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Recovery of a Patient from Clinical Rabies — Wisconsin, 2004

Rabies is a viral infection of the central nervous system, usually contracted from the bite of an infected animal, and is nearly always fatal without proper postexposure prophylaxis (PEP) (1). In October 2004, a previously healthy female aged 15 years in Fond du Lac County, Wisconsin, received a diagnosis of rabies after being bitten by a bat approximately 1 month before symptom onset. This report summarizes the investigation conducted by the Wisconsin Division of Public Health (WDPH), the public health response in Fond du Lac County, and the patient's clinical course through December 17. This is the first documented recovery from clinical rabies by a patient who had not received either pre- or postexposure prophylaxis for rabies.

While attending a church service in September, the girl picked up a bat after she saw it fall to the floor. She released the bat outside the building; it was not captured for rabies testing, and no one else touched the bat. While handling the bat, she was bitten on her left index finger. The wound was approximately 5 mm in length with some blood present at the margins; it was cleaned with hydrogen peroxide. Medical attention was not sought, and rabies PEP was not administered.

Approximately 1 month after the bat bite, the girl complained of fatigue and tingling and numbness of the left hand. These symptoms persisted, and 2 days later she felt unsteady and developed diplopia (i.e., double vision). On the third day of illness, with continued diplopia and onset of nausea and vomiting, she was examined by her pediatrician and referred to a neurologist. At that time, the patient continued to have blurred vision and also had partial bilateral sixth-nerve palsy. Magnetic resonance imaging (MRI) with and without contrast and magnetic resonance angiography (MRA) studies of her brain were normal, and the patient was sent home.

On the fourth day of illness, the patient's symptoms continued, and she was admitted to a local hospital for lumbar puncture and supportive care. On admission, she was afebrile, alert, and able to follow commands. She had partial sixthnerve palsy, blurred vision, and unsteady gait. Standard precautions for infection control were observed. Lumbar puncture revealed a white blood cell count of 23 cells/ μ L (normal: 0 cells/ μ L) with 93% lymphocytes, a red blood cell count of 3 cells/ μ L (normal: 0 cells/ μ L), a protein concentration of 50 mg/dL (normal: 15–45 mg/dL), and a glucose concentration of 58 mg/dL (normal: 40–70 mg/dL). During the next 36 hours, she had slurred speech, nystagmus, tremors of the left arm, increased lethargy, and a temperature of 102°F (38.9°C).

On the sixth day of illness, the bat-bite history was reported, and rabies was considered in the differential diagnosis. The patient was transferred to a tertiary care hospital. Because rabies was recognized as a possibility, expanded infectioncontrol measures, including droplet precautions and one-toone nursing, were instituted at time of transport. On arrival, the patient had a temperature of 100.9°F (38.3°C), impaired muscular coordination, difficulty speaking, double vision, muscular twitching, and tremors in the left arm. She was somewhat obtunded but answered questions appropriately and complied with commands.

INSIDE

- 1174 New Year's Eve Injuries Caused by Celebratory Gunfire — Puerto Rico, 2003
- 1175 Survey of Airport Smoking Policies United States, 2002
- 1178 Alcohol Consumption Among Women Who Are Pregnant or Who Might Become Pregnant — United States, 2002
- 1181 Investigation of a Home with Extremely Elevated Carbon Dioxide Levels — West Virginia, December 2003
- 1182 Acute Illness from Dry Ice Exposure During Hurricane Ivan — Alabama, 2004
- 1183 Updated Interim Influenza Vaccination Recommendations — 2004–05 Influenza Season

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Centers for Disease Control and Prevention

Julie L. Gerberding, MD, MPH Director

Dixie E. Snider, MD, MPH Chief of Science

Tanja Popovic, MD, PhD (Acting) Associate Director for Science

Coordinating Center for Health Information and Service*

Blake Caldwell, MD, MPH, and Edward J. Sondik, PhD (Acting) Directors

National Center for Health Marketing*

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Notifiable Disease Morbidity and 122 Cities Mortality Data

Patsy A. Hall Deborah A. Adams Felicia J. Connor Rosaline Dhara Donna Edwards Mechelle Hester Tambra McGee Pearl C. Sharp

* Proposed.

Blood serum, cerebrospinal fluid (CSF), nuchal skin samples, and saliva were submitted to CDC for rabies testing. MRI with and without contrast and angiogram/venogram sequences were normal. She had hypersalivation and was intubated. Rabies-virus–specific antibodies were detected in the patient's serum and CSF. Direct fluorescent antibody staining of nuchal skin biopsies was negative for viral antigen, and rabies virus was not isolated from saliva by cell culture. Rabies-virus RNA was not detectable by reverse transcriptase polymerase chain reaction assay of either sample. Therefore, identification of the virus variant responsible for this infection was not possible.

Clinical management of the patient consisted of supportive care and neuroprotective measures, including a drug-induced coma and ventilator support. Intravenous ribavirin was used under an investigational protocol. The patient was kept comatose for 7 days; during that period, results from lumbar puncture indicated an increase in antirabies IgG by immunofluorescent assay from 1:32 to 1:2,048. Her coma medications were tapered, and the patient became increasingly alert. On the 33rd day of illness, she was extubated; 3 days later she was transferred to a rehabilitation unit. At the time of transfer, she was unable to speak after prolonged intubation. As of December 17, the patient remained hospitalized with steady improvement. She was able to walk with assistance, ride a stationary cycle for 8 minutes, and feed herself a soft, solid diet. She solved math puzzles, used sign language, and was regaining the ability to speak. The prognosis for her full recovery is unknown.

To provide community members accurate information about rabies and its transmission, local and state health officials held a press conference on October 21. Public health officials and community pediatricians visited the patient's school to assess the need for rabies prophylaxis among students. WDPH distributed assessment tools to the local health department to screen health-care workers and community contacts of the patient for exposure to potentially infectious secretions. The patient's five family members, five of 35 health-care workers, and 27 of 55 community contacts received rabies PEP, either because of exposure to the patient's saliva during sharing of beverages or food items or after contact with vomitus. No health-care workers at the tertiary care hospital required PEP. Site inspection of the church revealed no ongoing risk for exposure to bats.

