Weekly / Vol. 59 / No. 9

March 12, 2010

Invasive Pneumococcal Disease in Young Children Before Licensure of 13-Valent Pneumococcal Conjugate Vaccine — United States, 2007

Invasive pneumococcal disease (IPD), caused by Streptococcus pneumoniae (pneumococcus), remains a leading cause of serious illness in children and adults worldwide (1). After routine infant immunization with a 7-valent pneumococcal conjugate vaccine (PCV7) began in 2000, IPD among children aged <5 years in the United States decreased by 76%; however, IPD from non-PCV7 serotypes, particularly 19A, has increased (2). In February 2010, the Advisory Committee on Immunization Practices (ACIP) issued recommendations for use of a newly licensed 13-valent pneumococcal conjugate vaccine (PCV13) (3). PCV13 contains the seven serotypes in PCV7 (4, 6B, 9V, 14, 18C, 19F, and 23F) and six additional serotypes (1, 3, 5, 6A, 7F, and 19A). To characterize the potentially vaccinepreventable IPD burden among children aged <5 years in the United States, CDC and investigators analyzed 2007 data from Active Bacterial Core surveillance (ABCs). This report summarizes the results of that analysis, which found that among 427 IPD cases with known serotype in children aged <5 years, 274 (64%) were caused by serotypes contained in PCV13. In 2007, an estimated 4,600 cases of IPD occurred in children in this age group in the United States, including approximately 2,900 cases caused by serotypes covered in PCV13 (versus 70 cases caused by PCV7 serotypes). PCV13 use has the potential to further reduce IPD in the United States. Post-licensure monitoring will help characterize the effectiveness of PCV13 in different populations and track the potential changes in disease burden caused by non-PCV13 serotypes.

ABCs* of the Emerging Infections Program (EIP) Network is a collaboration between CDC and 10 selected sites. ABCs conducts population- and laboratory-based active surveillance. During 2006 and 2007, IPD surveillance was conducted in Connecticut, Minnesota, and New Mexico, and selected counties in California, Colorado, Georgia, Maryland, New York, Oregon, and Tennessee. In 2007, the total catchment

Investigators reviewed medical records to identify children aged 24–59 months with underlying medical conditions who are recommended by ACIP to receive the 23-valent pneumococcal polysaccharide vaccine (PPSV23) (1). Characteristics of these high-risk children and healthy children were compared by chi-square test; data from 2006 and 2007 were summed

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^{*}Available at http://www.cdc.gov/abcs/index.html.





population of children aged <5 years for these 10 sites was 2.1 million. A case of IPD was defined as isolation of *S. pneumoniae* from a normally sterile body site (primarily blood or cerebrospinal fluid) in a resident of an ABCs area. Pneumococcal isolates were serotyped at CDC and reference laboratories. Serotype information was analyzed by vaccine serotype group (Table 1). Age-, race- and vaccine serotype-specific rates of IPD were calculated using observed IPD cases in the 2007 ABCs data as the numerator and U.S. Census Bureau projections of the 2007 population of ABCs sites as the denominator. To estimate the incidence and total number of IPD cases in the United States in 2007, rates were standardized to the entire U.S. population, adjusting for small differences between age and race distributions of ABCs areas and the U.S. population.

because of the small number of IPD cases with underlying medical conditions among persons in this age group.

In 2007, a total of 493 children aged <5 years (<60 months) with IPD were identified in the ABCs population (Table 2), and information on the serotype of the pneumococcal isolate was available for 427 (87%) of those children. Among the 427, the group aged <12 months accounted for 36% of all cases, and the 12-23 months group accounted for 29%. Overall rates were highest in children aged <12 months and 12-23 months (40.5 and 31.2 cases per 100,000 population, respectively); among children aged 24-59 months, rates of all IPD decreased with each additional year of age. Information on race was available for 378 (89%) cases for which serotype information was available. Among children aged <5 years, rates of overall IPD in black children (35.8 cases per 100,000) and children of other races (30.7 cases per 100,000) were approximately twofold and 1.7fold higher, respectively, than rates for white children (18.4 per 100,000).

Among the 427 IPD cases with known serotype in children aged <5 years, 274 (64%) were caused by serotypes contained in PCV13. Of these 274 cases, 260 (95%) were caused by three of the six additional serotypes (3, 7F, and 19A) that are not included in PCV7; overall, 180 (42%) of the 427 were caused by serotype 19A. Within each 1-year age group, the proportions of all IPD cases caused by serotypes covered by PCV13 were relatively similar, ranging from 59% to 71%. The proportions of all IPD cases caused by the 13 serotypes were comparable in black children (61%), children of other races (62%), and white children (67%).

Information on hospitalization and clinical outcome was available for 99% of serotyped IPD cases. Among 272 children with IPD caused by serotypes covered by PCV13 for whom hospitalization status, clinical presentation, and outcome were known, 168 (62%) were hospitalized, and four (2%) died; 101 (37%) had bacteremia without confirmed source, 24 (9%) had meningitis, and 115 (42%) had pneumonia with bacteremia.

The MMWR series of publications is published by the Office of Surveillance, Epidemiology, and Laboratory Services, Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, GA 30333.

Suggested citation: Centers for Disease Control and Prevention. [Article title]. MMWR 2010;59:[inclusive page numbers].

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TABLE 1. Serotypes included in the three pneumococcal vaccine formulations* available in the United States, 2010

Pneumococcal -		Vaccine	
serotype	PCV7	PCV13	PPSV23
4	Х	X	X
6B	X	Χ	Χ
9V	X	Χ	Χ
14	Χ	Χ	Χ
18C	Χ	Χ	Χ
19F	Χ	Χ	Χ
23F	Χ	Χ	Χ
1		Χ	Χ
3		Χ	X
5		Χ	X
6A		Χ	
7F		Χ	X
19A		Χ	Χ
2			Χ
8			Χ
9N			Χ
10A			X
11A			X
12F			Χ
15B			X
17F			X
20			X
22F			X
33F			Х

^{*}The 13-valent pneumococcal conjugate vaccine (PCV13) includes the seven serotypes in the 7-valent vaccine (PCV7) and six additional serotypes. The 23-valent pneumococcal polysaccharide vaccine (PPSV23) includes 12 of the serotypes included in PCV13 (it does not include serotype 6A) and 11 additional serotypes.

Based on the 2007 rate of IPD in children aged <5 years (22 cases per 100,000), an estimated 4,600 cases of IPD occurred in this age group in the United States. Included among those cases were an estimated 70 cases caused by serotypes covered in PCV7 and 2,900 cases caused by serotypes covered in PCV13.

During 2006–2007, a total of 301 IPD cases with a known serotype occurred among children aged 24–59 months; 31 cases (10%) occurred in a child at high risk recommended for vaccination with PPSV23 (1). Of these 31 cases, the 11 serotypes included in PPSV23 but not in PCV13 (Table 1) accounted for four cases (13%), serotypes covered in PCV13 accounted for 13 cases (42%), and the remaining 14 cases (45%) were caused by serotypes not covered in either vaccine. PCV13 serotypes accounted for a smaller proportion of cases among children with underlying medical conditions than among healthy children aged 24–59 months (42% [13 of 31] versus 65% [175 of 270]; p = 0.01).

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Editorial Note

Routine infant immunization with PCV7 since 2000 has decreased rates of IPD in young children markedly, but IPD from non-PCV7 serotypes,

TABLE 2. Number of cases and incidence of invasive pneumococcal disease (IPD), by age and serotype group, among children aged <5 years — Active Bacterial Core surveillance (ABCs), 10 U.S. sites, 2007*

	All IPD [†]				CV13 seroty	pes§	Non	n-PCV13 ser	otypes	Serotype 19A			
Age (mos)	No.	(%)	Incidence	No.	(%)	Incidence	No.	(%)	Incidence	No.	(%)	Incidence	
<12	155	(36)	40.5	104	(38)	27.2	51	(33)	13.3	60	(33)	16.2	
12-23	124	(29)	31.2	73	(27)	18.4	51	(33)	12.8	57	(32)	14.7	
24-35	71	(17)	17.4	43	(16)	10.5	28	(18)	6.9	32	(18)	8.3	
36-47	48	(11)	12.4	34	(12)	8.8	14	(9)	3.6	20	(11)	5.2	
48-59	29	(7)	7.8	20	(7)	5.4	9	(6)	2.4	11	(6)	3.1	
AII <60	427	(100)	22	274	(100)	14.1	153	(100)	7.9	180	(100)	9.4	

^{*} Cases per 100,000 population. A case of IPD was defined as isolation of Streptococcus pneumoniae from a normally sterile body site (primarily blood or cerebrospinal fluid) in a resident of an ABCs surveillance area. Sites include Connecticut, Minnesota, and New Mexico, and selected counties in California, Colorado, Georgia, Maryland, New York, Oregon, and Tennessee.

[†] Excludes cases missing serotypes (13%); a total of 493 IPD cases were identified among children aged <5 years.

[§] The 13-valent pneumococcal conjugate vaccine (PCV13) includes serotypes 1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F, and 23F.

What is already known on this topic?

In February 2010, a new 13-valent pneumococcal conjugate vaccine (PCV13) was licensed by the Food and Drug Administration and recommended by the Advisory Committee on Immunization Practices (ACIP) for prevention of invasive pneumococcal disease in children; PCV13 succeeds the 7-valent vaccine (PCV7) used in the routine childhood immunization schedule since 2000.

What is added by this report?

In 2007, 64% of 427 invasive pneumococcal disease (IPD) cases observed in the Active Bacterial Core surveillance (ABCs) were caused by the serotypes covered by PCV13; 42% of cases were caused by serotype 19A alone.

What are the implications for public health practice?

Achieving and maintaining a high coverage of PCV13 can further reduce IPD among children aged <5 years; postlicensure monitoring will help characterize the effectiveness of PCV13 and track the potential change in disease burden caused by non-PCV13 serotypes.

predominantly serotype 19A, has increased and partially offset these reductions (2,4). Overall, rates of IPD have remained stable at 22–25 cases per 100,000 since 2002 (2,4). Based on the findings in this report, the use of PCV13 in the routine immunization schedule has the potential to further reduce IPD caused by the six additional serotypes (1, 3, 5, 6A, 7F, or 19A) among children aged <5 years.

PPSV23 has been available for use in adults aged ≥65 years and persons aged ≥2 years with certain underlying medical conditions since 1983 (1). In this analysis, approximately 42% of IPD cases among children aged 24–59 months with underlying medical conditions were caused by serotypes covered in PCV13; an additional 13% of cases were caused by serotypes not covered in PCV13 but included in PPSV23. The role for PPSV23 in high-risk children might become clearer when more data are available on disease burden and serotype distribution after routine use of PCV13.

Based on available safety, immunogenicity and disease burden data, ACIP also recommends that a single supplemental PCV13 dose be given to healthy children aged 14–59 months and to children with underlying medical conditions up to age 71 months who already have completed a schedule of PCV7 (3). In one study, a single dose of PCV13 in children aged

≥12 months who had received 3 previous doses of PCV7 induced an antibody response comparable to the 3-dose infant PCV13 series, and the safety profile of this supplemental dose was comparable to that after a fourth dose of PCV13 (5). Although rates of IPD are relatively low in these older children, ACIP also considered the emergence of multidrug-resistant serotype 19A strains causing meningitis and other severe invasive infections (6,7) and the substantial burden of noninvasive pneumococcal disease as additional factors in making the recommendation. Cost-effectiveness evaluations suggest that supplemental PCV13 vaccination appears comparable in cost effectiveness to other accepted interventions (CDC, unpublished data, 2009).

After PCV7 was introduced, rates of IPD caused by the seven serotypes covered in the vaccine also decreased substantially among unvaccinated children and adults. This indirect (or herd) effect resulted from reduced nasopharyngeal carriage of pneumococcus in vaccinated children and reduced transmission from children to unvaccinated children and adults (8). Immunization of children with PCV13 also is anticipated to have herd effects among adults. For example, as of 2007, serotype 19A had emerged as the most common cause of IPD in all age groups after PCV7 introduction (CDC, unpublished data, 2009). Colonization and disease caused by serotype 19A have a similar epidemiological pattern to those caused by PCV7 serotypes, and some degree of herd effects in the population might be expected. In contrast, some of the other new serotypes in PCV13 might have different epidemiologic characteristics (9). In particular, serotypes 1 and 5 are rarely found in the nasopharynx, so the potential herd effects of PCV13 vaccination on disease caused by these serotypes is uncertain. In the United States, however, serotypes 1 and 5 are relatively uncommon causes of IPD.

Although rates of pneumonia hospitalizations decreased after PCV7 introduction among children aged <2 years (10), the potential effects of PCV13 on noninvasive disease, such as nonbacteremic pneumonia and otitis media, are difficult to evaluate because of lack of standard case definitions, sensitive and specific diagnostic methods, and routine surveillance for these conditions. Information on these noninvasive pneumococcal diseases is not available in the ABCs dataset. Because PCV13 was licensed on the basis of immunogenicity studies rather than clinical efficacy trials, post-licensure monitoring is important to characterize

the effectiveness of PCV13 in different populations and to track the potential changes in disease burden caused by non-PCV13 serotypes.

Acknowledgments

The findings in this report are based, in part, on contributions by W Baughman, MSPH, P Malpiedi, MPH, KE Arnold, MD, Georgia Emerging Infections Program; M Cartter, MD, Z Fraser, Connecticut Dept of Public Health, Emerging Infections Program; G Smith, N Spina, MPH, J Karr, MPH, S Solghan, MPH, G Nattanmai, New York State Dept of Health, Emerging Infections Program; MM Lewis, MPH, ER Zell, MStat, C Van Beneden, MD, KA Toews, MPH, E Weston, MPH, and C Wright, ABCs Team, Respiratory Diseases Br, Div of Bacterial Diseases, National Center for Immunization and Respiratory Diseases, Atlanta, Georgia.

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Licensure of a 13-Valent Pneumococcal Conjugate Vaccine (PCV13) and Recommendations for Use Among Children — Advisory Committee on Immunization Practices (ACIP), 2010

On February 24, 2010, a 13-valent pneumococcal conjugate vaccine (PCV13 [Prevnar 13, Wyeth Pharmaceuticals Inc., a subsidiary of Pfizer Inc.]) was licensed by the Food and Drug Administration (FDA) for prevention of invasive pneumococcal disease (IPD) caused by the 13 pneumococcal serotypes covered by the vaccine and for prevention of otitis media caused by serotypes in the 7-valent pneumococcal conjugate vaccine formulation (PCV7 [Prevnar, Wyeth]). PCV13 is approved for use among children aged 6 weeks-71 months and succeeds PCV7, which was licensed by FDA in 2000. The Pneumococcal Vaccines Work Group of the Advisory Committee on Immunization Practices (ACIP) reviewed available data on the immunogenicity, safety, and costeffectiveness of PCV13, and on estimates of the vaccine-preventable pneumococcal disease burden. The working group then presented policy options for consideration of the full ACIP. This report summarizes recommendations approved by ACIP on February 24, 2010, for 1) routine vaccination of all children aged 2-59 months with PCV13, 2) vaccination with PCV13 of children aged 60-71 months with underlying medical conditions that increase their risk for pneumococcal disease or complications, and 3) PCV13 vaccination of children who previously received 1 or more doses of PCV7 (1). CDC guidance for vaccination providers regarding transition from PCV7 to the PCV13 immunization program also is included.

Prevnar 13 Licensure

Vaccine formulation. PCV13 contains polysaccharides of the capsular antigens of *Streptococcus pneumoniae* serotypes 1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F, and 23F, individually conjugated to a nontoxic diphtheria CRM₁₉₇ (CRM, crossreactive material) carrier protein. A 0.5-mL PCV13 dose contains approximately 2 μg of polysaccharide from each of 12 serotypes and approximately 4 μg of polysaccharide from serotype 6B; the total concentration of CRM₁₉₇ is approximately 34 μg. The vaccine contains 0.125 mg of aluminum as aluminum phosphate adjuvant and no thimerosal preservative.

PCV13 is administered intramuscularly and is available in single-dose, prefilled syringes that do not contain latex (2).

Immunogenicity profile. The immunogenicity of PCV13 was evaluated in a randomized, doubleblind, active-controlled trial in which 663 U.S. infants received at least 1 dose of PCV13 or PCV7 (3). To compare PCV13 antibody responses with those for PCV7, criteria for noninferior immunogenicity after 3 and 4 doses of PCV13 (pneumococcal immunoglobulin G [IgG] antibody concentrations measured by enzyme immunoassay) were defined for the seven serotypes common to PCV7 and PCV13 (4, 6B, 9V, 14, 18C, 19F, and 23F) and for the six additional serotypes in PCV13 (serotypes 1, 3, 5, 6A, 7F, and 19A). Functional antibody responses were measured by opsonophagocytosis assay (OPA) in a subset of the study population. Evaluation of these immunologic parameters indicated that PCV13 induced levels of antibodies that were comparable to those induced by PCV7 and shown to be protective against IPD (3).

Among infants receiving the 3-dose primary series, responses to three PCV13 serotypes (the shared serotypes 6B and 9V, and new serotype 3) did not meet the prespecified, primary endpoint criterion (percentage of subjects achieving an IgG seroresponse of $\geq 0.35~\mu g/mL$ 1 month after the third dose); however, detectable OPA antibodies to each of these three serotypes indicated the presence of functional antibodies (3). The percentages of subjects with an OPA titer ≥ 1.8 were similar for the seven common serotypes among PCV13 recipients (range: 90%–100%) and PCV7 recipients (range: 93%–100%); the proportion of PCV13 recipients with an OPA titer ≥ 1.8 was >90% for all of the 13 serotypes (3).

After the fourth dose, the IgG geometric mean concentrations (GMCs) were comparable for 12 of the 13 serotypes; the noninferiority criterion was not met for serotype 3. However, measurable OPA titers were present for all serotypes after the fourth dose; the percentage of PCV13 recipients with an OPA titer ≥1:8 ranged from 97% to 100% for the 13 serotypes and was 98% for serotype 3 (3).

A schedule of 3 doses of PCV7 followed by 1 dose of PCV13 resulted in somewhat lower IgG GMCs for the six additional serotypes compared with a 4-dose PCV13 series. However, the OPA responses after the fourth dose were comparable for the two groups, and the clinical relevance of these lower antibody responses is not known. The single dose of PCV13 among children aged ≥12 months who had received 3 doses of PCV7 elicited IgG immune responses to the six additional serotypes that were comparable to those after a 3-dose infant PCV13 series (3).

Safety profile. The safety of PCV13 was assessed in 13 clinical trials in which 4,729 healthy infants and toddlers were administered at least 1 dose of PCV13 and 2,760 children received at least 1 dose of PCV7, concomitantly with other routine pediatric vaccines. The most commonly reported (more than 20% of subjects) solicited adverse reactions that occurred within 7 days after each dose of PCV13 were injection-site reactions, fever, decreased appetite, irritability, and increased or decreased sleep (2). The incidence and severity of solicited local reactions at the injection site (pain/tenderness, erythema, and induration/ swelling) and solicited systemic reactions (irritability, drowsiness/increased sleep, decreased appetite, fever, and restless sleep/decreased sleep) were similar in the PCV13 and PCV7 groups. These data suggest that the safety profiles of PCV13 and PCV7 are comparable (2); CDC will conduct postlicensure monitoring for adverse events, and the manufacturer will conduct a Phase IV study.

Supportive data for safety outcomes were provided by a catch-up study among 354 children aged 7–71 months who received at least 1 dose of PCV13. In addition, an open label study was conducted among 284 healthy U.S. children aged 15–59 months who had previously received 3 or 4 doses of PCV7 (2). Among these children, the frequency and severity of solicited local reactions and systemic adverse reactions after 1 dose of PCV13 were comparable to those among children receiving their fourth dose of PCV13 (2).

Indications and Guidance for Use

ACIP recommends PCV13 for all children aged 2–59 months. ACIP also recommends PCV13 for children aged 60–71 months with underlying medical conditions that increase their risk for pneumococcal disease or complications (Table 1).

