



- 881 Cigarette Smoking Among Adults United States, 1998
- 885 Consequences of Delayed Diagnosis of Rocky Mountain Spotted Fever in Children — West Virginia, Michigan, Tennessee, and Oklahoma, May-July 2000
- 888 Updated Recommendations From the Advisory Committee on Immunization Practices in Response to Delays in Supply of Influenza Vaccine for the 2000–01 Season

#### 892 Notice to Readers

# Cigarette Smoking Among Adults — United States, 1998

One of the national health objectives for 2010 is to reduce the prevalence of cigarette smoking among adults to no more than 12% (objective 21.1a) (1). To assess progress toward meeting this objective, CDC analyzed self-reported data from the 1998 National Health Interview Survey (NHIS) Sample Adult Core Questionnaire about cigarette smoking among U.S. adults. This report summarizes the findings of this analysis, which indicate that, in 1998, 24.1% of adults were current smokers.

The 1998 NHIS Core Questionnaire was administered to a nationally representative sample (n=32,440) of the U.S. noninstitutionalized civilian population aged ≥18 years; the overall response rate for the survey was 73.9%. Participants were asked, "Have you smoked at least 100 cigarettes in your entire life?" and "Do you now smoke cigarettes every day, some days, or not at all?" Current smokers were persons who reported both having smoked ≥100 cigarettes during their lifetime and having smoked every day or some days at the time of the interview. Former smokers were those who had smoked ≥100 cigarettes during their lifetime but did not currently smoke. Attempts to quit were determined by asking current smokers, "During the past 12 months, have you stopped smoking for one day or longer because you were trying to stop smoking?" Data were adjusted for nonresponse and weighted to provide national estimates. Confidence intervals (CIs) were calculated using SUDAAN.

In 1998, an estimated 47.2 million adults (24.1%), comprising 24.8 million men (26.4%) and 22.4 million women (22.0%), were current smokers (Table 1). Overall, 19.7% (95% Cl=±0.6) of adults were every-day smokers, and 4.2% (95% Cl=±0.3) were some-day smokers (every-day smokers constituted 82.4% [95% Cl=±1.0] of all smokers). Prevalence of smoking was highest among persons aged 18–24 years (27.9%) and aged 25–44 years (27.5%), and lowest among persons aged  $\geq$ 65 years (10.9%). Prevalence of current smoking was highest among American Indians/Alaska Natives (40.0%), intermediate among non-Hispanic whites (25.0%) and non-Hispanic blacks (24.7%), and lowest among Hispanics (19.1%) and Asians/Pacific Islanders (13.7%). Adults with  $\geq$ 16 years of education had the lowest smoking prevalence (11.3%), achieving the 2010 goal of reducing smoking rates to no more than 12%. Current smoking prevalence was highest among persons with 9–11 years of education (36.8%). Smoking prevalence was higher among persons living below the poverty level\* (32.3%) than among those living at or above the poverty level (23.5%).

<sup>\*1997</sup> poverty thresholds from the Bureau of the Census, Economics and Statistics Administration, U.S. Department of Commerce, were used in these calculations.

Cigarette Smoking — Continued

TABLE 1. Percentage of persons aged ≥18 years who were current smokers\*, by selected characteristics — National Health Interview Survey, United States, 1998

	Men	(n=14,202)	Wome	en (n=18,238)	Total (n=32,440)			
Characteristic	%	(95% CI <sup>†</sup> )	%	(95% CI)	%	(95% CI)		
Race/Ethnicity§								
White, non-Hispanic	26.5	$(\pm 1.0)$	23.6	$(\pm 0.9)$	25.0	$(\pm 0.7)$		
Black, non-Hispanic	29.0	$(\pm 2.5)$	21.3	$(\pm 2.0)$	24.7	(±1.6)		
Hispanic	24.7	(± 2.1)	13.3	(± 1.4)	19.1	(±1.3)		
American Indian/								
Alaska Native¶	41.7	$(\pm 13.8)$	38.1	(±11.9)	40.0	(±9.8)		
Asian/Pacific Islander	17.9	$(\pm 4.6)$	9.9	$(\pm 4.2)$	13.7	$(\pm 3.0)$		
Education**								
≤ 8	27.7	$(\pm 3.0)$	16.7	$(\pm 2.4)$	21.9	$(\pm 2.0)$		
9–11	39.7	$(\pm 3.3)$	34.3	$(\pm 2.8)$	36.8	(±2.2)		
1 2	31.5	(± 1.8)	24.1	(± 1.4)	27.4	(±1.1)		
13–15	26.6	(± 1.8)	22.8	(± 1.5)	24.6	(±1.1)		
≥16	11.5	(± 1.2)	11.2	(± 1.2)	11.3	$(\pm 0.9)$		
Age group (yrs)								
18–24	31.3	$(\pm 2.9)$	24.5	$(\pm 2.6)$	27.9	(±1.9)		
25–44	29.4	(± 1.3)	25.6	(± 1.2)	27.5	$(\pm 0.9)$		
45-64	27.7	$(\pm 1.6)$	22.5	(± 1.3)	25.0	$(\pm 1.0)$		
≥65	10.4	(± 1.3)	11.2	(± 1.2)	10.9	$(\pm 0.8)$		
Poverty level <sup>††</sup>								
At or above	25.7	$(\pm 1.0)$	21.3	$(\pm 0.9)$	23.5	$(\pm 0.7)$		
Below	37.0	$(\pm \ 3.2)$	29.3	(± 2.1)	32.3	(±1.8)		
Unknown	25.3	$(\pm 2.0)$	20.2	(± 1.6)	22.5	(±1.3)		
Total	26.4	(± <b>0.9)</b>	22.0	$(\pm 0.8)$	24.1	(± <b>0.6)</b>		

<sup>\*</sup> Persons who reported having ≥100 cigarettes during their lifetime and who reported now smoking every day or some days. Excludes 285 respondents for whom smoking status was unknown.

In 1998, an estimated 44.8 million adults (22.9% [95% Cl=±0.6]) were former smokers, comprising 25.7 million men and 19.1 million women. Former smokers constituted 48.7% (95% Cl=±1.0) of persons who had ever smoked ≥100 cigarettes. Among current daily smokers in 1998, an estimated 15.2 million (39.2% [95% Cl=±1.4]) had stopped smoking for at least 1 day during the preceding 12 months because they were trying to stop smoking.

Reported by: Epidemiology Br, Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, CDC.

**Editorial Note:** The findings in this report suggest that the goal of reducing the prevalence of cigarette smoking among adults to  $\leq$ 12% by 2010 will require aggressive public health efforts to implement comprehensive tobacco-control programs nationwide (2). The 1998 NHIS data also demonstrate substantial differences in smoking prevalence across populations.

<sup>&</sup>lt;sup>†</sup> Confidence Interval.

<sup>&</sup>lt;sup>§</sup> Excludes 79 respondents of unknown, multiple, or other racial/ethnic categories.

<sup>¶</sup> Wide variances on estimates reflect the small sample sizes.

<sup>\*\*</sup> Persons aged ≥25 years. Excludes 1021 persons with unknown years of education.

<sup>&</sup>lt;sup>††</sup> 1997 poverty thresholds from the Bureau of the Census, Economics and Statistics Administration, U.S. Department of Commerce, were used in these calculations.

Cigarette Smoking — Continued

In 1998, smoking prevalence among persons aged 18–24 years was as high as the prevalence among persons aged 25–44 years. Historically, smoking prevalence has been highest among persons aged 25–44 years and significantly lower among persons aged 18–24 years. Recent increases among persons aged 18–24 years may reflect the aging of the cohort of high school students among whom current smoking rates were high during the 1990s (3). In addition, the increase may indicate increased initiation of smoking among young adults. The high prevalence of smoking among young adults indicates a need to focus tobacco-use prevention and treatment programs on both adolescents and young adults.

Smoking prevalence reported for racial/ethnic subgroups showed few changes from 1997 (4) to 1998. Prevalence of current smoking among American Indians/Alaska Natives remained the highest. State and regional surveys indicate that the prevalence of smoking cessation among American Indians/Alaska Natives remains relatively low (5). Although many factors contribute to the high prevalence of smoking among American Indians/Alaska Natives, it is important to develop culturally appropriate prevention and control measures that distinguish between the use of manufactured tobacco products and the ceremonial use of tobacco.

