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HIV Infection and HIV-Associated Behaviors Among Injecting Drug Users — 20 Cities, United States, 2009

Despite a recent reduction in the number of human immunodeficiency virus (HIV) infections attributed to injecting drug use in the United States (1), 9% of new U.S. HIV infections in 2009 occurred among injecting drug users (IDUs) (2). To monitor HIV-associated behaviors and HIV prevalence among IDUs, CDC's National HIV Behavioral Surveillance System (NHBS) conducts interviews and HIV testing in selected metropolitan statistical areas (MSAs). This report summarizes data from 10,073 IDUs interviewed and tested in 20 MSAs in 2009. Of IDUs tested, 9% had a positive HIV test result, and 45% of those testing positive were unaware of their infection. Among the 9,565 IDUs with HIV negative or unknown HIV status before the survey, 69% reported having unprotected vaginal sex, 34% reported sharing syringes, and 23% reported having unprotected heterosexual anal sex during the 12 previous months. Although these risk behavior prevalences appear to warrant increased access to HIV testing and prevention services, for the previous 12-month period, only 49% of the IDUs at risk for acquiring HIV infection reported having been tested for HIV, and 19% reported participating in a behavioral intervention. Increased HIV prevention and testing efforts are needed to further reduce HIV infections among IDUs.

NHBS monitors HIV-associated behaviors and HIV prevalence among populations at high risk for acquiring HIV. In 2009, NHBS staff members in 20 MSAs with high prevalence of acquired immunodeficiency syndrome (AIDS)* collected cross-sectional behavioral risk data and conducted HIV testing among IDUs using respondent-driven sampling, a peer-referral sampling method (3,4). Recruitment chains in each city began with one to 15 initial participants recruited by NHBS staff members during formative assessment and planning. Initial participants who completed the interview were asked to recruit up to five other IDUs through use of a coded coupon system designed to track referrals. Recruitment continued for multiple waves; all participation was voluntary. Persons were eligible to participate if they had injected drugs during the previous 12 months, resided in the MSA, and could complete the interview in English or Spanish. After participants gave oral informed consent, in-person interviews were conducted by trained interviewers who administered a standardized, anonymous questionnaire about HIV-associated behaviors. All respondents were offered anonymous HIV testing, which was performed by collecting blood or oral specimens for either rapid testing in the field or laboratory-based testing. A nonreactive rapid test result was considered HIV negative; a reactive rapid test result was considered HIV positive if confirmed by Western blot or indirect immunofluorescence assay. Incentives were offered for participating in the interview, completing an HIV test, and for recruiting IDUs to participate.[†]

For this report, data on HIV testing and 13 HIV-associated behaviors were analyzed. Participants were asked whether, in the previous 12 months, they 1) had shared syringes; 2) had shared injection equipment other than syringes; 3) had vaginal

INSIDE

- 139 Exposure to Nitrogen Dioxide in an Indoor Ice Arena — New Hampshire, 2011
- 143 Chronic Obstructive Pulmonary Disease and Associated Health-Care Resource Use — North Carolina, 2007 and 2009
- 147 Announcement



^{*}The 20 MSAs were Atlanta, Georgia; Baltimore, Maryland; Boston, Massachusetts; Chicago, Illinois; Dallas, Texas; Denver, Colorado; Detroit, Michigan; Houston, Texas; Los Angeles, California; Miami, Florida; Nassau-Suffolk, New York; New Orleans, Louisiana; New York, New York; Newark, New Jersey; Philadelphia, Pennsylvania; San Diego, California; San Francisco, California; San Juan, Puerto Rico; Seattle, Washington; and Washington, District of Columbia.

[†]The incentive format (cash or gift card) and amount varied by MSA based on formative assessment and local policy. A typical format included \$25 for completing the interview, \$25 for providing a specimen for HIV testing, and \$10 for each successful recruitment (maximum of five).

sex; 4) had unprotected vaginal sex; 5) had heterosexual anal sex; 6) had unprotected heterosexual anal sex; 7) had male-male anal sex; 8) had unprotected male-male anal sex; 9) had more than one opposite sex partner; 10) had been tested previously for HIV infection; and 11) had participated in an HIV behavioral intervention. In addition, participants were asked whether they had ever been tested for 12) HIV or 13) hepatitis C virus (HCV) infection. IDUs who tested HIV positive during the survey were defined as unaware of their HIV infection if they had reported that their most recent previous HIV test result was negative, indeterminate, or unknown, or that they had never been tested. IDUs with self-reported negative, indeterminate, or unknown status (including those who tested positive during the survey), were considered to be at risk for acquiring HIV. Data from each MSA were analyzed using a respondent-driven sampling analysis tool that produces estimates adjusted for differences in peer recruitment patterns and size of participant IDU peer networks. Results from these analyses were aggregated and weighted by the size of the IDU population in each MSA (5) to obtain estimates overall.

In 2009, a total of 13,186 persons were recruited to participate; of these, 2,687 (20%) were found ineligible. An additional 426 (3%) eligible participants were excluded from analysis.** Data for the remaining 10,073 participants were used in the analysis of HIV prevalence and participant awareness of serostatus (Table 1). To focus the analysis of HIV-associated behaviors on persons at risk for acquiring HIV infection, 508 participants who reported that they previously had tested positive for HIV were excluded (Table 2).

Among 10,073 IDUs, 9% tested positive for HIV. Prevalence of HIV infection was higher among Hispanics (12%) and non-Hispanic blacks (11%) than non-Hispanic whites (6%). IDUs in the Northeast and South regions had higher HIV prevalence (12% and 11%) than those in the Midwest and West regions

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[§] Sharing syringes was defined as "using needles that someone else had already injected with." Sharing injection equipment was defined as using cookers, cottons, or water to rinse needles or prepare drugs "that someone else had already used." Unprotected vaginal and anal sex were defined as "sex without a condom." Male-male anal sex was restricted to males and includes both insertive and receptive anal sex. Participating in an individual or group HIV behavioral intervention (e.g., a one-on-one conversation with a counselor or an organized discussion regarding HIV prevention) did not include counseling received as part of an HIV test. Testing for HCV infection was measured as ever tested or ever received a diagnosis of hepatitis C.

⁹ City-level estimates with inadequate sample size for analysis (five or fewer observations) were excluded from aggregation. For city-level estimates for which confidence intervals could not be calculated, maximally wide confidence intervals (0–1) were used in aggregation. Such estimates represented <4% of the analysis.</p>

^{**} Data from 426 participants were excluded because of missing recruitment data (five participants), lost data during electronic upload (142), incomplete survey data (25), survey responses with questionable validity (63), invalid HIV test results (130), could not be identified as male or female (53), or other reason (eight). Reasons for exclusion were not mutually exclusive and were applied hierarchically in the order listed.

TABLE 1. Estimated prevalence of human immunodeficiency virus (HIV) infection among injecting drug users (IDUs) (N = 10,073), by selected characteristics — National HIV Behavioral Surveillance System,* United States, 2009

	0	verall†	HIV p	revalence†
Characteristic	%	(95% CI)	%	(95% CI)
Overall	100	_	9	(8–11)
Sex				
Men	71	(69-73)	9	(8-10)
Women	29	(27-31)	10	(8-13)
Race/Ethnicity				
Hispanic	22	(20-25)	12	(9-15)
Black, non-Hispanic	42	(40-44)	11	(10–13)
White, non-Hispanic	31	(29-34)	6	(4-8)
Other [§]	4	(4-5)	_	_
Age group (yrs)				
18–29	11	(10-13)	3	(0-10)
30–39	19	(18–21)	10	(6–13)
40-49	32	(30-34)	11	(9-13)
≥50	38	(36-39)	10	(7-12)
Education				
Less than high school diploma	36	(34-38)	13	(10-15)
High school diploma	39	(37-41)	8	(6-10)
More than high school diploma	25	(24-27)	7	(5-9)
Poverty level				
At or below federal poverty level	81	(80-83)	10	(8-11)
Above federal poverty level	19	(17-20)	7	(4-9)
Drug injected most frequently				
Heroin only	64	(62-66)	7	(4-9)
Other/Multiple [¶]	36	(34–38)	14	(12–16)
Region**				
Northeast	34	(21-48)	12	(9-14)
South	27	(13–40)	11	(9–14)
Midwest	8	(0-22)	5	(2-7)
West	28	(15-42)	6	(4-8)

Abbreviation: CI = confidence interval.

- * The National HIV Behavioral Surveillance System covers the following 20 metropolitan statistical areas (MSAs): Atlanta, Georgia; Baltimore, Maryland; Boston, Massachusetts; Chicago, Illinois; Dallas, Texas; Denver, Colorado; Detroit, Michigan; Houston, Texas; Los Angeles, California; Miami, Florida; Nassau-Suffolk, New York; New Orleans, Louisiana; New York, New York; Newark, New Jersey; Philadelphia, Pennsylvania; San Diego, California; San Francisco, California; San Juan, Puerto Rico; Seattle, Washington; and Washington, District of Columbia.
- [†] Percentages were weighted to adjust for differences in recruitment, the size of participants' networks of IDUs, and the size of the population of IDUs in each MSA.
- § Includes American Indian/Alaska Natives, Asians, Native Hawaiian or other Pacific Islanders, and persons of multiple races.
- Other drugs injected alone or two or more drugs injected with the same frequency.
- *** The Northeast region includes the MSAs of Boston, Massachusetts; Nassau-Suffolk, New York; New York, New York; Newark, New Jersey; and Philadelphia, Pennsylvania. South region includes Atlanta, Georgia; Baltimore, Maryland; Dallas, Texas; Houston, Texas; Miami, Florida; New Orleans, Louisiana; and Washington, District of Columbia. Midwest region includes Chicago, Illinois and Detroit, Michigan. West region includes Denver, Colorado; Los Angeles, California; San Diego, California; San Francisco, California; and Seattle, Washington. San Juan, Puerto Rico, was not included.

(5% and 6%). Those with less than a high school education had higher HIV prevalence (13%) than IDUs who completed high school (8%) or had more than high school education (7%)

What is already known on this topic?

Injecting drug users (IDUs) in the United States are at increased risk for acquiring human immunodeficiency virus (HIV) infection. Surveys of IDUs entering drug treatment centers during 1993–1997 found local HIV prevalence ranging from 1% to 37% and an overall prevalence of 18%.

What is added by this report?

The National HIV Behavioral Surveillance System recruited 10,073 IDUs from 20 U.S. metropolitan statistical areas to be interviewed and tested for HIV infection in 2009. Nine percent tested positive for HIV, of whom 45% were unaware of their infection. Among those at risk for acquiring HIV infection, 34% reported sharing syringes, and 69% reported having unprotected vaginal sex in the previous 12 months.

What are the implications for public health practice?

Many IDUs are at risk for acquiring HIV infection because of their drug use practices and sexual behaviors, and a substantial percentage of IDUs in urban areas with high HIV prevalence are already infected but unaware of their infection. To prevent infections, IDUs need ready access to HIV testing, new sterile syringes, condoms, and substance abuse treatment.

(Table 1). Among HIV-infected IDUs, 45% (95% confidence interval [CI] = 38%–51%) were unaware of their infection.

Among the 9,565 IDUs at risk for acquiring HIV infection and responding to questions regarding HIV-associated behaviors in the previous 12 months, 34% reported sharing syringes, 46% reported multiple opposite sex partners, 69% reported unprotected vaginal sex, and 23% reported unprotected heterosexual anal sex. In addition, 19% reported participating in an HIV behavioral intervention, and 49% reported having had an HIV test (Table 2).

Among the IDUs at risk for acquiring HIV infection, 72% reported ever being tested for HCV infection (Table 2), and 89% (CI = 88%–90%) reported ever having an HIV test. Among male IDUs at risk for acquiring HIV infection, 7% (CI = 5%–8%) reported male-male anal sex in the previous 12 months, and 5% (CI = 3%–7%) reported unprotected male-male anal sex in the previous 12 months.

The prevalence of HIV-associated risk behaviors in the previous 12 months generally decreased with increasing age. For example, among persons aged 18–29 years, 52% reported sharing syringes, compared with 39% aged 30–39 years, 34% aged 40–49 years, and 25% aged ≥50 years. A higher percentage of IDUs with less than a high school education reported sharing syringes (38%), compared with high school graduates (32%) or those with higher education (31%). Lower percentages of IDUs with less than a high school education reported participation in HIV interventions (16%) and testing for HCV infection (67%), compared with those with a high school education (20% and 73%, respectively) and those with higher

TABLE 2. Estimated percentage* of injecting drug users at risk for acquiring human immunodeficiency virus (HIV) infection (n = 9,565)[†] who engaged in behaviors[§] associated with HIV infection, by selected characteristics — National HIV Behavioral Surveillance System, United States, 2009

	Shared syringes	Shared injection equipment	Had vaginal sex	Had unprotected vaginal sex	Had heterosexual anal sex	Had unprotected heterosexual anal sex	Had more than one opposite sex partner	Was tested for HIV infection	Participated in behavioral intervention	Was ever tested for hepatitis C**
Characteristic	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)
Overall	34	58	80	69	29	23	46	49	19	72
	(32–36)	(56–60)	(78–82)	(67–71)	(27–31)	(21–24)	(44–48)	(47–51)	(18–21)	(70–74)
Sex										
Men	32	57	79	67	29	23	45	47	18	71
	(30–34)	(54–59)	(77–81)	(65–69)	(27–31)	(21–25)	(43–48)	(45–50)	(17–20)	(69–73)
Women	38	60	81	73	28	22	47	52	22	73
	(35–42)	(57–64)	(79–84)	(70–76)	(25–31)	(20–25)	(43–50)	(48–55)	(19–25)	(70–77)
Race/Ethnicity										
Hispanic	34	59	81	67	40	31	45	48	17	71
	(30–38)	(55–63)	(78–85)	(62–71)	(35–44)	(27–35)	(40–50)	(44–53)	(13–20)	(67–75)
Black, non-Hispanic	27	54	81	69	24	19	47	52	21	67
	(24–29)	(51–57)	(79–84)	(67–72)	(22–27)	(17–21)	(44–50)	(49–54)	(18–23)	(64–70)
White, non-Hispanic	43	62	80	72	29	23	45	44	20	78
	(39–47)	(58–66)	(76–83)	(68–76)	(26–32)	(20–26)	(42–49)	(40–48)	(17–22)	(74–81)
Other ^{††}	40	58	71	59	23	16	47	52	18	80
	(31–50)	(50–67)	(61–80)	(50–67)	(16–30)	(11–21)	(39–56)	(43–61)	(13–23)	(72–87)
Age group (yrs)										
18–29	52	73	92	83	44	35	62	52	23	70
	(47–57)	(69–78)	(88–97)	(79–88)	(38–49)	(30–40)	(57–67)	(46–58)	(18–27)	(65–75)
30–39	39	64	88	79	41	35	51	48	19	72
	(34–44)	(60–68)	(85–91)	(75–83)	(37–45)	(30–39)	(46–56)	(43–53)	(16–23)	(67–76)
40–49	34	55	79	69	28	22	45	54	19	71
	(31–38)	(52–59)	(76–82)	(65–72)	(25–31)	(19–25)	(41–48)	(51–58)	(16–22)	(68–75)
≥50	25	52	72	59	19	14	39	43	19	73
	(23–28)	(49–55)	(70–75)	(56–62)	(16–21)	(12–15)	(36–42)	(40–46)	(16–22)	(70–76)
Education										
Less than high school diploma	38	59	81	69	32	26	47	47	16	67
	(35–42)	(56–62)	(78–83)	(67–72)	(29–35)	(23–29)	(43–50)	(43–50)	(14–18)	(63–70)
High school diploma	32	57	79	68	27	21	43	50	20	73
	(30–35)	(54–60)	(76–82)	(65–71)	(24–30)	(19–23)	(40–46)	(47–53)	(18–23)	(70–75)
More than high school diploma	31	57	81	69	28	22	49	49	24	78
	(27–35)	(53–61)	(78–84)	(66–73)	(24–31)	(18–25)	(46–53)	(45–53)	(20–27)	(74–81)
Poverty level				,	,				-	
At or below federal poverty level	35	58	80	68	28	22	46	48	20	70
	(33–38)	(56–60)	(78–82)	(66–70)	(26–30)	(20–24)	(43–49)	(46–50)	(18–22)	(68–72)
Above federal poverty level	27	55	81	71	30	24	43	52	18	78
	(23–31)	(51–59)	(77–85)	(67–75)	(26–34)	(21–28)	(39–48)	(48–57)	(15–21)	(75–82)

See table footnotes on page 137.

deducation (24% and 78%, respectively). A higher percentage of those living at or below the federal poverty level (35%) shared syringes than those above the poverty level (27%), and a lower percentage of those living at or below the poverty level had HCV testing (70%) than those above the poverty level (78%) (Table 2).