No previous PCV7/PCV13 vaccination. The ACIP recommendation for routine vaccination with PCV13 and the immunization schedules for infants and toddlers through age 59 months who have not received any previous PCV7 or PCV13 doses are the same as those previously published for PCV7 (4,5). PCV13 is recommended as a 4-dose series at ages 2, 4, 6, and 12–15 months. Infants receiving their first dose at age ≤6 months should receive 3 doses of PCV13 at intervals of approximately 8 weeks (the minimum interval is 4 weeks). The fourth dose is recommended at age 12–15 months, and at least 8 weeks after the third dose (Table 2).

Children aged 7–59 months who have not been vaccinated with PCV7 or PCV13 previously should receive 1 to 3 doses of PCV13, depending on their age at the time when vaccination begins and whether underlying medical conditions are present (Table 2). Children aged 24–71 months with chronic medical conditions that increase their risk for pneumococcal disease should receive 2 doses of PCV13. Interruption of the vaccination schedule does not require reinstitution of the entire series or the addition of extra doses.

Incomplete PCV7/ PCV13 vaccination. Infants and children who have received 1 or more doses of PCV7 should complete the immunization series with PCV13 (Table 3). Children aged 12–23 months who have received 3 doses of PCV7 before age 12 months are recommended to receive 1 dose of PCV13, given at least 8 weeks after the last dose of PCV7. No additional PCV13 doses are recommended for children aged 12–23 months who received 2 or 3 doses of PCV7 before age 12 months and at least 1 dose of PCV13 at age ≥12 months.

Similar to the previous ACIP recommendation for use of PCV7 (6), 1 dose of PCV13 is recommended for all healthy children aged 24–59 months with any incomplete PCV schedule (PCV7 or PCV13). For children aged 24–71 months with underlying medical conditions who have received any incomplete schedule of <3 doses of PCV (PCV7 or PCV13) before age 24 months, 2 doses of PCV13 are recommended. For children with underlying medical conditions who have received 3 doses of PCV (PCV7 or PCV13) a single dose of PCV13 is recommended through age 71 months. The minimum interval between doses is 8 weeks.

TABLE 1. Underlying medical conditions that are indications for pneumococcal vaccination among children, by risk group — Advisory Committee on Immunization Practices (ACIP), United States, 2010

Risk group	Condition
Immunocompetent children	Chronic heart disease* Chronic lung disease† Diabetes mellitus Cerebrospinal fluid leaks Cochlear implant
Children with functional or anatomic asplenia	Sickle cell disease and other hemoglobinopathies Congenital or acquired asplenia, or splenic dysfunction
Children with immunocompromising conditions	HIV infection Chronic renal failure and nephrotic syndrome Diseases associated with treatment with immunosuppressive drugs or radiation therapy, including malignant neoplasms, leukemias, lymphomas, and Hodgkin disease; or solid organ transplantation Congenital immunodeficiency [§]

^{*} Particularly cyanotic congenital heart disease and cardiac failure.

TABLE 2. Recommended routine vaccination schedule for 13-valent pneumococcal conjugate vaccine (PCV13) among infants and children who have not received previous doses of 7-valent vaccine (PCV7) or PCV13, by age at first dose — Advisory Committee on Immunization Practices (ACIP), United States, 2010

Age at first dose (mos)	Primary PCV13 series*	PCV13 booster dose [†]
2–6	3 doses	1 dose at age 12–15 mos
7–11	2 doses	1 dose at age 12–15 mos
12–23	2 doses	_
24–59 (Healthy children)	1 dose	_
24–71 (Children with certain chronic diseases or immunocompromising conditions [§])	2 doses	_

^{*} Minimum interval between doses is 8 weeks except for children vaccinated at age <12 months for whom minimum interval between doses is 4 weeks. Minimum age for administration of first dose is 6 weeks.

TABLE 3. Recommended transition schedule from 7-valent pneumococcal conjugate vaccine (PCV7) to 13-valent vaccine (PCV13) vaccination among infants and children, according to number of previous PCV7 doses received — Advisory Committee on Immunization Practices (ACIP), United States, 2010

	Infant series		Booster dose	Supplemental PCV13 dose
2 mos	4 mos	6 mos	≥12 mos*	14–59 mos [†]
PCV7	PCV13	PCV13	PCV13	_
PCV7	PCV7	PCV13	PCV13	_
PCV7	PCV7	PCV7	PCV13	_
PCV7	PCV7	PCV7	PCV7	PCV13

^{*} No additional PCV13 doses are indicated for children age 12–23 months who have received 2 or 3 doses of PCV before age 12 months and at least 1 dose of PCV13 at age ≥12 months.

[†] Including asthma if treated with prolonged high-dose oral corticosteroids.

[§] Includes B- (humoral) or T-lymphocyte deficiency; complement deficiencies, particularly C1, C2, C3, and C4 deficiency; and phagocytic disorders (excluding chronic granulomatous disease).

[†] Given at least 8 weeks after the previous dose.

 $[\]S$ For complete list of conditions, see Table 1.

[†] For children with underlying medical conditions (see Table 1), a single supplemental PCV13 dose is recommended through age 71 months

Complete PCV7 vaccination. A single supplemental dose of PCV13 is recommended for all children aged 14–59 months who have received 4 doses of PCV7 or another age-appropriate, complete PCV7 schedule (Table 3). For children who have underlying medical conditions, a single supplemental PCV13 dose is recommended through age 71 months. This includes children who have previously received the 23-valent pneumococcal polysaccharide vaccine (PPSV23). PCV13 should be given at least 8 weeks after the last dose of PCV7 or PPSV23.

In addition, a single dose of PCV13 may be administered to children aged 6–18 years who are at increased risk for IPD because of sickle cell disease, human immunodeficiency virus (HIV) infection or other immunocompromising condition, cochlear implant, or cerebrospinal fluid leaks, regardless of whether they have previously received PCV7 or PPSV23. Routine use of PCV13 is not recommended for healthy children aged ≥5 years.

Precautions and Contraindications

Before administering PCV13, vaccination providers should consult the package insert for precautions, warnings, and contraindications. Vaccination with PCV13 is contraindicated among persons known to have severe allergic reaction (e.g., anaphylaxis) to any component of PCV13 or PCV7 or to any diphtheria toxoid-containing vaccine (2).

Transition from PCV7 to PCV13

When PCV13 is available in the vaccination provider's office, unvaccinated children and children incompletely vaccinated with PCV7 should complete the immunization series with PCV13. If the only pneumococcal conjugate vaccine available in a provider's office is PCV7, that vaccine should be provided to children and infants who are due for vaccination; these children should complete their series with PCV13 at subsequent visits. Children for whom the supplemental PCV13 dose is recommended should receive it at their next medical visit, at least 8 weeks after the last dose of PCV7.

According to the manufacturer, supplies of PCV13 should be adequate to allow providers to vaccinate children according to the routine immunization schedule and provide a supplemental dose as recommended. For private vaccine supplies, providers should contact Pfizer's customer service department (telephone, 800-666-7248) with questions about purchasing quantities of PCV13 or returning PCV7 for credit. For public vaccine supplies, including Vaccines for Children Program vaccine, providers should contact their state/local immunization program to determine when PCV13 will become available for ordering in their jurisdiction and what to do with unused supplies of PCV7.

The PCV13 Vaccine Information Statement is available at http://www.cdc.gov/vaccines/pubs/vis/default.htm. Details about the routine pneumococcal conjugate vaccination schedule are available at http://www.cdc.gov/vaccines/recs/schedules/default.htm#child. Adverse events after receipt of any vaccine should be reported to the Vaccine Adverse Event Reporting System at http://vaers.hhs.gov.

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Short-Term Effects of Health-Care Coverage Legislation — Massachusetts, 2008

On April 12, 2006, Massachusetts enacted legislation to provide nearly universal health-care coverage to state residents (1). Beginning in mid-2006, various components of the law were launched in approximate 6-month intervals. One key component required all Massachusetts residents to purchase health insurance by July 1, 2007, either through private insurers or Commonwealth Care, a new state-subsidized health insurance program. To analyze the short-term effects of this legislation on health insurance coverage, the Massachusetts Department of Public Health (MDPH) reviewed data from the state's Behavioral Risk Factor Surveillance System (BRFSS) survey. An 18-month pre-law period and an 18-month post-law period were identified for comparison; the 12-month transition period from July 1, 2006, to June 30, 2007, during which the law took effect, was not included in the analysis. BRFSS data from the pre-law and post-law periods were compared to evaluate effects on the overall adult population aged 18-64 years and on various subpopulations. This report summarizes the results of those comparisons, which determined that health insurance coverage statewide increased by 5.5%, from 91.3% in the pre-law period to 96.3% in the post-law period, and that coverage increased 14.2% among Hispanics, from 77.9% to 89.0%. Despite the limitations inherent in this analysis, the increases in coverage likely are attributable to the new law. MDPH is using these results to target outreach more precisely to increase health insurance enrollment and health-care access among state residents.

BRFSS is a state-based, random-digit—dialed telephone survey of the noninstitutionalized U.S. civilian population aged ≥18 years and is conducted by state health departments in collaboration with CDC (2).* The overall sample size for the Massachusetts BRFSS increased from 8,906 respondents in 2005 to 20,559 respondents in 2008 because of increased participation by state public health programs. The response rate[†] for the Massachusetts BRFSS ranged

from 38% in 2005 to 48% in 2008, based on Council of American Survey and Research Organizations (CASRO) guidelines. The cooperation rate was 81% in 2008.

To gather information on health insurance, beginning in 1998 MDPH added three supplementary questions to the Massachusetts BRFSS survey. One new question asked all respondents who had health insurance to identify the type of coverage they used to pay for most of their medical care. Response options included various private, public, and other insurance plans; Commonwealth Care was added as a public plan response option in 2008. Beginning in September 2007 and continuing through 2008, the survey also included a set of questions tracking awareness of health-care reform and asking whether the respondent obtained health-care coverage because of the recent changes in Massachusetts law (3).

To analyze the effect of the law, two 18-month periods were chosen: January 1, 2005–June 30, 2006 (the pre-law period) and July 1, 2007–December 31, 2008 (the post-law period). The 12-month transition period from July 1, 2006, to June 30, 2007, during which the law took effect, was not included in the analysis. Health indicators for various population subgroups were analyzed, comparing the pre-law and post-law periods. Since 1994, the Massachusetts BRFSS has oversampled cities with highly diversified populations, including large Hispanic communities. Data for adults aged 18–64 years were analyzed;

^{*}BRFSS survey information is available at http://www.cdc.gov/BRFSS/technical_infodata/surveydata/2008.htm.

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

[§] Type of insurance was classified as 1) private insurance: coverage through an employer, someone else's employer, or a plan purchased by the person covered; 2) public insurance: Medicare, Medicaid, MassHealth, CommonHealth MassHealth, health maintenance organizations offered through Neighborhood Health Plan, Fallon Community Health Plan, BMC HealthNet or Network Health, Commonwealth Care, the military, CHAMPUS, TriCare, Veterans Administration (VA), CHAMP-VA, Indian Health Service, or the Alaska Native Health Service; or 3) other insurance: some other source of health insurance, such as a self-directed plan or student health insurance.

⁵A key element of the health-care legislation in Massachusetts was creation of the Commonwealth Health Insurance Connector, the agency responsible for connecting residents to either Commonwealth Care, a subsidized program for certain adults who have not been offered employer-sponsored insurance, or Commonwealth Choice, an unsubsidized offering of six private health plans available through the Health Connector to individuals, families, and certain employers.

data for adults aged 18–34 years also were analyzed separately to more closely examine this traditionally underinsured age group. The statistical significance (p<0.05) of differences between health indicators in the pre-law and post- law periods was estimated using the Wald chi-square test. Variability of point estimates of weighted** proportions was indicated by 95% confidence intervals.

The percentage of respondents who reported having health insurance rose 5.5%, from 91.3% in the pre-law period to 96.3% in the post-law period (Table 1). Among major subpopulations, the largest increases were observed among Hispanics (14.2%), persons with less than a high school diploma (12.0%), and persons with annual household incomes <\$25,000 (11.9%). Nonetheless, in the post-law period, these same three subpopulations continued to have the lowest percentages of health insurance coverage: 89.0% for Hispanics, 88.6% for persons with less than a high school diploma, and 89.0% for persons with annual household incomes <\$25,000.

By 2008, approximately 8% of publicly insured Massachusetts residents were obtaining their health insurance through the new public Commonwealth Care program. The percentage of insured residents with public health insurance (including those aged 18–64 years who were eligible for Medicare) increased 29.7%, from 14.8% in the pre-law period to 19.2% in the post-law period (Table 1). The percentage of insured residents with private insurance decreased 3.2%, from 80.8% to 78.2%, and the percentage of insured residents with other types of insurance (e.g., a self-directed plan or student health insurance) decreased 40.9%, from 4.4% to 2.6% (Table 1).

The overall percentage of respondents who reported having a personal health-care provider increased significantly, from 86.1% in the pre-law period to 87.7% in the post-law period (Table 2). The largest reported increases occurred among Hispanic respondents who answered the survey in Spanish (30.3% increase) and among Hispanics overall (17.0% increase).

The percentage of respondents who reported having a routine checkup within the past year also increased significantly, from 71.9% in the pre-law period to 74.1% in the post-law period (Table 3). The largest reported increases occurred among Hispanic respondents who answered the survey in Spanish

(19.9% increase) and among Hispanics overall (14.1% increase). The percentage of men reporting a routine checkup increased 5.1%, from 66.4% to 69.8%, but the percentage of women reporting a routine checkup did not change significantly. The percentage of respondents with chronic conditions who reported having a personal health-care provider or having had an annual checkup also did not change significantly after enactment of the health-care coverage law.

Reported by

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Editorial Note

The results of this analysis indicate that the estimated percentage of Massachusetts residents covered by health insurance increased significantly after passage of health-care coverage legislation. A wider comparison, between 2005 BRFSS state survey results and 2008 results, indicated that health insurance coverage increased from 89% to 97% among all state residents (including children and adults aged ≥65 years); the increase included an estimated 300,000 newly insured persons aged 18–64 years (3). After implementation of the health-care coverage law, the proportion of respondents who said they lacked health insurance was approximately cut in half, and 8% of publicly insured respondents were obtaining health insurance through the state's new Commonwealth Care program. The effects observed likely are attributable to the new law; although, because of limitations inherent in such studies, a causal link cannot be proven. Increases in health insurance coverage can result from multiple factors, such as a higher employment rate, reduction in health insurance premiums, or expansion of existing public health insurance programs. During 1996–1999, Massachusetts observed an increase in the percentage of persons with health insurance (3) after the state expanded Medicaid eligibility; as a result, an additional 124,000 Massachusetts residents obtained insurance coverage (4).

In this analysis, the observed increases in the percentage of insured among traditionally underserved subpopulations (e.g., Hispanics, persons with less than a high school diploma, and persons with annual household incomes <\$25,000) serve to strengthen the hypothesis that the increases in insurance coverage are

^{**} Data were weighted to the total Massachusetts population. The BRFSS weighting methodology is available at http://www.cdc.gov/brfss/technical_infodata/surveydata/2008/overview_08.rtf.

TABLE 1. Number and percentage of adults aged 18–64 years who reported having health insurance,* before and after enactment of health-care coverage law, by selected characteristics — Behavioral Risk Factor Surveillance System, Massachusetts, 2005–2008

	(January	Pre-law 1, 2005–Jun	ie 30, 2006†)	(July 1,	Post-lav 2007–Decem	w aber 31, 2008 [†])	0/	
Characteristic	No.§	%¶	(95% CI**)	No.	%	(95% CI)	— % change after enactment of law	p value††
Statewide	11,483	91.3	(90.5–92.1)	22,749	96.3	(95.9–96.8)	5.5	<0.001
Sex								
Male	4,483	89.4	(88.0-90.8)	8,483	95.0	(94.2 - 95.9)	6.3	< 0.001
Female	7,000	93.2	(92.2-94.1)	14,266	97.6	(97.2-98.0)	4.7	< 0.001
Sex (18–34 yrs age group only)								
Male	956	82.9	(79.6-86.3)	1,574	91.7	(89.7-93.8)	10.6	< 0.001
Female	1,664	91.0	(89.1-93.0)	2,646	96.7	(95.8-97.6)	6.3	< 0.001
Age group (yrs)								
18–34	2,620	87.1	(85.2-89.0)	4,220	94.3	(93.1-95.4)	8.3	< 0.001
35–44	3,039	93.5	(92.3 - 94.7)	5,340	97.2	(96.4-97.9)	4.0	< 0.001
45–54	3,147	93.6	(92.4 - 94.8)	6,716	97.4	(96.8 - 97.9)	4.1	< 0.001
55–64	2,677	94.1	(92.8-95.3)	6,473	97.5	(96.7-98.3)	3.6	< 0.001
Race/Ethnicity								
White, non-Hispanic	9,090	93.0	(92.2-93.9)	17,930	97.3	(96.8-97.7)	4.6	< 0.001
Black, non-Hispanic	564	88.2	(84.0-92.3)	1,281	92.7	(89.9-95.5)	5.1	0.068
Hispanic	1,255	77.9	(73.7-82.1)	2,438	89.0	(86.4-91.6)	14.2	< 0.001
Asian	245	90.5	(85.0-96.0)	509	98.4	(97.3-99.5)	8.7	0.001
Language of response among Hispanics								
English	758	84.6	(80.0-89.1)	1,323	93.3	(90.8-95.8)	10.3	0.001
Spanish	450	69.1	(61.2-77.0)	1,070	81.8	(76.1-87.5)	18.4	0.01
Education								
Less than high school diploma or GED§§	1,002	79.1	(74.3-84.0)	1,859	88.6	(85.3-92.0)	12.0	0.002
At least high school diploma or GED	10,456	92.2	(91.4-93.0)	20,815	96.8	(96.4-97.3)	5.0	< 0.001
Annual household income								
<\$25,000	2,239	79.5	(76.7-82.3)	4,437	89.0	(87.1-90.9)	11.9	< 0.001
\$25,000-\$74,999	4,255	91.0	(89.6-92.4)	7,864	96.2	(95.4–97.0)	5.7	< 0.001
≥\$75,000	3,562	97.4	(96.6-98.3)	8,099	99.4	(99.2-99.7)	2.1	< 0.001
Chronic health condition								
Fair or poor health ^{¶¶}	1,660	85.3	(82.3-88.2)	3,337	92.8	(90.7-94.8)	8.8	< 0.001
Disabled >1 yr***	1,162	91.1	(88.5-93.7)	3,504	97.1	(96.1-98.0)	6.6	< 0.001
Diabetic ^{†††}	764	92.4	(89.5–95.4)	1,759	97.9	(97.0–98.9)	6.0	< 0.001
Current asthma ^{§§§}	1,304	93.0	(90.7-95.3)	2,527	96.1	(94.3-98.0)	3.3	0.047
Insurance type among persons insured								
Private ^{¶¶¶}	8,077	80.8	(79.6-81.9)	15,931	78.2	(77.2-79.1)	-3.2	< 0.001
Public****	1,981	14.8	(13.8-15.9)	5,357	19.2	(18.4-20.1)	29.7	< 0.001
Other ^{††††}	439	4.4	(3.8-5.0)	565	2.6	(2.3-3.0)	-40.9	< 0.001

^{*} Determined by a "yes" response to the question, "Do you have any kind of health-care coverage, including health insurance, prepaid plans such as health maintenance organizations, or government plans such as Medicare?" in conjunction with response provided to the subsequent question, "What type of health-care coverage do you use to pay for most of your medical care?"

[†] The 12-month transition period from July 1, 2006, to June 30, 2007, during which the law took effect, was not included in the analysis.

[§] Subgroups might not sum to survey total because of missing responses within each subgroup.

[¶] Weighted percentages.

^{**} Confidence interval.

^{††} p values were calculated using the Wald chi-square test of the difference between each period.

^{§§} General Educational Development certificate.

[¶] Responded "fair" or "poor" to the question, "Would you say that in general your health is excellent, very good, good, fair, or poor?"

^{***} Responded "yes" to the question, "A disability can be physical, mental, emotional, or communication-related. Would you describe yourself as having a disability of any kind?" plus indicated >1 year when asked, "For how long have your activities been limited because of your major impairment, health problem, or disability?"

^{†††} Responded "yes" to the question, "Have you ever been told by a doctor that you have diabetes?"

