0 | 2 | 7 | 2 |
| Pennsylvania | — | 0 | 2 | 3 | _ | — | 0 | 2 | 2 | 3 |
| E.N. Central Illinois | _ | 0 | 1 | _ | 3 | _ | 0 0 | 7 6 | _ | 22 12 |
| Indiana | _ | 0 | 1 | _ | 2 | _ | 0 | 2 | _ | 1 |
| Michigan | — | 0 | 1 | — | 1 | — | 0 | 1 | — | _ |
| Ohio Wisconsin | _ | 0 | 0 1 | _ | _ | _ | 0 0 | 4 1 | _ | 8 1 |
| | — | | | | | | | | | |
| W.N. Central lowa | _ | 0 | 3 1 | 1 | 3 | 4 | 2 0 | 23 1 | 33 | 41 2 |
| Kansas | _ | 0 | 1 | _ | _ | _ | Ő | 0 | _ | _ |
| Minnesota | — | 0 | 1 | _ | _ | | 0 | 1 | | |
| Missouri Nebraska [§] | _ | 0 | 1 2 | 1 | 1 2 | 4 | 2 0 | 22 1 | 33 | 39 |
| North Dakota | _ | Ő | 0 | _ | _ | _ | Ő | 0 | _ | _ |
| South Dakota | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| S. Atlantic | _ | 1 | 7 | 9 | 20 | 3 | 3 | 31 | 50 | 125 |
| Delaware District of Columbia | _ | 0 | 1 0 | 1 | _ | _ | 0 0 | 3 1 | 5 | 3 |
| Florida | _ | 0 | 1 | 1 | _ | 1 | 0 | 1 | 3 | 1 |
| Georgia | — | 0 | 6 | 5 | 18 | _ | 0 | 0 | — | — |
| Maryland [§] | — | 0 | 1 | 1 | _ | — | 0 | 3 | 3 | 18 |
| North Carolina South Carolina [§] | _ | 0 0 | 2 1 | 1 | 1 1 | _ | 2 0 | 23 1 | 27 2 | 74 12 |
| Virginia [§] | _ | Ő | 1 | _ | _ | 2 | 0 | 5 | 10 | 17 |
| West Virginia | _ | 0 | 0 | — | _ | _ | 0 | 1 | — | — |
| E.S. Central | — | 0 | 2 | 2 | 1 | 1 | 3 | 16 | 27 | 65 |
| Alabama [§] Kentucky | — | 0 0 | 1 1 | 1 | _ | _ | 1 0 | 7 0 | 5 | 10 |
| Mississippi | _ | 0 | 0 | _ | 1 | _ | 0 | 4 | _ | 4 |
| Tennessee [§] | — | 0 | 2 | 1 | — | 1 | 2 | 13 | 22 | 51 |
| W.S. Central | _ | 0 | 3 | 1 | _ | 6 | 1 | 346 | 12 | 17 |
| Arkansas ^s | — | 0 | 0 | — | — | | 0 | 48 | — | 2 |
| Louisiana Oklahoma | _ | 0 0 | 0 3 | _ | _ | 6 | 0 0 | 1 287 | 8 | 1 3 |
| Texas [§] | _ | 0 | 1 | 1 | _ | _ | Ő | 11 | 4 | 11 |
| Mountain | _ | 0 | 2 | _ | 3 | 1 | 0 | 3 | 1 | 7 |
| Arizona | _ | 0 | 2 | _ | 1 | _ | 0 | 2 | _ | 2 |
| Colorado Idaho [§] | _ | 0 0 | 1 0 | _ | _ | 1 | 0 0 | 0 1 | 1 | _ |
| Montana [§] | _ | 0 | 1 | _ | 2 | — | 0 | 1 | — | 3 |
| Nevada [§] | _ | 0 | 0 | _ | _ | _ | 0 | 1 | _ | _ |
| New Mexico [§] Utah | _ | 0 0 | 0 0 | _ | _ | _ | 0 0 | 0 | _ | 1 |
| Wyoming [§] | _ | 0 | 1 | _ | _ | _ | 0 | 1 | _ | 1 |
| Pacific | | 0 | 0 | _ | 1 | _ | 0 | 0 | | _ |
| Alaska | N | 0 | 0 | N | Ň | N | 0 | 0 | N | N |
| California | | 0 | 0 | | 1 | | 0 | 0 | | |
| Hawaii Oregon | N | 0 0 | 0 0 | N | N | N | 0 0 | 0 | N | N |
| Washington | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| American Samoa | Ν | 0 | 0 | Ν | Ν | N | 0 | 0 | Ν | Ν |
| C.N.M.I. | — | _ | _ | _ | — | _ | _ | _ | _ | — |
| Guam Buarta Rica | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Puerto Rico | N | 0 | 0 | N | Ν | N | 0 | 0 | Ν | Ν |
| U.S. Virgin Islands | _ | 0 | 0 | _ | | _ | 0 | 0 | | — |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 22, 2010, and May 23, 2009 (20th week)*