Reported by: *RE Willoughby, MD, MM Rotar, Children's Hospital of Wisconsin, Milwaukee; HL Dhonau, MD, KM Ericksen, Agnesian HealthCare, Fond du Lac; DL Cappozzo, Fond du Lac County Health Dept; JJ Kazmierczak, DVM, JP Davis, MD, Wisconsin Div of Public Health. CE Rupprecht, VMD, Div of Viral and Rickettsial Diseases; AP Newman, DVM, AS Chapman, DVM, EIS officers, CDC.* Editorial Note: This case represents the sixth known occurrence of human recovery after rabies infection; however, the case is unique because the patient received no rabies prophylaxis either before or after illness onset. Historically, the mortality rate among previously unvaccinated rabies patients has been 100% (2). The five previous patients who survived were either previously vaccinated (3) or received some form of PEP before the onset of illness (4-7). As in this case, viral antigen was not detected nor was virus isolated from those patients; increased antibody titers detected in serum and CSF (inconsistent with vaccination alone) confirmed the diagnosis of clinical rabies. Only one of the five patients recovered without neurologic sequelae (4). No specific course of treatment for rabies in humans has been demonstrated to be effective, but a combination of treatments, which might include rabies vaccine, rabies immune globulin, monoclonal antibodies, ribavirin, interferon-alpha, or ketamine, has been proposed (2). Given the lack of therapeutic utility observed to date, and because the patient had rabies-virus-neutralizing antibodies on diagnosis, a decision was made to avoid use of immunemodulators (e.g., rabies vaccine, rabies immune globulin, or interferon). However, the particular benefits of the regimen received by this patient remain to be determined.

The history of a bat bite 1 month before this patient's illness suggests an etiology of bat-associated rabies-virus variant. This is consistent with the epidemiologic pattern of rabies in humans in the United States during the preceding 2 decades. During 1980–2000, a total of 26 (74%) of rabies-virus variants obtained from patients in the United States were associated with insectivorous bats, most commonly silver-haired and eastern pipistrelle bats (8,9), including a variant from a fatal case of rabies reported in Wisconsin in 2000 (10).

In this case, only five health-care workers received PEP. Previous reports of rabies cases have noted large numbers of contacts being treated (8); however, delivery of health care to a patient with rabies is not an indication for PEP unless the mucuous membranes or open wound of a health-care worker are contaminated by infectious material (e.g., saliva, tears, CSF, or neurologic tissue). Adherence to standard precautions for infection control will minimize the risk for exposure (1).

Rabies in humans is preventable with proper wound care and timely and appropriate administration of PEP before onset of clinical disease (1). PEP is recommended for all persons with a bite, scratch, or mucous-membrane exposure to a bat, unless the bat tests negative for rabies. When direct contact between a human and a bat has occurred and the animal is not available for testing, PEP should be administered when a strong probability of exposure exists. However, if a bat bite is unrecognized or if the significance of exposure is underestimated, medical intervention might not be sought and appropriate treatment not administered. Once clinical signs of rabies are evident, a progressive and usually fatal encephalitis ensues.

This report underscores the need for increasing public awareness to minimize the risk for rabies following contact with bats and other wildlife. Persons bitten by a potentially rabid animal should immediately 1) wash the wound thoroughly with soap and water, 2) capture the animal (if this can be done safely by avoiding direct contact) and submit it for testing or quarantine, 3) contact local or state public health officials, and 4) visit a physician for treatment and evaluation regarding the need for PEP. Persons should not handle or keep bats as pets and should keep bats away from living quarters and public places. Despite the recovery of this patient, no proven therapy for clinical rabies has been established, and the reasons for recovery in this case are unknown. Clinicians and the public should recognize the risk for contracting rabies from any direct contact with bats and not regard it as a curable disease on the basis of the outcome of this case.

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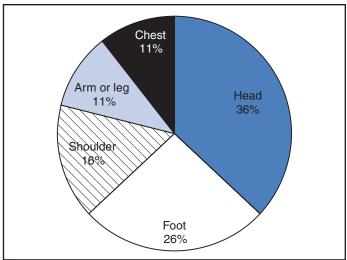
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New Year's Eve Injuries Caused by Celebratory Gunfire — Puerto Rico, 2003

Bullets fired into the air during celebrations fall with sufficient force to cause injury and death (1). However, few data exist regarding the epidemiology of injuries related to celebratory gunfire. In Puerto Rico, where such celebratory actions are common, news media reports have indicated that approximately two persons die and an estimated 25 more are injured each year from celebratory gunfire on New Year's Eve. The Puerto Rico Department of Health (PRDOH) invited CDC and local law enforcement agencies to assist in the investigation of injuries resulting from celebratory gunfire that occurred during December 31, 2003-January 1, 2004. This report summarizes the findings of that investigation, which determined that 1) bullets from probable celebratory gunfire caused 19 injuries, including one death and 2) such injuries affected a higher percentage of women and children aged <15 years than injuries from noncelebratory gunfire, with the majority occurring in certain public housing areas in densely populated, metropolitan San Juan. Education and enforcement of existing laws are needed to prevent these injuries.

A probable celebratory gunfire injury was defined as an unintentional firearm injury (International Classification of Diseases, Tenth Revision codes W32-W34 [2]) inflicted outdoors by an unidentified assailant during the 48-hour period beginning 12 a.m., December 31, 2003, and ending 11:59 p.m., January 1, 2004. Available information regarding the injury or event had to be consistent with the return trajectory of a bullet fired into the air. Cases were identified from newspaper and law enforcement reports and hospital and medical examiner records. For persons who sustained injuries from celebratory gunfire, information was collected on age, sex, time of injury, injury severity, body location of injury, and geographic location where the injury occurred. Age and sex information were also collected for persons who sustained injuries from noncelebratory gunfire that occurred during the study period.

During the 2-day period, 43 persons were injured by gunfire. Of these injuries, 28 (65%) were identified as unintentional; 19 (68%) of those met the case definition for probable celebratory gunfire injuries. Median age of the 19 persons injured from celebratory gunfire was 24 years (range: 4 months–82 years); 12 (63%) were male. Four (21%) persons were hospitalized, including one who died from a head injury. The most common body location for injury from celebratory gunfire was the head (36%), followed by foot (26%) and shoulder (16%) (Figure 1). FIGURE 1. Celebratory gunfire injuries, by body location — Puerto Rico, December 31, 2003–January 1, 2004



Of the 19 injuries, 18 (95%) occurred in metropolitan San Juan; 14 (78%) occurred among persons in 10 of the city's 51 public housing areas. Four public housing areas accounted for eight (42%) cases. Eight (42%) injuries occurred during 6 p.m.–10 p.m. on December 31, 2003, and nine (47%) injuries occurred between 10 p.m. on December 31, 2003, and 2 a.m. on January 1, 2004.