^{§§§} Responded "yes" to both of these questions: "Have you ever been told by a doctor, nurse, or other health professional that you had asthma?" and "Do you still have asthma?"

¹¹¹ Defined as coverage through an employer, someone else's employer, or a plan purchased by the person covered.

^{****} Defined as coverage through Medicare, Medicaid, MassHealth, CommonHealth MassHealth, health maintenance organizations offered through Neighborhood Health Plan, Fallon Community Health Plan, BMC HealthNet or Network Health, Commonwealth Care, the military, CHAMPUS, TriCare, Veterans Administration (VA), CHAMP-VA, Indian Health Service, or the Alaska Native Health Service.

^{††††} Defined as some other source of health insurance such as a self-directed plan or student health insurance.

TABLE 2. Number and percentage of adults aged 18–64 years who reported having a personal doctor or health-care provider,* before and after enactment of health-care coverage law, by selected characteristics — Behavioral Risk Factor Surveillance System, Massachusetts, 2005–2008

	(January	Pre-law 1, 2005–Jur	ne 30, 2006†)	(July 1, 2	Post-la 007–Decem	w nber 31, 2008†)	— % change after	
Characteristic	No.§	%¶	(95% CI**)	No.	%	(95% CI)	enactment of law	p value††
Statewide	11,478	86.1	(85.0–87.1)	22,738	87.7	(86.9–88.5)	1.9	0.014
Sex								
Male	4,482	82.3	(80.7-84.0)	8,486	84.1	(82.8-85.5)	2.2	0.104
Female	6,996	89.6	(88.4-90.8)	14,252	91.1	(90.2-92.0)	1.7	0.041
Sex (18–34 yrs age group only)								
Male	958	71.6	(67.7-75.5)	1,576	72.0	(68.7-75.4)	0.6	0.870
Female	1,663	82.1	(79.3-84.9)	2,643	84.7	(82.4-87.1)	3.2	0.154
Age group (yrs)								
18–34	2,621	77.0	(74.6-79.4)	4,219	78.5	(76.4-80.5)	1.9	0.360
35–44	3,037	88.6	(87.1-90.2)	5,332	89.7	(88.5-90.9)	1.2	0.261
45–54	3,146	91.9	(90.6-93.2)	6,717	92.8	(91.8-93.7)	1.0	0.298
55–64	2,674	94.0	(92.8-95.2)	6,470	94.6	(93.5-95.7)	0.6	0.483
Race/Ethnicity								
White, non-Hispanic	9,084	89.0	(88.0-90.0)	17,929	90.2	(89.3-91.0)	1.3	0.083
Black, non-Hispanic	565	84.9	(79.8-89.9)	1,279	80.1	(75.6-84.6)	-5.7	0.183
Hispanic	1,258	63.5	(58.8-68.3)	2,432	74.3	(71.0-77.7)	17.0	< 0.001
Asian	244	76.9	(68.9-84.8)	507	79.8	(73.8–85.9)	3.8	0.556
Language of response among Hispanics								
English	758	74.8	(69.7-79.9)	1,320	81.7	(77.8-85.5)	9.2	0.033
Spanish	453	47.2	(39.6-54.9)	1,066	61.5	(55.5-67.5)	30.3	0.004
Education								
Less than high school diploma or GED ^{§§}	1,004	68.9	(63.5-74.2)	1,862	72.7	(68.2-77.2)	5.5	0.278
At least high school diploma or GED	10,457	87.4	(86.4-88.4)	20,802	88.7	(87.9-89.5)	1.5	0.049
Annual household income								
<\$25,000	2,236	74.7	(71.6-77.8)	4,436	76.2	(73.6-78.9)	2.0	0.456
\$25,000-\$74,999	4,247	86.4	(84.8-88.0)	7,854	87.6	(86.2-89.0)	1.4	0.253
≥\$75,000	3,561	92.5	(91.2-93.9)	8,096	92.6	(91.7-93.5)	0.1	0.948
Chronic health condition								
Fair or poor health ^{¶¶}	1,659	85.9	(82.9-88.9)	3,336	84.1	(81.3-86.9)	-2.1	0.395
Disabled >1 yr***	1,162	87.7	(84.3-91.2)	3,506	89.9	(87.9-91.9)	2.5	0.262
Diabetic ^{†††}	764	94.6	(91.9–97.3)	1,756	96.5	(95.1-97.8)	2.0	0.178
Current asthma ^{§§§}	1,300	91.7	(89.1-94.4)	2,524	88.2	(85.3-91.0)	-3.8	0.075

^{*} Determined by "yes" response to the question, "Do you have one person you think of as your personal doctor or health-care provider?"

attributable to the health-care coverage law, because implementation of heavily subsidized health insurance programs likely would affect these subpopulations first. Data from similar surveys in Massachusetts support this same hypothesis (5–7). For example, reports from the Massachusetts Division of Health Care Finance and Policy, which were focused on insurance status specifically, found that from fall 2006 to fall 2008, the number of uninsured working-age adults was reduced

by nearly 70%. Most of the gains in insurance coverage were concentrated among lower-income adults (7). In contrast, according to U.S. Census data, from 2007 to 2008, the overall proportion of U.S. adults with health insurance declined (8).

The largest increases in insurance coverage were among Hispanic respondents overall and Hispanic respondents who answered the survey in Spanish. Traditionally, a larger proportion of Hispanics in

[†] The 12-month transition period from July 1, 2006, to June 30, 2007, during which the law took effect, was not included in the analysis.

[§] Subgroups might not sum to survey total because of missing responses within each subgroup.

[¶] Weighted percentages.

^{**} Confidence interval.

^{††} p values were calculated using the Wald chi-square test of the difference between each period.

^{§§} General Educational Development certificate.

[¶] Responded "fair" or "poor" to the question, "Would you say that in general your health is excellent, very good, good, fair, or poor?"

^{***} Responded "yes" to the question, "A disability can be physical, mental, emotional, or communication-related. Would you describe yourself as having a disability of any kind?" plus indicated >1 year when asked, "For how long have your activities been limited because of your major impairment, health problem, or disability?"

††† Responded "yes" to the question, "Have you ever been told by a doctor that you have diabetes?"

^{§§§} Responded "yes" to both of these questions: "Have you ever been told by a doctor, nurse, or other health professional that you had asthma?" and "Do you still have asthma?"

TABLE 3. Number and percentage of adults aged 18–64 years who reported visiting a doctor within the preceding 12 months for a routine checkup,* before and after enactment of health-care coverage law, by selected characteristics — Behavioral Risk Factor Surveillance System, Massachusetts, 2005–2008

	(January	Pre-law y 1, 2005–Ju	, ne 30, 2006 [†])	(July 1, 2	Post-la 2007–Decen	w nber 31, 2008 [†])	- % change after		
Characteristic	No.§	%¶	(95% CI**)	No.	%	(95% CI)	enactment of law	p value††	
Statewide	11,401	71.9	(70.7–73.2)	22,617	74.1	(73.2–75.1)	3.1	0.006	
Sex									
Male	4,445	66.4	(64.4-68.4)	8,431	69.8	(68.2-71.3)	5.1	0.009	
Female	6,956	77.2	(75.7-78.7)	14,186	78.3	(77.2-79.4)	1.4	0.249	
Sex (18–34 age yrs group only)									
Male	943	61.8	(57.6-66.0)	1,560	64.7	(61.2-68.3)	4.7	0.294	
Female	1,656	75.4	(72.1-78.7)	2,618	75.5	(72.8-78.2)	0.1	0.974	
Age group (yrs)									
18–34	2,599	68.8	(66.2-71.5)	4,178	70.2	(68.0-72.4)	2.0	0.438	
35–44	3,026	68.1	(65.9-70.3)	5,311	70.7	(68.9-72.5)	3.8	0.069	
45–54	3,122	73.4	(71.2-75.6)	6,686	76.2	(74.7–77.7)	3.8	0.038	
55–64	2,654	82.5	(80.5-84.5)	6,442	83.7	(82.3-85.1)	1.5	0.326	
Race/Ethnicity									
White, non-Hispanic	9,030	71.8	(70.5-73.2)	17,842	73.5	(72.4-74.5)	2.4	0.067	
Black, non-Hispanic	562	82.2	(77.9-86.5)	1,276	78.1	(73.6-82.6)	-5.0	0.201	
Hispanic	1,240	71.1	(66.4-75.8)	2,412	81.1	(78.1-84.1)	14.1	< 0.001	
Asian	243	61.8	(53.0-70.5)	504	67.8	(61.6–74.0)	9.7	0.269	
Language of response among Hispanics									
English	752	75.0	(69.3–80.6)	1,308	80.6	(76.6 – 84.5)	7.5	0.103	
Spanish	442	69.3	(61.3–77.2)	1,058	83.1	(78.6 – 87.6)	19.9	0.002	
Education									
Less than high school diploma or GED ^{§§}	986	74.3	(69.3–79.4)	1,844	73.9	(69.4–78.5)	-0.5	0.901	
At least high school diploma or GED	10,398	71.7	(70.4–73.0)	20,702	74.1	(73.2–75.1)	3.3	0.003	
Annual household income									
<\$25,000	2,216	71.3	(68.2-74.5)	4,410	74.1	(71.6–76.5)	3.9	0.176	
\$25,000-\$74,999	4,223	71.3	(69.2-73.4)	7,823	74.4	(72.8–76.0)	4.3	0.021	
≥\$75,000	3,551	72.5	(70.5-74.5)	8,067	74.3	(72.9–75.7)	2.5	0.161	
Chronic health condition									
Fair or poor health ^{¶¶}	1,641	77.5	(74.0-81.1)	3,309	79.5	(76.5-82.4)	2.6	0.410	
Disabled >1 yr***	1,156	77.9	(74.2-81.7)	3,481	79.3	(76.9-81.7)	1.8	0.533	
Diabetic ^{†††}	761	89.1	(85.5-92.7)	1,745	91.8	(89.9–93.8)	3.0	0.165	
Current asthma ^{§§§}	1,293	79.8	(76.4–83.2)	2,507	76.6	(73.6–79.7)	-4.0	0.177	

^{*} Determined by a response of "within the past year (any time less than 12 months ago)" to the question, "About how long has it been since you last visited a doctor for a routine checkup? A routine checkup is a general physical exam, not an exam for a specific injury, illness, or condition."

Massachusetts have lacked access to health care, compared with other racial/ethnic populations (9,10). The results showed an 18.4% increase for persons responding in Spanish and a 14.2% increase for Hispanics overall. However, despite these increases, Hispanics continued to have the lowest health insurance coverage and the lowest percentage of persons with a personal health-care provider than any other

subpopulation. The percentage of younger adults, whites, blacks, and persons with chronic diseases who reported having a personal health-care provider did not change significantly. One reason might be that more time is needed for the effects of improved health-care access to be realized in these groups. Another reason might be that health-care providers are not equally accessible for certain groups or in certain areas

[†] The 12-month transition period from July 1, 2006, to June 30, 2007, during which the law took effect, was not included in the analysis.

[§] Subgroups might not sum to survey total because of missing responses within each subgroup.

[¶] Weighted percentages.

^{**} Confidence interval.

^{††} p values were calculated using the Wald chi-square test of the difference between each period.

^{§§} General Educational Development certificate.

[👭] Responded "fair" or "poor" to the question, "Would you say that in general your health is excellent, very good, good, fair, or poor?"

^{***} Responded "yes" to the question, "A disability can be physical, mental, emotional, or communication-related. Would you describe yourself as having a disability of any kind?" plus indicated >1 year when asked, "For how long have your activities been limited because of your major impairment, health problem, or disability?"

^{†††} Responded "yes" to the question, "Have you ever been told by a doctor that you have diabetes?"

^{§§§} Responded "yes" to both of these questions: "Have you ever been told by a doctor, nurse, or other health professional that you had asthma?" and "Do you still have asthma?"

What is already known on this topic?

Health-care coverage legislation in Massachusetts, enacted in 2006, was intended to extend affordable health insurance, resulting in increased health-care access and use.

What is added by this report?

Health-care coverage overall in Massachusetts increased from 91.3% to 96.3% after the law took effect, with the largest increase (14.2%) observed among Hispanics, although Hispanics continued to have the lowest percentage of health-care coverage (89.0%) among racial/ethnic groups.

What are the implications for public health practice?

Implementation of state-endorsed, low-cost, alternative health-care coverage appears to have contributed to an increase in the percentage of residents with health insurance, particularly in populations with the lowest health-care coverage; however, targeted efforts will be needed to reach these historically underserved populations.

of the state. Although the cost of a doctor visit might also be a factor, 2008 BRFSS data have shown that only 6% of all respondents reported that they were unable to visit a doctor during the past year because of cost, compared with 8% in 2006 (9).

In addition to an increase in the percentage of persons with health insurance, the findings in this analysis indicate changes in the proportion of plans that were private, public, or other (e.g., a self-directed plan or student health insurance) in Massachusetts. Those proportions changed from 80.8% private, 14.8% public, and 4.4% other before the law was enacted to 78.2%, 19.2%, and 2.6%, respectively. These changes were similar to U.S. Census data, which found that the proportion of adults with private health insurance declined from 2007 to 2008, while the proportion of publicly insured adults increased (8).

In addition to the limitations on establishing causality, the findings in this report are subject to at least three other limitations. First, BRFSS only samples households with landline telephones. Minorities, persons with lower socioeconomic status, and younger adults typically have lower landline telephone coverage and might be underrepresented in this report. However, poststratification weighting might correct some bias resulting from lack of landline telephones. Second, depending on when the survey was administered, some responses might pertain to health-care activities (e.g., having a personal-care provider in the

past year) that actually occurred during the 12-month transition period. Finally, BRFSS data are based on self-report and might be subject to error (e.g., underreporting of chronic conditions).

The findings in this report and others (10) can help local health departments in areas with large underserved populations assess local public health needs, enhance cultural competency, engage hospitals in community primary-care efforts, and address the availability of health-care providers. MDPH is targeting outreach more precisely to increase health insurance enrollment and health-care access among state residents.

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Progress Toward Poliomyelitis Eradication — Afghanistan and Pakistan, 2009

Afghanistan, Pakistan, India, and Nigeria are the four remaining countries where indigenous wild poliovirus (WPV) transmission has never been interrupted (1). This report updates previous reports (1,2) and describes polio eradication activities in Afghanistan and Pakistan during January–December 2009 and proposed activities in 2010 to address challenges. During 2009, both countries continued to conduct coordinated supplemental immunization activities (SIAs) and used multiple strategies to reach previously unreached children. These strategies included 1) use of short interval additional dose (SIAD) SIAs to administer a dose of oral poliovirus vaccine (OPV) within 1-2 weeks after a prior dose during negotiated periods of security; 2) systematic engagement of local leaders; 3) negotiations with conflict parties; and 4) increased engagement of nongovernmental organizations delivering basic health services. However, security problems continued to limit access by vaccination teams to large numbers of children. In Afghanistan, poliovirus transmission during 2009 predominantly occurred in 12 highrisk districts in the conflict-affected South Region; 38 WPV cases were confirmed in 2009, compared with 31 in 2008. In Pakistan, 89 WPV cases were confirmed in 2009, compared with 118 in 2008, but transmission persisted both in security-compromised areas and in accessible areas, where managerial and operational problems continued to affect immunization coverage. Continued efforts to enhance safe access of vaccination teams in insecure areas will be required for further progress toward interruption of WPV transmission in Afghanistan and Pakistan. In addition, substantial improvements in subnational accountability and oversight are needed to improve immunization activities in Pakistan.

Immunization Activities

Reported routine vaccination coverage of infants with 3 OPV doses (OPV3) in 2009 was 85% nationally in Afghanistan and 81% in Pakistan (3). However,

acute flaccid paralysis (AFP) surveillance data* suggest that actual routine OPV3 coverage was much lower nationally and varied widely by subnational level in both countries. Based on 2009 AFP surveillance data, routine OPV3 coverage among children aged 6–23 months with nonpolio AFP was 63% nationally in Afghanistan (13% in the South Region and 76% in the rest of the country) and 61% nationally in Pakistan (69% in Punjab Province, 50% in Northwest Frontier Province [NWFP] and the Federally Administered Tribal Areas [FATA], 52% in Sindh Province, and 23% in Balochistan Province).

During 2009, large-scale house-to-house SIAs[†] targeting children aged <5 years using different formulations of OPV, depending on the epidemiologic situation, continued in both countries (Table 1). OPV formulations included trivalent (tOPV), monovalent type 1 (mOPV1) and type 3 (mOPV3), or OPV bivalent types 1 and 3 (bOPV). Afghanistan conducted six national immunization days (NIDs); four subnational immunization days (SNIDs) in the East, Southeast, and South regions along the border with Pakistan, three of which targeted nearly 50% of the national population of children aged <5 years; and four smaller-scale SIAD SIAs after a preceding larger SIA, targeting children in conflict-affected areas of the South Region. Pakistan conducted six NIDs; four SNIDs in the main WPV transmission areas of NWFP/FATA, southern Punjab, and Sindh (including Karachi city), targeting 40%-50% of the national population aged <5 years; and four SIAD SIAs in conflict-affected areas of NWFP/FATA. These included two SIAD SIAs in Swat Valley, targeting >370,000 children aged <5 years, conducted after 1 year of civil conflict that prevented any polio vaccination.

^{*}Vaccination histories of children aged 6–23 months with AFP who do not test WPV positive are used to estimate OPV coverage of the overall target population and to verify national reported routine vaccination coverage estimates.

[†]Mass campaigns conducted for a brief period (days to weeks) in which 1 dose of OPV is administered to all children aged <5 years, regardless of vaccination history. Campaigns can be conducted nationally or in portions of the country.

[§] The first large-scale use of bOPV in the world occurred during the December 2009 SIA in Afghanistan.

SIADs are used during negotiated periods of security to vaccinate children in otherwise inaccessible areas in which an mOPV dose is administered within 1–2 weeks of the previous dose.

TABLE 1. Type of supplementary immunization activity (SIA) conducted and oral poliovirus vaccine (OPV) product used, by month — Afghanistan and Pakistan, 2009*

						Мо	nth					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Country/Area					Type of :	SIA [†] and C	PV [§] prod	duct used				
Afghanistan	NID	SNID	NID	SNID	NID	SNID	NID		SNID¶	NID	NID	SNID
Badakhshan	Т	_	Т	_	T	_	Т	_	_	Т	Т	_
Northeast	T	_	T	_	T	_	T	_	_	T	T	_
North	T	_	T	_	T	_	T	_	_	T	T	_
Central	T	_	T	_	T	M1	T	_	_	T	T	_
West												
All others	T	_	Т	_	T	_	T	_	M1	T	T	_
Farah Province	T	M1	T	M1	T	M1	T	_	M1	T	T	В
East	T	M3	T	M1	T	M1	T	_	M3	T	T	В
Southeast	T	M3	T	M1	T	M1	T	_	M1	T	T	В
South	T	M1	Т	M1	T	M1	Т	_	M3	Т	Т	В
Pakistan	NID		NID	SNID¶	NID	SNID¶	NID	SNID¶		NID	NID	SNID¶
FANA, AJK, and ICT**	T	_	T	_	T	_	Т	_	_	Т	Т	_
NWFP and FATA ^{††}	Т	_	Т	T,M1	Т	M1	Т	M1,M3	_	Т	Т	M1
Punjab												
Northern	T,M1	_	Т	M1	T	M1	Т	M3	_	Т	Т	M1
Southern	T	_	Т	M1	T	M1	T	M1	_	Т	T	M1
Balochistan	T	_	T	M1	T	M1	T	M1	_	T	T	M1
Sindh												
North	T	_	T	M1	T	M1	T	M1,M3	_	T	T	M1
Central and Karachi	M3	_	T	M1	T	M1	Т	M1,M3	_	T	Т	_

^{*} Data as of February 2, 2010.

In 2009, as in past years, certain vaccination campaigns were unable to reach children aged <5 years living in areas inaccessible** because of security problems. During 2009, the estimated percentage of children aged <5 years who were living in inaccessible areas in the South Region of Afghanistan ranged from >20% during SIAs conducted in January and March to 5% during the July and September SIAs. In Pakistan, the percentage of children aged <5 years who were living in SIA-inaccessible areas of NWFP increased from 10% in January to 20% in May and July, and then decreased to <5% in October and November. However, in FATA itself, the estimated percentage of children aged <5 years living in inaccessible areas increased from 15% in January to 30% by November.