Reported by

Cyprian Wejnert, PhD, Huong Pham, MPH, Alexandra M. Oster, MD, Elizabeth A. DiNenno, PhD, Amanda Smith, MPH, Nevin Krishna, MS, Amy Lansky, PhD, Div of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, CDC. Corresponding contributor: Cyprian Wejnert, cwejnert@cdc.gov, 404-639-6044.

Editorial Note

The 2009 data in this report provide the first estimates from a large-scale survey of HIV seroprevalence among IDUs since 1993–1997, when CDC conducted anonymous HIV testing among IDUs entering drug treatment centers in 14 MSAs (6). In the study of IDUs entering drug treatment, HIV prevalence was found to be 18% (range by MSA = 1%–37%). In this analysis, 9% of IDUs tested positive for HIV infection. Furthermore, 45% of those testing positive were unaware of their infection.

Risk behavior prevalences in this report showing that IDUs are at risk for acquiring HIV infection through their sexual behavior in addition to their drug use practices are similar to previously reported NHBS surveillance data (7). Compared with a similar analysis of IDUs interviewed during 2005–2006,

TABLE 2. (Continued) Estimated percentage* of injecting drug users at risk for acquiring human immunodeficiency virus (HIV) infection $(n = 9,565)^{\dagger}$ who engaged in behaviors associated with HIV infection, by selected characteristics — National HIV Behavioral Surveillance System, United States, 2009

	Shared syringes	Shared injection equipment	Had vaginal sex	Had unprotected vaginal sex	Had heterosexual anal sex	Had unprotected heterosexual anal sex	Had more than one opposite sex partner		Participated in behavioral intervention	Was ever tested for hepatitis C**
Characteristic	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)
Drug injected most frequently										
Heroin only	33	57	78	66	25	20	42	47	19	73
	(30–35)	(54–59)	(76–81)	(64–69)	(23–27)	(18–22)	(39–44)	(45–50)	(17–21)	(70–75)
Other/Multiple ^{§§}	36	60	83	74	35	27	53	51	21	70
	(33–39)	(57–63)	(80–86)	(71–77)	(32–38)	(24–30)	(50–56)	(48–55)	(18–23)	(67–73)
Region ^{¶¶}										
Northeast	35	55	82	71	34	27	46	51	22	74
	(32–39)	(51–59)	(78–85)	(67–75)	(30–37)	(24–30)	(42–50)	(47–55)	(19–25)	(71–78)
South	33	62	84	73	26	20	48	53	21	68
	(30–37)	(59–65)	(82–86)	(70–76)	(23–29)	(17–23)	(44–51)	(50–56)	(18–24)	(64–71)
Midwest	26	44	80	62	24	17	48	41	11	59
	(22–31)	(39–49)	(76–85)	(57–67)	(20–28)	(13–20)	(43–53)	(37–46)	(8–14)	(54–64)
West	35	61	74	64	26	20	43	45	16	77
	(32–39)	(57–65)	(70–78)	(60–68)	(22–29)	(17–24)	(39–47)	(40–49)	(13–19)	(73–81)

Abbreviation: CI = confidence interval.

This group includes those IDUs who did not know they were HIV positive before the interview but tested positive during the interview.

†† Includes American Indian/Alaska Natives, Asians, Native Hawaiian or other Pacific Islanders, and persons of multiple races.

§§ Other drugs injected alone or two or more drugs injected with the same frequency.

lower percentages in this 2009 study reported receiving HIV interventions (19% compared with 30%) and HIV testing (49% compared with 66%) in the previous 12 months (7). These results highlight the need for expanded HIV testing and prevention among IDUs. The combination of declining HIV prevalence and high-risk behavior represent a critical intervention opportunity to further reduce HIV prevalence and incidence among IDUs.

Consistent with previous reports (8), this analysis found higher HIV prevalence among Hispanic and non-Hispanic black IDUs than non-Hispanic white IDUs. However, minority IDUs were neither more nor less likely to have received HIV testing, participated in HIV behavioral interventions, or engaged in risk behaviors than white IDUs in the 12 months preceding the NHBS interview. These data suggest factors not assessed by this study might be contributing to racial/ethnic disparities in HIV prevalence among IDUs.

The findings in this report are subject to at least three limitations. First, some participants might not have accurately reported their behavior to interviewers, and results might be affected by social desirability bias. Second, because no method of obtaining

probability samples of IDUs exists, the representativeness of the NHBS sample cannot be determined. Although respondent-driven sampling adjusts for some selection biases (4), other biases might have affected the sample. Finally, IDUs were interviewed in 20 MSAs with high AIDS prevalence; findings from these cities might not be generalizable to other cities or states.

To reduce the number of new HIV infections, the National HIV/AIDS Strategy^{††} calls for intensifying prevention efforts in communities where HIV is most heavily concentrated. CDC's high impact prevention approach^{§§} is an essential step toward achieving the goals of the national strategy. HIV prevention strategies for IDUs, including HIV testing and linkage to care, prevention and care for HIV-infected IDUs, and access to new sterile syringes, ¶ have been shown to be effective. Targeted, effective approaches to HIV prevention will help reduce the number of new HIV infections among IDUs.

^{*} Percentages were weighted to adjust for differences in recruitment, the size of participants' networks of IDUs, and the size of the population of IDUs in each metropolitan statistical area (MSA).
† IDUs at risk for acquiring HIV infection were defined as those reporting having never had an HIV test or that their most recent HIV test result was negative, indeterminate, or unknown.

Sharing syringes was defined as "using needles that someone else had already injected with," and sharing injection equipment was defined as using equipment such as cookers, cottons, or water used to rinse needles or prepare drugs "that someone else had already used." Unprotected vaginal sex/Unprotected anal sex was defined as "sex without a condom." Participating in an individual or group HIV behavioral intervention (e.g., a one-on-one conversation with a counselor or an organized discussion regarding HIV prevention) did not include counseling received as part of an HIV test.

The National HIV Behavioral Surveillance System covers the following MSAs: Atlanta, Georgia; Baltimore, Maryland; Boston, Massachusetts; Chicago, Illinois; Dallas, Texas; Denver, Colorado; Detroit, Michigan; Houston, Texas; Los Angeles, California; Miami, Florida; Nassau-Suffolk, New York; New Orleans, Louisiana; New York; New York; New Jersey; Philadelphia, Pennsylvania; San Diego, California; San Francisco, California; San Juan, Puerto Rico; Seattle, Washington; and Washington, District of Columbia.

^{**} Testing for hepatitis C virus infection was measured as ever tested or ever received a diagnosis of hepatitis C. All other behaviors are reported for the previous 12 months.

¹⁹ The Northeast region includes the MSAs of Boston, Massachusetts; Nassau-Suffolk, New York; New York; New York; New Jersey; and Philadelphia, Pennsylvania. South region includes Atlanta, Georgia; Baltimore, Maryland; Dallas, Texas; Houston, Texas; Miami, Florida; New Orleans, Louisiana; and Washington, District of Columbia. Midwest region includes Chicago, Illinois and Detroit, Michigan. West region includes Denver, Colorado; Los Angeles, California; San Diego, California; San Francisco, California; and Seattle, Washington. San Juan, Puerto Rico, was not included.

^{††} Additional information available at http://www.whitehouse.gov/administration/eop/onap/nhas.

^{§§} Additional information available at http://www.cdc.gov/hiv/strategy.

⁵⁵ In December 2011, Congress reinstated a ban on the use of federal funds for carrying out any program of distributing sterile needles or syringes for hypodermic injection of illegal drugs.

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Exposure to Nitrogen Dioxide in an Indoor Ice Arena — New Hampshire, 2011

In January 2011, the New Hampshire Department of Health and Human Services (NHDHHS) investigated acute respiratory symptoms in a group of ice hockey players. The symptoms, which included cough, shortness of breath, hemoptysis, and chest pain or tightness, were consistent with exposure to nitrogen dioxide gas (NO₂), a byproduct of combustion. Environmental and epidemiologic investigations were begun to determine the source of the exposure and identify potentially exposed persons. This report summarizes the results of those investigations, which implicated a local indoor ice arena that had hosted two hockey practice sessions during a 24-hour period when the arena ventilation system was not functioning. A total of 43 exposed persons were interviewed, of whom 31 (72.1%) reported symptoms consistent with NO₂ exposure. The highest attack rate was among the hockey players (87.9%). After repair of the ventilation system, no additional cases were identified. To prevent similar episodes, ice arena operators should ensure ventilation systems and alarms are operating properly and that levels of NO₂ and carbon monoxide (CO) are monitored continuously for early detection of increased gas levels.

On January 4, 2011, NHDHHS was notified that a previously healthy male aged 19 years was hospitalized for sudden onset of cough, shortness of breath, and hemoptysis shortly after a team ice hockey practice. His physical examination was notable for crackles heard in both lung bases, and his oxygen saturation was decreased to 88%–91% on room air (normal: >95%). Bilateral infiltrates and nodules were observed on chest computed tomography. Investigation revealed that other members of his team (team A) and at least one player from another local team (team B) were experiencing similar symptoms and independently had been directed to local emergency departments. Both teams had practiced in the same ice arena on the evening of January 3.

Further investigation revealed that on the morning of January 3, the ventilation system circuit board failed while being serviced, making the ventilation system inoperable. Two arena workers then spent 60–90 minutes resurfacing the ice using propane-powered equipment, finishing at approximately 11:30 a.m. The workers later reported observing a yellow haze over the ice, but neither reported any symptoms. Team A's practice was held from 6:00 to 8:00 p.m., and team B's practice was from 8:00 to 10:00 pm. The yellow haze was noted by players, coaches, and spectators at both practices. The next morning, January 4, at 9 a.m., the circuit board was replaced, and the ventilation system began operating normally. No other

exposures had occurred during the time the ventilation system was not functional.

The arena housed a standard-sized ice hockey rink and was owned by a private school. The rink ice was maintained using propane-powered ice-resurfacing machines. The arena had an air monitoring system for CO and carbon dioxide (CO_2) , but not for NO_2 .

On the evening of January 4, NHDHHS staff members began interviewing all 33 players and five coaches who were present at practices on January 3. From these initial interviews, case finding was expanded to include four practice spectators and the two arena workers who operated the resurfacing equipment, for a total of 44 exposed persons. Questionnaires that assessed symptoms, exposures, and environmental observations were administered by NHDHHS staff members in person or by telephone. All but one of the 44 exposed persons completed the questionnaire.

A case was defined as the onset of cough, hemoptysis, chest pain, chest tightening, shortness of breath, headache, dizziness, nausea, or vomiting within 48 hours of being in the ice arena from 11:00 a.m. on Monday, January 3, to 9:00 a.m. on Tuesday, January 4. Illnesses with symptoms consistent with the common cold (e.g., runny nose, fever, and head congestion) were not counted as cases. Using this definition, 31 cases were identified among the 43 persons interviewed: 29 among the 33 players (87.9%) and two among the five coaches (40%). None of the four spectators had illness consistent with the case definition, nor did the one arena worker who completed the questionnaire. Most patients (90.3%) had two or more symptoms (Table 1). Although 10 nonplayers (coaches, spectators, and arena personnel) were exposed, players were nearly four times as likely to become ill (87.9% versus 20.0%, risk ratio [RR] = 4.39, 95% confidence interval [CI] = 1.26–15.28). Compared with nonplayers, players also were more likely to have spent more time on the ice (defined as >1 hour versus ≤ 1 hour) (84.8% versus 40.0%, RR = 2.12, CI = 0.98–4.59). As time spent on the ice increased, so did the attack rate and amount of hemoptysis (Figure).

On January 5, the New Hampshire Department of Environmental Services (NHDES) and the New Hampshire State Fire Marshal's Office (NHFMO) inspected the ice arena. Measurements for CO and NO₂ were taken before running the resurfacing equipment (baseline conditions) and while operating the equipment, and recorded at breathing zone (where persons on the ice would be exposed) as well as adjacent to the equipment exhaust pipe. Air sampling was performed for NO₂ using a Gastec piston hand pump equipped with Sensidyne

TABLE 1. Number and percentage of persons with symptoms consistent with exposure to nitrogen dioxide gas (NO_2) in an indoor ice arena (N=31) — New Hampshire, January 3, 2011

Symptom	No.	(%)
Cough	26	(83.9)
Shortness of breath	24	(77.4)
Chest tightness	20	(64.5)
Chest pain	14	(45.2)
Weakness	11	(35.5)
Sore throat	11	(35.5)
Nausea/Vomiting	10	(32.3)
Hemoptysis/Bloody sputum*	8	(25.8)
Throat irritation	8	(25.8)
Headache	8	(25.8)
Abdominal pain	6	(19.4)
Eye irritation	5	(16.1)
Dizziness	1	(3.2)
Choking	1	(3.2)

^{*} Includes two persons with late-onset hemoptysis reported at follow-up survey.

colorimetric gas detector tubes. A TSI Q-Trak indoor air quality monitor was used to obtain direct readings for CO. While the ice resurfacer was operating in the arena, the NO₂ concentration in the breathing zone increased, reaching 0.5 parts per million, the level at which corrective action must be taken according to regulations in states that regulate indoor air quality in ice arenas (Table 2). These measurements did not simulate actual conditions in the arena on January 3 because the arena ventilation system had been fully functional for approximately 24 hours at the time of sampling.

Beginning January 20, a follow-up questionnaire was administered to exposed persons to assess late-onset and persistent symptoms. Thirty-nine (90.7%) of the original 43 persons interviewed responded to the follow-up questionnaire. No new cases were identified; however, two of the original patients reported late onset of hemoptysis (at 5 days and 21 days postexposure) and were advised to seek medical evaluation. Six patients (20%) reported persistent symptoms: shortness of breath on exertion (four cases), cough (two cases), and fatigue (one case).

NHDHHS, in consultation with the Northern New England Poison Center, recommended that all exposed persons seek medical evaluation, even if asymptomatic, preferably at a designated occupational health clinic. Ultimately, 39 (90.6%) complied (30 of 31 [96.8%] patients and nine of 12 [75.0%] of persons without symptoms). After these initial medical evaluations, the need for follow-up was determined on a case-by-case basis, dependent on severity. NHDES and NHFMO recommended that the arena include an NO₂ sensor in the air monitoring system, establish alarm set points for CO and NO₂ in line with air action level recommendations (Table 2), and test this system at least monthly. The arena also was advised to conduct maintenance and tailpipe emissions testing on all ice resurfacing equipment at the beginning of the ice arena season

What is already known on this topic?

Combustion byproducts are a known threat to indoor air quality in ice arenas; however, nitrogen dioxide gas (NO₂) is monitored less frequently than carbon monoxide, and signs and symptoms of NO₂ intoxication are less well known than those of carbon monoxide.

What is added by this report?

The use of propane-powered ice-resurfacing equipment for 60-90 minutes in an indoor ice arena without an operating ventilation system caused symptoms of NO_2 intoxication in 31 of 43 exposed persons, including 31 of 42 persons who first entered the arena more than 6 hours after the ice resurfacing had been completed.

What are the implications for public health practice?

Because exposure to NO_2 can occur more frequently than is recognized, public health agencies should consider educating ice arena operators about the importance of arena ventilation, air monitoring for combustion gases, and maintenance of propane-powered equipment, if use of electric ice resurfacing equipment is not feasible. Additionally, ice arena operators as well as ice hockey players and coaches who use indoor rinks should be familiar with the signs and symptoms of NO_2 toxicity.

and at least once during the season, and consider installing catalytic converters to reduce emissions. However, the most reliable way to prevent exposure in this setting is to replace propane-powered equipment with electric equipment, which should be considered as a long-term solution.

Reported by

Antonia Altomare, DO, Kathryn Kirkland, MD, Robert McLellan, MD, Elizabeth Talbot, MD, Dartmouth-Hitchcock Medical Center, Lebanon; Christine Adamski, Sharon Alroy-Preis, MD, Elizabeth R. Daly, MPH, Jodie Dionne-Odom, MD, Maureen Macdonald, MSN, Darlene Morse, MEd, New Hampshire Dept of Health and Human Svcs; Teresa Ferrara, MPH, Richard Rumba, MPH, New Hampshire Dept of Environmental Svcs; Leslie Cartier, Maxim Schultz, New Hampshire Fire Marshal's Office. Karen E Simone, PharmD, Northern New England Poison Center, Portland, Maine. Steffany J. Cavallo, MPH, CDC/CSTE Applied Epidemiology Fellow. Corresponding contributor: Steffany J. Cavallo, steffany.cavallo@dhhs.state.nh.us, 603-271-7397.

Editorial Note

Respiratory illness caused by NO_2 in indoor hockey rinks has been documented infrequently in the literature. Hazardous levels of NO_2 in ice arenas often result from malfunction of propane-fueled ice resurfacing equipment or arena ventilation systems (1–5).