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

U: Unavailable. ---: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting years 2009 and 2010 are provisional.

[†] Illnesses with similar clinical presentation that result from Spotted fever group rickettsia infections are reported as Spotted fever rickettsioses. Rocky Mountain spotted fever (RMSF) caused by *Rickettsia rickettsia*, is the most common and well-known spotted fever.

by *Rickettsia rickettsii*, is the most common and well-known spotted fever. [§] Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

All ages Syphilis, primary and secondary Age <5 Previous 52 weeks Previous 52 weeks Previous 52 weeks Current Cum Cum Cum Cum Cum Current Cum Current **Reporting area** week Max Med Max week Med week Med Max 6,522 1,638 1,054 1,179 **United States** 3,735 5,356 New England Connecticut Maine§ б Massachusetts _ New Hampshire ____ Rhode Island[§] _ Vermont[§] Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania E.N. Central Illinois Indiana ____ Michigan Ohio Wisconsin W.N. Central ____ lowa ____ _ Kansas _ Minnesota Missouri Nebraska§ North Dakota South Dakota ____ 1,218 S. Atlantic 1,726 Delaware District of Columbia Florida Georgia Maryland§ North Carolina ____ South Carolina[§] ____ ____ Virginia§ ____ _ West Virginia ____ E.S. Central Alabama ____ _ Kentucky б Mississippi Tennessee§ 1,103 W.S. Central Arkansas ____ Louisiana _ Oklahoma _ _ Texas§ Mountain Arizona Colorado _ Idaho§ _ _ Montana§ ____ _ Nevada§ New Mexico§ _ Utah Wyoming[§] Pacific Alaska California _ Hawaii _ _ ____ Oregon _

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 22, 2010, and May 23, 2009 (20th week)*

Streptococcus pneumoniae,[†] invasive disease

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

Washington

C.N.M.I.

Puerto Rico

Guam

American Samoa

U.S. Virgin Islands

_

_

_

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

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* Incidence data for reporting years 2009 and 2010 are provisional. † Includes drug resistant and susceptible cases of invasive *Streptococcus pneumoniae* disease among children <5 years and among all ages. Case definition: Isolation of *S. pneumoniae* from a normally sterile body site (e.g., blood or cerebrospinal fluid).

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

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TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 22, 2010, and May 23, 2009 (20th week)*