The sex and age of the 19 persons with a probable celebratory gunfire injury were compared with the sex and age of 24 other persons with a noncelebratory gunfire injury. Seven (37%) persons who sustained injuries from celebratory gunfire were female, compared with three (13%) females among 24 persons with injuries from noncelebratory gunfire. Four (21%) persons who sustained injuries from celebratory gunfire were children aged <15 years; no injuries from noncelebratory gunfire occurred among this age group (Figure 2).

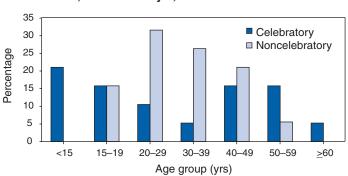


FIGURE 2. Percentage of persons injured by celebratory and noncelebratory gunfire, by age group — Puerto Rico, December 31, 2003–January 1, 2004

Reported by: I Rodriguez, MS, B Mirabal-Colon, MD, Center for Hispanic Youth Violence Prevention, School of Medicine, Univ of Puerto Rico, San Juan; J Alonso-Echanove, MD, C Rodriguez, MS, J Rullan, MD, Puerto Rico Dept of Health. A Crosby, MD, I Arias, PhD, Div of Violence Prevention, National Center for Injury Prevention and Control; F Alvarado-Ramy, MD, Epidemiology Program Office; V Balaban, PhD, B Cauthen, MD, EIS officers, CDC.

Editorial Note: When fired into the air, bullets can return to the ground at speeds greater than 200 ft./sec., a sufficient force to penetrate the human skull and cause serious injury or death (1). News media reports from around the world suggest that celebratory gunfire injuries might be a widespread public health problem; however, further data are needed to determine the extent of the problem. The data presented in this report indicate that bullets from probable celebratory gunfire caused 19 injuries, including one death, during December 31, 2003-January 1, 2004, in Puerto Rico. These injuries primarily occurred at midnight on December 31 in a limited number of public housing areas. Celebratory gunfire injuries affected a high percentage of children and females, populations not typically at high risk for such injuries. These findings are consistent with a previous study of celebratory gunfire injuries in a metropolitan area (1).

Firearm-related injuries are a significant public health concern in Puerto Rico. In 2001, a total of 738 deaths were attributed to firearm injuries, a rate of 19.2 per 100,000 population, which is substantially higher than the U.S. national rate (10.4) and higher than the rates for all U.S. states (3). The celebratory gunfire injuries described in this report represent a small but preventable proportion of firearm injuries in Puerto Rico.

The findings in this report are subject to at least three limitations. First, no standards exist for defining cases of celebratory gunfire injuries. For example, the "lost bullet" classification used by Puerto Rico law enforcement does not differentiate between falling bullets and stray bullets. The data sources used in this study were not developed for identifying celebratory gunfire injuries and provided limited context information, preventing definitive confirmation of falling bullet trajectory for some injuries. In addition, law enforcement records did not record injury severity, and not all medical records contained adequate information to determine injury severity; therefore, injury severity was not analyzed. Second, the lack of electronic databases containing records for previous years limited evaluation of possible trends. Finally, no information was available regarding persons who used firearms, and no direct information was available from victims and witnesses, who might have provided information about the circumstances of the injuries.

To limit celebratory gunfire, in 2002, the Puerto Rico legislature increased penalties for reckless discharge of firearms. In addition, previous prevention efforts by PRDOH included a public awareness campaign advising residents to remain indoors from 11 p.m. on New Year's Eve to 2 a.m. on New Year's Day (J. Alonso, MD, PRDOH, personal communication, 2004). PRDOH, in collaboration with local law enforcement and the Puerto Rico Departments of Family, Housing, and Education, is participating in a multi-agency prevention effort for New Year's Eve 2004 to reduce celebratory gunfire injuries.

On the basis of this study, investigators made several recommendations to the Puerto Rico Ministry of Health. First, existing laws against celebratory gunfire should be actively enforced. Second, PRDOH, in collaboration with community leaders of public housing areas, should develop a campaign focused on changing attitudes and behaviors toward celebratory gunfire in these areas. Third, to minimize the risk for injury from celebratory gunfire, residents should remain indoors from 6 p.m. on New Year's Eve to 2 a.m. on New Year's Day. Finally, to more accurately monitor these and other injuries over time, an emergency department–based injury surveillance system should be implemented.

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Survey of Airport Smoking Policies — United States, 2002

Exposure to secondhand smoke (SHS) causes approximately 38,000 deaths among nonsmokers each year in the United States (1,2). The Task Force on Community Preventive Services has documented strong scientific evidence that smoking bans and restrictions are effective in reducing exposure to SHS (3). In 2002, an estimated 1.9 million workers had jobs at U.S. airports, and more than 1.9 million passengers per day passed through these airports (4). During the fall of 2002, the Center for Health Promotion and Disease Prevention at the Henry Ford Health System (Detroit, Michigan) conducted

the Airport Smoking Policy Survey. This report summarizes the key findings from that survey, which indicated that 61.9% of airports reported being smoke-free in 2002 and that larger airports, which account for the majority of passenger boardings, were less likely than smaller airports to have a smoke-free policy. Increased adoption and enforcement of smoke-free policies are needed to protect the health of workers and travelers at U.S. airports.

During September–November 2002, a cross-sectional telephone survey was conducted with appropriate personnel at primary commercial-service airports. Primary commercialservice airports are defined as airports having more than 10,000 passenger boardings per year. These airports receive hub size designations (i.e., large hub, medium hub, small hub, and nonhub) from the Federal Aviation Administration (FAA) based on the percentage share of total U.S. passenger boardings an airport accounted for during the previous calendar year (5). Large hubs account for at least 1% of total passenger boardings by scheduled air carriers in the 50 states, the District of Columbia, and other U.S. areas designated by FAA; medium hubs account for 0.99%–0.25%; small hubs account for 0.249%–0.05%; and nonhubs account for less than 0.05% but more than 10,000 boardings annually.