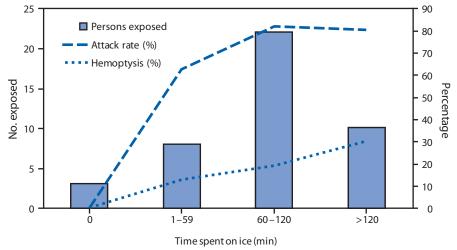
TABLE 2. Air quality recommendations for ice arena owners and managers

Recommendation	Description
Air quality in ice arenas: action steps*	Educate workers on their role in indoor air quality and protecting occupants.
	Establish a system of monitoring air quality
	Establish procedures for responding to indoor air complaints and emergencies
	Provide continuous ventilation whenever a rink is occupied
	• At a minimum, use ventilation requirements for sports arenas as described in the ASHRAE <i>Ventilation for Acceptable Indoor Air Quality, Standard 62.1-2007</i> (or most recent edition)
	$\bullet \ \ Ensure\ that\ fresh\ air\ intake\ is\ not\ blocked\ and\ not\ located\ near\ the\ exhaust\ from\ loading\ docks\ and\ outside\ idling\ vehicles$
	• Consider replacing older equipment that does not meet current Environmental Protection Agency emissions standards with newer compliant equipment or upgrade to most efficient burning fuel type and pollution control devices
	• Warm up resurfacing equipment in a well-ventilated room or a room equipped with a local exhaust
	• Use ice edgers only when the ventilation system can adequately exhaust the emissions. Keep arena gates open when resurfacing to allow for adequate ventilation of the ice area
	Keep resurfacing equipment well maintained daily and serviced annually by a qualified technician
Air action levels [†]	• Immediate evacuation level: 85 ppm for CO or 2 ppm for NO ₂

 $Abbreviations: A SHRAE = American Society of Heating, Refrigeration and Air-conditioning Engineers; CO = carbon monoxide; NO_2 = nitrogen oxide. \\$

Corrective action level: 25 ppm for CO or 0.5 ppm for NO₂

FIGURE. Outcomes among persons exposed to nitrogen dioxide gas (NO₂) in an indoor ice arena (N = 43), by time spent on ice — New Hampshire, January 3, 2011*



^{*} Cochran-Armitage test for trend: attack rate, p=0.01; hemoptysis, p=0.06.

Most ice arenas are designed to minimize natural ventilation in an effort to keep warm air away from the ice surface and the ice temperature near freezing. This can create a thermal inversion in which cold air and gases (especially NO2, which is denser than air) become trapped over the ice (6). The protective glass between spectator stands and the ice rink creates an additional barrier to airflow. In this episode, exposure was made worse by prolonged use of propane-powered ice resurfacers while the ventilation system was off.

Nitrogen dioxide is a yellow to reddish brown gas that irritates the upper and lower respiratory tracts and can cause short-term central nervous system symptoms (6). Severity of symptoms is related to duration of NO₂ exposure (5,6), although exertion with increased frequency and depth of respiration might have made the hockey players more susceptible than the spectators or coaches to the effects of the gas. This has been reported during other exposures (4). No specific antidote for NO₂ toxicity exists, and therapy is focused on supportive care and prolonged monitoring (6). The longterm consequences of acute NO2 exposure are not well understood, but in this instance, six of 31 persons had persistent symptoms up to 4 weeks postexposure. Other studies document self-reported symptoms several

weeks after exposure (4), 6 months postexposure (1), and even 5 years postexposure (7). However, tests of pulmonary function (e.g., spirometry and bronchoprovocation) at 10 days, 2 months, and 6 months postexposure have provided little objective evidence of compromised lung function (1,4). The small but unpredictable potential for delayed development of life-threatening conditions such as bronchiolitis obliterans

warrants follow-up of exposed persons (6).

^{*} Source: US Environmental Protection Agency. Indoor air quality and ice arenas. Washington, DC: US Environmental Protection Agency; 2010. Available at http:// www.epa.gov/iag/icearenas.html.

[†] No federal recommendations or regulations exist for air action levels in ice arenas. These recommendations are taken from Minnesota Department of Health Interim Regulations 4620 and Massachusetts Department of Public Health Regulation 105 CMR 675.000.

The findings in this report are subject to at least two limitations. First, a broad case definition was used to ensure complete case finding and appropriate follow-up; however, this might have led to inflation of the attack rate. Second, with the exception of the index case, symptom data were based on self-report, which also might have inflated the attack rate.

No federal regulations exist for indoor air quality in ice arenas, and only three states have enacted regulations (Minnesota, Rhode Island, and Massachusetts). Only Minnesota and Massachusetts specify limits for NO₂ levels. After this incident, NHFMO sent an informational bulletin to all indoor ice arenas in the state based, in part, on recommendations from the U.S. Environmental Protection Agency and the regulations existing in other states (Table 2). Without legislated regulations, however, direct education of the public about signs and symptoms of NO₂ exposure and education of arena staff about the risk of NO₂ toxicity is important for prevention.

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Tamas Peredy, MD, Northern New England Poison Center, Portland, Maine. Claudia Alvarado, Jill Drouin, Kenneth Dufault, MaryLee Greaves, Pamela Hill, Sarah Krycki, Jose Montero, MD, Karin Salome, New Hampshire Dept of Health and Human Svcs.

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Chronic Obstructive Pulmonary Disease and Associated Health-Care Resource Use — North Carolina, 2007 and 2009

Chronic obstructive pulmonary disease (COPD), including emphysema and chronic bronchitis, is a progressive condition in which airflow becomes limited, making it difficult to breathe. Chronic lower respiratory diseases, primarily COPD, are the third leading cause of death in the United States (1), and 5.1% of U.S. adults report a diagnosis of emphysema or chronic bronchitis (2). Smoking is the primary cause of COPD, and at least 75% of COPD deaths are attributable to smoking in the United States (3). Information on statespecific prevalence of COPD is sparse (4), as are data on the use of COPD-related health-care resources. To understand how COPD affects adults in North Carolina and what resources are used by persons with COPD, 2007 and 2009 data from the North Carolina COPD module of the Behavioral Risk Factor Surveillance System (BRFSS) were analyzed. Among 26,227 respondents, 5.7% reported ever having been told by a health professional that they had COPD. Most adults with COPD reported ever having had a diagnostic breathing test (76.4% in 2007 and 82.4% in 2009). Among adults with COPD, 43.0% reported having gone to a physician and 14.9% visited an emergency department (ED) or were admitted to a hospital (2007) for COPD-related symptoms in the previous 12 months. Only 48.1% of persons reported daily use of medications for their COPD (2007). These results indicate that many adults with COPD might not have had adequate diagnostic spirometry, and many who might benefit from daily medications, such as long-acting bronchodilators and inhaled corticosteroids, are not taking them. Continued and expanded surveillance is needed to evaluate the effectiveness of prevention and intervention programs and support efforts to educate the public and physicians about COPD symptoms, diagnosis, and treatment.

BRFSS is a state-based, random-digit—dialed telephone survey of the civilian noninstitutionalized U.S. population aged ≥18 years that is conducted annually by state health departments in collaboration with CDC.* This report summarizes unique state-specific data collected by the North Carolina Division of Public Health in 2007 and 2009. Council of American Survey and Research Organizations (CASRO) response rates[†] for the state were 55.4% in 2007 and 62.5% in 2009. Cooperation rates[§] were 74.8% in 2007 and 80.5% in 2009.

All respondents were asked, "Have you ever been told by a doctor or health professional that you have COPD, emphysema, or chronic bronchitis?" Respondents who answered "yes" to this question were asked a series of follow-up questions about health-care resource use and quality of life related to their COPD. Crude and age-adjusted (5) prevalence estimates and 95% confidence intervals (CI) were calculated for groups defined by selected characteristics. Statistical significance (p<0.05) was determined by t-test. Follow-up questions were analyzed separately if they were not identical in the 2 years that the COPD module was administered.

Among respondents, 5.7% reported having been told by a health professional that they had COPD, emphysema, or chronic bronchitis (Table). The prevalence of self-reported COPD increased with age, from a low of 3.1% for adults aged 18–44 years, to >10% for adults aged ≥65 years. Respondents with less than a high school diploma were more likely to report COPD (11.1%) than those with a high school diploma (6.7%) or at least some college education (4.2%). No significant differences were observed by sex or race. Current smokers were more likely to report COPD (11.7%) than either former smokers (5.6%) or never smokers (3.0%).

Respondents who reported COPD were less likely to report having no personal doctor or health-care provider (16.0%) than respondents without COPD (23.0%) (Figure). However, persons with COPD were more likely to report cost as an obstacle to medical care (34.0% versus 17.0%), poor or fair health status (46.0% versus 16.0%), or moderate or severe disability

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

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

[§] The percentage of persons who completed interviews among all eligible persons who were contacted.

[¶]In 2007, the follow-up COPD module included the following questions: 1) "Have you ever been given a breathing test to diagnose your COPD, chronic bronchitis, or emphysema?" 2) "Would you say that shortness of breath affects the quality of your life?" 3) "Other than a routine visit, have you had to see a doctor in the past 12 months for symptoms related to shortness of breath, bronchitis, or other COPD, or emphysema flare?" 4) "Did you have to visit an emergency room or be admitted to the hospital in the past 12 months because of your COPD, chronic bronchitis, or emphysema?" and 5) "How many different medications do you currently take each day to help with your COPD, chronic bronchitis, or emphysema (categorized as none or at least one medication reported)?" In 2009, the follow-up COPD module included the following questions: 1) "Have you ever been given a breathing test, which measures how much air you can breathe out through a tube, to diagnose your COPD, chronic bronchitis, or emphysema?" 2) "Would you say that shortness of breath affects the quality of your life?" 3) "Other than a routine visit, have you had to see a doctor in the past 12 months for symptoms related to shortness of breath, bronchitis, or other COPD, or emphysema flare?" 4) "During the past 12 months, have you stayed in a hospital overnight because of shortness of breath, COPD, or emphysema flare?" and 5) "Prednisone is a medicine that helps people with breathing problems breathe easier. It is sometimes called Deltasone or Medrol. During the past 12 months, has a doctor ever prescribed prednisone for your breathing problems?"

TABLE. Age-specific and age-adjusted* percentage of adults reporting having ever been told by a doctor or health professional that they had chronic obstructive pulmonary disease (COPD), emphysema, or chronic bronchitis, by selected characteristics — Behavioral Risk Factor Surveillance System (BRFSS), North Carolina, 2007 and 2009

Characteristic	No. of respondents†	No. with COPD [†]	%	(95% CI)
Total*	26,227	2,187	5.7	(5.3–6.1)
Year*				
2007	13,990	1,195	6.0	(5.5-6.6)
2009	12,237	992	5.4	(4.8-6.0)
Age group (yrs)				
18–44	7,395	256	3.1	(2.5-3.7)
45-54	5,202	361	6.4	(5.3-7.6)
55–64	5,587	570	8.6	(7.7-9.5)
65–74	4,579	608	11.7	(10.6-12.9)
≥75	3,464	392	10.4	(9.1–11.7)
Sex*				
Men	9,622	693	5.3	(4.7-6.1)
Women	16,605	1,494	6.0	(5.5-6.5)
Race*				
White	20,823	1,830	5.7	(5.2-6.1)
Black	3,668	244	4.9	(3.7-6.1)
Other [§]	1,606	106	6.7	(5.0-8.5)
Educational level*				
Less than high school diploma or GED	3,521	547	11.1	(9.4–12.8)
High school diploma or GED	7,766	766	6.7	(5.7-7.6)
At least some college	14,914	873	4.2	(3.7-4.6)
Smoking status*				
Current smoker	5,015	791	11.7	(10.4-13.1)
Former smoker	7,948	877	5.6	(4.9-6.3)
Never smoked	13,175	513	3.0	(2.5-3.5)

 $\label{lem:abbreviations: COPD = chronic obstructive pulmonary disease, which includes emphysema and chronic bronchitis; CI = confidence interval; GED = General Education Development certificate.$

(37.0% versus 9.1%), compared with persons without COPD. No statistically significant differences were observed in having health-care coverage based on COPD status.

Among respondents who reported having ever been diagnosed with COPD, 76.4% reported having had a diagnostic breathing test in 2007 and 82.4% in 2009. A doctor's visit for COPD-related symptoms (including shortness of breath, bronchitis, and COPD or emphysema flare) in the past 12 months was reported by 43.0%. More than two thirds of respondents with COPD (70.7%) reported that shortness of breath affected their quality of life. An ED visit or hospital admission for COPD-related symptoms in the past 12 months was reported by 14.9% of respondents with COPD in 2007. In 2009, 13.8% of adults with COPD reported an overnight hospital stay for COPD-related symptoms in the past 12 months. In 2007, 48.1% of respondents with COPD reported use of

at least one daily medication for COPD, and in 2009, 28.7% said they had been prescribed prednisone. Adults who reported a physician visit for COPD symptoms, a visit to an ED or hospital admission for COPD, or impaired quality of life because of COPD symptoms were more likely to be using daily COPD medications compared with those without (56.3% versus 28.0%, 71.7% versus 34.8%, and 48.0% versus 25.5%, respectively). Those adults also were more likely to have been prescribed prednisone compared with those without such reports (50.1% versus 11.4%, 69.5% versus 21.7%, and 33.7% versus 13.9%, respectively).

Among respondents who reported a COPD diagnosis, those aged 18-44 years in 2007 were less likely to report having had a breathing test for the diagnosis of their COPD (59.1%; CI = 44.7% - 73.4%) compared with all other age groups. In 2009, those aged 18-44 years were less likely to report having had a diagnostic breathing test (70.8%; CI = 58.3%-83.3%) compared with those aged 65–74 years (92.0%; CI = 88.5%–95.4%). No significant differences were observed between groups defined by sex, race, educational level, smoking status, health-care coverage status, having a personal physician or health-care provider, restricted access to doctor because of cost, or self-rated health status. In 2007, those who had visited an ED or had been admitted to the hospital because of COPD

were more likely to report a diagnostic breathing test (90.0%; CI = 81.1%–99.0%) compared with those without such a hospital visit (66.8%; CI = 58.3%–75.2%). In 2009, nearly all (99.4%; CI = 98.7%–100.0%) the adults who reported an overnight stay at the hospital for COPD reported a diagnostic breathing test compared with 77.3% (CI = 70.2%–84.3%) of those who did not report an overnight hospital stay. In 2007, 82.9% (CI = 75.6%–90.2%) of adults taking at least one COPD medication daily reported a diagnostic breathing test compared with 61.4% (CI = 51.3%–71.5%) of those not taking any COPD medications.

Reported by

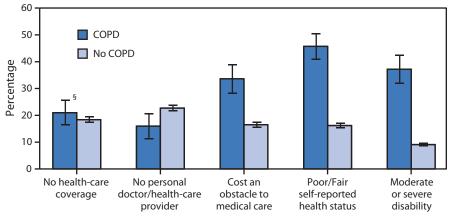
Harry Herrick, MSPH, MSW, MEd, North Carolina State Center for Health Statistics; Roy Pleasants, PharmD, Duke Univ School of Medicine, Durham, North Carolina. Anne G. Wheaton, PhD,

^{*} Age-adjusted to the 2000 U.S. standard population aged ≥18 years.

[†] Unweighted sample. Categories might not sum to survey total because of missing responses. Of 28,054 respondents who completed the 2007 and 2009 North Carolina BRFSS interview, 1,650 had a missing value on the self-reported COPD question, and 177 had a missing value on age.

S Asian, Native Hawaiian or Pacific Islander, American Indian or Alaska Native, and multiracial. Hispanic ethnicity is not presented because of small sample sizes.

FIGURE. Age-adjusted* percentage of selected health-care-related characteristics† by COPD status — Behavioral Risk Factor Surveillance System, North Carolina, 2007 and 2009



Health-care—related characteristic **Abbreviation:** COPD = chronic obstructive pulmonary disease, which includes emphysema and chronic

§ 95% confidence interval.

Yong Liu, MD, Earl S. Ford, MD, Letitia R. Presley-Cantrell, PhD, Janet B. Croft, PhD, Div of Population Health, National Center for Chronic Disease Prevention and Health Promotion, CDC. Corresponding contributor: Anne G. Wheaton, awheaton@cdc.gov, 770-488-5362.

Editorial Note

North Carolina has used the 2007 BRFSS data to identify counties with high COPD prevalence and has implemented public awareness activities for local community and education programs for health-care providers. Most recently, 2007 and 2009 BRFSS data formed the basis for community-based programs that targeted persons with low incomes who used free clinics as their primary source of health care. These programs are taking place through a network of free clinics in North Carolina, South Carolina, and Virginia.