| | Varicella (chickenpox) [§] | | | | | | | | | Vest Nile viru | us uisease' | | | 1 | |
|---|-------------------------------------|----------|----------|--------------------|--------------|---------|------------|-------------|------|----------------|-------------|------------|------------|----------------|------|
| | | | | npox) ^s | | | | uroinvasive | 5 | | | | uroinvasiv | e ¹ | |
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous ! | 52 weeks | Cum | Cum | Current . | Previous 5 | 52 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | 265 | 329 | 772 | 6,481 | 11,657 | _ | 0 | 46 | 1 | 3 | _ | 0 | 49 | — | 4 |
| New England | 4 | 17 | 38 | 288 | 456 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Connecticut Maine [§] | _4 | 7 4 | 23 15 | 119 96 | 227 74 | _ | 0 | 0 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Massachusetts | _ | 0 | 0 | 90 — | 2 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| New Hampshire | _ | 3 | 10 | 53 | 95 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Rhode Island [§] | — | 1 | 12 | 8 | 16 | — | 0 | 0 | — | — | — | 0 | 0 | _ | _ |
| Vermont [§] | _ | 1 | 10 | 12 | 42 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Mid. Atlantic New Jersey | 18 | 32 8 | 72 28 | 648 209 | 1,057 204 | _ | 0 0 | 2 1 | _ | _ | _ | 0 0 | 1 0 | _ | _ |
| New York (Upstate) | Ν | 0 | 0 | N | N | _ | 0 | 1 | _ | _ | _ | 0 | 1 | _ | _ |
| New York City | _ | 0 | 0 | _ | _ | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ |
| Pennsylvania | 18 | 22 | 53 | 439 | 853 | — | 0 | 0 | — | — | — | 0 | 0 | _ | _ |
| E.N. Central | 83 | 106 | 193 | 2,378 | 3,675 | — | 0 | 4 | — | — | — | 0 | 3 | — | _ |
| Illinois Indiana [§] | 5 19 | 26 5 | 49 35 | 628 236 | 927 263 | _ | 0 | 3 1 | _ | _ | _ | 0 | 0 1 | _ | _ |
| Michigan | 15 | 35 | 84 | 770 | 1,023 | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ |
| Ohio | 44 | 28 | 58 | 675 | 1,188 | _ | Ő | 0 | _ | _ | _ | 0 | 2 | _ | _ |
| Wisconsin | _ | 6 | 57 | 69 | 274 | — | 0 | 1 | _ | _ | - | 0 | 0 | — | _ |
| W.N. Central | 7 | 13 | 40 | 251 | 814 | _ | 0 | 5 | _ | — | — | 0 | 11 | _ | 1 |
| lowa Kansas [§] | N | 0 | 0 | N | N | — | 0 | 0 | — | — | — | 0 | 1 | — | — |
| Kansas ^a Minnesota | _ | 5 0 | 18 0 | 90 | 361 | _ | 0 | 1 1 | _ | _ | _ | 0 0 | 2 1 | _ | _ |
| Missouri | 7 | 6 | 24 | 136 | 384 | _ | 0 | 2 | _ | _ | _ | 0 | 1 | _ | _ |
| Nebraska [§] | Ν | 0 | 0 | Ν | Ν | — | 0 | 2 | — | — | — | 0 | 6 | — | _ |
| North Dakota | _ | 0 | 26 | 23 | 38 | — | 0 | 0 | _ | _ | _ | 0 | 1 | _ | _ |
| South Dakota | _ | 0 | 7 | 2 | 31 | _ | 0 | 3 | _ | _ | _ | 0 | 2 | _ | 1 |
| S. Atlantic Delaware [§] | 86 | 36 0 | 123 3 | 983 10 | 1,459 2 | _ | 0 0 | 4 0 | _ | _ | _ | 0 | 2 0 | _ | _ |