Using 2001 FAA passenger boarding data, the survey targeted all large- (n = 31), medium- (n = 35), and small-hub (n = 71) airports and a simple random sample of nonhub airports (64 of 282). Large-hub, medium-hub, small-hub, and nonhub airports accounted for 69.3%, 19.8%, 7.6%, and 3.2%, respectively, of all U.S. passenger boardings in 2001 (5). The survey collected information on the locations (if any) where smoking was allowed at the airport; whether designated smoking areas were enclosed or physically separated from the rest of the airport and whether they had a separate ventilation system; whether airports required smokers to be a minimal distance from airport entrances while smoking outside airport buildings; and methods by which the no-smoking message was communicated to employees, passengers, and visitors at the airport (i.e., written policies, signage, or announcements on the public address system). For this study, a smoke-free airport was defined as an airport that prohibited smoking by anyone, anywhere, and at any time inside the airport. Overall, 197 (98.0%) of the targeted airports participated in the survey, including all 31 large-hub, 34 of 35 mediumhub, 69 of 71 small-hub, and 63 of 64 nonhub airports.

Survey results demonstrated airport size to be inversely related to the percentage of airports having a smoke-free policy (Table 1). Smoke-free policies were reported by 122 (61.9%) airports, including 13 (41.9%) large-hub airports, 18 (52.9%) medium-hub airports, 40 (58.0%) small-hub airports, and 51 (81.0%) nonhub airports.

Among smoke-free airports, the percentage having a written smoking policy varied by hub size, with 76.9% of largehub, 66.7% of medium-hub, 65.0% of small-hub, and 82.4% of nonhub airports having a written policy. The majority of smoke-free airports (93.4%) had signage concerning their smoke-free policy. Large-hub airports were more likely to report having public address announcements about their smoking policy than were airports of smaller hub size (Table 1).

Travelers and airport employees are also at risk for being exposed to SHS when entering, leaving, or working outside of airport buildings. The 122 smoke-free airports were more likely to have designated outdoor smoking areas (71.3%) than were the 75 non–smoke-free airports (44.0%) (Table 2). Smoke-free airports were also more likely (55.7%) than non– smoke-free airports (20.0%) to require that persons maintain a minimum distance from entrances when smoking outside airport buildings.

Reported by: ES Pevzner, MPH, Univ of North Carolina at Chapel Hill. RM Davis, MD, Center for Health Promotion and Disease

TABLE 1. Percentage of U.S. airports that are smoke-free and percentage of smoke-free airports having written policies, signage, and public address announcements to communicate the prohibition of smoking, by hub size* — United States, 2002

	A	Airports			Smoke-fre	e airports
Hub size	Total no.	<u>Smo</u> No.	<u>ke-free</u> (%)	Written policies %	Signage %	Announcements %
Large	31	13	(41.9)	76.9	92.3	84.6
Medium	34	18	(52.9)	66.7	83.3	50.0
Small	69	40	(58.0)	65.0	92.5	46.2
Nonhub	63	51	(81.0)	82.4	98.0	11.8

* Federal Aviation Administration hub-size designations are based on the percentage share of total U.S. passenger boardings an airport accounted for during the previous calendar year (5).

TABLE 2. Percentage of airports having policies regarding smoking outside of the airport, by hub size* — United States, 2002

		nated outdoor king areas	a minimum	nokers to be distance from iirport buildings
Hub size	Smoke-free airports %	Non–smoke- free airports %	Smoke-free airports %	Non–smoke- free airports %
Large	100.0	44.4	100.0	33.3
Medium	72.2	56.3	77.8	31.3
Small	80.0	34.5	65.0	10.3
Nonhub	56.9	50.0	29.4	8.3

* Federal Aviation Administration hub-size designations are based on the percentage share of total U.S. passenger boardings an airport accounted for during the previous calendar year (5). Prevention, Henry Ford Health System, Detroit, Michigan. WKY Pan, DrPH, Johns Hopkins Univ Bloomberg School of Public Health, Baltimore, Maryland. CG Husten, MD, T Pechacek, PhD, A Malarcher, PhD, Office on Smoking and Health, CDC.

Editorial Note: The results of the Airport Smoking Policy Survey indicate that travelers and employees at many U.S. airports lack adequate protection from SHS. At the time of the survey, fewer than half of large-hub airports, which service nearly 70% of all airline travelers passing through U.S. airports, were smoke-free. As a result of heightened security following the attacks of September 11, 2001, travelers and airline employees are spending more time in and around U.S. airports and might now be at greater risk for prolonged exposure. SHS is a known human carcinogen (6), and the Surgeon General has concluded that exposure to SHS causes lung cancer among persons who have never smoked (7). The workplace is a major source of SHS exposure, and workplace exposure to SHS is a key predictor of total exposure to tobacco smoke as measured by levels of cotinine, a metabolite of nicotine (2). No safe level of exposure to SHS is known. A recent study indicated that nonsmokers who spent as little as 4 hours in a well-ventilated casino that permitted smoking had significant increases in NNK [4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone], a tobacco-specific lung carcinogen (8). Moreover, low levels of exposure increase the risk for acute myocardial infarction and coronary heart disease (9). Therefore, airport employees and travelers, like employees and patrons at any workplace that permits smoking, are at elevated risk for death and disease caused by SHS (10).

Public health authorities recommend that smoking be prohibited in all indoor environments. Smoking lounges and designated smoking areas do not provide sufficient protection because tobacco smoke drifts from smoking to no-smoking areas and smoke-contaminated air is recirculated through a common ventilation system in most buildings where smoking is allowed. When smoking is permitted indoors, authorities recommend that it be confined to a designated area that is separately ventilated and physically separated from adjacent no-smoking areas (*10*).