Prevalence of self-reported, physician-diagnosed COPD was 5.7% among adults in North Carolina. More than 20% of respondents with COPD had not been given a breathing test when diagnosed with COPD. Although COPD has no cure, medications are used to improve health status and quality of life by controlling symptoms, reducing the frequency and severity of COPD exacerbations, and improving exercise

tolerance. A significant proportion of persons who likely suffer from more severe COPD, as suggested by physician visits for COPD symptoms, hospital visits for COPD, and impaired quality of life because of shortness of breath, were not using daily medications to control their COPD. This discrepancy might reflect an underuse of medications to control symptoms. Many respondents also indicated that COPD symptoms resulted in physician and hospital visits in the previous 12 months. These results suggest that COPD is not well-controlled in North Carolina.

The prevalence of COPD in this report is similar to national, self-reported data from 1998–2009 (2). The annual average prevalence of COPD in the U.S. Census division that includes North Carolina (South Atlantic) was 5.8% for 2007–2009 (2). However, if spirometry measures are used as the criterion, data from the National Health and Nutrition Examination Survey show that self-reported COPD only identifies half of persons with COPD (6). Therefore, prevalence estimates based on self-report likely are underestimates.

Although most respondents with COPD

reported having been given a breathing test to diagnose their COPD, >20% did not report a diagnostic breathing test. Spirometry is important to distinguish between COPD and other conditions, primarily asthma. The specificity that was added to the breathing test question in 2009 (i.e., "...which measures how much air you can breathe out through a tube...") might have aided respondent recall, resulting in a greater number of respondents reporting having had a breathing test compared with 2007 responses. This has implications for future use of this question. Age-adjustment also affected breathing test rates, because young adults are less likely to have the test. This, in turn, argues for the need for younger adults (18-44 years) with COPD symptoms to have a diagnostic breathing test, particularly because COPD is more difficult to diagnosis in its early stages. Conducting spirometry after administration of a bronchodilator also is helpful in predicting how well a patient will respond to treatment. New clinical practice guidelines from the American College of Physicians (7) recommend that "spirometry should be obtained to diagnose airflow obstruction in patients with respiratory symptoms." These respiratory symptoms include chronic cough, wheezing, sputum production, and shortness of breath. Respondents who had visited a hospital for COPD symptoms in the previous 12

bronchitis.

* Age-adjusted to the 2000 U.S. standard population aged ≥18 years.

[†] Health-care coverage based on response to, "Do you have any kind of health-care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicare?" Personal doctor/health-care provider based on response to, "Do you have one person you think of as your personal doctor or health care provider?" Cost an obstacle to medical care based on response to, "Was there a time in the past 12 months when you needed to see a doctor but could not because of cost?" Health status based on response to, "Would you say that in general your health is — excellent, very good, good, fair, or poor." Disability category based on response to, "A disability can be physical, mental, emotional, or communication related. Do you consider yourself to have a disability?" If yes, respondents were asked, "Would you say your disability is mild, moderate, or severe?"

months were more likely to have had a diagnostic breathing test. Determining whether this finding was a result of breathing tests being administered to persons with more severe symptoms and possibly more advanced COPD was beyond the scope of the survey.

The findings in this report are subject to at least four limitations. First, BRFSS only surveyed households with landline telephones in 2007 and 2009. The proportion of cellular telephone-only households (no landline, but accessible by cellular telephone) has increased substantially in recent years, which results in a larger segment of the younger, single or never married, Hispanic, or unemployed adult populations not being included in landline samples (8). Because COPD is observed more commonly in older populations, this limitation might not be important. Second, institutionalized persons are not surveyed by BRFSS. Because this category includes older persons in nursing facilities, the actual prevalence of COPD in North Carolina might be higher than it was in the BRFSS sample. Third, the response rates (55.4% in 2007 and 62.5% in 2009) also might limit the generalizability of the results if the characteristics of the respondents and nonrespondents differ. Finally, the BRFSS North Carolina estimates are based on self-report and not on physiologic measures, such as spirometry, and thus might underestimate the actual prevalence of COPD and burden of disease.

Although some data on COPD prevalence on a national or regional level are available, only a few states had undertaken efforts to collect COPD prevalence data before 2011. North Carolina was the first to collect data regarding use of diagnostic breathing tests, physician visits, hospital admissions, and use of COPD medications as part of an existing surveillance system. High quality surveillance data are necessary to evaluate the effectiveness of prevention and intervention programs such as the National Heart, Lung, and Blood Institute's "COPD Learn More Breathe Better" campaign** and to improve public and physician awareness of symptoms of COPD, diagnosis, and treatment. In addition to these benefits of expanded surveillance, the public health community can help to reduce the burden of COPD by reducing exposure to environmental tobacco smoke, dust, and other indoor and outdoor air pollutants through tobacco-control and other policies, and by continuing to support and expand smoking cessation programs. Physicians should encourage smoking cessation among all smoking patients. Clinical interventions have been shown to increase motivation to quit and improve abstinence rates (9). Furthermore, smoking cessation decreases the rate in lung function decline among COPD patients (10).

What is already known on this topic?

Chronic obstructive pulmonary disease (COPD) is a leading cause of death and disability in the United States, but information on state-specific prevalence has been sparse.

What is added by this report?

Among adults in North Carolina, 5.7% reported having been told by a health professional that they had COPD. A majority of persons with COPD had been given a diagnostic breathing test, but less than half were using daily COPD medications.

What are the implications for public health practice?

Physicians should conduct spirometry to diagnose COPD and prescribe appropriate medications to control symptoms and reduce exacerbations. Clinicians and the public health community also should support smoking cessation efforts.

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^{**} Additional information is available at http://www.nhlbi.nih.gov/health/public/lung/copd/index.htm.

Announcement

National Sleep Awareness Week — March 5–11, 2012

During March 5–11, 2012, National Sleep Awareness Week will be observed in the United States. The National Sleep Foundation recommends that U.S. adults receive, on average, 7–9 hours of sleep per night (*I*); however, 37.1% of adults report regularly sleeping <7 hours per night (*2*).

Persons reporting sleeping <7 hours on average during a 24-hour interval are more likely to report unintentionally falling asleep during the day at least 1 day out of the preceding 30 days (46.2% compared with 33.2%) and nodding off or falling asleep at the wheel during the previous 30 days (7.3% compared with 3.0%) (3). Frequent insufficient sleep (14 or more days in the past 30 days) also has been associated with self-reported anxiety, depressive symptoms, and frequent mental and physical distress (4).

Such findings suggest the need for greater awareness of the importance of sufficient sleep. Further information about factors relevant to optimal sleep can be obtained from the National Sleep Foundation (http://www.sleepfoundation.org) and CDC (http://www.cdc.gov/sleep).

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Erratum

Vol. 61, No. 5

In the QuickGuide supplement, "Recommended Immunization Schedules for Persons Aged 0 Through 18 Years — United States, 2012," an error occurred on page 2, in the second bulleted text in the first footnote regarding hepatitis B vaccination. The bulleted text should read, "For infants born to hepatitis B surface antigen (HBsAg)—positive mothers, administer HepB vaccine and 0.5 mL of hepatitis B immune globulin (HBIG) within 12 hours of birth. These infants should be tested for HBsAg and antibody to HBsAg (anti-HBs) 1 to 2 months after completion of at least 3 doses of the HepB series, at age 9 through 18 months (generally at the next well-child visit)."

Notifiable Diseases and Mortality Tables

 $TABLE\ I.\ Provisional\ cases\ of\ infrequently\ reported\ notifiable\ diseases\ (<1,000\ cases\ reported\ during\ the\ preceding\ year)\ --\ United\ States,\ week\ ending\ February\ 25,\ 2012\ (8th\ week)^*$

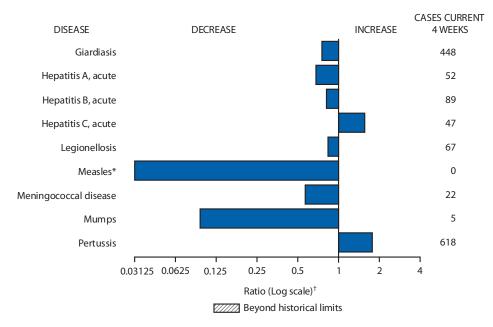
	Current	Cum 2012	5-year weekly average [†]	Total cases reported for previous years					States reporting cases	
Disease	Current week			2011	2010	2009	2008	2007	States reporting cases during current week (No.)	
Anthrax				1		1		1	<u> </u>	
rboviral diseases [§] , ¶:										
California serogroup virus disease	_	_	0	132	75	55	62	55		
Eastern equine encephalitis virus disease	_	_	_	4	10	4	4	4		
Powassan virus disease	_	_	_	16	8	6	2	7		
St. Louis encephalitis virus disease	_		0	5	10	12	13	9		
Western equine encephalitis virus disease	_	_	_	_	_		_	_		
	1			— 755					DA (1)	
Babesiosis		10 9	0	132	NN 112	NN 110	NN 145	NN 144	PA (1)	
Botulism, total foodborne	_	9	2 0		112 7	118	145 17	144 32		
infant	_	_	2	11		10				
	_	8		89	80	83	109	85		
other (wound and unspecified)	_	1	0	32	25	25	19	27	NIV.C (1)	
rucellosis	1	8	1	81	115	115	80	131	NYC (1)	
hancroid 	1	3	1	27	24	28	25	23	NC (1)	
holera , , , §	_	_	0	31	13	10	5	7	FI (a)	
yclosporiasis [§]	1	5	2	153	179	141	139	93	FL (1)	
iphtheria **	_	_	_	_	_	_	_	_		
laemophilus influenzae,** invasive disease (age <5 yrs):										
serotype b	_	3	1	11	23	35	30	22		
nonserotype b	2	25	5	115	200	236	244	199	NY (1), OK (1)	
unknown serotype	3	33	4	249	223	178	163	180	OH (1), FL (2)	
ansen disease [§]	_	5	2	50	98	103	80	101		
antavirus pulmonary syndrome §	_	1	0	20	20	20	18	32		
emolytic uremic syndrome, postdiarrheal ⁹	_	4	2	216	266	242	330	292		
ıfluenza-associated pediatric mortality [§] , ††	1	4	5	118	61	358	90	77	NC (1)	
steriosis	2	54	9	837	821	851	759	808	MO (1), SC (1)	
easles ^{§§}	_	13	2	217	63	71	140	43		
leningococcal disease, invasive ^{¶¶} :										
A, C, Y, and W-135	1	14	9	196	280	301	330	325	NY (1)	
serogroup B	_	4	5	121	135	174	188	167		
other serogroup	_	1	1	18	12	23	38	35		
unknown serogroup	4	53	12	390	406	482	616	550	NY (1), GA (1), FL (1), TX (1)	
ovel influenza A virus infections***	_	_	0	8	4	43,774	2	4		
lague	_	_	_	2	2	8	3	7		
oliomyelitis, paralytic	_	_	_	_	_	1	_	_		
olio virus Infection, nonparalytic [§]	_	_	_	_	_	_	_	_		
sittacosis	_	_	0	2	4	9	8	12		
fever, total [§]	_	6	2	116	131	113	120	171		
acute	_	3	1	91	106	93	106	_		
chronic	_	3	0	25	25	20	14	_		
abies, human	_	_	_	2	2	4	2	1		
ubella ^{†††}	_	1	0	4	5	3	16	12		
ubella, congenital syndrome	_		_	_	_	2	_			
ARS-CoV [§]	_	_	_	_	_	_	_	_		
mallpox [§]	_	_	_	_		_	_			
treptococcal toxic-shock syndrome [§]	1	15	4	141	142	161	157	132	VT (1)	
/philis, congenital (age <1 yr) ^{\$§§}		2	8	282	377	423	431	430	V 1 (1)	
etanus	_	_	0	12	26	18	19	28		
etanus oxic-shock syndrome (staphylococcal) [§]	_ 1	6	2	12 81	26 82	18 74	71		NY (1)	
ichinellosis	1				82 7			92	14 1 (1 <i>)</i>	
	_	1	0	10		13	39 122	5 127		
ularemia	_	_	0	140	124	93	123	137		
phoid fever	_	31	8	373	467	397	449	434	El (1)	
ancomycin-intermediate Staphylococcus aureus §	1	5	1	66	91	78	63	37	FL (1)	
ancomycin-resistant Staphylococcus aureus	_	_	_		2	1		2		
ibriosis (noncholera <i>Vibrio</i> species infections) [§]	2	27	3	779	846	789	588	549	MD (1), WA (1)	
iral hemorrhagic fever ^{¶¶¶}	_	_	_	_	1	NN	NN	NN		
ellow fever	_	_	_	_	_	_	_	_		

See Table 1 footnotes on next page.

TABLE I. (Continued) Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending February 25, 2012 (8th week)*

- —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts.
- * Case counts for reporting year 2011 and 2012 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/nndss/phs/files/ProvisionalNationa%20NotifiableDiseasesSurveillanceData20100927.pdf.
- † 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/osels/ph_surveillance/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 arboviral diseases, STD data, TB data, and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/osels/ph_surveillance/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 weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Since October 2, 2011, four influenza-associated pediatric deaths occurring during the 2011-12 influenza season have been reported.
- §§ No measles cases were reported for the current week.
- ¶ Data for meningococcal disease (all serogroups) are available in Table II.
- *** CDC discontinued reporting of individual confirmed and probable cases of 2009 pandemic influenza A (H1N1) virus infections on July 24, 2009. During 2009, four cases of human infection with novel influenza A viruses, different from the 2009 pandemic influenza A (H1N1) strain, were reported to CDC. The four cases of novel influenza A virus infection reported to CDC during 2010, and the eight cases reported during 2011, were identified as swine influenza A (H3N2) virus and are unrelated to the 2009 pandemic influenza A (H1N1) virus. Total case counts are provided by the Influenza Division, National Center for Immunization and Respiratory Diseases (NCIRD).
- ††† No rubella cases were reported for the current week.
- 555 Updated weekly from reports to the Division of STD Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention.
- 👭 There were no cases of viral hemorrhagic fever reported during the current week. See Table II for dengue hemorrhagic fever

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals February 25, 2012, with historical data



^{*} No measles cases were reported for the current 4-week period yielding a ratio for week 8 of zero (0).

Notifiable Disease Data Team and 122 Cities Mortality Data Team

Jennifer Ward
Willie J. Anderson
Rosaline Dhara
Pearl C. Sharp
Deborah A. Adams
Lenee Blanton
Diana Harris Onweh
Michael S. Wodajo