| District of Columbia | _ | 0 | 4 | 7 | 20 | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ |
| Florida§ | 57 | 15 | 54 | 533 | 753 | _ | 0 | 1 | _ | _ | _ | 0 | 1 | _ | _ |
| Georgia | N | 0 | 0 | N | N | — | 0 | 1 | — | — | — | 0 | 0 | — | _ |
| Maryland [§] North Carolina | N N | 0 | 0 | N N | N N | _ | 0 | 0 0 | _ | _ | _ | 0 | 1 0 | _ | _ |
| South Carolina [§] | 2 | 0 | 34 | 68 | 88 | _ | 0 | 2 | _ | _ | _ | 0 | 0 | _ | _ |
| Virginia [§] | 12 | 10 | 65 | 162 | 383 | _ | Ő | 2 | _ | _ | _ | Ő | Ő | _ | _ |
| West Virginia | 15 | 8 | 26 | 203 | 213 | — | 0 | 0 | _ | _ | - | 0 | 0 | — | _ |
| E.S. Central | 2 | 6 | 30 | 125 | 312 | _ | 0 | 6 | 1 | — | — | 0 | 4 | _ | _ |
| Alabama ^s | 2 | 6 0 | 27 | 124 | 306 | — | 0 | 0 1 | _ | — | — | 0 | 0 | — | _ |
| Kentucky Mississippi | N | 0 | 0 3 | N 1 | N 6 | _ | 0 | 5 | 1 | _ | _ | 0 | 4 | _ | _ |
| Tennessee [§] | Ν | Ő | 0 | Ň | Ň | _ | Ő | 2 | _ | _ | _ | 0 | 1 | _ | _ |
| W.S. Central | 47 | 73 | 285 | 1,255 | 2,675 | _ | 0 | 19 | _ | 2 | _ | 0 | 6 | _ | _ |
| Arkansas [§] | _ | 5 | 50 | 69 | 289 | — | 0 | 1 | — | 1 | — | 0 | 0 | — | _ |
| Louisiana | 1 | 2 | 8 | 25 | 56 | — | 0 | 2 | _ | _ | _ | 0 | 4 | _ | _ |
| Oklahoma Texas [§] | N 46 | 0 62 | 0 272 | N 1,161 | N 2,330 | _ | 0 | 2 16 | _ | 1 | _ | 0 | 2 4 | _ | _ |
| Mountain | 18 | 25 | 49 | 539 | 1,143 | | 0 | 10 | | | | 0 | 17 | | 3 |
| Arizona | | 23 | 49 | | 1,145 | _ | 0 | 4 | _ | _ | _ | 0 | 2 | _ | |
| Colorado [§] | 9 | 11 | 41 | 211 | 619 | — | 0 | 7 | — | — | — | 0 | 14 | — | 1 |
| Idaho [§] | N | 0 | 0 | N | N | — | 0 | 3 | _ | _ | _ | 0 | 5 | _ | _ |
| Montana [§] Nevada [§] | 7 N | 2 0 | 17 0 | 98 N | 91 N | _ | 0 0 | 1 2 | _ | _ | _ | 0 0 | 1 1 | _ | _ |
| New Mexico [§] | 1 | 1 | 7 | 48 | 81 | _ | 0 | 2 | _ | _ | _ | 0 | 1 | _ | _ |
| Utah | 1 | 7 | 22 | 173 | 352 | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | 1 |
| Wyoming [§] | — | 0 | 3 | 9 | — | — | 0 | 1 | — | — | — | 0 | 2 | — | 1 |
| Pacific | _ | 1 | 5 | 14 | 66 | _ | 0 | 12 | _ | 1 | _ | 0 | 12 | _ | _ |
| Alaska California | _ | 0 | 4 0 | 14 | 37 | _ | 0 | 0 8 | _ | 1 | _ | 0 | 0 6 | — | _ |
| Hawaii | _ | 0 | 2 | _ | 29 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Oregon | Ν | 0 | 0 | Ν | N | _ | 0 | 1 | _ | _ | _ | 0 | 4 | _ | _ |
| Washington | Ν | 0 | 0 | Ν | Ν | _ | 0 | 6 | _ | — | _ | 0 | 3 | _ | _ |
| American Samoa | Ν | 0 | 0 | Ν | Ν | _ | 0 | 0 | _ | — | _ | 0 | 0 | _ | _ |
| C.N.M.I. | — | | _ | _ | — | — | | _ | — | — | — | | _ | — | _ |
| Guam Puerto Rico | _ | 0 6 | 2 30 | 8 101 | 244 | _ | 0 0 | 0 0 | _ | _ | _ | 0 0 | 0 0 | — | _ |
| L GETTO MEO | | 0 | 30 0 | 101 | 244 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |

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

U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly.

* Incidence data for reporting years 2009 and 2010 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly.
 † 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.
 ⁵ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).
 ¶ Not reportable in all states. Data from states where the condition is not reportable 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/ncphi/disss/nndss/phs/infdis.htm.

TABLE III. Deaths in 122 U.S. cities,* week ending May 22, 2010 (20th week)

| Reporting area | All causes, by age (years) | | | | | | | | All causes, by age (years) | | | | | | |
|--------------------------------------|----------------------------|-----------|----------|---------|--------|--------|------------------------------|-------------------------------|----------------------------|------------|-----------|----------|---------|---------|---------------------------|
| | All Ages | ≥65 | 45-64 | 25–44 | 1–24 | <1 | P&I [†] <1 Total | Reporting area | All Ages | ≥65 | 45-64 | 25-44 | 1–24 | <1 | P&I [†] Total |
| New England | 508 | 357 | 114 | 18 | 9 | 10 | 44 | S. Atlantic | 1,267 | 780 | 336 | 74 | 33 | 27 | 76 |
| Boston, MA | 124 | 74 | 40 | 3 | 5 | 2 | 8 | Atlanta, GA | 129 | 82 | 36 | 6 | 4 | 1 | 6 |
| Bridgeport, CT | 30 | 16 | 9 | 5 | — | — | 1 | Baltimore, MD | 166 | 99 | 51 | 8 | 5 | 3 | 14 |
| Cambridge, MA | 12 | 11 | 1 | — | — | — | 2 | Charlotte, NC | 122 | 71 | 40 | 6 | 2 | 3 | 6 |
| Fall River, MA | 17 | 15 | 2 | | | — | 1 | Jacksonville, FL | 155 | 106 | 34 | 9 | 3 | 3 | 11 |
| Hartford, CT Lowell, MA | 47 19 | 34 14 | 10 3 | 2 | 1 | 2 | 7 2 | Miami, FL Norfolk, VA | 190 49 | 111 13 | 46 17 | 14 4 | 9 1 | 6 1 | 6 1 |
| Lynn, MA | 6 | 6 | | _ | _ | | 2 | Richmond, VA | 49 65 | 38 | 17 | 6 | 3 | 1 | 4 |
| New Bedford, MA | 19 | 14 | 4 | 1 | _ | _ | 1 | Savannah, GA | 54 | 36 | 14 | 4 | _ | _ | 6 |
| New Haven, CT | 28 | 14 | 11 | 3 | _ | _ | 2 | St. Petersburg, FL | 48 | 34 | 10 | _ | 1 | 3 | 2 |
| Providence, RI | 65 | 52 | 10 | _ | 1 | 2 | 6 | Tampa, FL | 202 | 141 | 42 | 13 | 3 | 3 | 13 |
| Somerville, MA | 1 | _ | 1 | _ | _ | _ | _ | Washington, D.C. | 78 | 43 | 26 | 4 | 2 | 3 | 7 |
| Springfield, MA | 51 | 40 | 8 | 1 | — | 2 | 5 | Wilmington, DE | 9 | 6 | 3 | _ | _ | _ | _ |
| Waterbury, CT | 24 | 19 | 4 | — | — | 1 | 2 | E.S. Central | 875 | 560 | 216 | 59 | 27 | 13 | 73 |
| Worcester, MA | 65 | 48 | 11 | 3 | 2 | 1 | 5 | Birmingham, AL | 166 | 113 | 38 | 11 | 2 | 2 | 21 |