National health objectives for 2010 that are focused on eliminating population disparities reinforce the need for greater surveillance and culturally responsive approaches to tobacco use across communities (1). In the United States, population disparities in smoking prevalence have been consistent from 1993 through 1998. For example, in 1993, an 8.3 (95% Cl=±2.5) percentage-point difference in smoking prevalence existed between those at or above the poverty level and those below (23.8% and 32.1%, respectively). In 1998, the difference was 8.8 (95% Cl=±1.9) percentage points (23.5% and 32.3%, respectively). Similarly, differences in prevalence among various educational groups have not been reduced. In 1993, the difference between those with 9-11 years of education and those with ≥16 years was 23.3 (95% CI=±3.0) percentage points (36.8% and 13.5%, respectively). In 1998, the difference was 25.5 (95% Cl=±2.3) percentage points (36.8% and 11.3%, respectively). The relation between tobacco use and increased risk for failing or dropping out of high school demonstrates the necessity of reaching these students (6) through school-based programs (7,8) before they leave school. Differences in prevalence among racial/ethnic subgroups have not been reduced. For example, in 1993, the difference between non-Hispanic whites and American Indians/ Alaska Natives was 13.3 (95% Cl=±8.7) percentage points (25.4% and 38.7%, respectively). In 1998, the difference between non-Hispanic whites and American Indians/Alaska Natives was 15.0 (95% Cl=±9.8) percentage points (25.0% and 40.0%, respectively). The reduction of tobacco-related health disparities requires communities, states, and national organizations to take a multidisciplinary approach to tobacco prevention and control (7,8).

The findings in this report are subject to at least two limitations. Because the questionnaire for the 1997 NHIS was redesigned completely, trend analysis or comparison with data from years before 1997 should be conducted with caution. Second, the sample size of certain subgroups (e.g., American Indians/Alaska Natives) was small, possibly resulting in unstable estimates.

Although comprehensive programs are critical in reducing the burden of tobacco use, short-term decreases in tobacco-related morbidity and mortality can be achieved only by helping current smokers quit. To assist in this process, the U.S. Department of Health and Human Services has released guidelines (9) with specific evidence-based recommendations for tobacco-use treatment. Recommended interventions include individual,

Cigarette Smoking — Continued

group, or telephone counseling that offers practical advice about and support for quitting; support from family and friends also improves success rates. In addition, all smokers trying to quit should be encouraged to use a medication approved by the Food and Drug Administration, either nicotine replacement therapy (gum, inhaler, nasal spray, or patch) or a non-nicotine pharmacologic aid (buproprion). To ensure that smokers interested in quitting receive appropriate treatment, health-care systems must make routine screening of tobacco use the standard of care and monitor (through quality assurance processes) the provision of appropriate interventions to smokers. Improving access to treatment by reducing cost barriers also increases the number of quitters.

A comprehensive approach to tobacco control will require treatment for nicotine dependence and efforts at national, state, and local levels to reduce youth smoking, promote smoke-free environments, support countermarketing efforts, enforce laws and regulations, and eliminate disparities in tobacco use among population subgroups (7,8). Increased attention must be focused on groups that show no decline in smoking prevalence, including persons aged 18–24 years, adults with low education levels, and American Indians/Alaska Natives. Approaches with the widest scope (i.e., economic, regulatory, and comprehensive) are likely to have the greatest long-term population impact (10).

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# Consequences of Delayed Diagnosis of Rocky Mountain Spotted Fever in Children — West Virginia, Michigan, Tennessee, and Oklahoma, May–July 2000

Patients with Rocky Mountain spotted fever (RMSF), a tickborne infection caused by *Rickettsia rickettsii*, respond quickly to tetracycline-class antibiotics (e.g., doxycycline) when therapy is started within the first few days of illness; however, untreated RMSF may result in severe illness and death. Persons aged <10 years have the highest age-specific incidence of RMSF (1,2). This report summarizes the clinical course and outcome of RMSF in four children from four regions of the United States and underscores the need for clinicians throughout the United States to consider RMSF in children with rash and fever, particularly those with a history of tick bite or who present during April–September when approximately 90% of RMSF cases occur (1,2).

#### West Virginia

On May 12, a child aged 15 months presented to a physician with a 2-day history of maculopapular rash and fever. A tick had been removed from the patient's scalp 1 week before onset of symptoms. The patient was thought to have a viral illness. On May 16, the patient returned to the physician with continued fever and irritability; an allergy to a sulfa-containing antimicrobial prescribed on the previous visit was suspected, and treatment was switched to an oral penicillin-class antibiotic. On May 17, the patient was seen twice at a local emergency department (ED) and, by the second visit, exhibited lethargy, seizures, a generalized petechial rash, hyponatremia (131 mmol of sodium/L) (normal range: 135–145 mmol/L), and thrombocytopenia (8 x 109 platelets/L) (normal range: 150– 350 x 10<sup>9</sup>/L). The patient was transported to a tertiary medical center with a differential diagnosis of bacterial sepsis, meningitis, or a rickettsial disease and immediately was started on intravenous doxycycline. Shortly after admission, the patient required intubation for respiratory distress and anticonvulsant therapy for seizures. On May 19, the patient died. Paired serum samples demonstrated a four-fold increase (from 80 to 320) in reciprocal IgM antibody titers reactive with R. rickettsii when tested using an indirect immunofluorescence assay (IFA). When stained by using an immunohistochemical (IHC) technique, tissue samples obtained at autopsy demonstrated spotted fever group rickettsiae.

#### Michigan

On June 1, a child aged 3 years presented to a physician with a 4-day history of rash and a temperature of 101.3 F (38.5 C). On clinical examination, the patient had a fine redpurple rash on the cheeks, trunk, upper extremities, and palms, thrombocytopenia (102 x  $10^9$ /L), and a normal white blood cell (WBC) count (5.8 cells x  $10^9$ /L). The patient's mother reported that she recently had found a tick on the patient's scalp. The patient was diagnosed with a viral exanthem. On June 2, the patient was still febrile but the rash had faded, and the patient was given an oral cephalosporin-class antibiotic. On June 5, the patient developed vomiting, decreased appetite, persistent crying, and disorientation. The patient's mother reported that she had removed a second tick that day. Clinical examination revealed generalized petechiae, hepatosplenomegaly, dry mucous membranes, and pallor. Laboratory findings included thrombocytopenia (38 x  $10^9$ /L), an elevated WBC count (19 x  $10^9$ /L), hyponatremia (124 mmol/L), elevated aspartate aminotransferase (AST 7.20  $\mu$ kat/L) (normal range: 0.17–0.67  $\mu$ kat/L), and alanine aminotransferase (ALT 1.63  $\mu$ kat/L) (normal range: 0.17–0.92  $\mu$ kat/L). The patient was admitted to a hospital, and within several hours the patient became cyanotic, developed seizures, and

Rocky Mountain Spotted Fever — Continued

died. Using an IHC stain, tissue samples obtained at autopsy revealed spotted fever group rickettsiae. Using a polymerase chain reaction assay, a whole blood sample was positive for DNA of *R. rickettsii*.

#### Tennessee

On June 15, a child aged 11 years presented to an ED with a 1-day history of severe headache and a temperature of 102.4 F (39.1 C). On clinical examination, an injected tympanic membrane was found, and the patient received an oral penicillin for otitis media and released. No history of tick bite was reported. On June 16, the patient developed a diffuse maculopapular rash, and on June 20, the patient was hospitalized because of persistent fever, headache, and vomiting; a viral exanthem or an allergic reaction to the antibiotic was suspected. Laboratory findings included elevated AST (0.96  $\mu$ kat/L) and ALT (1.52  $\mu$ kat/L). On June 24, the patient was treated intravenously with a cephalosporin and sent home; however, the patient continued to have fever and headache. On June 30, IFA results from a serum sample obtained June 21 revealed positive IgG and IgM antibody titers (64 and 64, respectively) reactive with *R. rickettsii*. The patient received oral doxycycline and the symptoms resolved over the next 7 days. On July 6, IFA results of a serum specimen demonstrated an eight-fold increase in the IgG antibody titer to 512, confirming the diagnosis of RMSF.