The findings in this report are subject to at least four limitations. First, the data are based on self-reports of survey participants. However, whenever possible, the survey interviewer spoke with airport personnel who were in the best position to answer the questions in the survey, and follow-up telephone contacts were made whenever necessary to maximize the accuracy and completeness of the information collected. Second, not all medium-, small-, and nonhub airports responded to the survey. However, because nonresponse rates were low (2.9%, 2.8%, and 1.6% for medium-, small-, and nonhub airports, respectively), this potential bias was minimal. Third, the study did not measure the level of tobacco-smoke constituents within the airport environments. Finally, the study did not measure compliance with or enforcement of smokefree airport policies, and the results might underestimate potential exposure to SHS. Poor compliance with or failure to publicize and enforce smoke-free airport policies would provide little if any protection from SHS exposure among travelers and airport employees. Further studies are needed to assess compliance with and enforcement of smoke-free airport policies to verify the elimination of SHS at "smoke-free" airports.

Since the Airport Smoking Policy Survey was completed in November 2002, Connecticut, Delaware, Maine, Massachusetts, and New York have joined California in adopting statewide legislation requiring all workplaces (including restaurants and bars) to be smoke-free. The adoption of smoke-free workplace legislation in these states means that eight additional airports (two large-hub, two medium-hub, and four smallhub airports) that were not smoke-free at the time the survey was conducted are now smoke-free. Several other states and localities are currently considering the adoption of smokefree workplace legislation, which would further increase the number of smoke-free airports. Nevertheless, the findings from this study demonstrate that many U.S. airports are still not smoke-free and that further efforts are needed to protect airline travelers and airport employees from exposure to SHS at U.S. airports.

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Alcohol Consumption Among Women Who Are Pregnant or Who Might Become Pregnant — United States, 2002

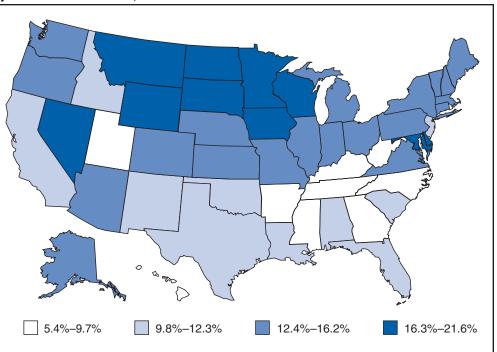
Alcohol use during pregnancy is associated with health problems that adversely affect the mother and fetus (1,2); no level of alcohol consumption during pregnancy has been determined safe (3). Fetal alcohol syndrome (FAS) is recognized as the foremost preventable condition involving neurobehavioral and developmental abnormalities (1). Women who drink during pregnancy place themselves at risk for having a child with FAS or fetal alcohol spectrum disorders (FASD) (4). To determine the alcohol consumption patterns among all women of childbearing age, including those who are pregnant or might become pregnant, CDC analyzed data for women aged 18-44 years from the 2002 Behavioral Risk Factor Surveillance System (BRFSS) survey (5). The results of that analysis indicated that approximately 10% of pregnant women used alcohol, and approximately 2% engaged in binge drinking or frequent use of alcohol. The results further indicated that more than half of women who did not use birth control (and therefore might become pregnant) reported alcohol use and 12.4% reported binge drinking. Women who are pregnant or who might become pregnant should abstain from alcohol use (3).

CDC monitors the prevalence of alcohol use among women of childbearing age through BRFSS. In 2002, with the inclusion of a family planning module in the BRFSS survey, information became available to assess the alcohol consumption patterns among pregnant women and also among women who might become pregnant. BRFSS is a monthly, state-based, random-digit-dialed telephone survey of the U.S. civilian, noninstitutionalized population aged \geq 18 years in all 50 states, the District of Columbia, and three U.S. territories (5). In 2002, the median state/area response rate was 58.3% (range: 42.2%-82.6%). For 2002, a total of 64,181 women aged 18-44 years were included as the general population of childbearing-aged women. Participants were asked about their use of alcohol during the 30 days preceding the interview. Alcohol usage questions included the number of days per week or month the respondents had at least one drink, the average number of drinks consumed on a drinking day, the number of times the respondents had five or more drinks per occasion, and the number of times they drove when they had "perhaps too much to drink." The following alcohol consumption patterns were assessed: any use (at least one drink on one occasion), binge drinking (five or more drinks on one occasion), and frequent drinking (seven or more drinks in a week or binge drinking). In addition, women were asked whether they or their partners were doing anything to prevent pregnancy. Reasons were collected from women who responded that they or their sex partners were not doing anything to prevent pregnancy.

For this analysis, 4,404 women who might become pregnant were defined as those who were not using any type of birth control and provided one of the following reasons: wanted a pregnancy (52.4%), did not care whether pregnancy occurred (19.1%), did not think they would become pregnant (14.3%), did not want to use birth control (5.7%), feared the side effects of birth control (4.2%), thought they were too old to become pregnant (1.8%), could not pay for birth control (1.3%), or had lapsed in use of a method (1.2%). Excluded from this defined category were women who were not sexually active, had a same-sex partner, had no sex partner, had undergone sterilization or hysterectomy, were postpartum breastfeeding, were currently pregnant, had other unspecified reasons for not using birth control, or did not provide any reason. Prevalences for alcohol consumption patterns were calculated for women who were pregnant, those who might become pregnant, and women of childbearing age overall.

A total of 2,689 women reported that they were pregnant. Because of the limited number of pregnant women available in the 2002 BRFSS sample population, additional analyses were performed by focusing only on the demographic characteristics of women who might become pregnant and who engaged in binge drinking. To obtain appropriate statistics, weighted data analyses were performed to reflect general population estimates (*6*), and standard errors were calculated by using statistical analysis software.

The 2,689 women who reported that they were pregnant and the 4,404 women who might become pregnant represented populationweighted estimates of 4.7% and 7.6%, respectively. Among those who reported not using birth control, 52.4% said that they wanted to become pregnant. The prevalence of binge drinking was 12.4%, both for childbearing-aged women overall and for those who might become pregnant, and 1.9% for pregnant women (Table 1). The prevalence of frequent drinking was 13.2% for childbearing-aged women overall, 13.1% for women who might become pregnant, and 1.9% for pregnant women. The prevalence of any use of alcohol was 52.6% for the childbearing-aged population overall, 54.9% for women who might become pregnant, and 10.1% for pregnant women (Table 1). Binge drinking prevalences for childbearing-aged women overall varied



* Estimated prevalence population weighted to represent U.S. women aged 18–44 years (U.S. average: 12.4%; state range: 5.4%–21.6%). ⁺ Five or more drinks on any one occasion.

among participating states, ranging from 21.6% in Wisconsin (95% confidence interval [CI] = 18.8%-24.8%) to 5.4% in Kentucky (CI = 3.8%-7.5%) (Figure).