| Mid. Atlantic | 1,749 | 1,225 | 392 | 65 | 27 | 39 | 91 | Chattanooga, TN | 105 | 68 | 26 | 3 | 6 | 2 | 6 |
| Albany, NY | 46 | 37 | 6 | _ | 1 | 2 | 1 | Knoxville, TN | 95 | 73 | 16 | 3 | 2 | 1 | 9 |
| Allentown, PA | 29 | 24 | 5 | _ | _ | _ | 1 | Lexington, KY | 68 | 35 | 24 | 6 | 2 | 1 | 3 |
| Buffalo, NY | 82 | 56 | 16 | 2 | 1 | 7 | 9 | Memphis, TN | 139 | 87 | 36 | 9 | 5 | 2 | 12 |
| Camden, NJ | 28 | 15 | 8 | — | 1 | 4 | — | Mobile, AL | 89 | 57 | 20 | 11 | | 1 | 6 |
| Elizabeth, NJ | 10 35 | 9 | 1 | 2 | _ | _ | 4 | Montgomery, AL | 51 | 27 | 16 40 | 5 | 3 | 4 | 3 |
| Erie, PA | 35 27 | 30 13 | 3 13 | 2 | — | _ | 4 | Nashville, TN W.S. Central | 162 1,119 | 100 733 | 40 263 | 11 65 | 7 21 | 4 37 | 13 64 |
| Jersey City, NJ New York City, NY | 1,019 | 710 | 227 | 47 | 16 | 18 | 49 | Austin, TX | 85 | 60 | 203 | 4 | 21 | 1 | 4 |
| Newark, NJ | 29 | 14 | 8 | 47 | 2 | 10 | 49 | Baton Rouge, LA | 55 | 33 | 20 16 | 2 | 1 | 3 | - 4 |
| Paterson, NJ | 29 | 9 | 10 | 1 | | _ | 1 | Corpus Christi, TX | 65 | 47 | 11 | 5 | 1 | 1 | 4 |
| Philadelphia, PA | 134 | 84 | 38 | 3 | 5 | 4 | 4 | Dallas, TX | 189 | 114 | 47 | 19 | 3 | 6 | 13 |
| Pittsburgh, PA [§] | 30 | 21 | 9 | _ | _ | _ | 2 | El Paso, TX | 60 | 42 | 13 | 3 | 1 | 1 | 3 |
| Reading, PA | 29 | 21 | 8 | _ | _ | | 1 | Fort Worth, TX | Ŭ | U | U | Ŭ | Ū | Ŭ | Ŭ |
| Rochester, NY | 69 | 52 | 14 | 3 | _ | _ | 4 | Houston, TX | 145 | 88 | 38 | 7 | 3 | 9 | 10 |
| Schenectady, NY | 22 | 15 | 6 | 1 | _ | _ | 1 | Little Rock, AR | 91 | 57 | 25 | 6 | 2 | 1 | 4 |
| Scranton, PA | 25 | 21 | 4 | _ | _ | _ | _ | New Orleans, LA | U | U | U | U | U | U | U |
| Syracuse, NY | 69 | 57 | 9 | 1 | _ | 2 | 9 | San Antonio, TX | 255 | 165 | 59 | 13 | 8 | 10 | 15 |
| Trenton, NJ | 19 | 14 | 5 | _ | _ | _ | 1 | Shreveport, LA | 66 | 42 | 15 | 3 | 2 | 4 | 6 |
| Utica, NY | 10 | 9 | _ | _ | — | 1 | _ | Tulsa, OK | 108 | 85 | 19 | 3 | — | 1 | 5 |
| Yonkers, NY | 17 | 14 | 2 | — | 1 | — | 2 | Mountain | 1,152 | 729 | 296 | 76 | 23 | 23 | 87 |
| E.N. Central | 1,978 | 1,314 | 476 | 104 | 41 | 43 | 119 | Albuquerque, NM | 124 | 79 | 26 | 11 | 5 | 3 | 13 |
| Akron, OH | 54 | 37 | 10 | 2 | 1 | 4 | 5 | Boise, ID | 62 | 45 | 12 | 2 | 1 | 2 | 8 |
| Canton, OH | 36 | 29 | 7 | _ | _ | _ | 1 | Colorado Springs, CO | 69 | 39 | 26 | 3 | 1 | _ | 1 |
| Chicago, IL | 305 | 201 | 69 | 22 | 9 | 4 | 5 | Denver, CO | 79 | 47 | 23 | 5 | 2 | 2 | 10 |
| Cincinnati, OH | 96 | 65 | 17 | 5 | 2 | 7 5 | 9 | Las Vegas, NV | 272 | 176 | 74 8 | 15 2 | 5 | 2 2 | 22 3 |