#### Oklahoma

On July 7, a child aged 6 years presented to a physician with a 1-day history of a temperature of 102.2 F (39.0 C), headache, myalgia, diarrhea, and a macular rash on the arms, legs, palms, and soles. On July 1, a tick had been removed from the back of the patient's neck. On July 10, the patient was diagnosed with a viral illness. When the symptoms worsened, the patient was given an oral cephalosporin. On July 11, the patient was hospitalized with dehydration, irritability, confusion, and thrombocytopenia  $(26 \times 10^9/L)$ . On July 12, the patient was transferred to a tertiary care medical center with disseminated intravascular coagulation. Laboratory results included an elevated WBC count  $(20 \times 10^9/L)$  and AST  $(3.65 \,\mu\text{kat/L})$ , and thrombocytopenia  $(9 \times 10^9/L)$ . On July 13, therapy with intravenous doxycycline for possible RMSF was initiated. The patient subsequently developed gangrene, requiring limb amputation and removal of the upper stomach and distal esophagus. On August 19, the patient died. Using an enzyme immunoassay, a serum sample collected on July 12 tested positive for IgG antibodies reactive with *R. rickettsii*. Serum obtained on August 3 and tested using an IFA demonstrated a high positive IgG antibody titer of 1024 reactive with *R. rickettsii*.

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**Editorial Note:** Despite its name, RMSF has been reported throughout the continental United States (except in Maine and Vermont) (1,2). During 1990–1998, approximately 4800 RMSF cases were reported to CDC. Approximately 20% of the cases and 15% of

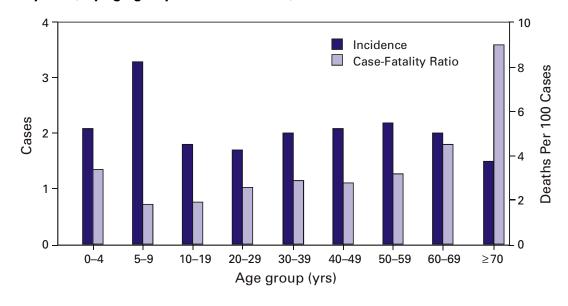
Rocky Mountain Spotted Fever — Continued

reported deaths were in persons aged <10 years. Because of RMSF's rapid course, half the RMSF deaths in this age group occurred within 9 days of illness onset, leaving no more than several days to establish the diagnosis and initiate specific antibiotic therapy. Before the discovery of effective antirickettsial drugs, 13% of children with RMSF died (3). Despite the availability of treatment and advances in supportive medical care, the case-fatality ratio is 2%–3% for patients aged <10 years with RMSF (Figure 1).

In its early stages, RMSF may resemble other infectious and noninfectious conditions and can be difficult to diagnose even for physicians familiar with the disease (4,5). Because only 3%–18% of patients present with rash, fever, and a history of tick exposure on their first visit (4-6), physicians should consider RMSF in infants and children even when one feature is lacking. The absence of tick exposure should not dissuade the clinician from suspecting RMSF. Laboratory abnormalities such as thrombocytopenia and hyponatremia should also raise the possibility of RMSF (5).

Delayed diagnosis and late initiation of specific antirickettsial therapy (e.g., on or after day 5 of the illness) is associated with substantially greater risk for a fatal outcome (1,4,5). Treatment never should be delayed pending a laboratory diagnosis. Most broadspectrum antibiotics, including penicillins, cephalosporins, and sulfa-containing antimicrobials, are ineffective treatments for RMSF. In almost all clinical situations, including disease in children aged <8 years, the antibiotic of choice is doxycycline (7). However, this drug is used infrequently as initial therapy even for children who present with signs and symptoms of a rickettsial illness (6). The use of tetracyclines in young children has been discouraged because of the potential for tooth discoloration and should be

FIGURE 1. Age-specific incidence of Rocky Mountain spotted fever (RMSF)\* and case-fatality ratio, by age group — United States, 1990–1998<sup>†</sup>



<sup>\*</sup>Per million population.

<sup>&</sup>lt;sup>†</sup> Incidence rates were calculated using data from the National Electronic Telecommunications System for Surveillance and from 1990–1998 U.S. Bureau of the Census data. Case-fatality ratios were calculated from laboratory-confirmed cases of RMSF reported to CDC through RMSF case report forms.

Rocky Mountain Spotted Fever — Continued

reserved for patients in whom a rickettsial illness is strongly suspected; however, tetracycline staining of teeth is dose related and available data suggest that one course of doxycycline for presumed RMSF does not cause clinically significant staining of permanent teeth (8).

The most effective ways to reduce the risk for RMSF in children are for supervising adults to 1) limit the child's exposure to ticks, especially during April–September; 2) thoroughly inspect the head, body, and clothes for ticks after time spent in wooded or grassy areas, especially along the edges of trails, roads, or yards; and 3) immediately remove attached ticks by grasping the tick with tweezers or forceps close to the skin and pulling gently with steady pressure. More information about RMSF is available on the World-Wide Web, http://www.cdc.gov/ncidod/dvrd/rmsf.

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#### Notice to Readers

# Updated Recommendations From the Advisory Committee on Immunization Practices in Response to Delays in Supply of Influenza Vaccine for the 2000–01 Season

On July 14, CDC reported a substantial delay in the availability of a proportion of influenza vaccine for the 2000–01 season and the possibility of a vaccine shortage (1). Since then, resolution of manufacturing problems and improved yields of the influenza A (H3N2) vaccine component have averted a shortage. Although safe and effective influenza vaccine will be available in similar quantities as last year, much of the vaccine will be distributed later in the season than usual. This update provides information on the influenza vaccine supply situation and updated influenza vaccination recommendations by the Advisory Committee on Immunization Practices (ACIP) for the 2000–01 influenza season.

For the 1999–2000 influenza season, approximately 77 million doses of vaccine were

distributed, of which 3 million doses were returned. On the basis of information provided by manufacturers, distribution of approximately 75 million doses is anticipated for the 2000–01 season, including 9 million doses that CDC has contracted with Aventis Pasteur (Swiftwater, Pennsylvania) to produce. Most vaccine doses usually become available to providers by October, with 99% of distributed doses available before December; this year, approximately 18 million doses are expected to be distributed in December.

The optimal time to administer influenza vaccine is October through mid-November (2) to assure that vaccination occurs before there is substantial influenza activity. In any influenza season, vaccine should continue to be offered after November to persons at high risk for influenza complications; this will be particularly important in this season in which vaccine delivery is delayed. The effectiveness of this approach is supported by surveillance data from the past 18 years, indicating that seasonal activity peaked four times in December, four times in January, seven times in February, and three times in March.

Vaccination of persons aged ≥65 years substantially reduces influenza morbidity and mortality. For each additional million elderly persons vaccinated, CDC estimates that approximately 900 deaths and 1300 hospitalizations would be averted during the average influenza season (CDC, unpublished data, 2000). The health impact of individual seasons can vary widely on the basis of the size of the susceptible population, the prevalence of influenza infections, the type and strain of the predominating virus(es), and the match between the vaccine strains and those circulating in the community. The primary goal of influenza vaccination is to prevent severe illness and death from influenza infection and its complications. Although the severity of influenza seasons varies, an annual average of approximately 20,000 deaths and 110,000 pneumonia and influenza (P&I) hospitalizations result from influenza infections (3–5). More than 18,000 (>90%) of these deaths and approximately 48,000 of the P&I hospitalizations per year occur among persons aged ≥5 years who are at highest risk for influenza-related complications.

Because of the potential health impact of delayed influenza vaccine availability, CDC and ACIP updated recommendations for the 2000–01 season. The goal of these recommendations is to minimize the adverse health impact of delays on high-risk persons. Minimizing the adverse impact on this group will require an effective response by the private and public sectors, including actions that have not been undertaken during past seasons.

#### Updated ACIP Recommendations for the 2000-01 Influenza Season

Persons at high risk for complications from influenza are:

- persons aged ≥65 years;
- residents of nursing homes and other chronic-care facilities that house persons of any age who have chronic medical conditions;
- 3. children and adults who have chronic disorders of the pulmonary or cardiovascular systems, including asthma;
- 4. children and adults who have required regular medical follow-up or hospitalization during the preceding year because of chronic metabolic diseases (including diabetes mellitus), renal dysfunction, hemoglobinopathies, or immunosuppression (e.g., caused by medications or human immunodeficiency virus);
- 5. persons aged 6 months—18 years who are receiving long-term aspirin therapy and therefore might be at risk for developing Reye syndrome after influenza; and
- 6. women who will be in the second or third trimester of pregnancy during the influenza season.