[†] Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

		Chlamydia	trachomati	s infection			Cocci	dioidomy	cosis			Cryp	otosporidio	osis	
	Current	Previous	52 weeks	Cum	Cum	Current	Previous 5	2 weeks	Cum	Cum	Current	Previous :	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2012	2011	week	Med	Max	2012	2011	week	Med	Max	2012	2011
United States	10,634	26,782	30,750	153,380	204,705	55	400	587	2,149	3,542	31	133	399	584	745
New England	611	900	1,593	4,725	5,314	_	0	1	_	_	_	6	22	30	39
Connecticut	_	240	869	447	271	N	0	0 0	N	N	_	1 1	9	5	10
Maine Massachusetts	497	59 424	100 860	447 3,029	466 3,103	N N	0	0	N N	N N	_	3	4 8	2 15	4 18
New Hampshire	1	59	90	254	483	_	0	1	_		_	1	5	3	3
Rhode Island	90	80	187	859	752	_	0	0	_	_	_	0	1	_	1
Vermont	23	27	62	136	239	N	0	0	N	N	_	1	5	5	3
Mid. Atlantic	1,733	3,158	3,975	21,676	24,781		0	0		_	2	15	44	64	105
New Jersey	151	539	898	3,393	3,629	N	0	0	N	N	_	1	4	1	8
New York (Upstate) New York City	754 159	715 1,023	1,903 1,315	4,659 5,412	4,880 8,570	N N	0	0 0	N N	N N	1	4 1	16 6	17 12	26 11
Pennsylvania	669	1,043	1,599	8,212	7,702	N	0	0	N	N	1	8	27	34	60
E.N. Central	865	4,178	4,646	22,089	34,634	1	1	5	9	5	7	32	148	127	160
Illinois	17	1,186	1,434	4,277	9,705	N	0	0	N	N	_	3	26	3	17
Indiana	223	557	730	3,437	4,710	N	0	0	N	N	_	3	14	_	25
Michigan	488	935	1,210	6,275	8,277	_	1	3	5	1	1	7	14	30	32
Ohio Wisconsin	137	1,028 461	1,184 551	5,614	8,200 3,742	1 N	0	2 0	4 N	4 N	6	11 8	95 65	68 26	52 34
	31	1,501	1,818	2,486 2,676	11,627		0	2	IN	IN	_ 1	15	85	26 52	81
W.N. Central lowa	13	212	433	1,526	1,707	 N	0	0	N N	N		6	19	16	30
Kansas	_	208	433 281	1,326	1,516	N N	0	0	N	N N	_	0	11	3	
Minnesota	_	319	404	_	2,662	_	0	0	_	_	_	0	0	_	_
Missouri	_	529	759	_	3,970	_	0	0	_	_	_	5	61	17	23
Nebraska	_	124	213	546	859	_	0	2	_	_	_	2	12	6	22
North Dakota South Dakota	— 18	46 62	76 89	5 485	344 569	N N	0	0 0	N N	N N	_ 1	0 2	12 13	10	6
	4,045	5,464	7,444	40,760	43,174	_	0	2	IN	IN	16	21	61	139	157
S. Atlantic Delaware	82	86	182	585	605		0	0			- 10	0	3	4	2
District of Columbia	134	110	217	1,006	838	_	0	0	_	_	_	0	1	_	2
Florida	789	1,504	1,687	10,943	11,580	N	0	0	N	N	12	8	17	66	66
Georgia	875	1,099	1,563	7,903	6,785	N	0	0	N	N	2	5	12	29	39
Maryland	217	478 997	769	1,806 7,299	3,504		0	2 0			_	1 0	7	16	8
North Carolina South Carolina	628 478	535	1,688 1,344	7,299 4,691	7,426 5,498	N N	0	0	N N	N N		2	46 6	13	20
Virginia	764	659	1,779	5,766	6,220	N	0	0	N	N	_	2	8	10	11
West Virginia	78	81	146	761	718	N	0	0	N	N	_	0	5	1	_
E.S. Central	1,612	1,918	2,804	15,188	13,917	_	0	0	_	_	1	8	25	39	22
Alabama	498	539	1,566	3,483	4,246	N	0	0	N	N	1	3	7	17	13
Kentucky	475	307	557	2,438	1,457	N	0	0	N	N	_	2	17	4	6
Mississippi	419	440 605	792	4,630	3,540 4,674	N N	0	0 0	N N	N	_	1 2	4 6	6	2 1
Tennessee	220 333	3,295	810	4,637			0	1	IN	N 1		9	44	12 50	44
W.S. Central Arkansas	272	3,293	4,311 439	18,411 2,609	25,594 2,147	 N	0	0	 N	N	_	0	2	3	1
Louisiana		356	1,071	1,566	3,059		0	1		1	_	1	9	11	5
Oklahoma	61	113	675	691	1,705	N	0	0	N	N	2	2	6	10	8
Texas	_	2,385	3,108	13,545	18,683	N	0	0	N	N	_	5	40	26	30
Mountain	849	1,715	2,419	10,459	14,244	54	308	459	1,923	2,722	1	10	29	41	77
Arizona	140	546	791	3,527	4,267	49	304	456	1,900	2,684	_	1	4	2	4
Colorado	394	408	847	2,575	3,591	N	0	0	N	N	_	2	11	4	22
Idaho Montana	107 55	85 68	274 87	550 578	611 521	N N	0	0 0	N N	N N	_	1	9 6	12 9	8 6
Nevada		200	319	566	2,064	5	2	5	17	15	_	0	2	2	2
New Mexico	152	220	336	1,598	1,797	_	1	4	_	15	_	2	9	8	20
Utah	1	135	190	957	1,064	_	0	4	4	6	_	1	5	1	7
Wyoming		31	67	108	329	_	0	2	2	2	1	0	3	3	8
Pacific	555	4,016	5,438	17,396	31,420	_	93	168	217	814	1	9	21	42	60
Alaska	40	108	152	812	971	N	0	0 160	N 217	N 014	_	0	3 16	20	3
California Hawaii	_	3,017 113	4,509 142	11,887	23,893 962	 N	93 0	168 0	217 N	814 N	_	6 0	16 1	38 2	29
Oregon	190	276	412	2,062	1,926	N	0	0	N	N	_	2	8	1	21
Washington	325	437	612	2,635	3,668	N	0	0	N	N	1	1	16	1	7
Territories															
American Samoa	_	0	0	_	_	N	0	0	N	N	N	0	0	N	N
C.N.M.I.	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Guam		15 105	44 348	1,009	88 889	N	0	0 0	N	 N	N	0	0 0	N	N
Puerto Rico	176														

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.

* Case counts for reporting year 2011 and 2012 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/nndss/phs/files/ProvisionalNationa%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

			engue Fever ¹	•			Dengue H	lemorrhagic F	ever ⁹	
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2012	2011	week	Med	Max	2012	2011
Inited States	_	2	17	_	36		0	1	_	_
ew England	_	0	1	_	1	_	0	0	_	_
Connecticut	_	Ö	Ö	_		_	Ö	Ö	_	_
Maine	_	0	0	_	_	_	0	0	_	_
Massachusetts	_	0	0	_	_	_	0	0	_	_
New Hampshire	_	0	0	_	_	_	0	0	_	_
Rhode Island	_	0	0	_	-	_	0	0	_	_
Vermont	_	0	1	_	1	_	0	0	_	_
id. Atlantic	_	1	6	_	10	_	0	0	_	_
New Jersey	_	0	0	_	_	_	0	0	_	_
New York (Upstate)	_	0	2	_	1	_	0	0	_	_
New York City	_	0	4	_	5	_	0	0	_	_
Pennsylvania	_	0	2	_	4	_	0	0	_	_
N. Central	_	0	2	_	5	_	0	1	_	_
llinois	_	0	1	_	1	_	0	1	_	_
ndiana	_	0	1	_	1	_	0	0	_	_
Michigan Ohio	_	0	2 1	_	1	_	0	0	_	_
Wisconsin	_	0	1	_	2	_	0	0	_	
'.N. Central	_	0	2 1	_	1	_	0	0	_	_
lowa Kansas	_	0	1	_	_	_	0	0	_	_
Minnesota	_	0	1		1	_	0	0	_	
Missouri	_	0	Ö	_		_	0	0	_	
Nebraska	_	ő	0	_	_	_	Ö	Ö	_	_
North Dakota	_	ő	1	_	_	_	Ő	Ö	_	_
South Dakota	_	0	0	_	_	_	0	0	_	_
Atlantic	_	1	9	_	8	_	0	1	_	_
Delaware	_	Ö	2	_	_	_	ő	Ö	_	_
District of Columbia	_	Ö	0	_	_	_	Ö	Ö	_	_
Florida	_	1	7	_	5	_	0	0	_	_
Georgia	_	0	1	_	1	_	0	0	_	_
Maryland	_	0	2	_	_	_	0	0	_	_
North Carolina	_	0	1	_	1	_	0	0	_	_
South Carolina	_	0	1	_	_	_	0	0	_	_
Virginia	_	0	1	_	1	_	0	1	_	_
West Virginia	_	0	0	_	_	_	0	0	_	_
S. Central	_	0	3	_	_	_	0	0	_	_
Alabama	_	0	1	_	_	_	0	0	_	_
Kentucky	_	0	1	_	_	_	0	0	_	_
Mississippi	_	0	0	_	_	_	0	0	_	_
Tennessee	_	0	2	_	_	_	0	0	_	_
'.S. Central	_	0	2	_	_	_	0	0	_	_
Arkansas	_	0	0 1	_	_	_	0	0	_	_
Louisiana Oklahoma	_	0	0	_	_	_	0	0	_	_
Texas	_	0	1	_	_	_	0	0	_	_
	_	0	1	_		_	0	0	_	_
l ountain Arizona	_	0	1	_	2 1	_	0	0	_	
Colorado	_	0	Ö	_		_	0	0	_	
Idaho	_	Ö	0	_	_	_	Ö	Ö	_	_
Montana	_	Ö	Ö	_	_	_	Ö	Ö	_	_
Nevada	_	0	1		_	_	0	0		_
New Mexico	_	0	1	_	1	_	0	0	_	_
Utah	_	0	1	_	_	_	0	0	_	_
Wyoming	_	0	0	_	_	_	0	0	_	_
cific	_	0	4	_	9	_	0	0	_	_
Alaska	_	0	0	_	_	_	0	0	_	_
California	_	0	2	_	3	_	0	0	_	_
Hawaii	_	0	4	_	4	_	0	0	_	_
Oregon	_	0	0	_	_	_	0	0	_	_
Washington	_	0	1	_	2	_	0	0	_	_
erritories American Samoa		0	0	_		_	0	0	_	
C.N.M.I.	_	_	_	_	_	_	_	_	_	_
Guam	_	0	0	_	_	_	0	0	_	_
Puerto Rico	_	10	83	_	159	_	0	3	_	1
U.S. Virgin Islands	_	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.

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† Dengue Fever includes cases that meet criteria for Dengue Fever with hemorrhage, other clinical and unknown case classifications.

§ DHF includes cases that meet criteria for dengue shock syndrome (DSS), a more severe form of DHF.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

							Ehrlichic	sis/Anapla	smosis†						
		Ehrli	chia chaffe	ensis			Anaplasn	na phagocy	tophilum			Und	letermine	ł	
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous 5	2 weeks	Cum	Cum
Reporting area	week	Med	Max	2012	2011	week	Med	Max	2012	2011	week	Med	Max	2012	2011
United States	1	9	90	9	11	2	16	58	15	19	1	2	8	3	2
New England	1	0	1	1	_	_	3	28	2	12	_	0	1	_	_
Connecticut Maine	_	0	0 1	_	_	_	0	0 3	1	_ 1	_	0	0	_	_
Massachusetts	_	0	Ö	_	_	_	1	18		1	_	0	0	_	_
New Hampshire	_	0	1	_	_	_	0	4	_		_	0	1	_	_
Rhode Island Vermont	1	0	1 0	1	_	_	0	15 1	1	10	_	0	1 0	_	_
Mid. Atlantic	_	1	5	_	1	2	6	43	11	3	1	0	2	1	_
New Jersey	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
New York (Upstate) New York City	_	0	4 2	_	_ 1	2	3 1	43 5	8	2 1	1	0	2 0	1	_
Pennsylvania	_	0	0	_		_	0	1	_		_	0	0	_	_
E.N. Central	_	0	5	_	2	_	0	2	_	1	_	0	6	_	2
Illinois	_	0	4	_	1	_	0	2	_	_	_	0	1	_	1
Indiana Michigan	_	0	0 2	_	_	_	0	0	_	_	_	0	4 2	_	1
Ohio	_	0	1	_	1	_	0	1	_	_	_	0	1	_	_
Wisconsin	_	0	0	_	_	_	0	1	_	1	_	0	1	_	_
W.N. Central	_	1	16	1	_	_	0	6	_	_	_	0	6	_	_
Iowa Kansas	N	0	0 2	N	N —	N 	0	0 1	N	N —	N	0	0 1	N —	N
Minnesota	_	0	0	_	_	_	0	1	_	_	_	0	Ö	_	_
Missouri	_	1	16	1	_	_	0	5	_	_	_	0	6	_	_
Nebraska North Dakota	N	0	1 0	N	N	N	0	1 0	N	N	N	0	1 0	N	 N
South Dakota	_	0	1	_	_	_	0	1	_	_	_	0	0	_	_
S. Atlantic	_	3	33	7	8	_	1	8	2	2	_	0	2	2	_
Delaware	_	0	2		1	-	0	1	_		_	0	0		_
District of Columbia Florida	N	0	0 3	N	N 1	N	0	0 3	N	N —	N	0	0	N	N
Georgia	_	0	3	4	1	_	0	2	2	_	_	0	1	1	_
Maryland	_	0	3	_	3	_	0	2	_	_	_	0	1	1	_
North Carolina South Carolina	_	0	17 1	1	2	_	0	6 0	_	2	_	0	0 1	_	_
Virginia	_	1	13	2	_	_	0	3	_	_	_	0	1	_	_
West Virginia	_	0	1	_	_	_	0	0	_	_	_	0	1	_	_
E.S. Central Alabama	_	1 0	8 2	_	_	_	0	2 1	_	1 1	N	0	3 0	 N	 N
Kentucky	_	0	3	_	_	_	0	0	_		N	0	0		
Mississippi	_	0	1	_	_	_	0	1	_	_	_	0	0	_	_
Tennessee	_	0	5	_	_	_	0	1	_	_	_	0	3	_	_
W.S. Central	_	0	30	_	_	_	0	3	_	_	_	0	0	_	_
Arkansas Louisiana	_	0	13 0	_	_	_	0	3 0	_	_	_	0	0	_	_
Oklahoma	_	0	25	_	_	_	0	1	_	_	_	0	0	_	_
Texas	_	0	1	_	_	_	0	1	_	_	_	0	0	_	_
Mountain Arizona	_	0	0 0	_	_	_	0	0	_	_	_	0	1 1	_	_
Colorado	N	0	0	N	N	N	0	0	N	N	N	0	0	N	N
Idaho	N	0	0	N	N	N	0	0	N	N	N	0	0	N	N
Montana Nevada	N N	0	0 0	N N	N N	N N	0	0	N N	N N	N N	0	0	N N	N N
New Mexico	N	0	0	N	N	N	0	0	N	N	N	0	0	N	N
Utah	_	0	0	_	_	_	0	0	_	_	_	0	1	_	_
Wyoming	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Pacific Alaska	N	0	0 0	 N	 N	 N	0	1 0	N	 N	N	0	2	 N	 N
California		0	0				0	0				0	2		
Hawaii	N	0	0	N	N	N	0	0	N	N	N	0	0	N	N
Oregon Washington	_	0	0 0	_	_	_	0	1 0	_	_	_	0	0	_	_
				-			0								
Territories American Samoa	N	0	0	N	N	N	0	0	N	N	N	0	0	N	N
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam Puorto Pico	N	0	0	N	N	N	0	0	N	N	N	0	0	N	N
Puerto Rico U.S. Virgin Islands	N	0	0	N	N —	N —	0	0	N —	N —	N —	0	0	N —	N —

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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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† Cumulative total *E. ewingii* cases reported for year 2011 = 13, and 0 case reports for 2012.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

			Giardiasis	i				Gonorrhe	a		Ha	emophilus i All ages	nfluenzae, , all seroty		
Reporting area	Current week	Previous Med	52 weeks Max	Cum 2012	Cum 2011	Current	Previous 5	52 weeks Max	Cum 2012	Cum 2011	Current	Previous 5	52 weeks Max	Cum 2012	Cum 2011
United States	100	283	451	1,469	1,998	2,350	5,996	6,805	36,639	46,950	28	65	108	472	548
New England	3	26	64	100	186	71	109	178	500	746	_	4	9	34	35
Connecticut	_	4	10	24	37	_	44	101		337	_	1 0	5	11	8
Maine Massachusetts	1	3 12	10 29	12 47	16 97	— 59	5 47	18 80	52 345	22 318	_	2	2 7	4 16	5 16
New Hampshire	_	2	8	6	11	1	2	8	17	17	_	0	2	2	2
Rhode Island Vermont		0	10 19	2 9	10 15	10 1	7 0	35 6	81 5	47 5	_	0	2 2	1	3 1
Mid. Atlantic	29	56	91	268	429	410	735	988	5,297	5,594		15	30	117	100
New Jersey	_	1	14	_	57	31	149	217	921	960	_	2	6	6	20
New York (Upstate)	19	20	50	92	112	117	116	369	800	747	3	3	15	30	19
New York City Pennsylvania	5 5	16 15	29 30	108 68	144 116	50 212	240 268	315 492	1,247 2,329	1,921 1,966	_	4 5	10 15	36 45	17 44
E.N. Central	20	50	92	263	356	251	1,074	1,279	5,708	9,106	5	11	22	54	98
Illinois	_	11	20	42	79	7	302	397	1,038	2,445	_	3	11	1	28
Indiana	_	6	13	16	45	65	135	172	841	1,220	_	2	6	7	11
Michigan Ohio	5 15	10 15	22 30	77 96	73 100	133 46	237 313	375 403	1,659 1,614	2,177 2,574	1 4	1 4	5 7	12 29	15 29
Wisconsin	_	8	21	32	59	_	92	118	556	690		1	4	5	15
W.N. Central	3	18	50	106	136	7	313	382	498	2,285	2	2	9	18	18
lowa	1	4	15	27	31	4	37	108	280	292	_	0	1	_	_
Kansas Minnesota	_	2	9 0	10	14	_	42 44	65 61	35	288 331	_	0	2	2	1
Missouri	1	6	17	40	53	_	149	204	_	1,081	1	1	5	11	10
Nebraska	1	3	11	21	26	_	26	52	124	167	1	0	2	5	7
North Dakota South Dakota	_	0 1	12 8	8	 12		5 11	14 20	 59	32 94	_	0	6 1	_	_
S. Atlantic	25	53	105	342	354	1,011	1,500	1,946	10,720	11,634	10	14	31	127	138
Delaware	_	0	3	1	4	13	15	35	121	146	_	0	2	_	1
District of Columbia	_	1	5	2	8	46	38	105	384	324	_	0	1	_	_
Florida Georgia	20	23 13	69 51	142 117	183 61	203 242	373 322	473 456	2,714 2,202	2,968 2,111	7	4 2	12 6	36 20	44 32
Maryland	2	6	14	41	41	49	113	176	511	894	1	2	6	20	17
North Carolina	N	0 2	0 8	N 16	N 13	199 113	325 156	548 421	2,231	2,609	1	1	7 5	12	14 7
South Carolina Virginia	3	5	0 12	16 23	44	136	123	353	1,276 1,176	1,505 938	1	1 2	8	18 14	23
West Virginia	_	0	8	_	_	10	14	29	105	139		0	5	7	_
E.S. Central	_	4	9	25	17	377	523	789	4,015	3,759	3	4	12	34	30
Alabama Kentucky	 N	4 0	9 0	25 N	17 N	112 97	167 79	408 151	948 588	1,290 381	_ 1	1 1	3 4	5 9	10 6
Mississippi	N	0	0	N	N	113	118	242	1,280	952		0	3	5	3
Tennessee	N	0	0	N	N	55	148	243	1,199	1,136	2	2	8	15	11
W.S. Central	1	4	15	35	32	94	865	1,173	4,825	6,815	2	2	10	27	34
Arkansas Louisiana	1	3 2	8 10	14 21	11 21	70 —	89 106	138 255	690 453	672 893	_	0 1	3 4	3 10	6 16
Oklahoma	_	0	0	_	_	24	31	196	182	570	2	1	9	14	12
Texas	N	0	0	N	N	_	587	828	3,500	4,680	_	0	1	_	_
Mountain	5	22	41	86	154	79	209	325	1,326	1,744	1	5	10	37	61
Arizona Colorado	_	2 7	6 23	10 30	17 43	29 44	91 39	131 77	681 289	575 413	_	1 1	6 3	9	23 17
Idaho	_	3	9	10	24		2	15	3	22	_	0	2	4	2
Montana	_	2	5	7	5	3	1	4	17	14	_	0	1	2	2
Nevada New Mexico	3	1	4 6	10 3	16 11	3	38 35	77 73	80 211	415 253	_ 1	0 1	2	3 11	3 9
Utah	_	3	9	10	31	_	6	10	41	38		0	3	4	5
Wyoming	2	0	2	6	7	_	0	3	4	14	_	0	1	1	_
Pacific	14	47	181	244	334	50	635	758	3,750	5,267	_	4	9	24	34
Alaska California	1	2 32	7 51	9 161	11 231	2	18 520	31 610	98 3,164	142 4,370	_	0 1	3 5	2 8	5 11
Hawaii	_	0	4	2	4	_	12	24	· —	112	_	0	3	3	5
Oregon Washington	2 11	6 6	20	40 32	66 22	13 35	27 50	60 79	174 314	196	_	1 0	6 1	11	13
Washington	- 11		147	32		33		/9	314	447			ı		
Territories American Samoa	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam	_	0	0	_	_	_	0	5	_	1	_	0	0	_	_
Puerto Rico		0	4		12	7	6	14	38	57		0	0		