To generate odds ratios for the risk of binge drinking among women with selected characteristics, additional analyses using logistic regression were conducted for women who might

TABLE 1. Prevalence* of alcohol consumption among childbearing-aged women $(18-44 \text{ years})^{\dagger}$, by drinking pattern and pregnancy status — United States, 2002

Pregnancy status	Drinking pattern [§]	%	(95% CI¹)
Pregnant	Binge**	1.9	(1.3–2.8)
	Frequent use ^{††}	1.9	(1.3-2.8)
	Any use	10.1	(8.4–12.1)
Might become pregnant	Binge	12.4	(11.0–14.1)
	Frequent use	13.1	(11.6–14.8)
	Any use	54.9	(52.4–57.4)
All respondents	Binge	12.4	(12.0–12.9)
	Frequent use	13.2	(12.7–13.6)
	Any use	52.6	(51.9–53.3)

* Estimated prevalence population weighted to represent U.S. women aged 18–44 years.

[†] A total of 64,181 women, including 2,689 who were pregnant and 4,404 who might become pregnant.

§ Categories are not mutually exclusive.

[¶] Confidence interval.

** Five or more drinks on one occasion.

^{††} Seven or more drinks per week or binge drinking.

FIGURE. Prevalence* of binge[†] drinking among childbearing-aged women (18–44 years), by state — United States, 2002

become pregnant (Table 2). Greater binge-drinking prevalence was observed among younger women, non-Hispanic whites, current smokers, unmarried women, and impaired drivers. These populations also reported more binge-drinking episodes per person per year than did their reference populations (Table 2).

Reported by: J Tsai, MD, RL Floyd, DSN, Div of Birth Defects and Developmental Disabilities, National Center on Birth Defects and Developmental Disabilities, CDC.

Editorial Note: The 2002 BRFSS survey provided an opportunity to monitor alcohol consumption among women of childbearing age, including those who were pregnant and, for the first time at the national level, those who might become pregnant. The results of this analysis indicated that the prevalences of alcohol use among women who might become pregnant were similar to those for childbearing-aged women overall. In addition, the prevalences for childbearing-aged women overall and those who were pregnant were similar to those reported previously (7). The findings indicated that more than half of women who might become pregnant reported drinking alcohol, including 12.4% who reported binge drinking and, therefore, were at particular risk for an alcoholexposed pregnancy (8). A dose-response relation has been

	Binge drinking			Episodes/person/ye	ear
Characteristic	%	OR§	(95% CI [¶])	No.	(95% CI)
Age group (yrs)					
18–24	19.4	2.5	(1.6–4.0)	8.0	(4.6-11.5)
25–34	13.1	1.6	(1.2–2.2)	4.0	(2.9–5.0)
35–44	8.6	1.0	(ref)**	3.0	(1.8-4.2)
Race/Ethnicity					
White, non-Hispanic	15.0	2.3	(1.7–3.3)	5.0	(4.0-6.2)
Nonwhite or Hispanic	7.0	1.0	(ref)	2.2	(1.4–3.0)
Education					
Less than a college degree	13.3	1.2	(0.9–1.7)	4.9	(3.7-6.1)
College degree	11.1	1.0	(ref)	3.1	(1.9-4.3)
Current smoker					
Yes	25.2	3.8	(2.8–5.1)	9.6	(7.0-12.1)
No	8.1	1.0	(ref)	2.5	(1.8–3.2)
Married					
Yes	10.3	1.0	(ref)	3.0	(2.2–3.8)
No	19.6	2.1	(1.5–2.9)	8.5	(5.9–11.0)
Annual income					
<\$25,000	11.2	0.8	(0.5–1.3)	4.6	(2.2–7.0)
<u>≥</u> \$25,000	13.3	1.0	(ref)	4.4	(3.5–5.5)
Employment					
Yes	13.5	1.3	(1.0–1.8)	5.0	(3.8–6.2)
No	10.3	1.0	(ref)	2.6	(1.8–3.5)
Impaired driver ^{††}					
Yes	90.7	78.1	(30.1–202.6)	52.9	(30.8–75.1)
No	11.1	1.0	(ref)	3.5	(2.6-4.2)
Health coverage ^{§§}					
Yes	11.7	1.0	(ref)	3.7	(2.8-4.6)
No	15.9	1.4	(1.0-2.0)	7.2	(4.3-10.0)

TABLE 2. Prevalence* of binge[†] drinking and number of binge episodes per person among women aged 18–44 years who might become pregnant, by selected characteristics — United States, 2002

* Estimated prevalence population weighted to represent U.S. women aged 18-44 years who might become pregnant.

[†] Five or more drinks on any one occasion.

§ Odds ratio.

[¶] Confidence interval.

** Reference value.

^{††} Based on response to the question: Driven when had perhaps too much to drink?

§§ Based on response to the question: Have any health coverage, including health insurance, HMO, or Medicare?

observed between prenatal alcohol consumption and dysmorphic brain development in the fetus as early as 3-6 weeks' gestation (2), a period during which the majority of women might not know they are pregnant. Further studies have determined that alcohol consumption can be associated with prenatal growth delays and neurodevelopmental insults throughout the entire pregnancy (8).

The findings in this report are subject to at least two limitations. First, because data were self-reported, they are subject to recall bias (5). Second, only women who reported they were not using birth control were counted as women who might become pregnant. Women using ineffective birth control methods were not included, although they might become pregnant because of improper usage or failure of a method.

These findings signal the need for continued efforts to inform all women of childbearing age about the adverse effects of alcohol on pregnancy, and to identify and intervene with those women at higher risk for alcohol-exposed pregnancy (9). Providing primary-care screening of childbearing-aged women for alcohol use and risk for pregnancy and initiating intervention when appropriate is essential for prevention of FAS or FASD (10).

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Brief Report

Investigation of a Home with Extremely Elevated Carbon Dioxide Levels — West Virginia, December 2003

Investigations of indoor air quality complaints typically focus on mold, water damage, ventilation systems, and combustion byproducts and are guided by the nature of the symptoms observed in affected persons. This report documents the investigation of exposures at a home in which the occupants had unusual respiratory and neurologic symptoms.