- When influenza vaccine becomes available, vaccination efforts should be focused on persons at high risk for complications associated with influenza disease and on health-care workers who care for these persons.
- Temporary shortages because of delayed or partial shipments may require decisions on how to prioritize use of vaccine available early in the season among high-risk persons and health-care workers; such decisions are best made by those familiar with the local situation. Vaccine available early in the season should be used to maximize protection of high-risk persons. Because vaccine supplies are expected to increase substantially in November and December, plans should be made to continue vaccination of high-risk persons and health-care workers into December and later.
- Mass vaccination campaigns should be scheduled later in the season as availability of vaccine is assured. Based on projected vaccine distribution, in most areas campaigns will be scheduled in November or later. Efforts should be made to increase participation by high-risk persons and their household contacts, but other persons should not be turned away.
- Groups implementing mass vaccination efforts should seek to enhance coverage
  among those at greatest risk for complications of influenza and their household
  contacts. Strategies for targeting mass vaccination efforts at high-risk persons
  include 1) targeting announcements in publications and other media focused
  toward the elderly and those with high-risk medical conditions; 2) establishing
  liaisons with community groups representing the elderly and those with chronic
  diseases; and 3) offering vaccination to elderly relatives of persons in the workplace and employees.
- Special efforts should be made in December and later to vaccinate persons aged 50–64 years, including those who are not at high risk and are not household contacts of high-risk persons. Persons in this age group with high-risk conditions should be vaccinated along with other high-risk persons. However, special efforts to vaccinate healthy persons in this age group should begin in December and continue as long as vaccine is available.
- Vaccination efforts for all groups should continue into December and later as long as influenza vaccine is available. Production of influenza vaccine will continue through December, and providers should plan for how vaccine provided late in the season can be used effectively. Vaccination providers who administer all of their available influenza vaccine supply early in the season and who still have unvaccinated high-risk patients should order additional vaccine that will become available in December. To minimize wastage of influenza vaccine, providers whose initial vaccine orders are delayed or partially filled should not seek replacement vaccine from other manufacturers or distributors unless use of all vaccine doses ordered can be assured during the 2000–01 season.
- Pneumococcal vaccines are recommended by ACIP for many of the same highrisk persons for whom influenza vaccine is recommended (6,7). Assuring pneumococcal vaccination of high-risk persons in accordance with ACIP recommendations early in the season will confer substantial protection from a major complication of influenza (pneumococcal pneumonia).
- Annual influenza vaccination provides an opportunity to review the pneumococcal vaccination status of persons for whom pneumococcal vaccination is recommended by ACIP. This season, pneumococcal vaccine should be administered

when indicated even if influenza vaccine is not yet available. Providers should emphasize to patients or their caregivers that pneumococcal vaccination is not a substitute for influenza vaccination and that patients need to return for influenza vaccine when it is available.

#### Role of Health-Care Organizations and Health-Care Providers

ACIP encourages health-care organizations and providers to undertake special efforts to maximize influenza vaccine coverage among high-risk persons. Health-care organizations and medical providers that can identify elderly and high-risk patients from computerized administrative databases or clinical records should evaluate their capacity to send reminders directly to these patients. Reminder-recall systems have been proven effective in increasing vaccination coverage and are recommended by the Task Force on Community Preventive Services (8). In addition, ACIP recommends use of standing orders in long-term—care facilities and other settings (e.g., inpatient and outpatient facilities, managed-care organizations, assisted-living facilities, correctional facilities, adult workplaces, and home health-care agencies) to ensure the administration of recommended vaccinations for adults, including influenza vaccine (9). Assuring that elderly and high-risk patients receive vaccine before hospital discharge throughout the influenza season will provide protection for a large number of high-risk persons.

#### **Role of State and Local Health Departments**

State and local health departments can play a critical role in promoting vaccination of high-risk persons and in promoting ongoing vaccination through December and later. Because only a small proportion of influenza vaccine is delivered by the public sector, the greatest impact may be achieved through the formation of coalitions that include community and provider organizations to promote the strategies recommended by ACIP. Key coalition partners include professional societies, Health Care Financing Administration peer review organizations that have an existing focus on influenza vaccination through the National Pneumonia Project, and community groups that focus on high-risk populations. Many states already may have an active coalition for adult vaccination that could serve as a focus for state and local efforts. Health departments also can play a key role in disseminating timely and accurate local information on influenza activity and communicating local availability of vaccine to high-risk groups and monitoring and promoting vaccination of residents of long-term–care facilities.

#### Update on Use of Influenza Vaccine in Children

Early vaccination of young children with high-risk conditions is a priority because two doses of vaccine administered at least 1 month apart are recommended for children aged <9 years who are receiving influenza vaccine for the first time. Two influenza vaccines (Flushield<sup>TM</sup>, Wyeth Laboratories, Inc. [Marietta, Pennsylvania], and Fluzone® split, Aventis Pasteur, Inc.) are licensed and recommended for use in high-risk children aged  $\geq 6$  months. One other influenza vaccine, Fluvirin<sup>TM</sup> (Medeva Pharma Ltd., Leatherhead, England), is labeled in the United States for use only in persons aged  $\geq 4$  years because its efficacy in younger persons has not been demonstrated. Because Fluvirin<sup>TM</sup> is not indicated for children aged 6 months–3 years, providers should use other approved influenza vaccines for vaccination of children in this age group.

CDC will provide information material to assist state health departments and other organizations in their communication and education efforts. This material and updates on the influenza vaccine supply will be posted on CDC's World-Wide Web site,

http://www.cdc.gov/nip. Additional information and assistance can be obtained by contacting CDC's National Immunization Program by e-mail, nipinfo@cdc.gov, or the National Immunization Information Hotline, telephone (800) 232-2522.

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## Notice to Readers

# **Changes in National Notifiable Diseases Data Presentation**

This issue of *MMWR* incorporates modifications to Tables I and II, Cases of Notifiable Diseases, United States. The modifications will add diseases designated nationally notifiable by the Council of State and Territorial Epidemiologists and CDC. As of January 1, 2000, 60 infectious diseases were designated as notifiable at the national level (Table 1). Except where otherwise indicated, the data presented in the notifiable disease tables are transmitted to CDC through the National Electronic Telecommunications System for Surveillance (NETSS).

For the infectious diseases added to the list of nationally notifiable diseases that were reportable in <40 states in 2000, data now will be included in Table I; these diseases are Q fever and tularemia. Because not all nationally notifiable diseases are reportable in every state or territory, the reported numbers of cases of some diseases in Table I represent only the totals from states or territories in which the diseases are reportable. Cumulative totals of the number of reported cases of listeriosis by state and territory in 2000 were added to Table II.

Reported by: Council of State and Territorial Epidemiologists. Div of Public Health Surveillance and Informatics, Epidemiology Program Office, CDC.

# TABLE 1. Infectious diseases designated as notifiable at the national level — United States, 2000\*

Acquired Immunodeficiency Syndrome Listeriosis
(AIDS) Lyme disease
Anthrax Malaria
Botulism Measles

Brucellosis Meningococcal disease

Chancroid Mumps
Chlamydia trachomatis, genital Pertussis
infections Plague

Cholera Poliomyelitis, paralytic

Coccidioidomycosis
Cryptosporidiosis
Cyclosporiasis
Diphtheria
Psittacosis
O fever
Rabies, animal
Rabies, human

Ehrlichiosis, human granulocytic Rocky Mountain spotted fever

Ehrlichiosis, human monocytic Rubella

Encephalitis, California serogroup viral Rubella, congenital syndrome

Encephalitis, eastern equine Salmonellosis Encephalitis, St. Louis Shigellosis

Encephalitis, western equine Streptococcal disease, invasive, Group A

Escherichia coli O157:H7 Streptococcus pneumoniae, drug

Gonorrhea resistant

Haemophilus influenzae, invasive Streptococcal toxic-shock syndrome

disease Syphilis

Hansen disease (leprosy)

Syphilis, congenital

Hantavirus pulmonary syndrome Tetanus
Hemolytic uremic syndrome, Toxic-shock syndrome

postdiarrheal Trichinosis
Hepatitis A Tuberculosis
Hepatitis B Tularemia
Hepatitis, C/non A, non B Typhoid fever

HIV infection, adult (≥13 years) Varicella (deaths only)