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

							Hepatitis (viral, acut	e), by type	2					
			Α					В					С		
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous 5	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2012	2011	week	Med	Max	2012	2011	week	Med	Max	2012	2011
United States	10	22	41	122	190	34	49	101	296	413	10	21	42	126	125
New England	_	1	5	3	13	_	1	8	1	20	_	1	5	2	9
Connecticut Maine	_	0	3 2	2 1	5 —	_	0	2 2	_ 1	5 1	_	0	4 3	2	8
Massachusetts	_	0	3	_	4	_	0	6	_	13		0	2		1
New Hampshire Rhode Island	_	0	0 1	_		 U	0	1 0	 U	1 U	N U	0	0	N U	N U
Vermont	_	Ö	2	_	2	_	Ö	Ö	_	_	_	0	1	_	_
Mid. Atlantic	2	4	8	24	37	1	5	11	23	44	2	2	5	15	8
New Jersey New York (Upstate)	_ 1	1 1	3 4	9	5 4	_	1 1	4 4	6 4	9 9	_ 1	0 1	2 4	2 5	 5
New York City	_	i	4	6	16	_	i	5	8	14	_	0	1	_	1
Pennsylvania	1	1	5	9	12	1	1	4	5	12	1	1	3	8	2
E.N. Central Illinois	_	3 1	7 5	10 3	37 7	5	5 1	37 3	37 1	72 17	3	2	8 2	17	24 1
Indiana	_	Ö	1	1	6	_	1	4	4	9	_	0	5	3	15
Michigan	_	1 0	6	5	11	2	1 1	6	7	19	2	1	5 1	13	7
Ohio Wisconsin	_	0	2 1	1	11 2	3	0	30 3	24 1	21 6	1	0	1	1	_ 1
W.N. Central	_	1	7	8	8	1	2	9	13	15	_	0	4	1	_
lowa	_	0	1	_	1	_	0	1	1	1	_	0	0	_	_
Kansas Minnesota	_	0	1 7	_	1	_	0	2 7	_	3	_	0	1 2	1	_
Missouri	_	0	3	5	3	1	1	4	11	6	_	0	0	_	_
Nebraska North Dakota	_	0	1 0	3	1	_	0	2	1	4	_	0	1 0	_	_
South Dakota	_	0	0	_	2	_	0	0	_	1	_	0	0	_	_
S. Atlantic	5	4	11	25	37	21	13	57	99	96	4	5	14	45	28
Delaware District of Columbia	_	0	1 0	1	1	_	0	2	3	_	U —	0	0	U	U —
Florida	3	1	8	12	11	6	4	7	30	31	2	1	5	20	7
Georgia	_	1	5	2	11	1	2	7	16	21	_	1	3	2	9
Maryland North Carolina	_ 1	0	4 3	2 4	4 3	2	1 1	4 9	13 9	8 20		1	3 7	4 6	3 6
South Carolina	1	0	2	1	2	1	1	3	7	5	_	0	1	_	_
Virginia West Virginia	_	0	3 2	2 1	5	 11	2	5 43	10 11	11	_	0	3 7	3 10	3
E.S. Central	_	1	6	4	5	3	10	20	69	76	_	5	10	26	24
Alabama	_	0	2	2	_	1	2	6	11	13	_	0	3	2	_
Kentucky Mississippi	_	0	2 1	_	2 1	1 1	3 1	10 4	23 6	28 4	_ U	2	8 0	12 U	12 U
Tennessee	_	0	5	2	2		4	9	29	31	_	1	5	12	12
W.S. Central	2	3	7	20	7	3	6	14	32	36	_	1	5	5	13
Arkansas Louisiana	_	0	2	1	_ 1	_	1 0	4 2	5 6	4 11	_	0	0 1	_	 4
Oklahoma	_	0	2	_		3	1	9	5	4	_	1	4	_	5
Texas	2	3	7	19	6	_	3	11	16	17	_	0	3	5	4
Mountain	1	1	5	12	14	_	1	4	8	21	1	1	5	3	12
Arizona Colorado	_	0	2	4	4 6	_	0	3 2	1	2 5	U —	0	0 2	U —	U 4
Idaho	1	0	1	3	1	_	0	0	_	2	1	0	1	1	5
Montana Nevada	_	0	1 3	_	1	_	0	0 3			_	0	2 2	_	_
New Mexico	_	0	1	_	1	_	0	2	_	2	_	0	2	_	1
Utah	_	0	1	_	_	_	0	1	_	3	_	0	2	_	2
Wyoming Pacific	_	0	1 12	16	1 32	_	0	0 8	14	33	_	0 2	1 11	12	— 7
Alaska	_	0	1	_	_	_	0	1	_	1	U	0	0	U	Ú
California	_	3	7	10	27	_	2	7	7	23	-	1	5	5	2
Hawaii Oregon	_	0	2 2	2 1	1 1	_	0	1 4	1 5	2 5	U —	0	0 2	U 4	U 3
Washington	_	0	4	3	3	_	0	3	1	2	_	0	9	3	2
Territories															
American Samoa C.N.M.I.	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Guam	=	0	5	=	6	_		8	_	 15	=	0	3	=	6
Puerto Rico	_	0	1	_	_	_	0	2	_	_	N	0	0	N	N
U.S. Virgin Islands		0	0 Islands.				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.

* Case counts for reporting year 2011 and 2012 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/ $nndss/phs/files/Provisional Nationa\% 20 Notifiable Diseases Surveillance Data 2010 0927. pdf.\ Data for TB\ are\ displayed\ in\ Table\ IV,\ which\ appears\ quarterly.$

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

		L	egionellos	is			Ly	me disease	2			٨	Malaria					
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous 5	2 weeks	Cum	Cum			
Reporting area	week	Med	Max	2012	2011	week	Med	Max	2012	2011	week	Med	Max	2012	2011			
United States	12	72	178	238	305	83	541	2,124	1,469	1,534	4	26	51	116	188			
New England	_	4	40	11	25	_	85	503	79	414	_	1	7	6	13			
Connecticut	_	1	11	3	4	_	38	236	10	168	_	0	2	_	1			
Maine Massachusetts	_	0	3 24	4	1 16	_	13 16	67 106	26 16	27 138	_	0	2 6	<u> </u>	10			
New Hampshire	_	0	3	_	1	_	10	90	8	59	_	0	1	_	_			
Rhode Island	_	0	9	4	2	_	1	31	2	3	_	0	2	_	_			
Vermont	 3	0	2 87	— 60	1 78	— 73	6	70	17	19 786	_	0 6	1 13	1 17	2 48			
Mid. Atlantic New Jersey	_	18 2	87 16	1	78 17	73 44	344 159	1,215 543	1,133 678	786 272	_	0	2		48 5			
New York (Upstate)	2	6	27	19	21	17	57	212	106	67	_	1	4	2	5			
New York City	_	3	14	11	19	_	3	23		24	_	4	11	12	30			
Pennsylvania	1	5	42	29	21	12	113	539	349	423	_	1	5	3	8			
E.N. Central	1	14	51	43 6	54 7	1	22	301	14	101	1	3 1	10 5	12	20 7			
Illinois Indiana	_	2	11 8	8	10	_	1 1	21 12	_ 1	5	_	0	2	2	2			
Michigan	_	2	15	_	12	_	1	13	7	_	_	0	4	2	3			
Ohio	1	7	34	29	25	1	1	6	5	3	1	0	4	5	7			
Wisconsin	_	0	1	_	_	_	20	259	1	93	_	0	2	1	1			
W.N. Central	_	1	8	5	6	_	1	16	3	2	_	1	5	6	4			
Iowa Kansas	_	0	2 2	_	_ 1	_	0	13 2	1	1	_	0	3 2	1 2	_ 1			
Minnesota	_	0	0				0	0	_	_	_	0	0	_				
Missouri	_	1	5	5	4	_	0	2	_	1	_	0	2	3	2			
Nebraska	_	0	2	_	_	_	0	2	2	_	_	0	1	_	1			
North Dakota South Dakota	_	0	1 1	_	_ 1	_	0	9 2	_	_	_	0	0 1		_			
		11	30	61	44	8	66	180	219	218	3	9	26	— 45	67			
S. Atlantic Delaware	_	0	4	4	1	_	13	48	54	63	_	0	3	1	_			
District of Columbia	_	Ő	3	1		_	0	3	1	3	_	0	2		3			
Florida	1	4	13	28	22	1	3	8	18	4	_	2	6	13	14			
Georgia	_	1	4	5	3	_	0	5	5	1	1	1	6	6	11			
Maryland North Carolina	1	2 1	15 7	8 5	6 6	4	20 0	115 13	77 1	82 6	_	2	16 7	12 1	18 8			
South Carolina	_	0	5	3	1	_	0	6	3	1	_	0	1	2	_			
Virginia	_	1	7	7	5	3	17	75	54	55	2	1	8	10	13			
West Virginia	_	0	5	_	_	_	0	20	6	3	_	0	1	_	_			
E.S. Central	_	2	11	5	10	_	1	5	1	2	_	1	4	_	2			
Alabama Kentucky	_	0 1	2 4	2	1 4	_	0	2 1	_ 1	1	_	0	3 2		1			
Mississippi	_	0	3	_	1	_	0	1		_	_	0	1	_	_			
Tennessee	_	1	8	3	4	_	0	4	_	1	_	0	3	_	1			
W.S. Central	4	2	8	9	12	_	1	6	2	2	_	1	5	6	6			
Arkansas	_	0	2	_	_	_	0	0	_	_	_	0	1	_	_			
Louisiana Oklahoma	_	0	2 3	1	7 1	_	0	1 0	1	_	_	0	1 3	4	_ 1			
Texas	4	2	7	8	4	_	1	6	1	2	_	0	5	2	5			
Mountain	1	2	9	11	20	1	1	5	6	3	_	1	5	7	10			
Arizona	1	1	4	4	5	_	0	4	1	1	_	0	4	1	3			
Colorado	_	0	4	_	7	_	0	1	_	_	_	0	3	_	3			
ldaho Montana	_	0	1 1	1	1	_	0	2 3	2	_	_	0	1 1	1	_			
Nevada	_	0	2	3	1	1	0	1	1	_	_	0	2	4				
New Mexico	_	0	2	_	1	_	0	2	_	1	_	0	1	_	2			
Utah	_	0	2	2	5	_	0	1	1	1	_	0	1	1	_			
Wyoming	_	0	2	1	_	_	0	1	1	_	_	0	0	_	_			
Pacific	1	5	17	33	56	_	2	8	12	6	_	3	11	17	18			
Alaska California	_	0 4	0 11	 27	— 49	_	0 1	3 8	1 11	3	_	0	1 7	1 15	2 11			
Hawaii		0	2	_	1	N	0	0	N	N	_	0	1	_				
Oregon	1	0	3	6	1		0	2	_	3	_	0	4	1	4			
Washington	_	0	13		5	_	0	5	_	_	_	0	2		1			
Territories																		
American Samoa	N	0	0	N	N	N	0	0	N	N	_	0	1	_	_			
C.N.M.I. Guam	_			_	_	_			_	=	_	0		_	_			
Puerto Rico	_	0	0	_	_	N	0	0	 N	N	_	0	0	_	_			
U.S. Virgin Islands	_	0	0	_	_		0	Ö			_	Ö	Ö					

 $C.N.M.l.: Commonwealth\ of\ Northern\ Mariana\ Islands.$

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

* Case counts for reporting year 2011 and 2012 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/nndss/phs/files/ProvisionalNationa%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