| Cleveland, OH Columbus, OH | 249 144 | 181 97 | 46 37 | 12 5 | 5 2 | 5 3 | 12 10 | Ogden, UT Phoenix, AZ | 33 202 | 21 112 | 8 58 | 2 18 | 7 | 2 7 | 3 13 |
| Dayton, OH | 134 | 88 | 41 | 4 | 1 | | 10 | Pueblo, CO | 34 | 27 | 6 | 10 | _ | _ | 2 |
| Detroit, MI | 167 | 78 | 68 | 14 | 5 | 2 | 6 | Salt Lake City, UT | 126 | 79 | 30 | 13 | _ | 4 | 5 |
| Evansville, IN | 39 | 28 | 9 | 2 | _ | _ | 4 | Tucson, AZ | 151 | 104 | 33 | 6 | 2 | 1 | 10 |
| Fort Wayne, IN | 68 | 49 | 15 | 3 | _ | 1 | 5 | Pacific | 1,413 | 985 | 302 | 75 | 30 | 21 | 138 |
| Gary, IN | 10 | 4 | 4 | _ | _ | 2 | _ | Berkeley, CA | 10 | 7 | 3 | _ | _ | _ | 3 |
| Grand Rapids, MI | 43 | 30 | 11 | 1 | 1 | _ | 3 | Fresno, CA | 128 | 85 | 30 | 9 | 2 | 2 | 15 |
| Indianapolis, IN | 207 | 121 | 65 | 11 | 4 | 6 | 11 | Glendale, CA | 31 | 23 | 6 | 2 | _ | _ | 4 |
| Lansing, MI | 41 | 31 | 10 | _ | _ | _ | 3 | Honolulu, HI | 72 | 53 | 15 | 3 | 1 | _ | 10 |
| Milwaukee, WI | 87 | 58 | 20 | 6 | 2 | 1 | 7 | Long Beach, CA | U | U | U | U | U | U | U |
| Peoria, IL | 46 | 30 | 8 | 3 | 4 | 1 | 6 | Los Angeles, CA | 223 | 153 | 47 | 9 | 9 | 5 | 23 |
| Rockford, IL | 45 | 32 | 7 | 3 | 1 | 2 | 1 | Pasadena, CA | 17 | 16 | 1 | _ | _ | _ | 3 |
| South Bend, IN | 47 | 35 | 6 | 4 | 1 | 1 | 5 | Portland, OR | 117 | 76 | 28 | 9 | 3 | 1 | 8 |
| Toledo, OH | 103 | 75 | 15 | 7 | 3 | 3 | 10 | Sacramento, CA | 190 | 129 | 42 | 11 | 2 | 6 | 20 |
| Youngstown, OH | 57 | 45 | 11 | | | 1 | 4 | San Diego, CA | 206 | 159 | 42 | 4 | 1 | — | 13 |
| W.N. Central | 632 | 439 | 131 | 35 | 12 | 15 | 44 | San Francisco, CA | 113 | 80 | 22 | 10 | 1 | | 22 |
| Des Moines, IA | 148 | 112 | 29 | 5 | 2 | _ | 13 | San Jose, CA | U | U | U | U | U | U | U |
| Duluth, MN | 32 | 27 | 3 | 1 | _ | 1 | 2 | Santa Cruz, CA | 29 | 19 | 9 | 1 | | _ | 2 |
| Kansas City, KS | 27 | 16 | 8 | 2 | 1 | _ | 1 | Seattle, WA | 112 | 76 | 20 | 9 | 4 | 3 | 9 |
| Kansas City, MO | 105 | 68 | 24 | 8 | 2 | 3 | 4 | Spokane, WA | 58 | 39 | 15 | 1 | 1 | 2 | 4 |
| Lincoln, NE | 36 | 27 | 6 | 1 | 1 | 1 | 1 | Tacoma, WA | 107 | 70 | 22 | 7 | 6 | 2 | 2 |
| Minneapolis, MN | 60 79 | 31 | 18 | 6 | 1 | 4 | 3 | Total [¶] | 10,693 | 7,122 | 2,526 | 571 | 223 | 228 | 736 |
| Omaha, NE St. Louis, MO | 78 4 | 56 1 | 16 | 4 2 | 1 1 | 1 | 7 1 | | | | | | | | |
| | 4 69 | 53 | 9 | 2 | 3 | 3 | 7 | | | | | | | | |
| St. Paul, MN | | | | | | | | | | | | | | | |

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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