Case Report and Initial Investigations

In June 2001, a man and a woman, both of whom were smokers, previously healthy, and aged 42 years, moved into a newly built, two-story home. Shortly after moving in, the woman noted episodic shortness of breath, lightheadedness, dizziness, and fatigue while in the finished basement. The man reported episodic mild confusion, poor concentration, headache, and blurry vision while working in the basement. Their symptoms always resolved within minutes of returning upstairs.

The natural gas water-heater pilot light located in the basement recurrently went out; however, gas company and fire department inspections did not reveal gas leaks, methane, or carbon monoxide (CO). In July 2003, the woman went to a hospital emergency department (ED) on two consecutive mornings with shortness of breath, rapid heart rate, and panic. She was admitted and had new asthma diagnosed, as well as a cardiomyopathy (35% cardiac ejection fraction) attributed to a 1997 varicella infection. However, her basement-related symptoms persisted despite newly prescribed cardiac and respiratory medications.

In October 2003, the man entered a 30- by 70- by 3-foot crawlspace adjacent to the finished basement for a 3-hour period to investigate potential gas leaks. He reported feeling breathless and felt a "strong gush" of air when he opened an access door to the below-grade crawlspace, and later noted hoarseness. In November 2003, the man and a hired contractor became breathless after they entered the crawlspace. That day, another fire department inspection indicated negative readings for CO and methane in the basement. Four hours later, the man went to a hospital ED with rapid respiration and a burning sensation in his eyes. He had a mildly elevated carboxyhemoglobin level (6%) and was discharged with a diagnosis of acute CO exposure (1)*.

In December 2003, two contractors had onset of hoarseness and rapid heart rate while at the crawlspace entrance. One man reported a metallic taste. The fire department responded and, on arrival, the first firefighter felt a strong draft at the crawlspace entrance that "took his breath away." Levels of CO, methane, and other explosive gases were below limits of detection. The fire department then called the county Hazardous Materials Incident Response Team (HMIRT).

HMIRT found low oxygen (O_2) levels in the basement and called the West Virginia Department of Environmental Protection (WVDEP) to investigate further. The WVDEP field investigator documented O_2 concentrations as low as 14% in the crawlspace (normal air: 21%). Suspecting that carbon dioxide (CO₂), a colorless and odorless gas, had displaced the oxygen, WVDEP requested technical assistance from CDC's National Institute for Occupational Safety and Health (NIOSH) to measure CO₂ concentrations and, if levels were elevated, to help identify CO₂ sources and recommend control strategies. NIOSH assisted WVDEP with CO₂ sampling, contacted the county and state health departments, and assisted with interviewing the homeowners and reviewing relevant records.

CO, Sampling and Monitoring

A direct-reading, high-concentration CO_2 monitor (detection range up to 50% CO_2) was used for short-term sampling and continuous monitoring. WVDEP documented CO_2 concentrations as high as 9.5% in the basement crawlspace, 11% in the crawlspace gravel, and 12% in the basement floor drain (normal air: 0.035% CO_2). CO_2 levels on the upper floors exceeded the upper limit of detection (1%) of a standard CO_2 monitor. CO_2 levels in the soil surrounding the home were as high as 8%. Basement CO_2 levels remained elevated, regardless of whether the furnace was operating. The NIOSH Recommended Exposure Limit for CO_2 in workplaces is 0.5% (5,000 ppm) for a 40-hour workweek and 3.0% for a

^{*} Blood carboxyhemoglobin levels of smokers might be higher than those of nonsmokers. In smokers, levels commonly reach 10% and can exceed 15%, compared with 1%–3% in nonsmokers.

15-minute short-term exposure limit; a level of 4.0% is designated as "immediately dangerous to life or health" (2).

Carbon isotopic composition analysis of air samples indicated a carbonate source of the excess CO_2 in the home, likely from mining (3). Mine maps confirmed that the home was built on a reclaimed surface coal mine and that an abandoned deep coal mine lay beneath the property. Renovations to the crawlspace redirected and limited ground CO_2 infiltration into the home. CO_2 concentrations have decreased to a maximum of 0.2% measured in the basement; O_2 concentrations have returned to normal, and related symptoms in the homeowners have resolved. Whether any neighboring homes were at risk for elevated CO_2 concentrations was unknown.

The results of this investigation underscore the need for heightened public awareness and special training for emergency response and utility workers, careful environmental measurements to assess potential risks, and precautions to avoid incapacitation and prepare for rescue during immediately dangerous conditions. Building codes that mandate preventive construction, including sealing cracks, maintaining positive pressure within the structure, and subsurface ventilation for new buildings over landfills, caves, and abandoned mines might also be appropriate public health actions.

Reported by: K Kreiss, MD, CY Rao, ScD, JM Harrison, MS, Div of Respiratory Disease Studies, National Institute for Occupational Safety and Health; SC Kaydos-Daniels, PhD, LG Benaise, MD, EIS officers, CDC.

Acknowledgments

The findings in this report are based, in part, on contributions by JA Moore, West Virginia Dept of Environmental Protection. T Jefferson, National Institute for Occupational Safety and Health, CDC.

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Brief Report

Acute Illness from Dry Ice Exposure During Hurricane Ivan — Alabama, 2004

Natural disasters such as hurricanes often impair delivery of essential services, including electricity. When normal refrigeration methods are unavailable, affected populations seek alternative means of protecting perishable foodstuffs. One alternative is to use frozen carbon dioxide (CO_2) (i.e., dry ice).

In September 2004, in anticipation of a power outage during the aftermath of Hurricane Ivan, a man aged 34 years in Mobile, Alabama, purchased a 100-lb block of dry ice from a local ice house. The block of dry ice was divided into four equal parts and packaged in brown paper bags, which were placed in the front seat of the man's pickup truck. The windows were closed, and the air conditioner was set to recirculate air inside the cab of the truck. After driving approximately one quarter mile from the ice house, the man had shortness of breath; his breathing difficulty increased as he drove the next mile. The man telephoned his wife and asked her to call 911. He then pulled his truck into a parking lot, parked, and lost consciousness. His wife drove to the parking lot and located her husband's truck; immediately after she opened the door to the vehicle, her husband began to awaken.