	N	Meningoco Al	ccal disea: I serogrou		e ^T			Mumps				Pe	ertussis		
	Current	Previous	52 weeks	Cum	Cum	Current	Previous		Cum	Cum	Current	Previous 5	2 weeks	Cum	Cum
Reporting area	week	Med	Max	2012	2011	week	Med	Max	2012	2011	week	Med	Max	2012	2011
United States	5	12	26	72	143	_	6	20	23	67	128	306	817	2,231	2,736
New England	_	0	3	1	4	_	0	2	_	1	3	17	33	146	82
Connecticut Maine	_	0	1 1	_	1	_	0	0 2	_	_	_	1 3	7 19	4 20	13 18
Massachusetts	_	0	2	1	3	_	0	1	_	1	_	4	10	24	36
New Hampshire	_	0	1	_	_	_	0	0	_	_	_	2	13	7	8
Rhode Island Vermont	_	0	1 3	_	_	_	0	2 1	_	_	3	1 1	10 17	16 75	6 1
Mid. Atlantic	2	2	4	12	17	_	0	7	_	7	63	42	184	539	237
New Jersey	_	0	2	_	2	_	0	1	_	6	_	4	12	19	23
New York (Upstate)	2	0	4	3	2	_	0	3	_	1	44	15	139	292	69
New York City Pennsylvania	_	0	2 2	4 5	7 6	_	0	6 1	_	_	— 19	4 13	42 30	41 187	— 145
E.N. Central	_	2	6	7	17	_	1	12	4	13	9	67	218	575	656
Illinois	_	0	3	_	6	_	1	10	_	6	_	21	123	119	125
Indiana	_	0	2	_	2	_	0	2	1	_	_	4	21	10	65
Michigan Ohio	_	0	2 2	1 5	3 4	_	0	2 2	2 1	1 5	1 8	11 12	38 22	98 99	168 217
Wisconsin	_	0	2	1	2		0	1		1	_	14	67	249	81
W.N. Central	_	1	3	4	11	_	0	3	2	6	3	21	119	135	154
lowa	_	0	1	_	2	_	0	2	_	_	_	4	9	18	42
Kansas Minnesota	_	0	1 0	1	1	_	0	1 1	_	2	_	2	6 110	12	22
Missouri	_	0	2	3	4	_	0	2	_	3	3	8	33	99	67
Nebraska	_	0	2	_	3	_	0	1	_	1	_	1	5	3	18
North Dakota	_	0	1	_	_	_	0	3	_	_	_	0	10	_	3
South Dakota	_ 2	0 2	1 8	— 11	1 22	_	0 1	0 4	_ 4		 21	0 27	7 55	3 198	2 285
S. Atlantic Delaware	_	0	°				0	0	_	_	1	0	55 5	7	203 5
District of Columbia	_	0	1	_	_	_	0	1	_	_	_	0	2	1	1
Florida	1	1	5	8	7	_	0	2	2	_	8	6	17	65	44
Georgia Maryland	1	0	1 2	1 2	2 1	_	0	2 1	_ 1	_	3	3 2	7 10	10 28	47 23
North Carolina	_	0	3	_	7	_	0	2	_	_	3	3	20	13	64
South Carolina	_	0	1	_	3	_	0	1	_	_	_	2	9	8	36
Virginia West Virginia	_	0 0	2	_	2	_	0	4 1	_ 1	2	6	6 0	25 15	44 22	65
E.S. Central	_	0	3	_	9	_	0	1	1	3	_	9	19	84	88
Alabama	_	0	2	_	5	_	0	1	_	1	_	2	11	15	22
Kentucky	_	0	2	_	_	_	0	0	_	_	_	3	10	38	40
Mississippi Tennessee	_	0 0	1 1	_	1 3	_	0	1 1	1	2	_	1 2	4 7	9 22	4 22
W.S. Central	1	1	5	4	13	_	1	5	6	29	8	19	107	95	114
Arkansas	_	0	2	_	3	_	0	2	_	_	_	1	5	2	7
Louisiana	_	0	2	1	3	_	0	0	_	_	_	0	3	2	8
Oklahoma Texas	1	0	2 2	1 2	1 6	_	0 1	2 5	_ 6	 29	 8	0 18	11 104	— 91	2 97
Mountain		1	4	7	11	_	0	2	2	1	6	39	86	236	408
Arizona	_	0	1	1	3	_	0	0	_	_	_	13	57	124	165
Colorado	_	0	1	_	2	_	0	1	1	_	_	7	25	47	92
Idaho Montana	_	0	1 2	1 2	2	_	0	2 1	_ 1		1 5	3 1	12 32	17 19	21 37
Nevada	_	0	1	2	_		0	0		_	_	0	5	10	7
New Mexico	_	0	1	1	_	_	0	1	_	1	_	3	24	14	20
Utah	_	0	1 0	_	4	_	0	0 1	_	_	_	6 0	15 3	2	64
Wyoming	_	2	10	26	39	_	0	11	4	 5	— 15	60	256	3 223	2 712
Pacific Alaska	_	0	10	_	1	_	0	1	_	_	1	0	3	11	13
California	_	1	7	17	31	_	0	11	3	_	_	33	78	21	625
Hawaii Oregon	_	0	1 4	1 8	1 4	_	0	1 1	_	2 3	_	2 5	10 23	32 24	6 28
Washington	_	0	3	_	2	_	0	1	_ 1	_	14	5 12	23	135	28 40
Territories		-													
American Samoa	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam Puerto Rico	_	0	0	_	_	_	1 0	3 1	_ 1	4	_	2	14 1	_	6 1
U.S. Virgin Islands	_	0	0	_	_	_	0	0		_	_	0	0	_	

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† 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.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

Reporting area United States New England Connecticut Maine Massachusetts New Hampshire Rhode Island	Current week	Previous : Med 61 5	Max	Cum 2012	Cum	Current		52 weeks	Cum	Cum	Current	Previous !		Cum	Cum
United States New England Connecticut Maine Massachusetts New Hampshire	21 — —	61			2011										
New England Connecticut Maine Massachusetts New Hampshire	_ _ _			_	2011	week	Med	Max	2012	2011	week	Med	Max	2012	2011
Connecticut Maine Massachusetts New Hampshire	_	5	105	292	377	200	898	1,909	3,022	3,784	16	93	208	276	306
Maine Massachusetts New Hampshire	_		16	44	17	_	37	107	103	183	_	3	13	10	14
Massachusetts New Hampshire		3 1	10 6	19 15	4 4	_	8 2	30 7	29 9	53 20	_	1 0	4 3	5	7
New Hampshire	_	0	0		_		19	44	46	80	_	1	9	5	2
Rhode Island	_	0	3	3	1	_	3	8	5	16	_	0	3	_	5
	_	0	6	5	2	_	1	62	4	8	_	0	2	_	_
Vermont		0 16	2 36	2 26	6 107	— 19	1 96	8 209	10 315	6 406		0 10	3 34	— 35	— 54
Mid. Atlantic New Jersey	_	0	0	_	107	— —	21	48	35	83	_	2	34 7	33 1	14
New York (Upstate)	3	7	20	26	33	12	25	67	83	73	2	3	13	8	11
New York City	_	0	3	_	2	2	19	42	91	110	_	2	6	9	10
Pennsylvania	_	8	21	_	72	5	31	114	106	140	_	3	16	17	19
E.N. Central Illinois	_	2	20 6	3	7 3	11	88 27	184 80	225 53	451 155	4	16 4	54 14	44 5	63 10
Indiana	_	0	7	_	_	_	8	27	18	45	_	2	10	2	10
Michigan	_	1	6	2	3	3	15	42	59	82	3	3	19	29	14
Ohio		1	5 0	1 N	1 N	8	20	46	88	112 57	1	3	9	8	14
Wisconsin	N 1	0 1	8	N 14	N 4	 5	11 39	46 99	7 167	176	3	3 11	21 40	42	15 25
W.N. Central Iowa		0	0	14 —	-	5 1	39 8	99 19	31	42	_	2	40 15	42 6	6
Kansas	_	1	4	7	1		8	27	43	34	_	2	8	4	5
Minnesota	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Missouri Nebraska	1	0	4	3	3	3 1	15 4	42 13	68 15	72 16	2 1	5 1	32 8	20 7	7 7
North Dakota		0	4	4	_		0	15	_	_		0	4	_	_
South Dakota	_	0	0		_	_	3	10	10	12	_	1	4	5	_
S. Atlantic	14	18	48	118	213	115	276	740	1,168	1,104	4	12	31	68	57
Delaware	_	0	0	_	_	1	2	12	11	16	1	0	2	2	1
District of Columbia Florida	 4	0	0 13	 19	120	 59	1 107	6 203	— 498	5 419	 3	0 3	1 9	1 29	1 9
Georgia	_	0	0	_	_	9	43	139	149	214	_	2	8	6	12
Maryland	_	6	13	32	27	11	19	46	89	84	_	1	4	3	10
North Carolina South Carolina	N	0	0	N	 N	22 5	34 27	251 71	235 89	158 99	_	2 0	26 4	15 3	16
Virginia	10	11	27	60	66	8	19	54	89	109	_	2	8	9	8
West Virginia	_	0	30	7	_	_	0	18	8	_	_	0	2	_	_
E.S. Central	_	3	11	9	15	10	64	190	235	273	_	4	18	21	16
Alabama	_	2	7	8	9	_	18	70	62	88	_	1	15	8	2
Kentucky Mississippi	_	0	2 1	1	1	2 1	11 22	30 66	45 59	47 53	_	1 0	5 4	5 5	4 1
Tennessee	_	1	4		5	7	15	51	69	85	_	1	11	3	9
W.S. Central	2	1	21	61	_	6	133	250	256	332	_	10	56	16	19
Arkansas	2	0	10	11	_	2	13	52	29	47	_	1	6	3	1
Louisiana Oklahoma	_	0	0 21		_	4	14 13	44 31	67 47	59 30	_	0 1	1 10	 5	4
Texas		0	11	43	_	_	93	159	113	196	_	7	56	8	14
Mountain	_	1	4	14	_	14	45	93	184	296	1	11	27	20	29
Arizona	N	0	0	N	N	10	15	35	81	97	_	2	7	4	3
Colorado	_	0	0	_	_	_	9	23	28	69	_	3	9	2	12
Idaho Montana	N	0	1 0	N	N	1 2	2	8 10	10 10	29 7	_	1 1	8 4	3 1	4 1
Nevada	_	0	3		_	1	3	7	11	22	1	0	7	2	2
New Mexico	_	0	4	14	_	_	5	22	20	35	_	1	3	3	4
Utah	_	0	2	_	_	_	6	15	20	33	_	1	7	2	3
Wyoming	_ 1	0 4	0 15	_ 3	 14	 20	1 92	9 173	4 369	4 563		0 9	7 28	3 20	 29
Pacific Alaska	1	0	2	3	6	20 1	92	6	309 8	563 9	_	0	28 1	20 —	
California		3	13	_	5		71	141	273	431	_	4	14	6	18
Hawaii	_	0	0	_	_	_	6	14	12	49	_	0	2	_	_
Oregon Washington	_	0	2 0	_	3	1 18	5 9	12 42	25 51	47 27		1 2	11 22	6 8	6 5
						10	9	42	31					0	
Territories American Samoa	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam	_	0	0	_	_	_	0	2	_	3	_	0	0	_	_
Puerto Rico U.S. Virgin Islands	_	0	6 0	13	4	1	3	12 0	6	24	_	0 0	0 0	_	_

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

Morbidity and Mortality Weekly Report

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

			Chinellas'			Spotted Fever Rickettsiosis (including RMSF) [†] Confirmed Probable									
			Shigellosis	i											
	Current		52 weeks	Cum	Cum	Current	Previous		Cum	Cum	Current	Previous 5		Cum	Cum
Reporting area	week	Med	Max	2012	2011	week	Med	Max	2012	2011	week	Med	Max	2012	2011
United States	136	258	379	1,350	1,246	1	3	15	13	8	2	30	138	57	44
New England Connecticut	_	4 1	21 4	13 5	28 6	_	0	1 0	_	_	_	0	1 0	_	_1
Maine	_	0	8	_	1	_	0	0	_	_	_	0	1	_	_
Massachusetts	_	3	20	8	20	_	0	0	_	_	_	0	1	_	_
New Hampshire Rhode Island	_	0	1 3	_	_	_	0	1 0	_	_	_	0	1 1	_	1
Vermont	_	0	1	_	1		0	0	_	_	_	0	0	_	
Mid. Atlantic	34	25	86	219	83	_	0	2	3	_	1	1	8	8	2
New Jersey	2.4	6	39	49 81	19 16	_	0	0 1	_	_	_ 1	0	0		_
New York (Upstate) New York City	34	6 8	41 28	76	16 34	_	0	0	_	_		0	3 3	2	
Pennsylvania	_	2	13	13	14	_	0	2	3	_	_	0	3	5	_
E.N. Central	11	15	41	172	108	_	0	2	1	_	_	2	10	3	4
Illinois	_	4	16	10	37	_	0	1	_	_	_	1	4	1	3
Indiana Michigan	_	1 3	6 11	5 29	11 22	_	0	1 1	1	_	_	1 0	5 1	1	
Ohio	11	6	27	128	38	_	0	2	_	_	_	0	2	1	1
Wisconsin	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
W.N. Central	_	5	18	48	67	_	0	4	_	_	1	4	24	4	8
Iowa Kansas	_	0 1	3 6	4 26	4 14	_	0	0 0	_	_	_	0	2 0	_	1
Minnesota	_	0	0	_		_	0	0	_	_	_	0	0	_	
Missouri	_	3	14	15	46	_	0	2	_	_	1	4	22	4	7
Nebraska	_	0	2	3	2	_	0	3	_	_	_	0	1	_	
North Dakota	_	0	0	_	_	_	0	1	_	_	_	0	0	_	_
South Dakota S. Atlantic	 40	0 75	2 134	314	1 428	_	0 1	1 9	7	 4	_	0 7	0 58	23	18
Delaware	_	0	2	_			0	1	_	_	_	0	4	2	1
District of Columbia	_	0	5	1	5	_	0	1	_	_	_	0	1	_	_
Florida	30	50	98	183	265	_	0	1	_	1	_	0	2	4	1
Georgia Maryland	5 2	13 2	26 10	79 22	76 18	_	1 0	8 1	7	1 1	_	0	0 3		1
North Carolina	2	3	19	16	41	_	0	4	_	1	_	0	49	5	9
South Carolina	_	1	54	3	10	_	0	2	_		_	0	2	_	1
Virginia	1	2	7	10	13	_	0	1	_	_	_	3	14	10	5
West Virginia	_	0	2	_	_	_	0	0	_	_	_	0	1	_	_
E.S. Central Alabama	11	20 6	51 21	220 49	74 33	1	0	2 1	1	_	_	4 1	25 8	8	6
Kentucky	7	5	22	102	33 7	_	0	1	_	_	_	0	2	_	_
Mississippi	2	4	24	46	13	_	0	0	_	_	_	0	2	_	1
Tennessee	2	4	11	23	21	1	0	2	1	_	_	4	20	5	2
W.S. Central	36	54	134	238	173	_	0	3 3	_	_	_	2	52 52	5	1
Arkansas Louisiana	_	2 4	7 21	10 21	4 25	_	0	0	_	_	_	2	2	4 1	
Oklahoma	26	4	28	64	11	_	0	1	_	_	_	0	25		
Texas	10	43	104	143	133	_	0	1	_	_	_	0	4	_	1
Mountain	3	13	41	43	110	_	0	3	_	4	_	1	7	5	4
Arizona Colorado	3	6 1	27 8	28 2	40 16	_	0	3 0	_	4	_	0	6 1	1	4
Idaho	_	0	3	2	5		0	0	_	_	_	0	2	2	
Montana	_	1	15	3	10	_	0	0	_	_	_	0	1	_	_
Nevada	_	0	4	1	6	_	0	0	_	_	_	0	1	_	_
New Mexico	_	2	6	6	27	_	0	0	_	_	_	0	0	_	_
Utah Wyoming	_	1 0	4 1	1	6	_	0	0	_	_	_	0	1 2	2	
Pacific	1	19	44	83	175		0	2	1	_	_	0	1	1	
Alaska	_	0	2	2	1	N	0	0	N	N	N	0	0	N	N
California	_	15	41	68	147		0	2	1	_	_	0	1	1	_
Hawaii	_	1 1	3 4	1 8	14 9	N —	0	0	N	N	N	0	0	N	N
Oregon Washington	1	1	4 11	8 4	4	_	0	0	_	_	_	0	0	_	_
Territories															
American Samoa C.N.M.I.	_	0	0	_	1	N	0	0	N —	N —	N —	0	0	N	N
Guam	_	0	1	_	_	N	0	0	N	 N	N		0	N	N
Puerto Rico	_	0	0	_	_	N	0	0	N	N	N	0	0	N	N
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_

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

^{*} Case counts for reporting year 2011 and 2012 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/nndss/phs/files/ProvisionalNationa%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.