AFP Surveillance

In 2009, AFP surveillance performance indicators remained high in both countries, including in areas with ongoing WPV transmission. †† The annual national nonpolio AFP rate (per 100,000 population aged <15 years) was 8.5 in Afghanistan (range among the eight regions: 6.7–12.0) and 6.1 in Pakistan (range among the six provinces/territories: 2.9–9.2). The percentage of nonpolio AFP cases for which adequate specimens were collected was 93% in Afghanistan (range: 81%–97%) and 90% in Pakistan (range: 83%–96%) (Table 2).

[†] SIA type: NID = National immunization day, SNID = Subnational immunization day.

⁹ OPV product: T = trivalent OPV; B = bivalent OPV, types 1 and 3; M1 = monovalent OPV, type 1; M3 = monovalent OPV, type 3.

[¶] SNIDs conducted in selected districts of each province or area.

^{**} Azad, Jammu, Kashmir (AJK), the Federally Administered Northern Areas (FANA), and Islamabad Capital Territory (ICT).

^{††} Northwest Frontier Province (NWFP), including the Federally Administrated Tribal Areas (FATA).

^{**} Areas considered too dangerous by the World Health Organization (WHO) and the local government to conduct an SIA.

^{††} The quality of AFP surveillance is monitored by three performance indicators: 1) detection rate of AFP cases not caused by WPV; 2) the proportion of AFP cases with adequate stool specimens; and 3) the proportion of stool specimens processed in a WHO-accredited laboratory. Current WHO operational targets for countries with endemic polio transmission are a nonpolio AFP detection rate of at least two cases per 100,000 population aged <15 years and adequate stool-specimen collection from >80% of AFP cases, in which two specimens are collected at least 24 hours apart, both within 14 days of paralysis onset, and shipped on ice or frozen packs to a WHO-accredited laboratory, arriving in good condition.

TABLE 2. Acute flaccid paralysis (AFP) surveillance indicators and number of reported wild poliovirus (WPV) cases — Afghanistan and Pakistan, 2009*

						Reported	WPV cases			
	No. of AFP	Nonpolio	% with adequate —		WPV by	quarter	1	Total case	es by type	– – Total WPV
Country/Area	cases	AFP rate [†]	specimens [§]	1st	2nd	3rd	4th	WPV1	WPV3	cases
Afghanistan	1,470	8.5	93	6	7	11	14	15	23	38
Badakhshan	55	11.3	87	_	_	_	_	_	_	_
Northeast	233	12	95	_	_	_	_	_	_	_
North	228	9.7	94	_	_	_	_	_	_	_
Central	273	8.6	97	_	1	_	_	1	_	1
West	190	6.9	97	_	_	1	_	1	_	1
East	130	8.6	96	1	_	_	1	1	1	2
Southeast	127	7.4	94	_	_	_	_	_	_	_
South	234	6.7	81	5	6	10	13	12	22	34
Pakistan	5,096	6.1	90	9	13	44	23	61	28	89
AJK, FANA, and ICT¶	88	2.9	96	_	_	_	_	_	_	_
NWFP**	1042	9.2	87	2	2	18	7	24	5	29
FATA ^{††}	164	7.6	86	2	2	13	3	9	11	20
Punjab	2,229	5.0	93	2	5	3	7	16	1	17
Balochistan	242	6.0	83	_	1	5	5	5	6	11
Sindh	1,331	7.0	90	3	3	5	1	7	5	12

^{*} Data as of February 2, 2010. All cases had onset of paralysis in 2009.

The polio laboratory at the National Institutes of Health (NIH) in Islamabad provides laboratory support for AFP surveillance in both countries, including genomic sequencing of poliovirus isolates. During 2009, the NIH laboratory processed 3,779 stool specimens from Afghanistan and 11,501 stool specimens from Pakistan. In 2009, to supplement AFP surveillance, Pakistan initiated weekly sewage sample collection in Lahore, Punjab Province, and Karachi, Sindh Province, to test for polioviruses.

WPV Incidence

In Afghanistan, 38 WPV cases (15 WPV1 and 23 WPV3) were reported during 2009, compared with 31 WPV cases (25 WPV1 and six WPV3) in 2008 (Figure, Table 2). During 2009, a total of 26 (68%) WPV cases were among children aged <36 months; nine (24%) had received no OPV doses; 12 (32%) had received 1−3 OPV doses, and 17 (44%) had received ≥4 OPV doses. WPV cases were found in 16 (5%) of 325 districts in Afghanistan during 2009 and 2008, of which 12 and 13 were found in the South Region, respectively, including eight districts with confirmed WPV cases during both years.

In Pakistan, 89 WPV cases (60 WPV1, 28 WPV3, and one WPV1/WPV3 mixed infection) were reported in 2009, compared with 118 cases (81 WPV1 and 37 WPV3) during 2008 (Figure, Table 2). During 2009, a total of 81 (91%) WPV cases were among children aged <36 months; 32 (36%) had received no OPV doses; 18 (20%) had received 1−3 OPV doses, and 39 (44%) had received ≥4 OPV doses. Of the 32 zero-dose cases, 22 (69%) came from only two repeatedly inaccessible areas, Swat Valley District and Bajour Agency. WPV cases were found in 34 (25%) of 135 districts in Pakistan during 2009, compared with 49 (36%) districts in 2008.

WPV genomic sequencing data from 2009 indicated continued endemic WPV circulation in two main transmission zones of both countries. In the northern transmission zone, which includes most of NWFP and FATA in Pakistan and bordering areas in eastern Afghanistan (Figure), 52 WPV cases (35 WPV1 and 17 WPV3) were reported during 2009. In the southern transmission zone, which extends from the West and South regions of Afghanistan into Pakistan through Balochistan and southern Punjab

[†] Per 100,000 children aged <15 years.

[§] Two stool specimens collected at an interval of at least 24 hours within 14 days of paralysis onset and properly shipped to the laboratory.

Azad Jammu and Kashmir (AJK), Federally Administered Northern Areas (FANA), and Islamabad Capital Territory (ICT).

^{**} Northwest Frontier Province (NWFP).

^{††} Federally Administered Tribal Areas (FATA).

^{§§} Persistently affected districts in the Quetta area include Kila Abdullah, Pishin, and Quetta.

Badakhshan North Northeast **FANA** Afghanistan Central Peshawar West AJK Southeast Islamabad **NWFP** Punjab South Paki**s**tan Quetta WPV type 1 △ WPV type 3 Balochistan Northern transmission zone Northern transmission zone districts Sindh with persistent transmission§ Southern transmission zone Karachi Southern transmission zone districts with persistent transmission

FIGURE. Wild poliovirus (WPV) cases, by type and province or region* — Afghanistan and Pakistan, 2009[†]

into Sindh, including persistently affected districts in the Quetta area^{§§} and several towns in Karachi, 58 cases (25 WPV1 and 33 WPV3) were reported during 2009. In addition, 17 WPV1 cases were reported throughout Punjab Province during 2009, most of which represented continuation of a 2008 outbreak in northern Punjab (4). In addition to determining the origin and transmission zones of circulating WPV, genomic sequencing of polioviruses obtained from AFP cases and sewage samples also found polioviruses not closely related to other viruses. Because genetic sequences of polioviruses generally are highly related in sensitive surveillance systems, the detection of these distantly related viruses indicates missed detection of WPV cases and suggests that performance indicators

are not revealing surveillance weaknesses in some subnational areas.

Reported by

World Health Organization (WHO) Eastern Mediterranean Regional Office, Cairo, Egypt; WHO Afghanistan, Kabul; WHO Pakistan, Islamabad; Polio Eradication Dept, WHO, Geneva, Switzerland. Global Immunization Div, Div of Viral Diseases, National Center for Immunization and Respiratory Diseases, CDC.

Editorial Note

During 2009, the total number of WPV cases reported in Afghanistan and Pakistan did not substantially change compared with 2008, and both WPV1 and WPV3 serotypes continued to circulate in the

^{*} NWFP: Northwest Frontier Province (includes Federally Administered Tribal Areas); AJK: Azad, Jammu, and Kashmir; FANA: Federally Administered Northern Areas.

 $^{^\}dagger$ Data as of February 2, 2010. All cases had onset of paralysis in 2009.

[§] Reported WPV cases during most of the past 5 years.

What is already known on this topic?

Afghanistan and Pakistan are two of the four remaining countries where indigenous wild poliovirus (WPV) transmission has never been interrupted.

What is added by this report?

Similar numbers of WPV cases were reported in Afghanistan and Pakistan in 2009 as in 2008, and both WPV1 and WPV3 serotypes continued to circulate in both countries; WPV transmission remained limited largely to previously affected districts of both countries.

What are the implications for public health practice?

Continued efforts to enhance safe access of vaccination teams in insecure areas are needed for interruption of WPV transmission in Afghanistan and Pakistan; also, substantial improvements in subnational accountability and oversight are needed to improve the quality of immunization activities in Pakistan.

same two shared transmission zones of both countries as in 2008. However, WPV transmission remained largely limited to previously affected districts of both countries. Additionally, some improvement was made toward the end of 2009 in decreasing the proportion of children in inaccessible districts of both countries, primarily in Afghanistan.

In Afghanistan, WPV transmission during the past 5 years has remained largely restricted to 12 insecure districts in the South Region. Since 2008, multiple strategies have been implemented to immunize these children. As a result, the proportion of children in the South Region who are not vaccinated in a given SIA was reduced to 5% of the overall target population toward the end of 2009. Meanwhile, Afghanistan has been able to keep most of the country free of endemic WPV transmission despite extensive population movements due to economic, social/cultural, and security reasons.

In Pakistan, circulation of both WPV serotypes persists in both transmission zones, with WPV repeatedly occurring, primarily in nine districts during the past 5 years. In the northern zone, WPV transmission continues because of limited access to children during

SIAs in insecure areas of NWFP and FATA. Large-scale population movements from NWFP and FATA have caused renewed WPV transmission in polio-free areas. Access to districts in NWFP improved during the last quarter of 2009, but access into FATA deteriorated. In the southern zone, WPV circulation continued mainly due to weak routine vaccination programs and managerial and operational gaps during SIAs, compounded by large-scale population movements from insecure areas in southern Afghanistan. Substantial improvements in subnational accountability and oversight are needed to improve the quality of immunization activities in Pakistan.

During 2010, planning, resources, and immunization activities need to focus on the small number of persistently affected districts in Afghanistan and Pakistan. In insecure areas, negotiations with community leaders need to be enhanced, and efforts are needed to achieve agreement of all parties to conflict regarding Days of Tranquility during SIAs to ensure access to the target population of children aged <5 years and the safety of vaccination teams. Negotiations with conflict parties have been and will be supported by the International Federation of Red Cross and Red Crescent Societies. Coordination of both SIAs and AFP surveillance between both countries also needs to be strengthened further to interrupt transmission from cross-border movements. In addition, specific mechanisms need to be established to hold provincial, district, and local administrative leaders accountable for program performance.

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Licensure of a Meningococcal Conjugate Vaccine (Menveo) and Guidance for Use — Advisory Committee on Immunization Practices (ACIP), 2010

On February 19, 2010, the Food and Drug Administration (FDA) licensed a quadrivalent meningococcal conjugate vaccine, MenACWY-CRM (Menveo, Novartis Vaccines and Diagnostics). MenACWY-CRM is licensed as a single dose for use among persons aged 11–55 years. The Advisory Committee on Immunization Practices (ACIP) reviewed data from prelicensure clinical trials on the safety and immunogenicity of MenACWY-CRM. This report summarizes the approved indications for MenACWY-CRM and provides guidance from ACIP for its use. The following guidance for use of MenACWY-CRM is consistent with licensed indications and ACIP recommendations for meningococcal conjugate vaccines.

MenACWY-CRM consists of two components: 1) 10 µg of lyophilized meningococcal serogroup A capsular polysaccharide conjugated to CRM₁₉₇ (MenA) and 2) 5 µg each of capsular polysaccharide of serogroup C, Y, and W135 conjugated to CRM₁₉₇ in 0.5 mL of phosphate buffered saline, which is used to reconstitute the lyophilized MenA component before injection (1). The reconstituted vaccine should be used immediately, but may be held at or below 77°F (25°C) for up to 8 hours. MenACWY-CRM is administered as an intramuscular injection, preferably into the deltoid region (1).

The capsular polysaccharide serogroups included in MenACWY-CRM are the same as those contained in Sanofi Pasteur's MCV4 (Menactra). In study participants aged 11–18 years, noninferiority of MenACWY-CRM to MCV4 was demonstrated for all four serogroups using the primary endpoint, hSBA seroresponse (serum bactericidal assay using human complement). The proportions of subjects with hSBA seroresponse were statistically higher for serogroups A, W, and Y in the MenACWY-CRM group, compared with the MCV4 group. The clinical relevance of higher postvaccination immune responses is not known (1). Safety and reactogenicity profiles were comparable to those observed with MCV4 (1).

Guidance for Use of MenACWY-CRM

MenACWY-CRM is licensed by the FDA as a single dose in persons aged 11-55 years (1). ACIP recommends quadrivalent meningococcal conjugate vaccine for all persons aged 11-18 years and for persons aged 2-55 years who are at increased risk for meningococcal disease. Persons at increased risk for meningococcal disease include 1) college freshmen living in dormitories, 2) microbiologists who are exposed routinely to isolates of Neisseria meningitidis, 3) military recruits, 4) persons who travel to or reside in countries where meningococcal disease is hyperendemic or epidemic, 5) persons who have persistent complement component deficiencies, and 6) persons with anatomic or functional asplenia (2). MenACWY-CRM or MCV4 may be used in persons aged 11-55 years, and are preferred to quadrivalent meningococcal polysaccharide vaccine (MPSV4) (2). Persons aged 2–10 years who are recommended to receive a meningococcal vaccine should receive MCV4, and persons aged >55 years should receive MPSV4 (3).

Severe allergic reaction (e.g., anaphylaxis) after a previous dose of Menveo, any component of this vaccine, or any other CRM₁₉₇, diphtheria toxoid, or meningococcal-containing vaccine is a contraindication to administration of Menveo. Details regarding the recommended meningococcal vaccination schedule are available at http://www.cdc.gov/vaccines/recs/schedules/default.htm#child. Adverse events after receipt of any vaccine should be reported to the Vaccine Adverse Event Reporting System at http://vaers.hhs.gov.

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- 2. CDC. Prevention and control of meningococcal disease: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 2005;54(No. RR-7).
- CDC. Updated recommendation from the Advisory Committee on Immunization Practices (ACIP) for revaccination of persons at prolonged increased risk for meningococcal disease. MMWR 2009;58:1042–3.

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 March 6, 2010 (9th week)*

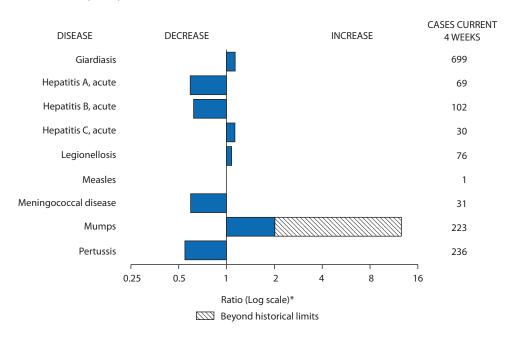
	Current	Cum	5-year weekly			ases re revious			States reporting cases
Disease	week	2010	average†	2009	2008	2007	2006	2005	during current week (No.)
Anthrax		_	0	1	_	1	1	_	
Botulism, total	_	7	2	99	145	144	165	135	
foodborne	_	_	0	11	17	32	20	19	
infant	_	6	2	64	109	85	97	85	
other (wound and unspecified)	_	1	0	24	19	27	48	31	
Brucellosis	1	8	2	110	80	131	121	120	CA (1)
Chancroid	1	15	1	46	25	23	33	17	VA (1)
Cholera	_	_	_	8	5	7	9	8	
Cyclosporiasis [§]	1	9	1	128	139	93	137	543	FL (1)
Diphtheria	_	_	_	_	_	_	_	_	
Domestic arboviral diseases [§] , ¶:									
California serogroup virus disease	_	_	0	54	62	55	67	80	
Eastern equine encephalitis virus disease	_	_	_	4	4	4	8	21	
Powassan virus disease	_	_	_	6	2	7	1	1	
St. Louis encephalitis virus disease	_	_	0	12	13	9	10	13	
Western equine encephalitis virus disease	_	_	_	_	_	_	_	_	
Haemophilus influenzae,** invasive disease (age <5 yrs):									
serotype b	_	2	1	27	30	22	29	9	
nonserotype b	_	23	5	215	244	199	175	135	
unknown serotype	3	48	4	231	163	180	179	217	FL (3)
Hansen disease [§]	_	6	1	73	80	101	66	87	
Hantavirus pulmonary syndrome [§]	_	1	0	13	18	32	40	26	
Hemolytic uremic syndrome, postdiarrheal ⁸	4	19	2	231	330	292	288	221	GA (1), FL (2), CA (1)
HIV infection, pediatric (age <13 yrs) ††	_	_	3	_	_	_	_	380	
Influenza-associated pediatric mortality §,§§	_	39	4	360	90	77	43	45	
Listeriosis	6	69	9	794	759	808	884	896	NY (1), MN (1), NC (1), FL (1), TN (1), WA (1)
Measles ¶¶	_	2	1	65	140	43	55	66	
Meningococcal disease, invasive***:									
A, C, Y, and W-135	4	34	11	286	330	325	318	297	MN (1), OK (1), WA (2)
serogroup B	_	19	5	148	188	167	193	156	
other serogroup	_	1	1	24	38	35	32	27	
unknown serogroup	6	65	17	477	616	550	651	765	OH (2), FL (1), ID (1), CA (2)
Mumps	81	484	20	1,443	454	800	6,584	314	NY (78), OH (1), TN (1), TX (1)
Novel influenza A virus infections †††	_	_	0	43,771	2	4	NN	NN	
Plague	_	_	0	8	3	7	17	8	
Poliomyelitis, paralytic	_	_	_	_	_	_	_	1	
Polio virus Infection, nonparalytic \$	_	_	_	_	_	_	NN	NN	
Psittacosis	_	1	0	9	8	12	21	16	
Q fever, total [§] , ^{§§§}	2	8	2	100	120	171	169	136	
acute	1	5	1	83	106	_	_	_	CA (1)
chronic	1	3	0	17	14	_	_	_	FL (1)
Rabies, human	_	_	_	4	2	1	3	2	
Rubella 199	_	1	0	3	16	12	11	11	
Rubella, congenital syndrome	_	_	0	1	_	_	1	1	
SARS-CoV [§] ,****	_	_	_	_	_	_	_	_	
Smallpox [§]	_	_	_	_	_	_	_	_	
Streptococcal toxic-shock syndrome [§]	1	15	4	139	157	132	125	129	WV (1)
Syphilis, congenital (age <1 yr)	_	11	7	318	431	430	349	329	
Tetanus	_	_	0	16	19	28	41	27	
Toxic-shock syndrome (staphylococcal) [§]	_	13	2	74	71	92	101	90	
Trichinellosis	_	_	0	11	39	5	15	16	
Tularemia	_	1	0	88	123	137	95	154	
Typhoid fever	4	51	6	345	449	434	353	324	FL (1), AZ (1), CA (2)
Vancomycin-intermediate Staphylococcus aureus 9	2	7	1	72	63	37	6	2	NY (2)
Vancomycin-resistant Staphylococcus aureus ⁹	_	_	_	_	_	2	1	3	
Vibriosis (noncholera <i>Vibrio</i> species infections) [§]	1	19	2	706	588	549	NN	NN	CA (1)
Viral Hemorrhagic Fever ***********************************	_	_	_	NN	NN	NN	NN	NN	
Yellow fever	_	_	_	_	_	_	_	_	

See Table I footnotes on next page.