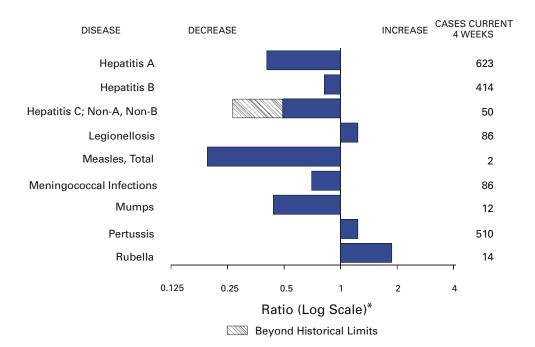
HIV infection, pediatric (<13 years)

Yellow fever

Legionellosis

<sup>\*</sup>Although not a nationally notifiable disease, the Council of State and Territorial Epidemiologists recommends reporting cases of varicella (chickenpox) through the National Notifiable Diseases Surveillance System.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending September 30, 2000, with historical data



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

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending September 30, 2000 (39th Week)

	Cum. 2000		Cum. 2000
Anthrax Brucellosis* Cholera Cyclosporiasis* Diphtheria Ehrlichiosis: human granulocytic (HGE)* human monocytic (HME)* California serogroup viral*	- 52 1 35 1 139 80 83	Poliomyelitis, paralytic Psittacosis* Ofever* Rabies, human Rocky Mountain spotted fever (RMSF) Rubella, congenital syndrome Streptococcal disease, invasive, group A Streptococcal toxic-shock syndrome*	- 8 14 - 342 6 2,208 62
eastern equine* St. Louis* western equine* Hansen disease (leprosy)* Hantavirus pulmonary syndrome*† Hemolytic uremic syndrome, postdiarrheal* HIV infection, pediatric*§ Plague	1 47 27 134 170 5	Syphilis, congenital <sup>¶</sup> Tetanus Toxic-shock syndrome Trichinosis Tularemia* Typhoid fever Yellow fever	172 19 118 7 100 264

<sup>-:</sup> No reported cases.

\*Not notifiable in all states.

\*Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).

\*Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update September 24, 2000.

<sup>&</sup>lt;sup>¶</sup>Updated from reports to the Division of STD Prevention, NCHSTP.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending September 30, 2000, and October 2, 1999 (39th Week)

	A 11	AIDS Chlamydia <sup>†</sup> Cryptosporidiosis NETSS							coli O157:H	
Danastina Assa	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting Area UNITED STATES	2000 <sup>§</sup> 30,346	<b>1999</b> 33,919	<b>2000</b> 478,874	<b>1999</b> 489,450	<b>2000</b> 1,748	1,970	<b>2000</b> 3,429	<b>1999</b> 2,729	<b>2000</b> 2,321	<b>1999</b> 2,118
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	1,599 27 28 22 1,006 78 438	1,676 55 38 13 1,094 77 399	15,743 1,080 751 393 6,729 1,871 4,919	15,786 780 733 355 6,734 1,723 5,461	72 17 17 23 12 3	144 20 11 32 58 2 21	311 24 30 30 132 14 81	331 31 26 25 146 24 79	289 25 28 30 126 12 68	307 26 15 159 25 82
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	6,780 692 3,619 1,336 1,133	8,675 957 4,588 1,608 1,522	41,815 N 19,384 5,929 16,502	49,945 N 20,816 9,205 19,924	117 81 8 8 20	386 113 187 27 59	324 225 10 89 N	213 154 16 43 N	196 38 9 89 60	98 - 16 54 28
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	2,871 427 286 1,569 437 152	2,304 376 257 1,104 454 113	77,775 20,659 9,556 20,080 18,854 8,626	81,775 22,400 8,985 24,370 15,942 10,078	570 192 49 7 81 241	522 43 33 77 41 328	758 211 110 149 107 181	803 163 69 474 97 N	443 165 69 - 82 127	412 164 50 81 71 46
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	681 130 70 316 2 7 53 103	762 138 68 370 6 13 57 110	26,307 5,234 3,540 8,609 352 1,318 2,723 4,531	27,866 5,648 3,277 9,829 686 1,161 2,624 4,641	203 23 64 21 9 13 65	167 61 50 19 16 6 13	539 137 155 110 15 46 54 22	428 135 94 35 16 38 85 25	403 139 76 81 17 46 32	462 150 67 55 16 55 107
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	8,394 156 1,060 570 574 47 529 660 983 3,815	9,346 128 1,113 408 600 53 632 790 1,377 4,245	96,426 2,153 10,080 2,474 12,026 1,379 16,860 7,966 19,203 24,285	103,318 2,034 9,740 N 10,743 1,358 17,096 13,881 24,884 23,582	344 5 10 14 15 3 21 - 120 156	279 - 12 7 19 3 15 - 114 109	295 1 26 1 55 13 70 18 38 73	244 6 21 - 60 10 54 18 26 49	175 1 1 U 44 7 58 13 26 25	153 3 2 U 50 6 48 14 1 29
E.S. CENTRAL Ky. Tenn. Ala. Miss.	1,533 160 657 397 319	1,530 220 585 398 327	35,819 5,966 10,830 11,520 7,503	34,933 5,690 10,676 9,625 8,942	38 5 10 12 11	27 6 9 10 2	105 32 48 8 17	108 32 47 21 8	80 27 38 7 8	82 22 36 20 4
W.S. CENTRAL Ark. La. Okla. Tex.	3,049 150 510 257 2,132	3,507 131 663 102 2,611	73,315 4,219 13,792 6,172 49,132	68,575 4,469 12,362 6,053 45,691	79 10 10 13 46	71 1 22 7 41	155 55 9 14 77	87 11 12 19 45	188 30 42 11 105	115 10 12 19 74
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	1,131 12 19 7 258 116 367 112 240	1,339 8 19 10 235 74 694 116 183	27,681 1,023 1,380 571 8,045 3,286 9,058 1,578 2,740	25,369 1,099 1,309 572 5,186 3,842 9,387 1,580 2,394	131 10 12 5 59 14 11 17	78 10 7 1 11 32 10 N 7	350 29 58 14 129 19 42 49	227 17 35 13 85 9 25 29	189 - 2 80 15 31 61	178 - 21 13 67 5 16 41
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	4,308 394 113 3,693 15 93	4,780 281 151 4,274 13 61	83,993 9,388 3,754 66,880 1,810 2,161	81,883 8,790 4,627 64,624 1,435 2,407	194 N 15 179	296 N 86 210	592 177 127 250 24 14	288 119 55 102 1	358 173 99 75 1	311 143 62 96 1
Guam P.R. V.I. Amer. Samoa C.N.M.I.	15 1,028 27 - -	11 1,013 25 - -	2,996 U U U	355 U U U U	- U U U	- U U U	N 6 U U	N 5 U U U	U U U U	U U U U

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

\*Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

† Chlamydia refers to genital infections caused by *C. trachomatis*. Totals reported to the Division of STD Prevention, NCHSTP.

† Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update September 24, 2000.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending September 30, 2000, and October 2, 1999 (39th Week)