[†] 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 rickettsii*, is the most common and well-known spotted fever.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

				ωτεριστος	cus pneumo	mue, mvas	ive uiseds								Syphilis, primary and secondary					
			All ages					Age <5			Sy	philis, prim	ary and se	condary						
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous !	2 weeks	Cum	Cum					
Reporting area	week	Med	Max	2012	2011	week	Med	Max	2012	2011	week	Med	Max	2012	2011					
United States	199	261	506	2,251	3,208	15	21	43	160	188	56	267	305	1,283	1,988					
New England	_	12	31	85	176	_	1	4	6	7	8	7	23	45	59					
Connecticut	_	6	20	45	82	_	0	3	2	1	_	0	12	_	6					
Maine	_	2	8	17 5	27 7	_	0	1	1	1	_	0	2	30	2					
Massachusetts New Hampshire	_	1	3 8	10	23	_	0	2 1	2 1	3	2	5 0	10 3	30 4	37 3					
Rhode Island	_	1	5	_	31	_	0	i		1	6	0	7	11	ç					
Vermont	_	1	6	8	6	_	0	2	_	1	_	0	2	_	2					
Mid. Atlantic	33	29	62	349	363	_	2	11	19	18	7	29	48	145	242					
New Jersey	_	13	29	75	179	_	1	4	8	10	_	4	11	5	30					
New York (Upstate) New York Citv	31 2	2 12	33 23	179 95	15 169	_	1 0	10 9	8 3	8	1 1	4 14	9 24	15 62	20 140					
Pennsylvania	N N	0	0	95 N	N	N	0	0	N	N	5	7	17	63	52					
E.N. Central	39	63	122	471	626	6	3	10	27	32	1	31	48	87	254					
Illinois	Ň	0	0	N	N	_	0	0	_	_		13	24	30	100					
Indiana	1	13	36	67	156	_	1	4	3	6	1	3	8	24	28					
Michigan	4	14	26	106	122	1	1	2	7	9	_	5	12	9	41					
Ohio Wisconsin	34	27 8	43 23	235 63	258 90	5 —	1 0	7 2	12 5	13 4	_	7 1	17 6	22 2	74 11					
W.N. Central	1	3	28	30	32	_	0	2	5 1	2	_	6	13	3	64					
lowa	N	0	0	N	N	N	0	0	Ń	N	_	0	3	2	3					
Kansas	N	0	0	N	N	N	0	0	N	N	_	0	4	_	2					
Minnesota	_	0	0	_	_	_	0	0	_	_	_	2	8	_	30					
Missouri	N	0	0	N	N	_	0	0	_	_	_	2	8	_	26					
Nebraska North Dakota	1	2 0	5 25	30	32	_	0	2 1	1	2	_	0	2 1	1	3					
South Dakota	N	0	0	N	N	_	0	0	_	_	_	0	0	_						
S. Atlantic	63	65	143	616	926	3	6	15	49	56	28	67	85	408	475					
Delaware	1	0	5	7	19	_	0	0		_	_	0	4	7	3					
District of Columbia		0	5	1	13	_	0	1	1	1	1	3	8	29	34					
Florida	23	21	55	223	384	2	2	8	17	27	2	24	36	139	189					
Georgia Maryland	17 10	19 9	38 29	191 65	251 140	1	1 1	6 3	18 3	18 7	7 4	12 8	42 20	67 34	51 53					
North Carolina	N	0	0	N	N	N	0	0	N	Ń	11	8	21	66	67					
South Carolina	12	8	22	91	119		0	3	4	3	1	4	11	36	46					
Virginia	N	0	0	N	N	_	0	0	_	_	2	4	13	30	32					
West Virginia	_	1	48	38	_	_	0	4	6	_	_	0	2	_	_					
E.S. Central	16	23	45	198	276		2	4 0	9	19	8	15	31	70	109					
Alabama Kentucky	N 4	0 4	0 12	N 41	N 48	N	0	3	N	N 5	3	4 2	10 8	16 13	37 17					
Mississippi	N	0	0	N	N	_	0	0	_	_	5	3	22	25	19					
Tennessee	12	19	42	157	228	_	1	4	9	14	_	5	11	16	36					
W.S. Central	28	31	139	254	350	4	3	10	24	24	2	38	51	244	237					
Arkansas	5	4	14	37	49	3	0	3	5	5	1	4	15	47	24					
Louisiana Oklahoma	1 N	2	14 0	33 N	62 N	_	0	2 0	2	3	_ 1	7 1	25 6	17 7	40					
Texas	22	24	125	184	239	1	3	10	17	16		23	39	173	166					
Mountain	19	26	72	231	422	2	2	8	18	28	1	12	20	29	98					
Arizona	15	12	45	158	221	2	1	5	12	12	_	5	11	8	32					
Colorado		8	23	31	95	_	0	4	2	4	_	2	6	9	21					
ldaho Montana	N N	0	0	N N	N N	N	0	0 0	 N	 N	1	0	4 1	3	3					
Nevada	N	0	0	N	N	N	0	0	N	N	_	2	9		24					
New Mexico	4	4	12	38	58		0	2	4	4	_	1	4	4	10					
Utah	_	1	7	_	43	_	0	1	_	8	_	0	2	3	4					
Wyoming	_	0	3	4	5	_	0	0	_	_	_	0	0	_	_					
Pacific	_	2	9	17	37	_	0	2	7	2	1	55	74	252	450					
Alaska California	N	2	9 0	17 N	36 N	N	0	2 0	7 N	2 N	_	0 45	2 62	2 203	361					
Hawaii		0	1	N	1 1	IN	0	1			_	45	3	203	301					
Oregon	N	0	Ö	N	Ň	N	0	Ö	N	N	_	4	14	24	29					
Washington	N	0	0	N	N	N	0	0	N	N	1	5	12	23	60					
Territories			100																	
American Samoa	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_					
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					
Guam Puerto Rico	_	0	0	_	_	_	0	0 0	_	_	<u> </u>	0 5	0 15	33	30					
U.S. Virgin Islands	_	0	0			_	0	0	_	_	_	0	0		30					

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† 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).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 25, 2012, and February 26, 2011 (8th week)*

										west Nile vii	rus disease†				
		Varice	ella (chicke	npox)			Ne	uroinvasiv	е			Nonne	uroinvasiv	e§	
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous 5	2 weeks	Cum	Cum
Reporting area	week	Med	Max	2012	2011	week	Med	Max	2012	2011	week	Med	Max	2012	2011
United States	175	290	399	1,687	2,136		0	62		1		0	32		
New England	_	23	54	134	186	_	0	3	_	_		0	1	_	_
Connecticut	_	6	20	30	38	_	0	2	_	_	_	0	1	_	_
Maine	_	4	11	35	33	_	0	0	_	_	_	0	0	_	_
Massachusetts	_	9	18	47	67	_	0	2	_	_	_	0	1	_	_
New Hampshire	_	2	10	_	17	_	0	0	_	_	_	0	0	_	_
Rhode Island	_	0	6	1	8	_	0	1	_	_	_	0	0	_	_
Vermont Mid. Atlantic	— 39	2 55	9 80	21 368	23 232	_	0	1	_	_	_	0	0	_	_
New Jersey	13	35 34	70	221	232 79	_	0	11 1	_	_	_	0	6 2	_	_
New York (Upstate)	N	0	0	N	N		0	5		_	_	0	4		_
New York City	_	0	0			_	0	4	_	_	_	0	1	_	_
Pennsylvania	26	20	42	147	153	_	0	2	_	_	_	Ö	1	_	_
E.N. Central	33	63	115	439	571	_	0	13	_	_	_	0	7	_	_
Illinois	_	18	38	100	124	_	0	6	_	_	_	0	5	_	_
Indiana	_	5	20	42	51	_	0	2	_	_	_	0	1	_	_
Michigan	14	18	45	136	195	_	0	7	_		_	0	2	_	_
Ohio	19	21	47	161	200	_	0	3	_	_	_	0	3	_	_
Wisconsin	_	0	1		. 1	_	0	1	_	_	_	0	1_	_	_
W.N. Central	7	12	32	92	114	_	0	9	_	1	_	0	7	_	_
lowa	N	0	0	N	N	_	0	2	_	_	_	0	2	_	_
Kansas	7	7	21	64	60	_	0	1	_	_	_	0	0 1	_	_
Minnesota	_	0	1 18	 22		_	0	1 2	_	_ 1	_	0	2	_	_
Missouri Nebraska	_	3 0	2	3	48 1	_	0	4	_		_	0	3	_	_
North Dakota		0	7	_	1	_	0	1			_	0	1		
South Dakota		1	6	3	4		0	0		_	_	0	1		_
S. Atlantic	21	35	66	188	290	_	0	11	_		_	0	6	_	_
Delaware	_	0	2	_	2	_	0	1	_	_	_	Ö	0	_	_
District of Columbia	_	0	2	_	4	_	0	3	_	_	_	0	3	_	_
Florida	15	16	38	115	145	_	0	4	_	_	_	0	2	_	_
Georgia	N	0	0	N	N	_	0	3	_	_	_	0	1	_	_
Maryland	N	0	0	N	N	_	0	5	_		_	0	3	_	_
North Carolina	N	0	0	N	N	_	0	1	_	_	_	0	0	_	_
South Carolina	_	0	9			_	0	0	_	_	_	0	0	_	_
Virginia	6	9	27	44	58	_	0	2	_	_	_	0	1	_	_
West Virginia	_	6	32	29	81	_	0	1	_	_	_	0	0	_	_
E.S. Central	4 4	5 5	15 14	34 30	45 41	_	0	11 2	_	_	_	0	5 0	_	_
Alabama Kentucky	4 N	0	0	30 N	41 N	_	0	2	_	_	_	0	1	_	_
Mississippi		0	2	4	4	_	0	5	_	_	_	0	4	_	_
Tennessee	N	0	0	N	Ň	_	0	3	_	_	_	0	1	_	_
W.S. Central	49	56	158	326	315	_	0	4	_	_	_	Ö	3	_	_
Arkansas	_	4	26	9	44	_	0	1	_	_	_	0	0	_	_
Louisiana	_	2	6	9	14	_	0	1	_	_	_	0	2	_	_
Oklahoma	N	0	0	N	N	_	0	1	_	_	_	0	0	_	_
Texas	49	49	153	308	257	_	0	3	_	_	_	0	3	_	_
Mountain	20	21	68	93	342	_	0	11	_	_	_	0	5	_	_
Arizona		5	50	14	106	_	0	7	_	_	_	0	4	_	_
Colorado	16	6	32	38	98	_	0	2	_	_	_	0	2	_	_
Idaho	N	0	0	N	N	_	0	1	_	_	_	0	1	_	_
Montana Nevada	2	1	7	6	69 N	_	0	1	_	_	_	0	0	_	_
New Mexico	N 2	0 1	0 8	N 17	10	_	0	4 1	_	_	_	0	2 0	_	_
Utah		3	26	16	57	_	0	1		_	_	0	1		_
Wyoming		0	1	2	2		0	1		_	_	0	1		_
Pacific	2	2	9	13	41	_	0	18	_		_	0	7	_	_
Alaska	2	1	4	7	17	_	0	0	_	_	_	0	Ó	_	_
California	_	0	4	3	14	_	0	18	_	_	_	Ö	7	_	_
Hawaii	_	0	4	3	10	_	0	0	_	_	_	0	0	_	_
Oregon	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_
Washington	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_
Territories															
American Samoa	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam	_	2	4		3	_	0	0	_	_	_	0	0	_	_
Puerto Rico	6	2	10	22	34	_	0	0	_	_	_	0	0	_	_
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_

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ndss/phs/files/ProvisionalNationa%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB 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.

§ 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 February 25, 2012 (8th week)

		All ca	uses, by a	ge (years)					All cau	ses, by ag	e (years)			
Reporting area	AII Ages	≥65	45-64	25-44	1–24	<1	P&I [†] Total	Reporting area (Continued)	All Ages	≥65	45-64	25-44	1-24	<1	P&I [†] Total
New England	523	383	92	33	6	9	69	S. Atlantic	968	610	246	71	17	23	65
Boston, MA	118	70	29	12	2	5	13	Atlanta, GA	121	68	37	12	2	1	10
Bridgeport, CT	19	17	1	1	_	_	3	Baltimore, MD	155	88	42	17	5	3	14
Cambridge, MA	25 19	20 16	4	_	1 1	_	1 5	Charlotte, NC Jacksonville, FL	196 6	134 5	48	5 1	4	5	1
Fall River, MA Hartford, CT	56	41	11	4		_	5 6	Miami, FL	128	96	— 19	10		3	
Lowell, MA	19	17	2	_	_		4	Norfolk, VA	50	35	11	4	_	_	-
Lynn, MA	5	3	1	1	_	_		Richmond, VA	48	29	16	1	1	1	
New Bedford, MA	40	30	6	4	_	_	3	Savannah, GA	49	30	12	4	1	2	3
New Haven, CT	28	16	8	1	2	1	3	St. Petersburg, FL	54	28	16	6	2	2	(
Providence, RI	50	37	8	4	_	1	3	Tampa, FL	67	40	19	3	2	3	
Somerville, MA	2	2	_	_	_	_	1	Washington, D.C.	81	46	24	8	_	3	1
Springfield, MA	33	26	7	_	_	_	5	Wilmington, DE	13	11	2	_	_	_	
Waterbury, CT	30	24	5	1	_	_	4	E.S. Central	851	528	242	52	17	12	78
Worcester, MA	79	64	8	5	_	2	18	Birmingham, AL	169	107	41	13	5	3	1.
Mid. Atlantic	1,768	1,246	395	84	27	16	94	Chattanooga, TN	78	48	29	1	_	_	1
Albany, NY	53	39	11	2	1	_	4	Knoxville, TN	122	81	29	8	3	1	10
Allentown, PA Buffalo, NY	21 87	19 60	2 22	4	1	_	2 8	Lexington, KY Memphis, TN	41 152	29 89	12 52	 5		4	13
Buπaio, NY Camden, NJ	87 22	10	22 8	4		1	- 8 	Memphis, IN Mobile, AL	152 97	89 61	52 20	5 13	2	4 1	1.
Elizabeth, NJ	9	7	2	_	_		_	Montgomery, AL	97 47	32	12	3	_		
Erie, PA	50	37	8	3	2	_	3	Nashville, TN	145	81	47	9	5	3	2
Jersey City, NJ	26	19	3	2	2	_	2	W.S. Central	1,236	798	301	74	40	23	8
New York City, NY	878	622	201	40	11	4	38	Austin, TX	88	56	23	6	2	1	_
Newark, NJ	54	30	20	1	1	2	_	Baton Rouge, LA	65	41	12	6	4	2	
Paterson, NJ	26	13	6	4	1	2	2	Corpus Christi, TX	64	41	18	3	_	2	
Philadelphia, PA	162	103	42	12	3	2	11	Dallas, TX	208	108	72	19	5	4	1
Pittsburgh, PA [§]	42	34	8	_	_	_	2	El Paso, TX	100	78	16	3	1	2	
Reading, PA	40	32	4	2	_	2	5	Fort Worth, TX	U	U	U	U	U	U	
Rochester, NY	82	59	16	4	1	2	2	Houston, TX	116	63	19	11	17	6	
Schenectady, NY	29	23	5	1	_	_	3	Little Rock, AR	81	54	22	1	2	2	
Scranton, PA	32	29	3	_	_	_	4	New Orleans, LA	U	U	U	U	U	U	
Syracuse, NY	97	72	18	4	2	1	4	San Antonio, TX	285	194	72	12	5	2	2
Trenton, NJ	27	14	10	2	1	_	_	Shreveport, LA	127	101	19	4	2	1	16
Utica, NY	17	14	3	_	_	_	1	Tulsa, OK	102	62	28	9	2	1	
Yonkers, NY	14	10	3 480	109	1 40	— 35	3 158	Mountain	1,203	832 86	260 30	72 3	20 2	19	94 10
E.N. Central Akron, OH	2,074 47	1,410 30	7	3	3	33 4	2	Albuquerque, NM Boise, ID	121 57	38	30 14	3			- 19
Canton, OH	40	27	9	3	_	1	3	Colorado Springs, CO	92	69	18	4	1	_	
Chicago, IL	234	149	54	21	8	2	20	Denver, CO	91	63	18	7	2	1	
Cincinnati, OH	82	43	27	9	3	_	8	Las Vegas, NV	300	216	62	15	3	4	2
Cleveland, OH	295	215	70	6	2	2	12	Ogden, UT	34	24	5	3	2	_	_
Columbus, OH	270	181	58	18	1	12	20	Phoenix, AZ	182	108	55	11	5	3	
Dayton, OH	117	80	28	5	2	2	12	Pueblo, CO	44	37	4	2	1	_	
Detroit, MI	173	95	60	11	5	2	6	Salt Lake City, UT	134	85	28	13	2	6	
Evansville, IN	54	38	13	3	_	_	4	Tucson, AZ	148	106	26	11	2	3	1
Fort Wayne, IN	72	54	15	2	1	_	8	Pacific	1,700	1,190	374	72	36	28	15
Gary, IN	14	10	2	1	1	_	2	Berkeley, CA	14	11	1	1	_	1	
Grand Rapids, MI	49	37	9	_	2	1	8	Fresno, CA	134	92	31	5	2	4	1
Indianapolis, IN	193	128	51	5	4	5	14	Glendale, CA	45	37	7	_	1	_	
Lansing, MI	43	32	5	3	3	_	1	Honolulu, HI	86	62	14	7	2	1	1
Milwaukee, WI	79 54	61	12	3	2	1	7	Long Beach, CA	62	40	19	2	1	_	2
Peoria, IL	54	38	12	2	2	_	7	Los Angeles, CA	247	164	54	14	7	8	2
Rockford, IL	59 50	41 47	10 10	8	_	_	7	Pasadena, CA	18 07	15 67	3	_	_	_	
South Bend, IN	59 75	47 54	16	2	_	_	7 2	Portland, OR	97 216	67 163	25 41	3 8	_	2	1
Toledo, OH Youngstown, OH	75 65	54 50	16	3 1	_ 1	1	2 8	Sacramento, CA San Diego, CA	216 159	163 112	30	8 10	5	2 2	1
W.N. Central	627	414	151	31	17	14	36	San Francisco, CA	114	81	25	6	5 1	1	1.
Des Moines, IA	98	76	11	3	7	1	5	San Jose, CA	208	153	46	6	2	1	2
Duluth, MN	33	27	6	_	_		1	Santa Cruz, CA	36	26	7	1	2		
Kansas City, KS	41	23	13	1	3	1	2	Seattle, WA	107	58	34	4	6	5	
Kansas City, NO	62	43	12	2	3	2	5	Spokane, WA	67	57	7		2	1	
Lincoln, NE	36	24	11	1	_	_	1	Tacoma, WA	90	52	30	5	3		
Minneapolis, MN	74	42	23	4	1	4	8	1						170	
Omaha, NE	68	41	20	4	2	1	3	Total [¶]	10,950	7,411	2,541	598	220	179	83
St. Louis, MO	57	29	22	5	_	1	_								
	67	44	17	3	_	3	5	I							
St. Paul, MN	07						,								

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.

Morbidity and Mortality Weekly Report

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