TABLE I. (Continued) Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending March 6, 2010 (9th week)*

- —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable Cum: Cumulative year-to-date counts.
 - * Incidence data for reporting years 2009 and 2010 are provisional, whereas data for 2005 through 2008 are finalized.
 - † Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf.
 - Not reportable in all states. Data from states where the condition is not reportable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
- Includes both neuroinvasive and nonneuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.
- ** Data for H. influenzae (all ages, all serotypes) are available in Table II.
- ^{††} Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
- ⁵⁵ Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Since April 26, 2009, a total of 278 influenza-associated pediatric deaths associated with 2009 influenza A (H1N1) virus infection have been reported. Since August 30, 2009, a total of 265 influenza-associated pediatric deaths occurring during the 2009–10 influenza season have been reported. A total of 133 influenza-associated pediatric deaths occurring during the 2008-09 influenza season have been reported.
- ^{¶¶} No measles cases were reported for the current week.
- *** Data for meningococcal disease (all serogroups) are available in Table II.
- thi CDC discontinued reporting of individual confirmed and probable cases of 2009 pandemic influenza A (H1N1) virus infections on July 24, 2009. CDC will report the total number of 2009 pandemic influenza A (H1N1) hospitalizations and deaths weekly on the CDC H1N1 influenza website (http://www.cdc.gov/h1n1flu). In addition, three cases of novel influenza A virus infections, unrelated to the 2009 pandemic influenza A (H1N1) virus, were reported to CDC during 2009.
- ⁵⁵⁵ In 2009, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
- ¶¶¶ No rubella cases were reported for the current week.
- **** Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.
- †††† There were no cases of Viral Hemorrhagic Fever during week one. See Table II for Dengue Hemorrhagic Fever.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals March 6, 2010, with historical data



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

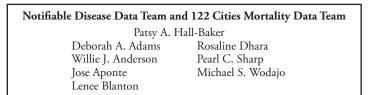


TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

		Chlamydi	a trachomatis	infection			Cryp	otosporidiosis		
	Current	Previous !	52 weeks	Cum	Cum	Current	Previous 5	2 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009
Jnited States	9,521	23,111	27,367	150,222	218,039	52	116	261	683	724
New England	624	759	1,194	5,618	6,945	_	6	24	36	81
Connecticut	_	220	531	859	1,905	_	0	12	12	40
Maine [†] Massachusetts	— 537	47 374	75 767	381 3,455	475 3,480	_	1 2	4 15	10 —	3 24
New Hampshire	1	39	60	143	385	_	1	5	4	8
Rhode Island [†]	53	67	244	578	508	_	0	8	1	1
Vermont [†]	33	23	63	202	192	_	1	9	9	5
Mid. Atlantic	1,473	3,002	4,296	24,969	26,697	2	14	37	63	79
New Jersey	316 639	398	630	2,739	4,427	<u> </u>	0	5	 12	5 23
New York (Upstate) New York City	039	607 1,184	2,155 2,289	4,764 10,245	4,490 10,283		3 1	16 5	4	25 15
Pennsylvania	518	816	1,010	7,221	7,497	1	9	19	47	36
E.N. Central	795	3,454	4,167	16,119	36,001	10	27	55	148	180
Illinois	_	1,015	1,219	137	11,017	_	3	8	12	21
Indiana	_	391	694	685	3,940	_	4	9	5	35
Michigan Ohio	682 113	881 671	1,330 986	8,771 3,732	8,520 8,840	2 8	6 7	11 16	46 43	36 47
Wisconsin	- 113	386	480	2,794	3,684	_	9	24	42	41
W.N. Central	455	1,310	1,703	8,183	12,473	14	19	61	95	71
lowa	8	169	252	659	1,770	1	4	13	21	16
Kansas	_	182	561	1,234	1,785	_	2	6	10	7
Minnesota	_	269	338	789	2,642	11	5	34	34	12
Missouri Nebraska [†]	387 60	507 106	638 236	4,440 851	4,510 936		3 2	12 9	11 13	17 11
North Dakota	_	31	92	210	298	_	0	5	_	
South Dakota	_	44	80	_	532	_	1	10	6	8
S. Atlantic	1,784	4,610	6,207	25,440	41,847	10	17	49	152	153
Delaware	97	86	180	722	833	_	0	2	1	_
District of Columbia Florida	— 598	120 1,414	178 1,671	627 11,205	1,332 13,097	4	0 7	1 24	— 57	1 50
Georgia	2	672	1,134	52	6,863	2	5	31	74	66
Maryland [†]	501	447	1,031	2,895	3,448	2	1	5	5	5
North Carolina	_	650	1,265		7,333	_	0	8	_	20
South Carolina [†] Virginia [†]	 519	523 620	1,421 926	4,214	3,913 4,302	<u> </u>	1 1	7 7	5 7	4 6
West Virginia	67	67	136	5,134 591	4,302 726	1	0	2	3	1
E.S. Central	1,482	1,697	2,231	12,190	15,925	4	4	10	30	21
Alabama [†]	-	453	629	2,266	4,332		i	5	4	6
Kentucky	325	223	642	2,007	2,203	2	1	4	11	3
Mississippi	618	430	840	3,019	4,025	_	0	3	4	4
Tennessee [†]	539	579	734	4,898	5,365	2	1	5	11	8
W.S. Central Arkansas [†]	520 314	3,050 269	5,787 416	23,865 2,389	28,555 2,739	3	8 1	37 5	32 8	33 3
Louisiana	- J14	520	1,055	2,922	5,493	_	0	6	_	4
Oklahoma	206	202	2,714	3,077	1,277	1	2	9	5	5
Texas [†]	_	2,040	3,079	15,477	19,046	2	5	22	19	21
Mountain	552	1,371	2,096	9,693	12,871	4	10	26	63	46
Arizona	137 255	487 353	755 689	2,612	3,989	<u> </u>	0 2	3 10	2 17	5
Colorado Idaho [†]	255	61	184	3,294 318	2,786 664	3	2	7	17	8 5
Montana [†]	_	54	86	378	602	_	1	4	8	2
Nevada [†]	151	171	478	1,442	2,144	_	0	2	1	_
New Mexico†	_	172	257	664 715	1,157	_	2	8	9	19
Utah Wyoming [†]	9	112 36	142 69	715 270	1,170 359	_	0	4 2	6 3	2 5
Pacific	1,836	3,463	4,815	24,145	36,725	5	13	26	64	60
Alaska	1,630 —	98	128	723	987	_	0	1	1	1
California	1,556	2,638	3,907	18,745	28,772	5	6	17	37	34
Hawaii	_	120	147	767 1 267	1,045	_	0	1	 17	- 22
Oregon Washington	 280	217 392	468 525	1,367 2,543	1,790 4,131	_	3 1	10 13	17 9	22 3
•	200			۷,545	7,131	- NI				
American Samoa C.N.M.I.	_	0	0	_	_	N —	0	0	N —	N —
Guam	_	0	0	_	_	_	0	0	_	_
Puerto Rico	120	130	331	1,030	1,289	N	0	0	N	N
U.S. Virgin Islands	_	9	17	19	38	_	0	0	_	_

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

					Dengue V	rus Infection				
			Dengue Feve				Dengue l	Hemorrhagic F	ever [†]	
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	_	0	3	7	NN	_	0	0	_	NN
New England	_	0	1	1	NN	_	0	0	_	NN
Connecticut Maine [§]	_	0	0 1	_ 1	NN NN	_	0	0	_	NN NN
Massachusetts	_	0	0		NN	_	0	0	_	NN
New Hampshire	_	Ö	Ö	_	NN	_	Ö	Ö	_	NN
Rhode Island [§]	_	0	0	_	NN	_	0	0	_	NN
Vermont [§]	_	0	0	_	NN	_	0	0	_	NN
Mid. Atlantic	_	0	1	2	NN	_	0	0	_	NN
New Jersey New York (Upstate)	_	0	0	_	NN NN	_	0	0	_	NN NN
New York City	_	0	0	_	NN	_	0	0	_	NN
Pennsylvania	_	0	1	2	NN	_	0	0	_	NN
E.N. Central	_	0	1	1	NN	_	0	0	_	NN
Illinois	_	0	0	_	NN	_	0	0	_	NN
Indiana	_	0	0	_	NN	_	0	0	_	NN
Michigan Ohio	_	0	0 1	_ 1	NN NN	_	0	0	_	NN NN
Wisconsin	_	ő	Ö		NN	_	Ö	Ö	_	NN
W.N. Central	_	0	0	_	NN	_	0	0	_	NN
lowa	_	Ö	ő	_	NN	_	ő	Ö	_	NN
Kansas	_	0	0	_	NN	_	0	0	_	NN
Minnesota	_	0	0	_	NN	_	0	0	_	NN
Missouri Nebraska [§]	_	0	0	_	NN NN	_	0	0	_	NN NN
North Dakota	_	Ő	ő	_	NN	_	ő	Ö	_	NN
South Dakota	_	0	0	_	NN	_	0	0	_	NN
S. Atlantic	_	0	1	1	NN	_	0	0	_	NN
Delaware	_	0	0	_	NN	_	0	0	_	NN
District of Columbia Florida	_	0	0	_	NN NN	_	0	0	_	NN NN
Georgia	_	0	1	1	NN	_	0	0	_	NN
Maryland [§]	_	0	0		NN	_	Ö	0	_	NN
North Carolina	_	0	0	_	NN	_	0	0	_	NN
South Carolina§	_	0	0	_	NN	_	0	0	_	NN
Virginia [§] West Virginia	_	0	0	_	NN NN	_	0	0	_	NN NN
		0	0		NN		0	0		NN
E.S. Central Alabama [§]	_	0	0	_	NN	_	0	0	_	NN
Kentucky	_	Ö	Ö	_	NN	_	Ö	Ö	_	NN
Mississippi	_	0	0	_	NN	_	0	0	_	NN
Tennessee [§]	_	0	0	_	NN	_	0	0	_	NN
W.S. Central	_	0	0	_	NN	_	0	0	_	NN
Arkansas [§] Louisiana	_	0	0	_	NN NN	_	0	0	_	NN NN
Oklahoma	_	0	0	_	NN	_	0	0	_	NN
Texas [§]	_	0	0	_	NN	_	0	0	_	NN
Mountain	_	0	0	_	NN	_	0	0	_	NN
Arizona	_	0	0	_	NN	_	0	0	_	NN
Colorado Idaho [§]	_	0	0	_	NN	_	0	0	_	NN
Montana [§]	_	0	0	_	NN NN	_	0	0	_	NN NN
Nevada [§]	_	Ő	ő	_	NN	_	ő	Ö	_	NN
New Mexico§	_	0	0	_	NN	_	0	0	_	NN
Utah	_	0	0	_	NN	_	0	0	_	NN
Wyoming [§]	_	0	0	_	NN	_	0	0	_	NN
Pacific Alaska	_	0	2	2	NN NN	_	0	0	_	NN NN
California	_	0	0	_	NN	_	0	0	_	NN
Hawaii	_	Ö	0	_	NN	_	Ő	0	_	NN
Oregon	_	0	0	_	NN	_	0	0	_	NN
Washington	_	0	2	2	NN	_	0	0	_	NN
American Samoa	_	0	0	_	NN	_	0	0	_	NN
C.N.M.I. Guam	_		0	_	NN NN	_		0	_	NN NN
	_			_		_			_	
Puerto Rico	_	0	0	_	NN	_	0	0	_	NN

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

							Ehrlichic	sis/Anapla	smosis†						
		Ehrli	chia chaffe	ensis			Anaplasm	a phagocyto	ophilum			Und	etermined		
	Current	Previous	52 weeks	C	C	Comment	Previous	52 weeks	C	Cirra	Comment	Previous	52 weeks	C	
Reporting area	week	Med	Max	Cum 2010	Cum 2009	Current week	Med	Max	Cum 2010	Cum 2009	Current week	Med	Max	Cum 2010	Cum 2009
United States	4	11	58	17	20	_	13	64	8	9		2	13	1	1
New England	_	0	4	1	1	_	2	21	4	3	_	0	2	_	_
Connecticut	_	0	0	_	_	_	0	11	_	_	_	0	1	_	_
Maine [§] Massachusetts	_	0	1 0	1	_	_	0	3 0	2	_	_	0	0	_	_
New Hampshire	_	Ö	1	_	_	_	Ö	3	_	1	_	0	1	_	_
Rhode Island [§]	_	0	4	_	1	_	0	20	2	2	_	0	1	_	_
Vermont [§]	_ 1	0 2	1 17	_ 2	_	_	0	0 22	_ 1	_	_	0	0 2	_	_
Mid. Atlantic New Jersey		0	17	_	1	_	0	0		_	_	0	0	_	_
New York (Upstate)	1	1	17	1	_	_	3	21	1	_	_	0	1	_	_
New York City	_	0	3	_	1	_	0	1	_	_	_	0	2	_	_
Pennsylvania	_	0	1	1	_	_	0	0	_	_	_	0	0	_	_
E.N. Central Illinois	_	1 0	8 4	_	_	_	3 0	22 1	1	2	_	1	9 1	_	_
Indiana	_	0	0	_	_	_	0	0	_	_	_	0	1 8	_	_
Michigan	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Ohio	_	0	2	_	_	_	0	1	_	_	_	0	1	_	_
Wisconsin	_	0	5	_	_	_	3	22	1	2	_	0	3	_	_
W.N. Central	_	2	23 0	1	1	_	0	41 0	_	_	_	0	5 0	1	_
Iowa Kansas	_	0	2	_	_	_	0	0	_	_	_	0	0	_	_
Minnesota	_	0	3	_	1	_	0	41	_	_	_	0	5	_	_
Missouri	_	1	22	1	_	_	0	1	_	_	_	0	3	1	_
Nebraska [§] North Dakota	_	0	1 0	_	_	_	0	1 0	_	_	_	0	0	_	_
South Dakota	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
S. Atlantic	3	3	19	12	15	_	0	2	2	3	_	0	2	_	_
Delaware	_	0	2	1	1	_	0	1	_	_	_	0	0	_	_
District of Columbia	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Florida Georgia	_	0	1 2	1 3	2	_	0	1 1	_ 1	_ 1	_	0	0	_	_
Maryland [§]	_	1	4	4	4	_	0	1		1	_	0	1	_	_
North Carolina	3	0	4	3	5	_	0	1	1	1	_	0	0	_	_
South Carolina [§]	_	0	1	_	_	_	0	0	_	_	_	0	0	_	_
Virginia [§] West Virginia	_	1 0	13 1	_	_	_	0	1 0	_	_	_	0	2 0	_	_
E.S. Central	_	1	11	_	2	_	0	1	_	1	_	0	5	_	1
Alabama§	_	0	3	_	_	_	0	1	_	_	_	0	0	_	_
Kentucky	_	0	2	_	_	_	0	0	_	_	_	0	1	_	_
Mississippi	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Tennessee§	_	1	10	_	2	_	0	1 1	_	1	_	0	5	_	1
W.S. Central Arkansas [§]		0	9 5	1	_	_	0	0		_		0	0		
Louisiana	_	0	0		_	_	0	0	_	_	_	0	0	_	_
Oklahoma	_	0	8	_	_	_	0	1	_	_	_	0	0	_	_
Texas [§]	_	0	1	1	_	_	0	1	_	_	_	0	0	_	_
Mountain	_	0	0	_	_	_	0	0	_	_	_	0	1	_	_
Arizona Colorado	_	0	0 0	_	_	_	0	0	_	_	_	0	0	_	_
Idaho [§]	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Montana [§]	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Nevada [§] New Mexico [§]	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Utah	_	0	0 0	_	_	_	0	0	_	_	_	0	0	_	_
Wyoming§	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Pacific	_	0	1	_	_	_	0	0	_	_	_	0	0	_	_
Alaska	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
California Hawaii	_	0	1 0	_	_	_	0	0	_	_	_	0	0	_	_
Oregon	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Washington	_	Ö	0	_	_	_	0	Ö	_	_	_	Ő	Ö	_	_
American Samoa	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam Puerto Rico	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0		_
o.s. virgin islanus			U					U				U	U		

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

† Cumulative total *E. ewingii* cases reported as of this week = 0.

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

			Giardiasis	i				Gonorrhe	a			aemophilus i All ages	nfluenzae, , all serotyp		
	Current		52 weeks	Cum	Cum	Current	Previous 5		Cum	Cum	Current	Previous 5		Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	154	327	575	2,146	2,622	2,031	5,451	6,889	34,454	53,634	25	54	140	420	601
New England	4 1	29	64 15	121 51	217 44	53	94	174 106	714 245	881 394	_	3 0	19 13	7	30 5
Connecticut Maine [§]	1	6 4	13	26	32	_	46 3	110	42	39 4 17	_	0	2	1	3
Massachusetts	_	13	36	_	89	43	38	81	348	397	_	2	8	_	18
New Hampshire	_	3 1	12	17 2	18	5 4	2 6	6 19	26	18 49	_	0	2 2	4 2	3
Rhode Island [§] Vermont [§]		4	6 14	25	11 23	1	1	5	46 7	6	_	0	1	_	_ 1
Mid. Atlantic	18	61	100	358	488	281	599	840	5,167	5,468	7	12	26	112	100
New Jersey	_	0	12	_	82	55	87	128	707	827	_	1	7	6	15
New York (Upstate)	13	25 15	80	166 89	162	74	101 215	353	729 1,984	922	4	3 2	18	35	25 15
New York City Pennsylvania	 5	16	26 35	103	143 101	152	195	417 275	1,984	1,968 1,751	3	4	11 10	16 55	45
E.N. Central	16	45	74	319	396	194	1,046	1,346	4,427	11,414	_	10	29	58	144
Illinois	_	11	21	44	87	_	325	382	47	3,436	_	3	10	10	29
Indiana	N	0	0	N	N	_	121	209	227	1,370	_	1	5	11	16
Michigan Ohio	1 15	13 16	25 28	84 142	105 127	175 19	256 227	503 357	2,543 1,037	2,929 2,694	_	0 2	4 6	1 23	4 21
Wisconsin	_	9	19	49	77	_	92	146	573	985	_	3	21	13	74
W.N. Central	7	25	155	161	202	95	271	361	1,667	2,739	2	2	21	19	31
Iowa	1	5	15	41	47	_	31	46	86	286	_	0	0	_	_
Kansas	_	3	14	31	20	_	41	85	217	460	_	0	2	3	5 7
Minnesota Missouri	_	0 9	135 27	— 47	1 87	— 81	41 122	64 172	115 1,065	421 1,229	1	1	17 6	2 10	12
Nebraska [§]	6	3	9	36	28	14	23	54	170	259	1	0	3	2	6
North Dakota	_	0	8	_	2	_	2	14	14	14	_	0	2	2	1
South Dakota	_	0	5	6	17	— 479	1 242	14	7 124	70 12.570	_	0	0	_	140
S. Atlantic Delaware	46 1	72 0	107 3	532 8	644 4	479 17	1,342 18	1,790 37	7,134 164	12,570 178	6	12 0	31 1	96 1	149 1
District of Columbia		0	2	_	12		47	88	251	543	_	0	1		
Florida	33	37	59	285	325	177	408	476	3,126	3,735	5	4	10	31	51
Georgia Maryland [§]	 6	10 5	67 12	101 42	172 48	118	215 123	415 242	23 805	2,401 962	1	3 1	9 6	39 7	28 17
North Carolina	N	0	0	N N	40 N		219	377	- 603	2,487	_	0	17	_	16
South Carolina [§]	_	2	8	15	14	_	160	412	1,247	1,181	_	1	7	17	8
Virginia [§] West Virginia	6	8 1	33	76 5	62	150 17	159	272	1,444 74	972	_	0	3 4	_ 1	18
•	_	7	5 22	35	7 69	420	8 471	18 649	3,429	111 4,774	_ 1	3	12	26	10 38
E.S. Central Alabama [§]	_	4	13	15	37	4 20	133	187	692	1,324		0	4	20	8
Kentucky	N	0	0	N	N	89	63	156	602	634	_	0	5	2	4
Mississippi	N	0	0	N	N	184	134	249	872	1,292	_	0	2	3	3
Tennessee [§]	_	4 7	18 19	20 35	32 49	147	153 898	206	1,263	1,524	1 3	2	10 9	19 19	23 24
W.S. Central Arkansas [§]	_	3	9	35 17	49 10	134 76	898	1,553 139	6,368 686	8,323 792	3	0	3	2	24 5
Louisiana	_	0	7		31	_	165	343	910	1,846	_	0	1	_	5
Oklahoma	2	3	10	18	8	58	63	613	816	462	3	1	7	16	13
Texas [§]	N	0	0	N	N	_	560	917	3,956	5,223	_	0	2	1	1
Mountain Arizona	21 4	26 3	61 11	230 25	209 23	64 11	164 57	239 93	1,114 327	1,644 476	6 1	5 1	13 9	68 24	59 27
Colorado	14	9	26	114	65	22	40	99	359	511	4	1	6	20	14
Idaho [§]	3	3	10	35	21	_	1	8	6	20	_	0	1	2	1
Montana [§] Nevada [§]	_	2	11	12	17		1	5	17	12	_	0	1	_	1
New Mexico [§]	_	1 1	10 8	5 6	5 19	31	26 21	94 36	275 100	392 161	_ 1	0 1	2 5	4 11	4 5
Utah	_	5	13	23	47	_	5	13	28	63	<u>.</u>	1	2	2	7
Wyoming [§]	_	1	5	10	12	_	1	7	2	9	_	0	2	5	_
Pacific	40	51	148	355	348	311	533	638	4,434	5,821	_	3	9	15	26
Alaska California	32	2 33	7 60	9 245	10 258	283	19 438	32 531	176 3,736	154 4,858	_	0	3 4	5 —	3 8
Hawaii		0	2	_	3		12	24	104	104	_	0	5	_	6
Oregon	_	8	18	60	50	_	19	44	106	219	_	1	4	8	8
Washington	8	7	95	41	27	28	40	64	312	486	_	0	4	2	1
American Samoa C.N.M.I.	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Guam	_	0	0	_	_	_		0	_	_	_	0	0	_	_
Puerto Rico	_	1	10	1	24	5	4	24	42	30	_	0	1	1	_
U.S. Virgin Islands	_	0	0	_	_	_	2	7	5	16	N	0	0	N	N