	Gono	rrhea	Hepati Non-A,	tis C;	Legione		Listeriosis	Ly	me ease
Reporting Area	Cum.	Cum. 1999	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum. 1999
UNITED STATES	<b>2000</b> <sup>§</sup> 249,741	267,797	<b>2000</b> 2,358	<b>1999</b> 2,097	<b>2000</b> 699	<b>1999</b> 724	<b>2000</b> 520	<b>2000</b> 9,737	11,808
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	4,437 68 81 48 1,843 463 1,934	4,899 55 89 36 1,863 438 2,418	13 2 - 3 3 5	13 2 - 5 3 3	39 2 2 4 11 5 15	61 3 6 12 24 6 10	39 2 2 3 19 - 13	3,142 50 20 882 318 1,872	3,592 34 8 16 665 350 2,519
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	25,752 5,241 8,368 4,454 7,689	30,048 5,058 9,589 5,828 9,573	430 53 - 352 25	97 48 - - 49	137 58 - 10 69	172 46 28 13 85	122 67 21 20 14	5,027 2,836 14 1,208 969	6,189 2,932 129 1,404 1,724
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	47,193 12,307 4,493 13,640 13,216 3,537	51,344 13,562 4,784 17,179 11,414 4,405	171 9 1 10 151	728 2 1 41 668 16	187 88 33 9 35 22	206 59 29 27 55 36	86 43 7 11 22 3	292 70 30 11 - 181	537 37 17 17 11 455
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak.	11,602 2,088 781 5,428 15 220	12,348 2,130 889 5,988 68 130	468 5 1 447 -	168 7 - 158 - -	51 3 12 27 - 2	40 6 11 15 1 2	13 5 3 4 1	235 156 21 39 1	238 135 21 58 1
Nebr. Kans.	1,057 2,013	1,140 2,003	6 9	3 -	3 4	5 -	-	4 14	10 13
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	71,392 1,269 6,941 1,978 7,766 451 13,767 10,114 12,210 16,896	77,979 1,273 7,241 2,812 7,069 435 15,092 10,396 16,831 16,830	101 18 3 3 14 13 2 3 45	139 19 1 10 17 32 21 1 38	149 8 51 3 27 N 13 4 6	100 11 22 3 25 N 13 7 1	85 1 18 - 5 3 - 9 21 28	827 140 449 4 123 26 41 5	1,004 83 723 3 94 15 63 4
E.S. CENTRAL Ky. Tenn. Ala. Miss.	26,144 2,634 8,679 8,972 5,859	27,975 2,577 8,619 8,608 8,171	343 30 74 7 232	223 15 82 1 125	26 14 10 2	40 14 21 3 2	14 2 9 3	39 8 25 6	82 16 45 18 3
W.S. CENTRAL Ark. La. Okla. Tex.	38,388 2,343 10,181 2,731 23,133	39,286 2,295 9,847 2,975 24,169	403 9 289 7 98	421 23 249 15 134	15 - 6 2 7	9 1 4 3 1	14 1 - 6 7	36 4 3 - 29	42 4 7 7 24
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	7,481 31 64 40 2,375 727 3,022 163 1,059	7,273 33 65 22 1,857 758 3,388 156 994	274 4 3 207 20 13 14 1	146 5 6 38 28 27 28 6	31 1 4 2 11 1 7 5	37 1 - 11 1 5 13 6	24 - 1 5 1 11 3 3	25 - 3 9 - - 1 3	13 - 3 3 2 1 - 2 2
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	17,352 1,666 525 14,621 254 286	16,645 1,519 665 13,888 235 338	155 24 25 104 - 2	162 13 13 136 -	64 15 N 49 -	59 11 N 47 1	123 5 4 112 - 2	114 7 8 97 2 N	111 6 12 93 - N
Guam P.R. V.I. Amer. Samoa C.N.M.I.	525 U U U	41 260 U U U	1 U U U	1	1 U U U	- U U U	- - - -	N U U	N U U U

N: Not notifiable.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending September 30, 2000, and October 2, 1999 (39th Week)

	V CCKS CIT	anig ocpit		2000, and	Totober 2,	Salmonellosis*							
	Mal	aria	Rabie	s, Animal	NE	TSS		HLIS					
Reporting Area	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999					
UNITED STATES	871	1,086	4,479	5,074	26,516	28,437	21,699	25,690					
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	40 5 1 2 10 6 16	47 3 2 4 14 4 20	621 104 9 48 208 49 203	672 126 40 83 158 73 192	1,695 101 104 95 949 106 340	1,721 110 111 77 949 80 394	1,619 77 98 102 891 114 337	1,770 89 110 67 957 132 415					
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	156 55 53 29 19	307 54 178 43 32	804 548 U 148 108	975 693 U 145 137	2,854 915 682 612 645	3,816 995 1,143 749 929	3,194 883 723 444 1,144	4,021 1,044 1,147 888 942					
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	96 16 4 42 24 10	131 18 19 55 32 7	132 46 - 20 58 8	146 31 12 9 75 19	3,843 1,088 501 1,072 684 498	4,122 961 395 1,298 765 703	2,468 1,004 427 1 720 316	3,673 856 372 1,244 766 435					
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	38 13 3 7 2 - 7 6	58 30 12 11 - - 1 4	439 72 66 41 103 75 1 81	592 82 125 24 119 151 3 88	1,835 402 288 558 48 79 178 282	1,775 475 197 558 40 75 155 275	1,769 498 185 676 61 84 44 221	1,964 591 182 706 51 102 138 194					
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	245 4 79 15 44 3 27 2 16 55	267 1 77 16 55 2 24 11 21 60	1,807 41 323 416 91 438 118 255 125	1,647 47 311 - 415 91 341 119 178 145	5,946 89 652 50 770 131 829 537 1,051 1,837	6,196 110 670 64 1,014 128 927 454 1,012 1,817	3,781 106 581 U 615 114 806 411 1,052	5,029 126 695 U 859 120 1,067 385 1,281 496					
E.S. CENTRAL Ky. Tenn. Ala. Miss.	37 13 10 13 1	21 7 7 6 1	159 18 82 59	208 32 76 100	1,629 294 435 483 417	1,569 311 432 451 375	1,152 199 482 401 70	1,121 210 461 372 78					
W.S. CENTRAL Ark. La. Okla. Tex.	17 3 7 7	14 2 10 2	70 20 - 50	367 14 - 79 274	2,331 524 243 313 1,251	2,784 487 590 355 1,352	2,794 329 461 205 1,799	2,083 138 455 282 1,208					
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	39 1 3 21 - 6 4 4	36 4 3 1 15 2 4 4 3	207 57 9 47 - 18 63 11 2	174 52 - 39 1 8 62 7 5	2,219 71 98 51 596 186 616 395 206	2,324 47 80 48 605 312 682 398 152	1,629 - - 14 534 167 538 376	2,076 1 77 46 590 249 634 430 49					
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	203 23 33 142 5	205 19 17 157 1	240 - 7 212 21 -	293 - 3 283 - 7	4,164 424 245 3,263 49 183	4,130 482 351 2,981 39 277	3,293 547 285 2,271 23 167	3,953 672 386 2,642 25 228					
Guam P.R. V.I. Amer. Samoa C.N.M.I.	4 U U U	- U U U	ි ස U U U	58 U U U	448 U U U	31 423 U U U	U U U U	U U U U					

N: Not notifiable. U: Unavailable. -: No reported cases.

\* Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending September 30, 2000, and October 2, 1999 (39th Week)

	weeks end			2000, and	October 2, 1999 (39th Week)						
	NET	Shige SS		PHLIS		philis & Secondary)	Tube	rculosis			
Reporting Area	Cum.	Cum.	Cum.	Cum.	Cum. 2000	Cum.	Cum.	Cum.			
UNITED STATES	2000 14,624	<b>1999</b> 12,000	<b>2000</b> 7,579	<b>1999</b> 7,248	4,472	<b>1999</b> 5,043	<b>2000</b> 9,230	1999 11,681			
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	302 11 4 4 211 22 50	635 4 14 6 542 18 51	270 12 8 - 176 28 46	600 14 4 513 17 52	56 1 1 37 4 13	47 1 3 26 2 15	307 12 15 4 183 27 66	318 13 10 2 180 32 81			
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	1,548 601 595 228 124	796 222 270 175 129	1,029 177 426 235 191	569 58 190 174 147	205 11 99 35 60	223 17 93 53 60	1,694 219 922 400 153	1,942 244 1,009 399 290			
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	3,088 289 1,296 778 539 186	2,211 339 219 884 326 443	892 213 126 2 504 47	1,201 113 79 696 253 60	865 63 291 257 218 36	889 67 313 323 152 34	935 205 72 459 133 66	1,232 190 104 627 236 75			
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	1,713 508 406 524 14 6 100	939 185 35 595 3 11 68 42	1,343 614 217 384 30 3 9	631 198 36 300 2 6 54 35	48 9 10 22 - - 2 5	107 9 9 73 - 6 10	356 113 27 146 2 14 17 37	366 142 33 132 6 12 15 26			
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	2,154 17 163 63 341 4 162 99 191 1,114	1,825 12 129 45 96 7 163 96 178 1,099	757 19 86 U 241 3 201 74 71 62	420 7 42 U 50 4 72 52 68 125	1,478 8 217 38 105 2 387 148 283 290	1,637 7 299 37 121 3 388 206 319 257	1,984 192 22 326 22 228 104 423 667	2,366 22 204 37 221 34 348 206 456 838			
E.S. CENTRAL Ky. Tenn. Ala. Miss.	752 286 270 52 144	973 206 583 97 87	362 56 269 34 3	587 134 390 53 10	670 63 404 98 105	885 79 491 176 139	572 83 250 239	789 142 269 236 142			
W.S. CENTRAL Ark. La. Okla. Tex.	1,617 164 133 89 1,231	1,980 68 157 452 1,303	1,995 44 133 31 1,787	851 23 91 143 594	618 72 171 101 274	809 55 237 152 365	849 139 74 102 534	1,575 129 U 135 1,179			
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	913 7 43 5 199 110 376 67 106	775 7 20 3 142 93 388 47 75	486 - - 2 124 67 222 71	530 9 1 113 71 279 51 6	181 - 1 1 9 19 145 1	179 1 1 2 8 161 2 4	377 10 10 2 55 29 163 37 71	399 10 12 3 54 47 174 30 69			
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	2,537 365 143 1,987 8 34	1,866 87 67 1,687 - 25	445 339 79 - 3 24	1,859 82 67 1,683 2 25	351 51 5 294 - 1	267 50 5 209 1 2	2,156 180 25 1,783 70 98	2,694 191 82 2,248 42 131			
Guam P.R. V.I. Amer. Samoa C.N.M.I.	23 U U U	11 120 U U U	U U U U	U U U U	125 U U U	126 U U U	238 U U U	52 161 U U U			