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

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

			1				Hepatitis (viral, acute	e), by type		1 8				
			Α					В					С		
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	21	35	57	201	336	25	57	96	338	654	9	17	39	94	136
New England Connecticut	_	2	5 2	8 7	18	_	1 0	3	4	8	_	1 1	5	2 2	9
Maine [†]	_	0	1	1	5 1	_	0	2	1	3 1	_	0	4 2	_	6
Massachusetts New Hampshire	_	1 0	4 1	_	10 1	_	0	2 1	_	3 1	_	0	1 0	_	2
Rhode Island [†]	_	0	1	_	1	_	0	0	_		_	0	0	_	_
Vermont [†]	_	0	1	_	_	_	0	0	_	_	_	0	0	_	1
Mid. Atlantic New Jersey	3	4 0	10 5	27 2	49 15	1	5 1	16 6	24	69 15	2	2	7 1	11	15 1
New York (Upstate)	2	1	3	7	7	_	1	6	6	14	1	1	4	8	5
New York City Pennsylvania		2 1	5 6	10 8	13 14	_ 1	1	5 6	9 9	11 29	_ 1	0	0 4	3	9
E.N. Central	_	5	19	20	58	2	6	14	41	107	1	4	12	18	32
Illinois	_	2	13	1	21	_	1	6	_	20	_	0	1	_	3
Indiana Michigan	_	0 1	4 4	6	4 14	_	1 2	5 6	7 17	16 27	_ 1	0 3	4 10	— 17	2 16
Ohio	_	0	4	8	13	2	1	4	17	34	_	0	4	1	10
Wisconsin W.N. Central	_	0 2	2 7	5 7	6 15	_ 1	0	4 10	24	10 34	_	0	2 7	 5	1 3
lowa	_	0	3	3	_		0	3	3	7	_	0	4	_	1
Kansas Minnesota	_	0	2 4	3	1 4	_	0	2 9	1	1 4	_	0	1 6	_	_
Missouri	_	0	3	1	6	_	2	5	14	16	_	0	2	3	1
Nebraska [†] North Dakota	_	0 0	3 1	_	4	1	0	2	6	5	_	0	1 1	1	1
South Dakota	_	0	1	_	_	_	0	1	_	1	_	0	1	1	_
S. Atlantic	4	8	14	46	75	6	15	32	115	208	3	4	12	20	27
Delaware District of Columbia	 U	0	1 0	2 U	_ U	U U	0	0	U U	U U	U U	0	0	U U	U U
Florida	4	3	9	25	41	4	5	13	53	56	2	1	4	10	2
Georgia Maryland [†]	_	1 1	3	6 2	11 8		3 1	7 6	28 12	35 27	_ 1	0 1	3 3	1 5	6 6
North Carolina	_	0	7	_	6	_	0	19	2	74		0	10	_	4
South Carolina [†] Virginia [†]	_	1 1	4 3	7 4	5 4	_	1 1	4 12	6 8	1 12	_	0	1 2	3	4
West Virginia	_	0	2	_	_	_	0	19	6	3	_	0	2	1	5
E.S. Central	_	1	3	7	9	2	7	13	50	71	1	2	5	18	19
Alabama [†] Kentucky	_	0	2 2	2	1 1	_ 1	1 2	5 6	12 21	22 12	_ 1	0 1	2 5	1 16	1 10
Mississippi	_	0	1	_	4	_	0	2		4	_	0	0	_	_
Tennessee [†] W.S. Central	4	0 3	2 15	2 19	3 30	1 4	3 9	6 19	17 24	33 77		0	3 6	1 6	8 8
Arkansas†		0	2	_	3	_	1	4	_	7	_	0	1	_	1
Louisiana Oklahoma	_	0	1 3	_ 1	2 1	 3	0 2	4 8	_ 6	11 9	_ 1	0	1 4		1
Texas [†]	4	3	15	18	24	1	6	15	18	50	1	0	4	4	6
Mountain	4	3	8	32	23	_	2	5	8	32	_	1	4	5	12
Arizona Colorado	4	1 1	5 5	23 5	11 6	_	0	3 2	2 1	13 6	_	0	0 3	_	8
Idaho [†]	_	0	1	2	_	_	0	2	1	1	_	0	2	3	_
Montana [†] Nevada [†]	_	0	1 2	_ 1	2	_	0	0 3	4	5	_	0	0 1	_	_
New Mexico [†]	_	0	1	1	1	_	0	1	_	4	_	0	1	_	4
Utah Wyoming [†]	_	0 0	2 1	_	3	_	0	1 2	_	3	_	0	2 0	2	_
Pacific	6	5	16	35	59	9	6	25	48	48	_	1	6	9	11
Alaska California	<u> </u>	0 4	1 15	— 31	1 50	9	0 4	1 17	1 39	 40	_	0	2 4	<u> </u>	_ 7
Hawaii	_	0	2	_	1	9	0	17	_	1	_	0	0	_	_
Oregon Washington	_	0 1	2	2	4	_	1 0	4 8	5 3	5 2	_	0	3	4 1	2 2
wasnington American Samoa	_	0	3 0	_	- -	_	0	8	_	_	_	0	6 0	_	_
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam Puerto Rico	_	0	0 2			_	0	0 5	_ 1	_ 1	_	0	0	_	_
U.S. Virgin Islands	_	0	0	_	_	_	0	0		_	_	0	0	_	_

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TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

		L	egionellosi	is			Ly	me disease	<u> </u>			ī	Malaria		
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	19	56	163	269	303	54	369	2,013	902	1,358	6	22	54	172	165
New England	_	2	18	6	11	4	72	493	34	235	_	1	4	_	9
Connecticut Maine [†]	_	1 0	5 3	3	4	4	0 11	0 76	 26	 17	_	0	3 1	_	_
Massachusetts	_	1	9	_	6		29	328	_	129	_	0	3	_	8
New Hampshire Rhode Island [†]	_	0 0	2 4	1 1	_	_	19 1	93 28	3	69 1	_	0	1 1	_	_
Vermont [†]	_	0	1	1	1	_	5	26 42		19	_	0	1	_	1
Mid. Atlantic	3	16	69	52	78	24	190	1,111	494	620	1	6	13	40	29
New Jersey	_	2	13		10	-	37	378	19	242	_	0	1	_	_
New York (Upstate) New York City	3	5 3	29 20	23 8	24 6	12	52 2	339 25	120	123 13	1	1 4	4 11	13 21	7 17
Pennsylvania	_	6	25	21	38	12	103	644	355	242	_	1	4	6	5
E.N. Central	3	10	38	47	67	_	23	223	50	74	1	3	11	15	24
Illinois	_	1	10	1	7	_	1	11	_	1	_	1	5	5	10
Indiana Michigan	_	1 2	4 13	2 8	9 11	_	1	7 9	4 2	3 1	_	0	4 3	1 3	5 2
Ohio	3	5	17	34	33	_	1	5	3	2	1	0	6	6	7
Wisconsin	_	1	5	2	7	_	20	205	41	67	_	0	1	_	_
W.N. Central	1	2	12	8	4	_	5	196	1	14	_	1	8	12	8
Iowa Kansas	_	0 0	2 1	_ 1	2 2	_	0	14 2	_	5 4	_	0	1 1	1 3	3 1
Minnesota	1	0	11	3	_	_	0	196	_	4	_	0	8	3	1
Missouri Nebraska [†]	_	1 0	5 2	2 2	_	_	0	1 3	_ 1	_	_	0	1 2	2	3
North Dakota	_	0	1	_	_	_	0	0		_	_	0	1	_	_
South Dakota	_	0	1	_	_	_	0	0	_	1	_	0	1	_	_
S. Atlantic	5	11	22	63	67	22	65	246	280	386	2	6	16	49	63
Delaware District of Columbia	_	0 0	5 2	3	_ 1	6	13 0	65 5	75 —	75 2	_	0	1 2	1 1	1 4
Florida	2	4	10	27	26	2	2	11	13	6	1	2	7	25	15
Georgia	2	1	4	8	14	_	1	5	1	12	_	1	5	2	10
Maryland [†] North Carolina	1	3 0	12 5	13	10 12	7 4	27 0	131 14	131 4	235 7	1	1 0	13 3	10	20 8
South Carolina [†]	_	0	2	1	1	_	0	3	2	3	_	0	1	_	1
Virginia [†] West Virginia	_	1 0	6 2	10 1	3	3	11 0	65 33	46 8	37 9	_	1 0	5 2	10	4
E.S. Central		2	12	12	16		1	4	6	3		0	3	3	6
Alabama [†]	_	0	2	1	2	_	0	1	_	_	_	0	3	1	1
Kentucky	_	1	3	5	6	_	0	1	1	_	_	0	3	2	_
Mississippi Tennessee [†]	_	0 1	2 9	<u> </u>	 8	_	0 1	0 4	<u> </u>	3	_	0	1 2	_	
W.S. Central	_	2	7	9	8	_	4	24	1	3	_	1	19	30	5
Arkansas [†]	_	0	1	_	_	_	0	0	_	_	_	0	1	1	_
Louisiana	_	0	2	_	1	_	0	0	_	_	_	0	1	_	1
Oklahoma Texas [†]	_	2	2 6	9	7	_	4	24	1	3	_	1	1 19	1 28	4
Mountain	1	2	8	17	20	_	1	4	3	2	_	0	6	5	3
Arizona	1	1	5	10	6	_	0	1	_	_	_	0	2	1	_
Colorado Idaho [†]	_	0 0	4 2	2	2 1	_	0	1 3	1 1	_ 1	_	0	3 1	_	1
Montana [†]	_	0	1	1	3	_	0	1			_	0	3	_	_
Nevada [†]	_	0	1	2	3	_	0	1	_	_	_	0	1	1	_
New Mexico [†] Utah	_	0	2 4	1 1	 5	_	0	1 1	_ 1	_ 1	_	0	0 1	3	_
Wyoming [†]	_	0	2		_	_	0	1	_	_	_	0	Ö	_	_
Pacific	6	3	19	55	32	4	3	10	33	21	2	2	17	18	18
Alaska California	_	0	1		1	_	0	1	1	2	_	0	1		
California Hawaii	5 —	3 0	19 0	54 —	25 1	4 N	2	9 0	24 N	16 N	1	2	12 1	14	13
Oregon	_	0	2	_	3		1	4	8	3	_	0	2	_	2
Washington	1	0	4	1	2		0	3	_	_	1	0	4	4	3
American Samoa C.N.M.I.	N	0	0	N	N	N	0	0	N	N	_	0	0	_	_
C.N.M.I. Guam	_			_	_	_		0	_	_	_		0	_	_
Puerto Rico	_	0	1	_	_	N	0	0	N	N	_	0	1	1	1
U.S. Virgin Islands	_	0	0	_	_	N	0	0	N	N	_	0	0	_	_

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TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

	I	Meningoco	ccal diseas All groups		Ť			Pertussis				Rabi	es, animal		
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	10	16	32	119	185	55	266	1,341	1,018	2,082	34	62	139	291	583
New England Connecticut	_	0	3 2	_	11 1	_	10 1	24 4	8	114 5	2 1	6 2	24 22	34 15	41 16
Maine [§]	_	0	1	_	1	_	0	10	1	21	1	1	4	9	6
Massachusetts New Hampshire	_	0	2 1	_	7 1	_	6 1	16 7	_ 2	70 10	_	0	0 3	_ 2	_ 4
Rhode Island [§]	_	0	1	_	1	_	0	8	3	3	_	0	5	_	5
Vermont [§]	_	0	1	_	_	_	0	1	2	5	_	1	5	8	10
Mid. Atlantic New Jersey	_	2	6 2	11	16 1	8	20 2	43 8	80	184 48	9	10 0	23 0	68	87
New York (Upstate)	_	0	3	2		7	5	29	36	22	9	8	22	58	39
New York City	_	0	2	4	4	_	0	11	_	12	_	0	7	10	_
Pennsylvania		1 2	3 9	5 21	11 45	1 25	9 53	29 100	44 351	102 532		0 2	16 19	 5	48 7
E.N. Central Illinois	_	0	4	3	10	_	11	29	24	134	_	1	9	1	1
Indiana	_	0	3	5	8	_	6	15	16	73	_	0	7	_	1
Michigan Ohio		0 1	5 3	2 8	5 13	5 20	15 19	41 49	112 194	111 191	_	1 0	6 5	2	5
Wisconsin	_	0	1	3	9	_	2	12	5	23	N	0	0	N	N
W.N. Central	1	1	6	8	15	_	31	503	101	371	2	7	18	25	35
Iowa Kansas	_	0	2 2	1 1	1 3	_	3 5	10 12	19 20	38 33	_	0 1	3 6	_ 9	3 14
Minnesota	1	0	2	1	4	_	0	498	_	_	_	0	11	8	5
Missouri	_	0	3	4	7	_	14	47	48	249	_	1	5	1	1
Nebraska [§] North Dakota	_	0	1 1	1	_	_	2	9 12	11	44 1	2	1 0	6 7	7	7 2
South Dakota	_	0	1	_	_	_	0	6	3	6	_	0	4	_	3
S. Atlantic	1	3	10	29	27	9	29	66	132	281	14	22	103	133	342
Delaware District of Columbia	_	0	1 0	1	_	_	0	2 1	_	4 3	_	0	0 0	_	_
Florida	1	1	4	14	13	4	7	29	36	60	3	0	5	24	156
Georgia Maryland [§]	_	0	2 1	3 1	4 1	 3	4	22 8	28 26	36 16	 10	0 7	72 15	— 48	61 47
North Carolina	_	0	10	_	5	_	0	21	_	112	N	0	4	N	N
South Carolina [§] Virginia [§]	_	0	1 2	2 7	2 2	1 1	4	18 15	28 13	23 24	_	0 10	0 26	 50	— 73
West Virginia	_	0	2	1	_		0	5	1	3	1	3	6	11	5
E.S. Central	_	0	4	5	2	2	14	30	100	130	_	1	6	_	28
Alabama [§]	_	0	2 1	1 2	_	2	5 3	19 15	28 35	22 66	_	0	0 2	_	_ 12
Kentucky Mississippi	_	0	1	1	_	_	1	6	3	15	_	0	1	_	_
Tennessee [§]	_	0	2	1	2	_	4	9	34	27	_	0	4	_	16
W.S. Central	1	1	8	9	19	1	66	624	90	170	5	0	13	5	4
Arkansas [§] Louisiana	_	0	2 1	2	3 8	_	6 0	23 8	2	17 18	3	0	10 0	3	2
Oklahoma	1	0	2	4	1	1	0	32	1	6	2	0	13	2	2
Texas [§]	_ 1	1	7 4	3 7	7 15	_ 1	55 16	614 39	87 102	129 196		0 1	1 6	4	— 17
Mountain Arizona		0	2	3	3		5	15	24	21	N	0	0	N	N
Colorado	_	0	3	1	5	_	4	10	17	48	_	0	0	_	_
Idaho [§] Montana [§]	1	0	1 2	1	3 1	1	1 1	19 6	37 4	17 5	_	0	0 4	_	5
Nevada [§]	_	0	1	1	1	_	0	3	_	2	_	0	1	_	_
New Mexico [§] Utah	_	0	1 1	1	1 1	_	1 2	5 11	14 5	24 77	_	0	2 2	1	6
Wyoming [§]	_	0	2	_		_	0	5	1	2	_	0	4	3	6
Pacific	4	3	13	29	35	9	23	42	54	104	2	4	13	17	22
Alaska California		0 2	2 10	 19	2 17		1 11	4 23	5 4	16 29		0 4	2 11	6 10	8 14
Hawaii	_	0	1	_	1		0	3	_	6	_	0	0	_	- 14
Oregon Washington	_	1 0	6	7	10		4	13	30 15	42	_	0	3	1	_
Washington	2	0	6 0	3	5	8	5 0	33 0	15 —	11 —	 N	0	0	 N	N
American Samoa C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Puerto Rico U.S. Virgin Islands	_	0	0 0	_	_		0	1 0		_	3 N	1 0	3 0	12 N	9 N
C.N.M.I.: Commonwealth							0				IN			111	

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.

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

[†] Data for meningococcal disease, invasive caused by serogroups A, C, Y, and W-135; serogroup B; other serogroup; and unknown serogroup are available in Table I. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

		Si	almonello	sis		Shig	ıa toxin-pı	oducing <i>E</i> .	. coli (STEC)	†		Sh	igellosis		
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	307	893	1,374	3,572	5,639	15	82	154	225	497	85	273	496	1,530	2,589
New England	_	30 0	90	81	620 429	_	3 0	30 3	5 3	80 67	_	4 0	27 9	13 9	71
Connecticut Maine [§]	_	2	46 7	46 7	15	_	0	3	_	— —	_	0	2	1	43 2
Massachusetts	_	20	47	_	127	_	2	7	_	7	_	3	27	_	22
New Hampshire Rhode Island [§]	_	3 2	44 11	14 12	24 16	_	1 0	3 26	2	6	_	0	4 7	2 1	1
Vermont [§]	_	1	5	2	9	_	Ö	3	_	_	_	Ö	1		_
Mid. Atlantic New Jersey	38	90 13	206 46	415 23	593 98	_	6 0	21 4	23	40 9	17 —	47 6	87 27	262 13	508 168
New York (Upstate)	24	23	77	118	137	_	3	11	10	14	6	4	19	29	20
New York City		22	46	119	153	_	1	5	4 9	7		7 25	15	40	93
Pennsylvania	14 13	29 92	65 153	155 339	205 793	_	2 13	8 36	28	10 101	11 2	25 39	63 78	180 115	227 625
E.N. Central Illinois	_	24	52	74	207	_	3	6	5	44	_	9	34	26	125
Indiana	_	. 7	20	8	54	_	1	8	_	8	_	1	5	1	16
Michigan Ohio	1 12	17 24	34 52	84 139	148 223	_	3 2	8 11	12 5	11 13		4 13	11 46	24 52	58 339
Wisconsin	_	11	30	34	161	_	4	21	6	25	_	5	26	12	87
W.N. Central	17	47	86	236	398	2	12	39	39	44	1	29	86	412	90
lowa Kansas	5	6 6	16 22	28 33	58 50	_	2	14 5	3 4	10 2	_	0	5 13	7 20	27 31
Minnesota	10	11	30	55 66	81		1 2	19	13	13	1	3 1	7	8	11
Missouri	_	12	30	76	61	_	2	10	15	12	_	20	72	375	13
Nebraska [§] North Dakota	2	5 0	41 21	24 2	83 5	_	1 0	6 3	4	7	_	0	3 2	2	7
South Dakota	_	1	15	7	60	_	0	12	_	_	_	0	1	_	1
S. Atlantic	142	278	453	1,328	1,401	8	12	22	52	84	24	41	79	252	403
Delaware District of Columbia	1	2	9 2	7 4	5 10	_	0	2	_	2 1	_	3 0	10 2	20 1	4
Florida	62	133	278	643	568	4	3	7	19	30	14	9	18	95	88
Georgia	8	45	98	231	235	_	1	4	8	7	_	12	29	85	99
Maryland [§] North Carolina	13 49	15 14	32 89	89 169	112 237	_ 1	2 0	5 11	8 1	11 22	6 1	5 3	17 27	15 7	75 57
South Carolina [§]	2	16	67	69	102	_	0	3	1	3	_	2	6	14	36
Virginia [§] West Virginia	6 1	20 4	65 23	100 16	110 22	3	3 0	7 5	15 —	7 1	3	3 0	14 2	15 —	36 5
E.S. Central	5	52	113	184	337	1	4	10	11	23	2	12	46	55	147
Alabama§	_	14	39	46	109	_	1	4	5	4	_	2	9	5	42
Kentucky Mississippi	1	7 14	18 45	43 28	66 74	_	1 0	4 1		8 2	2	3 1	25 4	31 2	18 5
Tennessee [§]	4	14	33	26 67	88	1	1	8	4	9	_	5	16	17	82
W.S. Central	9	100	369	149	388	_	5	23	9	21	17	47	150	205	378
Arkansas [§]	4	10	25	24	64	_	1	4	4	5	1	5	14	9	36
Louisiana Oklahoma	 5	4 11	43 30	36	65 41	_	0	0 6	_ 1	4	3	0 6	7 19	 35	45 27
Texas§	_	57	350	89	218	_	4	23	4	12	13	31	124	161	270
Mountain	21	51	118	308	388	3	7	28	26	62	7	18	43	85	191
Arizona Colorado	7 12	20 10	57 33	109 90	150 79	1	1 2	5 11	5 3	1 44	6 1	14 2	37 6	48 19	129 22
Idaho [§]	1	3	10	22	25	1	1	7	7	4		0	1	2	_
Montana [§] Nevada [§]	_	2	7	19	18	1	0 0	7	2	_ 1	_	0	4 7	2 1	 17
New Mexico§	_	5	11 28	13 28	25 30	_	1	3	1 5	8	_	1 1	8	10	17 21
Utah	_	6	14	17	54	_	1	11	3	3	_	0	4	3	2
Wyoming ⁶	1 62	1 123	9 344	10 532	7 721		0 9	2 73	32	1 42	— 15	0 22	1 61	121	— 176
Pacific Alaska		123	344 7	532 11	721 9	1	0	/3 0	32 —	42 —	—	0	2	131	1/6
California	41	93	200	428	566	1	4	23	23	35	13	18	40	119	148
Hawaii Oregon	_	5 8	61 19	— 44	45 63	_	0 1	2 11	4	1 1	_	0 1	4 4	_ 6	6 9
Washington	21	11	132	49	38	_	2	48	5	5	2	2	19	6	12
American Samoa	_	0	1	1	_	_	0	0	_	_	_	0	2	_	3
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam Puerto Rico	_	0 5	0 19	32	98	_	0 0	0	_	_	_	0	0 2	_	1
		0	0	_	_		0	0	_		_	0	0		

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
* Incidence data for reporting years 2009 and 2010 are provisional.
† Includes E. coli O157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped.
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

				Spot	ted Fever Ricketts	iosis (including RMS	SF) [†]			
			Confirmed				Р	robable		
	Current	Previous 52	2 weeks	Cum	Cum	Current	Previous 52	2 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	4	2	9	10	5	6	17	73	34	122
New England	_	0	1	_	_	_	0	2	_	1
Connecticut	_	0	0	_	_	_	0	0	_	
Maine [§] Massachusetts	_	0	0 1	_	_	_	0	2 1	_	1
New Hampshire	_	0	0	_	_	_	0	1	_	_
Rhode Island [§]	_	0	0	_	_	_	0	0	_	_
Vermont [§]	_	0	1	_	_	_	0	0	_	_
Mid. Atlantic	1	0	3	1	_	_	1	6	_	4
New Jersey New York (Upstate)	_	0	0 1	_	_	_	0	0 3	_	_
New York City	_	0	1	_	_	_	0	4	_	3
Pennsylvania	1	0	2	1	_	_	0	2	_	1
E.N. Central	_	0	2	_	1	_	1	7	_	3
Illinois	_	0	0	_	_	_	0	6	_	1
Indiana	_	0	2	_	_	_	0	2	_	_
Michigan Ohio	_	0	1 0	_	1	_	0	1 4	_	2
Wisconsin	_	0	0	_	_	_	0	1	_	_
W.N. Central	_	0	3	_	_	_	3	27	2	1
lowa	_	0	1	_	_	_	0	1	_	
Kansas	_	0	1	_	_	_	0	0	_	_
Minnesota	_	0	1	_	_	_	0	1	_	_
Missouri Nebraska [§]	_	0	1 2	_	_	_	3 0	26 1	2	1
North Dakota	_	0	0	_	_	_	0	0	_	_
South Dakota	_	0	0	_	_	_	0	0	_	_
S. Atlantic	_	1	9	4	3	_	5	25	18	101
Delaware	_	0	0	_	_	_	0	3	_	1
District of Columbia Florida	_	0	0	_	_	_	0	0	_	_
Georgia		0	1 7	4	3	_	0	2 0	_	1
Maryland [§]	_	0	1		_	_	0	3	_	7
North Carolina	_	0	1	_	_	_	2	24	15	81
South Carolina [§]	_	0	1	_	_	_	0	4	2	4
Virginia [§] West Virginia	_	0	1 0	_	_	_	0	5 1	1	6 1
•		0	2							
E.S. Central Alabama [§]	1	0	1	1	1	_	4 1	15 7	_	8 4
Kentucky	1	Ö	1	1	_	_	0	0	_	
Mississippi	_	0	0	_	1	_	0	1	_	_
Tennessee [§]	_	0	2	_	_	_	2	14	_	4
W.S. Central	_	0	3	1	_	_	1	25	2	2
Arkansas [§] Louisiana	_	0	0 0	_	_	_	0	14 1	_	1
Oklahoma	_	0	3	_	_	_	0	24	_	_
Texas§	_	0	1	1	_	_	0	8	2	1
Mountain	2	0	2	3	_	6	0	4	12	2
Arizona	2	0	1	3	_	6	0	4	12	_
Colorado	_	0	1	_	_	_	0	0	_	_
Idaho [§] Montana [§]	_	0	0 1	_	_	_	0	1 2	_	_
Nevada [§]	_	0	0	_	_	_	0	0	_	_
New Mexico§	_	0	0	_	_	_	0	0	_	1
Utah	_	0	0	_	_	_	0	0	_	1
Wyoming [§]	_	0	1	_	_	_	0	1	_	_
Pacific	_	0	1	_	_	_	0	0	_	_
Alaska California	_	0	0 1	_	_	_	0	0 0	_	_
Hawaii	_	0	0	_	_	_	0	0	_	_
Oregon	_	0	0	_	_	_	0	0	_	_
Washington	_	0	0	_	_	_	0	0	_	_
American Samoa	_	0	0	_	_	_	0	0	_	_
C.N.M.I.	_	_	_	_	_	_	_	_	_	_
Guam Puerto Rico	_	0	0 0	_	_	_	0	0 0	_	_
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_
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^{*} Incidence data for reporting years 2009 and 2010 are provisional.

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

			·	Streptocoo	cus pneumo	<i>niae,</i> † invasi	ve disease								
			All ages					Age <5			Sy	philis, prim	ary and se	condary	
Reporting area	Current week		52 weeks	Cum	Cum	Current		52 weeks	Cum	Cum	Current -		52 weeks	Cum	Cum
United States	233	Med 55	Max 346	2010	2009 757	week 33	Med 43	Max 108	2010 364	2009 519	week 72	Med 264	Max 325	2010 1,442	2009
New England	3	1	50	72	16		1	23	6	11	4	6	21	60	53
Connecticut	_	0	50	_	_	_	0	22	_	_	_	1	9	11	7
Maine [§] Massachusetts	_	0	4 1	16 —	3	_	0	2 5	3	 8	_	0 4	2 12	5 33	1 38
New Hampshire	2	0	6	31	5	_	0	2	3	2		0	1 5	2 7	7
Rhode Island [§] Vermont [§]	_ 1	0	3 6	6 19	4 4	_	0	1 1	_	_ 1	_	0 0	2	2	
Mid. Atlantic	12	4	25	135	30	4	5	33	51	46	11	33	50	246	326
New Jersey New York (Upstate)		0 2	4 18	14 38	— 15		0 2	4 18	9 27	10 27	5 3	3 2	13 10	29 13	39 13
New York City	_	0	1	_	1	_	0	14	_	6	_	20	39	152	223
Pennsylvania	9	2	19	83	14	2	0	5	15	3	3	7	14	52	51
E.N. Central Illinois	12	13 0	64 0	369	151 —	1	8 1	15 4	55 —	97 14	_	24 11	48 33	83 5	228 121
Indiana	1	4	14	72	53	_	1	4	9	15	_	2	9	7	30
Michigan Ohio	5 6	0 8	26 18	118 88	7 91	1	1 2	5 7	18 19	15 38	_	4 7	13 13	38 33	36 29
Wisconsin	_	0	20	91	_	_	1	3	9	15	_	0	3	_	12
W.N. Central	38	3	39	166	31	4	3	13	31	33	_	5	12	22	60
Iowa Kansas	_	0 1	0 5	10	 17	_	0	0 2	_	 5	_	0 0	2	_	6 3
Minnesota	35	0	25	85	_	3	0	10	15	10	_	1	3	5	16
Missouri Nebraska [§]		1 0	8 7	28 39	13	_ 1	0	5 2	10 3	13 1	_	3 0	8 2	16 1	33 1
North Dakota	_	0	3	_	1	_	0	3	_	_	_	0	1	_	1
South Dakota	— 80	0 26	2 105	4 732	389	 8	0 10	2 21	1 96	4 152	— 37	0 64	1 152	— 367	 501
S. Atlantic Delaware	1	0	2	4	4	_	0	2	_	-	1	0	3	1	6
District of Columbia Florida	2 51	0 14	2 66	8 366	 233		0	1 11	3 42	 55		3 19	8 32	15 113	34 208
Georgia	9	8	17	111	129	1	3	9	27	49	_	14	103	24	62
Maryland [§] North Carolina	11	0	18 0	97 —	2	_	1 0	7 0	8	18	6 18	6 9	12 31	34 103	47 86
South Carolina [§]	1	0	24	120	_	_	1	4	13	16	_	2	6	26	15
Virginia [§] West Virginia	 5	0 1	0 19	 26	 21	_	0	4 3		11 3	10	6 0	15 2	51 —	42 1
E.S. Central	22	4	48	233	80	3	2	9	22	34	13	20	37	117	212
Alabama [§]	_	0	0	_	_	_	0	0	_	_	_	7	18	23	80
Kentucky Mississippi	_	1 0	5 4	13 7	21 2	_	0	2 2	1 2	4 5	2 7	1 4	13 12	16 20	12 31
Tennessee [§]	22	2	42	213	57	3	2	7	19	25	4	7	14	58	89
W.S. Central	34	1	47	263	27	7	6	35	48	61	4	48	74	275	474
Arkansas ^s Louisiana	8	1 0	5 5	30	12 15	2	0	4	8	8 11	4	6 12	16 27	45 64	13 170
Oklahoma Texas [§]	3 23	0	5 42	16 217	_	3 2	1 4	5 31	16 24	10	_	1 31	6 46	6 160	16 275
Mountain	23 29	2	66	410	31	5	5	13	48	32 75	_	31 7	18	41	92
Arizona	14	0	39	226	_	2	2	6	24	35	_	3	9	12	38
Colorado Idaho [§]	13	0 0	20 1	122 3	_	1	1 0	4 2	13 1	15 2	_	1 0	5 1	17	19 1
Montana [§]	_	0	1	3	_	_	0	0	_	_	_	0	1	_	_
Nevada [§] New Mexico [§]		1 0	4 7	11 33	8		0	2 4	2 6	 5	_	1 1	10 4	10 2	19 11
Utah	_	1	4	9	19	_	1	6	2	18	_	Ö	2	_	4
Wyoming [§]		0	2 9	3 44	4 2	_ 1	0	1 2	_ 7	 10	3	0 43	1 63	231	 510
Pacific Alaska	_	0	6	22	_	_	0	2	5	7	_	43	0	231	518 —
California	3	0	9	22	_	1	0	1	2	_	2	39	56	207	470
Hawaii Oregon	_	0	1 0	_	2	_	0	2 0	_	3	_	0 1	2 5	4 6	11 7
Washington	_	0	0	_	_	_	0	0	_	_	1	2	7	14	30
American Samoa	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
C.N.M.I. Guam	_	0	0	_	_	_		0	_	_	_	0	0	_	_
Puerto Rico	_	0	0	_	_	_	0	0	_	_	1	3	17	37	29
U.S. Virgin Islands		0	0				0	0				0	0		

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

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

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 6, 2010, and March 7, 2009 (9th week)*

									١	Vest Nile viru	us disease†				
		Varice	ella (chicker	npox)			Ne	uroinvasive	:			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	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	195	260	638	2,213	4,599	_	1	46	1	_	_	0	48	_	_
New England	3	14	33	84	165	_	0	0	_	_	_	0	0	_	_
Connecticut Maine [¶]	_	8	23 15	18 30	91 —		0	0	_	_	_	0	0		_
Massachusetts	_	0	2	_	_	_	0	0	_	_	_	0	0	_	_
New Hampshire	3	3	10	23	47	_	0	0	_	_	_	0	0	_	_
Rhode Island¶** Vermont¶**	_	0	1 4	1 12	3 24	_	0	0	_	_	_	0	0	_	_
Mid. Atlantic	11	25	55	177	387		0	2		_	_	0	1	_	_
New Jersey	N	0	0	N	367 N	_	0	1	_	_	_	0	0	_	_
New York (Upstate)	N	0	0	N	N	_	0	1	_	_	_	0	1	_	_
New York City Pennsylvania	 11	0 25	0 55	177	387	_	0	1 0	_	_	_	0	0 0	_	_
E.N. Central	81	103	206	939	1,752	_	0	4				0	3	_	
Illinois	4	25	64	165	452	_	0	3	_	_	_	0	0	_	_
Indiana	11	7	30	125	92	_	0	1	_	_	_	0	1	_	_
Michigan	28	35	84	298	517	_	0	1	_	_	_	0	0	_	_
Ohio Wisconsin	38	29 8	85 57	282 69	552 139	_	0	0 1	_	_	_	0	2 0	_	_
W.N. Central	_	10	43	73	294	_	0	5	_	_	_	0	11	_	_
lowa	N	0	0	Ň	N	_	Ő	Ö	_	_	_	Ö	1	_	_
Kansas**	_	2	19	1	65	_	0	1	_	_	_	0	2	_	_
Minnesota Missouri	_	0 7	0 33	<u> </u>	202	_	0	1 2	_	_	_	0	1 1	_	_
Nebraska [¶] **	N	0	0	N	N	_	0	2	_	_	_	0	6	_	_
North Dakota	_	0	26	8	23	_	0	0	_	_	_	0	1	_	_
South Dakota		0	2	2	4	_	0	3	_	_	_	0	2	_	_
S. Atlantic Delaware	38	23 0	95 2	302 1	504 2	_	0	4 0	_	_	_	0	1 0	_	_
District of Columbia	_	0	3		5	_	0	0	_	_	_	0	0	_	_
Florida	35	14	61	181	283	_	0	1	_	_	_	0	1	_	_
Georgia Maryland [¶]	N N	0	0 0	N N	N N	_	0	1 0	_	_	_	0	0 1	_	_
North Carolina	N	0	0	N	N N	_	0	0	_	_	_	0	0	_	_
South Carolina [¶] **	3	0	12	12	102	_	0	2	_	_	_	0	0	_	_
Virginia [¶] **	_	0	5	38	28	_	0	1	_	_	_	0	0	_	_
West Virginia	_ 1	9 7	32 29	70 21	84	_	0	0	_	_	_	0	0	_	_
E.S. Central Alabama [¶] **	1	7	29 27	31 31	114 114	_	0	6 0	1	_	_	0	4 0	_	_
Kentucky	N	0	0	N	N	_	0	1	_	_	_	0	0	_	_
Mississippi	_	0	2	_	_	_	0	5	1	_	_	0	4	_	_
Tennessee [¶]	N	0	0	N 401	N	_	0	2	_	_	_	0	1	_	_
W.S. Central Arkansas [¶] **	46	66 0	261 23	401 11	921 39	_	0	19 1	_	_	_	0	6 0	_	_
Louisiana	_	0	7		13	_	0	2	_	_	_	0	4	_	_
Oklahoma	N	0	0	N	N	_	0	2	_	_	_	0	2	_	_
Texas¶**	46	65	245	390	869	_	0	16	_	_	_	0	4	_	_
Mountain Arizona	15 —	17 0	62 0	203	424	_	0	12 4	_	_	_	0	17 2	_	_
Colorado	12	7	22	91	154	_	0	7	_	_	_	0	14	_	_
Idaho [¶]	N	0	0	N	N	_	0	3	_	_	_	0	5	_	_
Montana [¶] ** Nevada [¶]	3 N	0	10 0	46 N	64 N	_	0	1 2	_	_	_	0	1 1	_	_
New Mexico¶**	_	0	12	16	64	_	0	2	_	_	_	0	i	_	_
Utah	_	7	32	50	142	_	0	1	_	_	_	0	1	_	_
Wyoming [¶]	_	0	0	_	_	_	0	1	_	_	_	0	2	_	_
Pacific Alaska	_	1 0	5 4	3 3	38 23	_	0	12 0	_	_	_	0	12 0	_	_
California	_	0	0	_	_	_	0	8	_	_	_	0	6	_	_
Hawaii	_	0	4	_	15	_	0	0	_	_	_	0	0	_	_
Oregon	N	0	0	N	N	_	0	1	_	_	_	0	4	_	_
Washington	N N	0	0	N N	N N	_	0	6 0	_	_	_	0	3 0	_	_
American Samoa C.N.M.I.		_	_			_	_	_	_	_	_	_	_	_	_
Guam	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Puerto Rico	_	5	26	40	73	_	0	0	_	_	_	0	0	_	_
U.S. Virgin Islands	_	0	0		_		0	0				0	0		

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

* Incidence data for reporting years 2009 and 2010 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly.

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

§ 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/epo/dphsi/phs/infdis.htm.

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

^{**}Contains data that was reported via HL7 messages.