N: Not notifiable. U: Unavailable. -: No reported cases.
\*Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending September 30, 2000, and October 2, 1999 (39th Week)

_	H. influ	ienzae,	Hepatitis (Viral), By Type						Measles (Rubeola				
	Inva	sive	Α		В		Indige		Impo	rted*	Tota		
Reporting Area	Cum. 2000†	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	2000	Cum. 2000	2000	Cum. 2000	Cum. 2000	Cum. 1999	
UNITED STATES	877	913	8,936	12,362	5,138	5,237	-	54	-	18	72	79	
NEW ENGLAND	74	67 5	268	241	78 5	119 1	-	2	-	4	6	11	
Maine N.H.	1 12	13	15 18	8 13	15	13	-	2	-	1	3	1	
Vt. Mass.	6 36	5 28	8 100	15 87	6 9	3 40	-	-	-	3	3	8	
R.I. Conn.	4 15	1 15	21 106	14 104	15 28	26 36	-	-	-	-	-	2	
MID. ATLANTIC	143	157	835	900	714	661	-	14	-	5	19	5	
Upstate N.Y. N.Y. City	77 <b>2</b> 8	64 49	166 245	206 293	103 337	143 203	-	9 5	-	- 4	9 9	2 3	
N.J. Pa.	29 9	39 5	158 266	107 294	105 169	100 215	-	-	-	1	- 1	-	
E.N. CENTRAL	117	151	1,032	2,315	530	545	_	8	_	-	8	2	
Ohio Ind.	44 26	51 20	217 76	513 84	88 40	74 34	-	2	-	-	2	- - 1	
III.	40	61	375	590	91	46	-	4	-	-	4	-	
Mich. Wis.	7 -	14 5	351 13	1,066 62	310 1	364 27	-	2	-	-	2	1 -	
W.N. CENTRAL	53	57	681	603	552	208	-	2	-	1	3	-	
Minn. Iowa	29 -	36 2	171 61	59 114	30 27	40 34	-	2	-	1 -	1 2	-	
Mo. N. Dak.	15 1	6 1	330 3	362 2	439 2	111 -	-	-	-	-	-	-	
S. Dak. Nebr.	1 3	2 4	1 29	8 42	1 32	1 15	-	-	-	-	-	-	
Kans.	4	6	86	16	21	7	-	-	-	-	-	-	
S. ATLANTIC Del.	233	198	1,104	1,432 2	946	871 1	-	3	-	-	3	14	
Md. D.C.	62	51 4	178 20	241 54	90 27	119 21	-	-	-	-	-	-	
Va.	33	15	118	124	124	70	-	2	-	-	2	12	
W. Va. N.C.	7 20	6 28	52 116	32 125	10 182	22 185	-	-	-	-	-	-	
S.C. Ga.	12 56	5 54	48 199	38 369	13 155	59 123	-	-	-	-	-	-	
Fla.	43	35	373	447	345	271	-	1	-	-	1	2	
E.S. CENTRAL Ky.	39 12	53 6	309 36	312 58	350 57	362 35	-	-	-	-	-	2 2	
Ténn. Ala.	18 8	29 15	114 47	125 44	168 44	178 <i>7</i> 2	-	-	-	-	-	-	
Miss.	1	3	112	85	81	77	-	-	-	-	-	-	
W.S. CENTRAL Ark.	54 2	53 2	1,406 104	2,460 37	611 71	916 57	-	-	-	-	-	9 2	
La. Okla.	11 39	12 35	55 216	183 411	86 120	147 116	-	-	-	-	-	-	
Tex.	2	4	1,031	1,829	334	596	-	-	-	-	-	7	
MOUNTAIN Mont.	79 1	80 2	758 5	989 17	393 7	457 17	-	11	-	1	12	1	
Idaho	3	1	21	35	7	24	-	-	-	-	-	-	
Wyo. Colo.	1 11	1 13	39 163	7 184	24 71	12 78	-	1	-	1	2	-	
N. Mex. Ariz.	18 37	18 37	60 380	40 554	77 153	148 112	-	-	-	-	-	1	
Utah Nev.	7 1	5 3	41 49	38 114	19 35	26 40	Ū	3 7	Ū	-	3 7	-	
PACIFIC	85	97	2,543	3,110	964	1,098	-	14	-	7	21	35	
Wash. Oreg.	5 23	3 32	219 143	261 204	81 83	55 84	-	2	-	1	3	35 5 12	
Calif. Alaska	28 6	49 5	2,159 9	2,617 9	782 8	931 15	-	11 1	-	3	14 1	17	
Hawaii	23	8	13	19	10	13	-	-	-	3	3	1	
Guam P.R.	- 3	2	- 198	1 246	193	2 174	-	-	-	-	-	1 -	
V.I.	U	U	U U	246 U U	U	U	U	U	U	U	U U	U	
Amer. Samoa C.N.M.I.	U U	U	Ü	Ü	U U	U U	U U	U U	U U	U U	Ü	Ü	

N: Not notifiable. U: Unavailable. -: No reported cases.
\*For imported measles, cases include only those resulting from importation from other countries.

†Of 179 cases among children aged <5 years, serotype was reported for 76 and of those, 20 were type b.

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending September 30, 2000, and October 9, 1999 (39th Week)

			and Oc	toner 3	, 1333 (	JJUI W	/CCK/		Ī			
	Mening Dise			Mumps			Pertussis		Rubella			
Reporting Area	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999	
UNITED STATES	1,601	1,853	2	272	277	162	4,565	4,647	1	125	233	
NEW ENGLAND	102	85	-	4	6	12	1,002	557	-	12	7	
Maine N.H.	9 11	5 11	-	-	- 1	2 3	35 86	- 78	-	2	-	
Vt. Mass.	2 57	4 48	-	- 1	1 4	6	179 648	53 387	-	8	- 7	
R.I. Conn.	8 15	4 13	-	1 2	-	1	14 40	24 15	-	1	-	
MID. ATLANTIC	152	173	1	20	35	31	421	757	-	9	30	
Upstate N.Y. N.Y. City	50 31	50 49	1	9 4	7 10	30	216 44	593 45	-	2 7	18 5	
N.J.	35 36	39	-	3	1	1	35	22	-	-	4	
Pa. E.N. CENTRAL	36 268	35 332	-	4 28	17 36	9	126 513	97 401	-	- 1	3 2	
Ohio	71	114	-	7	11	-	265	156	-	-	-	
Ind. III.	37 64	48 86	-	1 6	4 9	3 5	78 59	54 67	-	1	1 1	
Mich. Wis.	76 20	51 33	-	14 -	8 4	1 -	56 55	43 81	-	-	-	
W.N. CENTRAL	140	185	1	19	10	38	409	307	-	1	126	
Minn. Iowa	17 26	42 32	-	- 7	1 5	26	243 43	140 47	-	-	5 30	
Mo. N. Dak.	76 2	67 3	-	5 -	1 -	8 3	57 6	58 4	-	-	2	
S. Dak. Nebr.	5 7	11 10	- 1	- 4	-	1	4 25	5 4	-	- 1	- 89	
Kans.	7	20	-	3	3	-	31	49	-	-	-	
S. ATLANTIC Del.	258	310 9	-	40	41	11	363 8	330 4	-	73	35	
Md.	25	45 3	-	10	3	4	87 3	106	-	-	1	
D.C. Va.	36	41	-	8	2 9	5	71	19	-	-	-	
W. Va. N.C.	12 32	5 35	-	- 5	8	-	1 77	2 86	-	64	34	
S.C. Ga.	19 39	39 51	-	10 2	4 4	-	23 34	15 33	-	7 -	-	
Fla.	95	82	-	5	11	2	59	65	-	2	-	
E.S. CENTRAL Ky.	111 24	128 26	-	7 1	11 -	2	88 41	79 23	-	5 1	2	
Ténn. Ala.	46 31	53 30	-	2 2	- 8	2	28 18	34 19	-	1 3	2	
Miss.	10	19	-	2	3	-	1	3	-	-	-	
W.S. CENTRAL Ark.	110 12	183 31	-	24 2	37	10	280 31	167 19	-	5	11 3	
La.	33 24	55	-	4	10	-	12	9	-	1	-	
Okla. Tex.	24 41	27 70	-	18	1 26	10	14 223	32 107	-	4	1 7	
MOUNTAIN	111	115	-	19	18	31	615	576	-	2	16	
Mont. Idaho	4 7	2 8	-	1 -	1	2 1	35 53	2 132	-	-	-	
Wyo. Colo.	30 8	4 31	-	2 1	- 5	- 27	6 348	2 213	-	1	1	
N. Mex. Ariz.	8 52	13 37	-	1 4	N 4	1	78 69	80 87	-	- 1	13	
Utah Nev.	52 7 3	13 7	Ū	4 6	3 5	Ū	16 10	55 5	Ū		1 1	
PACIFIC	349	342	-	111	83	18	874	1,473	1	- 17	4	
Wash. Oreg.	43 56	57 59	- N	10 N	2 N	8 1	293 102	580 41	-	 7 -	-	
Calif.	234	214	-	80	<b>6</b> 8	9	431	815	1	10	4	
Alaska Hawaii	8 8	6 6	-	7 14	1 12	-	19 29	4 33	-	-	-	
Guam	-	1	-	-	1	-	- 4	2	-	-	-	
P.R. V.I.	9 U	10 U	Ü	Ü	Ü	Ü	U	21 U	Ü	Ü	Ü	
Amer. Samoa C.N.M.I.	U U	U U	U U	U U	U U	U U	U U	U U	U	U U	U U	