TABLE III. Deaths in 122 U.S. cities,* week ending March 6, 2010 (9th week)

Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PAS Reading, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY	All Ages 560 140 45 8 27 57 25 8 26 32 59 4 35 61 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	≥65 396 92 37 5 22 44 20 4 17 25 45 3 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	45-64 113 32 5 3 4 4 2 8 4 11 1 8 10 18 491 5 4 6 6 12 236 9 6 110 7	25-44 27 6 1 2 6 1 2 1 3 119 5 3 2 3 1 51 6 6	1-24 13 4 2 3 1 1 1 2 29 1 2 1 2 15	11 6 — — — — — — — — — — — — — — — — — —	P&I [†] Total 62 11 5 2 5 8 6 3 5 3 4 3 7 125 3 2 7 1 6	Reporting area S. Atlantic Atlanta, GA Baltimore, MD Charlotte, NC Jacksonville, FL Miami, FL Norfolk, VA Richmond, VA Savannah, GA St. Petersburg, FL Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	All Ages 1,250 194 181 114 148 118 60 64 59 66 232 U 14 1,090 207 77 146 68 192 196	≥65 834 132 100 83 102 73 40 43 445 163 U 9 729 138 60 93 46 131 136	45-64 300 43 59 21 36 29 16 17 12 11 52 U 4 252 47 14 36 16 47 39	70 10 14 2 9 9 2 2 1 6 14 U 1 70 12 3 10	1-24 19 4 2 3 1 5 - 2 - U - 22 4 2 2 1 2 5	27 5 6 5 — 2 2 — 2 4 1 U — 17 6 — 3 2 2 2
Boston, MA Bridgeport, CT Cambridge, MA Fall River, MA Hartford, CT Lowell, MA Lynn, MA New Bedford, MA New Bedford, MA Springfield, MA Springfield, MA Materbury, CT Worcester, MA Mid. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Reading, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY EN. Central Akron, OH Canton, OH Cliceland, OH Cliceland, OH Cliceland, OH Columbus, OH	140 45 8 27 57 25 8 26 32 59 4 35 33 31 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60 60 60 70 70 70 70 70 70 70 70 70 7	92 37 5 22 44 20 4 17 25 45 3 21 40 1,492 35 21 56 13 12 40 25 744 19 22 26 27 32 33 21 35 36 37 37 38 38 38 38 38 38 38 38 38 38	32 5 3 3 4 4 2 8 4 11 1 8 10 18 491 5 4 15 9 4 6 12 2336 9 6 110	6 1 2 6 1 2 1 2 1 - 2 - 3 119 - - 5 3 2 3 1 5 6 6 6 7 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7	4 2 3 1 1 2 29 1 2 1 2 2 1 2 1 5	6 1 29 1 2	11 5 2 5 8 6 — 3 5 3 — 4 3 7 125 3 2 7 —	Atlanta, GA Baltimore, MD Charlotte, NC Jacksonville, FL Miami, FL Norfolk, VA Richmond, VA Savannah, GA St. Petersburg, FL Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	194 181 114 148 118 60 64 59 66 232 U 14 1,090 207 77 146 68 192 196	132 100 83 102 73 40 43 44 45 163 U 9 729 138 60 93 46 131	43 59 21 36 29 16 17 12 11 52 U 4 252 47 14 36 16 47	10 14 2 9 9 2 2 1 6 14 U 1 70 12 1 12 3 10	4 2 3 1 5 — 2 — 2 U — 22 4 2 2 1 2 2 1 2	5 6 5 — 2 2 4 1 U — 17 6 — 3 2 2
Bridgeport, CT Cambridge, MA Fall River, MA Hartford, CT Lowell, MA Lynn, MA New Bedford, MA New Haven, CT Providence, RI Somerville, MA Springfield, MA Waterbury, CT Worcester, MA Aid. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Patleson, NJ Philadelphia, PA Pittsburgh, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY NN. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	45 8 27 57 25 8 26 32 59 4 35 33 60 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	37 5 22 44 20 4 17 25 45 3 21 21 40 1,492 35 21 56 6 13 12 40 25 744 19 22 265 27 32 53	5 3 3 4 4 4 2 8 4 11 1 8 10 18 4 91 5 4 15 9 4 6 12 236 9 6 110	1 — 2 6 1 2 1 — 2 1 — 2 — 3 119 — 5 3 2 2 3 1 5 5 6	2 3 1 1 2 2 9 1 2 1 2 1 2 2 1 2 1 2 1 1 2 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 		5 2 5 8 6 3 5 3 4 3 7 125 3 2 7 1	Baltimore, MD Charlotte, NC Jacksonville, FL Miami, FL Norfolk, VA Richmond, VA Savannah, GA St. Petersburg, FL Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	181 114 148 118 60 64 59 66 232 U 14 1,090 207 77 146 68 192 196	100 83 102 73 40 43 44 45 163 U 9 729 138 60 93 46 131	59 21 36 29 16 17 12 11 52 U 4 252 47 14 36 16 47	14 2 9 9 2 2 1 6 14 U 1 70 12 1 1 12 3 10	2 3 1 5 — 2 — 2 U — 22 4 2 2 2 1 2	6 5 — 2 2 4 1 U — 17 6 — 3 2 2
Cambridge, MA Fall River, MA Hartford, CT Lowell, MA Lynn, MA New Bedford, MA New Haven, CT Providence, RI Somerville, MA Springfield, MA Waterbury, CT Worcester, MA fidi. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	8 27 57 25 8 26 32 59 4 35 33 61 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	5 22 44 20 4 17 25 45 3 21 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	3 3 4 4 2 8 4 11 1 8 10 18 491 5 4 15 9 4 6 12 236 9 6 110				2 5 8 6 — 3 5 3 — 4 3 7 125 3 2 7 —	Charlotte, NC Jacksonville, FL Miami, FL Norfolk, VA Richmond, VA Savannah, GA St. Petersburg, FL Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	114 148 118 60 64 59 66 232 U 14 1,090 207 77 146 68 192 196	83 102 73 40 43 44 45 163 U 9 729 138 60 93 46 131	21 36 29 16 17 12 11 52 U 4 252 47 14 36 16 47	2 9 9 2 2 1 6 14 U 1 70 12 1 1 12 3 10	3 1 5 — 2 — 2 U — 22 4 2 2 1 2	5
Fall River, MA Hartford, CT Lowell, MA Lynn, MA New Bedford, MA New Haven, CT Providence, RI Somerville, MA Springfield, MA Waterbury, CT Worcester, MA Alid. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Clieveland, OH Cleveland, OH Columbus, OH	27 57 25 8 26 32 59 4 35 33 61 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	22 44 20 4 17 25 45 3 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	3 4 4 2 8 4 11 1 8 10 18 491 5 4 15 9 4 6 12 2336 9 6 110	2 6 1 2 1 2 1 — 2 — 3 119 — 5 3 2 3 1 5 6 6	3 — — 1 1 — 2 — 29 1 — 2 1 2 — 2 1 — 2 — 1 1 — 2 — 2 — 2 — 1 1 — 2 — 1 — 2 — 1 — 2 — 1 — 2 — — — — — — — — — — — — —		5 8 6 — 3 5 3 — 4 3 7 125 3 2 7 —	Jacksonville, FL Miami, FL Norfolk, VA Richmond, VA Savannah, GA St. Petersburg, FL Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	148 118 60 64 59 66 232 U 14 1,090 207 77 146 68 192 196	102 73 40 43 44 45 163 U 9 729 138 60 93 46 131	36 29 16 17 12 11 52 U 4 252 47 14 36 16 47	9 9 2 2 1 6 14 U 1 70 12 1 1 12 3 10	1 5 — 2 — 2 U — 22 4 2 2 1 2	2 2 4 1 U — 17 6 — 3 2 2
Hartford, CT Lowell, MA Lynn, MA New Bedford, MA New Haven, CT Providence, RI Somerville, MA Springfield, MA Waterbury, CT Worcester, MA Alid. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Rochester, NY Schenectady, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY NN. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	57 25 8 26 32 59 4 35 33 61 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	44 20 4 17 25 45 3 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	4 4 4 2 8 4 11 1 8 10 18 491 5 4 15 9 4 6 12 2336 9 6 110	6 1 2 1 2 1 — 2 — 3 119 — 5 3 2 3 1 5 6	3 — — 1 1 — 2 — 29 1 — 2 1 2 — 2 1 — 2 — 1 1 — 2 — 2 — 2 — 1 1 — 2 — 1 — 2 — 1 — 2 — 1 — 2 — — — — — — — — — — — — —		8 6 — 3 5 3 — 4 3 7 125 3 2 7 — 1	Miami, FL Norfolk, VA Richmond, VA Savannah, GA St. Petersburg, FL Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	118 60 64 59 66 232 U 14 1,090 207 77 146 68 192 196	73 40 43 44 45 163 U 9 729 138 60 93 46 131	29 16 17 12 11 52 U 4 252 47 14 36 16 47	9 2 2 1 6 14 U 1 70 12 1 12 3 10	5 2 2 U 22 4 2 2 1 2	2 2 4 1 U — 17 6 — 3 2 2
Lowell, MA Lynn, MA New Bedford, MA New Bedford, MA New Haven, CT Providence, RI Somerville, MA Springfield, MA Waterbury, CT Worcester, MA did. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Reading, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	25 8 26 32 59 4 35 33 60 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	20 4 17 25 45 3 21 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	4 2 8 4 11 1 8 10 18 491 5 4 15 9 4 6 12 236 9 6 110	1 2 1 2 1 — 2 — 3 119 — 5 3 2 2 3 1 5 5 6			6 3 5 3 4 3 7 125 3 2 7 1	Norfolk, VA Richmond, VA Savannah, GA St. Petersburg, FL Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	60 64 59 66 232 U 14 1,090 207 77 146 68 192	40 43 44 45 163 U 9 729 138 60 93 46 131	16 17 12 11 52 U 4 252 47 14 36 16 47	2 2 1 6 14 U 1 70 12 1 12 3 10		2
Lynn, MA New Bedford, MA New Haven, CT Providence, RI Somerville, MA Springfield, MA Waterbury, CT Worcester, MA did. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	8 26 32 59 4 35 33 60 41 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	4 17 25 45 3 21 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	2 8 4 11 8 10 18 491 5 4 15 9 4 6 12 236 9 6 110	2 1 2 1 - 2 - 3 119 - - 5 3 2 3 1 5 1 5 6	1 1 	142911	3 5 3 4 3 7 125 3 2 7 —	Richmond, VA Savannah, GA St. Petersburg, FL Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	64 59 66 232 U 14 1,090 207 77 146 68 192 196	43 44 45 163 U 9 729 138 60 93 46 131	17 12 11 52 U 4 252 47 14 36 16 47	2 1 6 14 U 1 70 12 1 12 3 10	2 — 2 U — 22 4 2 2 1 2	2 4 1 U — 17 6 — 3 2 2
New Bedford, MA New Haven, CT Providence, RI Somerville, MA Springfield, MA Waterbury, CT Worcester, MA did. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	26 32 59 4 35 33 61 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	17 25 45 3 21 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	8 4 11 1 8 10 18 491 5 4 15 9 4 6 12 236 9 6 110	1 2 1 — 2 — 3 1119 — 5 3 2 3 1 1 5 1 5 6	1 1 	1 4 29 1 2	3 5 3 4 3 7 125 3 2 7 —	Savannah, GA St. Petersburg, FL Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	59 66 232 U 14 1,090 207 77 146 68 192 196	44 45 163 U 9 729 138 60 93 46 131	12 11 52 U 4 252 47 14 36 16 47	1 6 14 U 1 70 12 1 12 3 10		2 4 1 U — 17 6 — 3 2 2
New Haven, CT Providence, RI Somerville, MA Springfield, MA Waterbury, CT Worcester, MA idi. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Reading, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Clicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	32 59 4 35 33 61 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	25 45 3 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	4 11 1 8 10 18 491 5 4 15 9 4 6 12 236 9 6	2 1 — 2 — 3 119 — 5 3 2 3 1 51 51 5	1 — 2 — 29 1 — 2 1 2 — — — 1 2	1 -4 29 1 2	5 3 4 3 7 125 3 2 7 1	St. Petersburg, FL Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	66 232 U 14 1,090 207 77 146 68 192 196	45 163 U 9 729 138 60 93 46 131	11 52 U 4 252 47 14 36 16 47	6 14 U 1 70 12 1 12 3 10		4 1 U — 17 6 — 3 2 2
Providence, RI Somerville, MA Springfield, MA Waterbury, CT Worcester, MA lid. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PAS Reading, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Clicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	59 4 35 33 61 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	45 3 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	11 1 1 8 10 18 491 5 4 15 9 4 6 12 236 9 6	1 — 2 — 3 119 — 5 3 2 3 1 1 51 5 6	1 — 2 — 29 1 — 2 1 2 — — — 1 2	1 4 — 29 — 1 2 —	3 4 3 7 125 3 2 7 1	Tampa, FL Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	232 U 14 1,090 207 77 146 68 192 196	163 U 9 729 138 60 93 46 131	52 U 4 252 47 14 36 16 47	14 U 1 70 12 1 12 3	U 	1 U — 17 6 — 3 2 2
Somerville, MA Springfield, MA Waterbury, CT Worcester, MA lid. Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N, Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	4 35 33 36 1 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	3 21 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	1 8 10 18 491 5 4 15 9 4 6 12 236 9 6 110			4 — 29 — 1 2		Washington, D.C. Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	U 14 1,090 207 77 146 68 192 196	U 9 729 138 60 93 46 131	U 4 252 47 14 36 16 47	U 1 70 12 1 12 3 10	U 	U
Springfield, MA Waterbury, CT Worcester, MA Idia, Atlantic Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Clicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	35 33 60 41 2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	21 21 40 1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	8 10 18 491 5 4 15 9 4 6 12 236 9 6	2 — 3 119 — 5 3 2 3 1 51 5 6	2 — 29 1 — 2 1 2 — — —	4 — 29 — 1 2	4 3 7 125 3 2 7 —	Wilmington, DE E.S. Central Birmingham, AL Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	14 1,090 207 77 146 68 192	9 729 138 60 93 46 131	4 252 47 14 36 16 47	1 70 12 1 12 3 10	22 4 2 2 1 2	17 6 — 3 2 2
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lid. Atlantic Albany, NY Allentown, PA Bluffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Reading, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	2,160 41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	1,492 35 21 56 13 12 40 25 744 19 22 265 27 32 53	491 5 4 15 9 4 6 12 236 9 6 110	119 — 5 3 2 3 1 51 5 6	29 1 — 2 1 2 — — 15	29 — 1 2 —	125 3 2 7 — 1	Chattanooga, TN Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	77 146 68 192 196	60 93 46 131	14 36 16 47	1 12 3 10	2 2 1 2	3 2 2
Albany, NY Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Reading, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	41 25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	35 21 56 13 12 40 25 744 19 22 265 27 32 53	5 4 15 9 4 6 12 236 9 6 110	5 3 2 3 1 51 5	1 2 1 2 15	_ 1 2 _	3 2 7 — 1	Knoxville, TN Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	146 68 192 196	93 46 131	36 16 47	12 3 10	2 1 2	3 2 2
Allentown, PA Buffalo, NY Camden, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Clicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	25 79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	21 56 13 12 40 25 744 19 22 265 27 32 53	4 15 9 4 6 12 236 9 6 110	5 3 2 3 1 51 5		1 2 —	2 7 — 1	Lexington, KY Memphis, TN Mobile, AL Montgomery, AL	68 192 196	46 131	16 47	3 10	1 2	2
Buffalo, NY Camden, NJ Elizabeth, NJ Elizabeth, NJ Erie, PA Jersey City, NJ New York City, NY Newark, NJ Paterson, NJ Philadelphia, PA Pittsburgh, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Clicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	79 28 20 49 38 1,062 36 35 412 39 40 77 23 33 60	56 13 12 40 25 744 19 22 265 27 32 53	15 9 4 6 12 236 9 6 110	5 3 2 3 1 51 5 6	1 2 — — 15	1 2 —	7 — 1	Memphis, TN Mobile, AL Montgomery, AL	192 196	131	47	10	2	2
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Philadelphia, PA Pittsburgh, PA Reading, PA Reading, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Cincinnati, OH Cleveland, OH Columbus, OH	412 39 40 77 23 33 60	265 27 32 53	110		_	3	3	Baton Rouge, LA	60	41	16	2	1	_
Pittsburgh, PA ^S Reading, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Cincinnati, OH Cleveland, OH Columbus, OH	39 40 77 23 33 60	27 32 53			1	_	4	Corpus Christi, TX	57	37	15	2	3	_
Reading, PA Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Columbus, OH	40 77 23 33 60	32 53	7	29	4	4	21	Dallas, TX	213	130	54	13	4	12
Rochester, NY Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Cinicango, IL Cincinnati, OH Cleveland, OH Columbus, OH	77 23 33 60	53		3	2	_	3	El Paso, TX	75	45	23	7	_	_
Schenectady, NY Scranton, PA Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Columbus, OH	23 33 60		8	_	_	_	2	Fort Worth, TX	U	U	U	U	U	U
Scranton, PÁ Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Columbus, OH	33 60	1.4	17	5	_	2	9	Houston, TX	180	105	54	12	3	6
Syracuse, NY Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	60	14	9	_	_	_	3	Little Rock, AR	60	37	19	2	_	2
Trenton, NJ Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Columbus, OH		24	8	1	_	_	_	New Orleans, LA	U	U	U	U	U	U
Utica, NY Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH		44	14	1	_	1	3	San Antonio, TX	283	189	63	16	7	8
Yonkers, NY N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	26	14	7	4	1	_	_	Shreveport, LA	82	51	24	4	_	3
N. Central Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	20	17	3	_	_	_	1	Tulsa, OK	113	77	25	7	2	2
Akron, OH Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	17	15	2	_	_	_	3	Mountain	1,227	836	267	86	19	19
Canton, OH Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	2,236	1,510	519	117	44	46	149	Albuquerque, NM	120	82	23	10	4	1
Chicago, IL Cincinnati, OH Cleveland, OH Columbus, OH	57	37	12	4	_	4	5	Boise, ID	58	39	14	4	_	1
Cincinnati, OH Cleveland, OH Columbus, OH	32	20	11	1	_	_	4	Colorado Springs, CO	82	57	19	5	_	1
Cleveland, OH Columbus, OH	329	222	74	22	7	4	15	Denver, CO	84	57	12	8	1	6
Columbus, OH	88	57	20	5	4	2	6	Las Vegas, NV	303	207	81	11	3	1
	232	172	46	7	4	3	11	Ogden, UT	43	32	7	4	_	_
Dayton, OH	290	194	64	17	6	9	26	Phoenix, AZ	173	106	37	20	6	4
	120	78	31	7	1	3	12	Pueblo, CO	26	24	1	1	_	_
Detroit, MI	168	99	50	10	5	4	8	Salt Lake City, UT	136	87	31	15	2	1
Evansville, IN	46	32	11	3	_	_	1	Tucson, AZ	202	145	42	8	3	4
Fort Wayne, IN	75	49	17	7	1	1	3	Pacific	1,690	1,218	343	79	27	23
Gary, IN	15	6	5	2	1	1	1	Berkeley, CA	17	10	7	_	_	_
Grand Rapids, MI	67	51	11	1	2	2	12	Fresno, CA	130	97	24	6	1	2
Indianapolis, IN	248	164	62	9	3	10	22	Glendale, CA	40	31	8	1	_	_
Lansing, MI	41	32	6	2	1	_	2	Honolulu, HI	38	31	6	1	_	_
Milwaukee, WI	118	80	30	7	_	1	8	Long Beach, CA	72	51	13	7	1	_
Peoria, IL	46	32	9	2	2	1	5	Los Angeles, CA	236	156	58	14	5	3
Rockford, IL	53	40	7	4	2	_	2	Pasadena, CA	18	17	1	_	_	_
South Bend, IN	52	39	9	2	1	1	3	Portland, OR	114	77	28	4	4	1
Гoledo, ОН	95	59	28	4	4	_	1	Sacramento, CA	200	151	37	10	1	1
oungstown, OH	64	47	16	1		_	2	San Diego, CA	169	116	34	9	2	8
N. Central	597	402	136	36	9	14	39	San Francisco, CA	126	84	33	6	1	2
Des Moines, IA	49	32	7	8	_	2	4	San Jose, CA	198	148	40	4	2	4
Duluth, MN	32	26	5	1	_	_	1	Santa Cruz, CA	28	23	5	_	_	_
Kansas City, KS	19	10	6	2	_	1	1	Seattle, WA	117	84	19	7	5	2
Kansas City, NO Kansas City, MO	122	77	31	7	2	5	7	Spokane, WA	67	54	10	2	1	_
Lincoln, NE	54	36	15	2	_	1	5	Tacoma, WA	120	88	20	8	4	_
Minneapolis, MN	77	51	19	4	3		5	Total [¶]	12,005	8,176	2,731	673	205	220
Omaha, NE	//	68	22	3	3 1	2	10	10101	12,003	0,170	۱ د برے	0/3	203	220
St. Louis, MO	96	2	1	3 1	_	1	-	l						
St. Paul, MN	96 5		11	1	1		2							
Wichita, KS	96 5 53	40	19	7	2	2	4							

U: Unavailable. —: No reported cases.

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

† Pneumonia and influenza.

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

[¶] Total includes unknown ages.

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☆ U.S. Government Printing Office: 2010-623-026/41233 Region IV ISSN: 0149-2195