N: Not notifiable.

U: Unavailable.

-: No reported cases.

TABLE IV. Deaths in 122 U.S. cities,\* week ending September 30, 2000 (39th Week)

	1	All Cau	ises Rv	Age (Y	•	IDCI		2000 (33(11 44)		ΔII Cau	ses Rv	Age (Y	ears)		
Reporting Area	All Ages	I -	45-64	25-44	1-24	<1	P&I <sup>†</sup> Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I <sup>†</sup> Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn Cambridge, Mass Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Ma New Haven, Conn Providence, R.I. Somerville, Mass Springfield, Mass Springfield, Mass Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J.	517 142 . 46 . 13 . 40 . 77 . 20 . 8 . SS. 17 . 37 . 2 . 36 . 36 . 33 . 34 . 34 . 36 . 36 . 36 . 37 . 36 . 36 . 36 . 36 . 36 . 36 . 36 . 36	370 95 36 31 48 18 6 6 12 22 22 22 28 41 1,452 40 7 6 6 9 9 9 9 9 9 9 12 9 9 9 9 9 9 9 9 9 9 9	88 25 8 2 7 15 1 2 2 2 7 7 U - 10 4 4 5 411 7 1 18 8	37 13 1 1 2 8 - - 3 6 0 0 - - 3 3 - - - 3 1 1 2 8 7 - - - - - - - - - - - - - - - - - -	11 2 1 - 4 1 - 1 U - 1 1 - 4 3 1 - - - 1 1 - - - 1 1 - - - - - - - -	11 7 - 1 - 2 1 U 42 1 - 2 2	47 10 4 1 4 2 2 2 4 2 U 1 6 6 5 96 1	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, F Tampa, Fla. Washington, D.G Wilmington, Del E.S. CENTRAL Birmingham, Ali Chattanooga, Te Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala.	1,025 U 166 116 . 127 . 99 51 . 68 . 33 . 175 . C. 100 l. 15 . 810 a. 167 . enn. 67 . enn. 67 . enn. 67 . 78	647 U 97 81 79 66 30 39 35 37 122 51 10 524 101 42 60 23 97 60	219 U 46 20 28 21 12 16 10 5 32 27 2 186 42 13 15 11 42 9	90 U 13 8 10 9 5 10 6 7 12 8 2 65 19 6 5 4 9 5	34 U 55 66 22 11 14 44 4 - 20 14 3	35 U 5 2 4 4 1 1 2 2 5 10 1 1 15 4 2 2 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	78 U 16 16 7 9 2 5 1 7 12 1 2 48 13 5 - 2 8 1
Elizabeth, N.J. Erie, Pa.§ Jersey City, N.J. New York City, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y. E.N. CENTRAL	24 22 244 69 26 121	11 27 12 800 9 14 168 40 18 93 20 28 61 8 11 U	3 9 234 5 7 46 20 7 21 4 6 9 3 1 U	1 3 2 79 4 1 18 4 1 3 1 1 1 U	1 2 20 2 - 7 3 - 4 2 U 68	1 21 4 - 5 2 - - - 4 - - U	36 2 2 18 4 7 2 4 5 1 U	Montgomery, Al Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La Corpus Christi, Tollas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La San Antonio, Te Shreveport, La. Tulsa, Okla. MOUNTAIN	155 1,426 87 . 63 . Fex. 41 202 96 1113 354 . 47 x. 200 119	45 966 69 40 266 126 74 82 214 35 27 140 38 95	13 41 255 12 20 12 47 12 17 59 13 2 33 7 21	4 13 115 5 1 3 11 8 9 43 3 7 21 4	68 1 2 14 1 2 29 1 11 4 1 2	1 22 - 4 1 3 9 2 - 2 - 1	12 7 87 7 1 18 1 2 23 4 - 18 5 8
E.N. CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Cicveland, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Grand Rapids, Mi Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, Ill. South Bend, Ind. Toledo, Ohio Youngstown, Ohi W.N. CENTRAL Des Moines, lowa Duluth, Minn. Kansas City, Kans Kansas City, Kans Kansas City, Mo. Lincoln, Nebr. Minneapolis, Min Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	47 344 397 128 151 172 141 214 50 63 24 ch. 59 148 119 52 57 31 103 0 64 841 1 7 9 30 30 32	1,3/6 31 222 2300 837 7123 1077 1121 1344 400 299 838 400 422 200 811 52 6011 513 199 644 140 667 77 722 57	12 9 86 24 40 27 25 6 11 11 6 11 32 7 25 6 12 6 16 9 144 11 5 5 5 5 5 5 7 11 9 17	32 37 11 15 15 10 33 3 1 10 3 9 3 1 2 2 1 47 4 2 6 7 5 12 2 1 2 1 2 6 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 6 7 1 2 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 2 7	24 5 4 6 1 6 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 19 5 5 5 1 1 1 9 1 1 1 2 2 1 1 6 5 4 2 2 2	141 40 81 17 51 15 10 61 11 5 5 5 5 5 5 2 4 6 3 12 9 4 9 5 12 9 12 9 13 14 9 15 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	Albuquerque, N Boise, Idaho Colo. Springs, C Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, U Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawa Long Beach, Cali Los Angeles, Cal Los Angeles, Cal Los Angeles, Cal San Diego, Calif San Francisco, C San Jose, Calif. Santa Cruz, Calif Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	.M. 116 39 olo. 69 102 180 36 158 26 tah 120 133 20 ii 70 iif. 78 iif. 317 calif. U . 167 calif. 118 f. 366	64 26 40 66 121 32 90 15 81 1,009 17 55 60 214 17 U U 100 80 132 25 84 41 73	32 10 20 15 44 32 8 21 23 28 60 4 10 10 38 25 39 7 18 8 24	315 22 5 13 9 - 22 1 10 3 8 8 - 5 1 26 2 0 0 10 3 2 2 8 2 2 10 3 2 10 3 10 10 10 10 10 10 10 10 10 10 10 10 10	3 3 4 - 10 2 5 7 34 - 1 1 3 12 - U U 5 - 2 - 6 - 4 3 3 4	2 1 1 3 2 1 7 7 - 3 3 4 27 1 1 1 - 2 2 5 1 U U 6 2 2 6 6 1 1 1 2 2 5 5 1 2 2 6 5	4 2 6 7 10 6 10 10 9 119 4 7 7 6 23 4 U 18 10 20 3 13 3 1 7 3 1 7 3 9

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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