Emergency medical services personnel arrived soon afterward. They determined that the man's vital signs were normal and he required no further medical evaluation. Although the man complained of a headache for the next 24 hours, he recovered completely.

Dry ice has a temperature of -109.3°F (-78.5°C) and can be used to keep perishable foods cold (1). As dry ice melts, it undergoes sublimation (i.e., direct conversion from a solid into gaseous CO_2 , bypassing the liquid state). Improper ventilation during use, transport, or storage of dry ice can lead to inhalation of large concentrations of CO_2 with subsequent harmful effects, including death (1,2). Previous reports have described illness and death caused by occupational exposures and unintentional nonoccupational exposures to dry ice in enclosed spaces such as automobiles and submarines (1,2).

Under normal conditions at ambient temperature, CO_2 is a colorless, odorless gas and a simple asphyxiant that displaces oxygen when inhaled. As the inhaled concentration of CO_2 increases, more oxygen is displaced from the lung alveoli, where gas exchange takes place. The central nervous system (CNS) tightly regulates dissolved CO_2 in the blood; changes in the partial pressure of CO_2 cause changes in the respiratory rate. An increase in CO_2 concentrations triggers an increase in respiratory rate, causing further uptake of CO_2 , which can ultimately lead to signs and symptoms of hypoxia and hypoxemia, including headache, confusion, disorientation, and death. Respiratory and CNS changes can occur within seconds of exposure to high levels of CO_2 , suggesting that the toxicity of CO_2 might be related to systemic effects that are not fully understood. Because CO_2 is colorless and odorless, persons who transport, use, and store dry ice must be educated about its potential dangers. Dry ice should be kept in small quantities in an insulated "cold box" or similar transport medium that is maintained at (-94.0°F (-70.0°C) or in an open, well-ventilated space (3). Persons with signs or symptoms of illness while exposed to dry ice should be moved to an area with fresh air and provided with supplemental oxygen. Usually, the long-term outcome for patients with mild-to-moderate CO_2 poisoning is excellent.

In the case described in this report, the man did not receive any warnings from the ice house regarding the potential danger of CO_2 exposure from dry ice. If the air conditioner had not been set to recirculate air inside the cab of the truck, the CO_2 poisoning symptoms might not have occurred. In addition, placing the ice in the bed of the man's truck would have reduced exposure.

Reported by: M Tucker, B Eichold II, MD, DrPH, K Micher, MS, Mobile County Health Dept; JP Lofgren, MD, Alabama Dept of Public Health. J Schier, MD, M Belson, MD, M Patel, MD, C Rubin, Div of Environmental Hazards and Health Effects, National Center for Environmental Health, CDC.

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Updated Interim Influenza Vaccination Recommendations — 2004–05 Influenza Season

On October 5, 2004, CDC was notified by Chiron Corporation that none of its inactivated influenza vaccine (Fluvirin[®]) would be available for distribution in the United States for the 2004–05 influenza season. At that time, CDC, in coordination with the Advisory Committee on Immunization Practices (ACIP), issued interim recommendations to direct available inactivated influenza vaccine to persons in certain priority groups. CDC has been working with Aventis Pasteur, Inc., to distribute the remaining supply of its inactivated influenza vaccine Fluzone[®] so that it reaches persons in the priority groups established on October 5. In addition, on December 7, the U.S. Department of Health and Human Services announced that up to 4 million doses of the GlaxoSmithKline influenza vaccine Fluzarix[®], authorized for use by the Food and Drug Administration under an Investigational New Drug (IND) application, would be available to help alleviate the influenza vaccine shortage this season.

The primary goal of the annual influenza vaccination recommendations by CDC and ACIP is to reduce the risk for complications from influenza among persons who are most vulnerable. This year, the reduced national supply of inactivated influenza vaccine led CDC and ACIP to issue interim influenza vaccination recommendations that were more restrictive than usual. Since the interim recommendations were issued on October 5, the influenza vaccine supply and demand situation has continued to evolve in the United States such that some, but not all, local areas appear to have adequate supplies to meet the demand for vaccine from persons in the interim priority groups. This has resulted in unused vaccine in some areas of the country.

Influenza disease activity in the United States has remained relatively low but is expected to increase during the weeks ahead. In addition, influenza vaccination coverage among this season's interim priority groups is lower than it has been in recent influenza seasons. Given these considerations, CDC recommends that aggressive efforts should continue to reach unvaccinated persons in high-risk priority groups and use available vaccine to vaccinate such persons. Adequate time remains for persons in these priority groups to receive the benefits of vaccination before influenza begins to widely circulate in most communities. CDC will continue to allocate available vaccine to states that have insufficient supplies of vaccine to reach these priority groups.

In addition to these ongoing activities, in coordination with ACIP, CDC is issuing updated interim recommendations for influenza vaccination during the 2004-05 season. If the locally available supply is sufficient to meet the local demand for vaccine from persons listed below under the heading, Priority Groups for Inactivated Influenza Vaccination, vaccination may expand to also include persons listed below under the heading, Additional Priority Groups for Inactivated Influenza Vaccination in Areas of Sufficient Supply. Decisions to expand priority groups are left to the discretion of state and local health departments. Vaccine providers and health departments with vaccine should aggressively reach out to vaccinate persons in the priority groups established on October 5. These persons include those at highest risk for complications from influenza and health-care professionals caring for persons at high risk, and should remain a focus even where vaccine supplies are sufficient to support expansion to other groups.

These recommendations were formally approved by ACIP on December 17, 2004, to take effect on January 3, 2005. Implementation is being delayed to allow extra time for vaccine to reach the initial priority groups and to allow time for state and local health departments to prepare for increased requests for vaccination.

Priority Groups for Inactivated Influenza Vaccination*

Inactivated influenza vaccine is recommended for persons in the following priority groups:

- all children aged 6–23 months;
- adults aged ≥ 65 years;
- persons aged 2–64 years with underlying chronic medical conditions;
- all women who will be pregnant during the influenza season;
- residents of nursing homes and long-term-care facilities;
- children aged 2–18 years on chronic aspirin therapy;
- health-care workers involved in direct patient care; and
- out-of-home caregivers and household contacts of children aged <6 months.

Additional Priority Groups for Inactivated Influenza Vaccination in Areas of Sufficient Supply*

Where supply is sufficient, inactivated influenza vaccine also is recommended for persons in the following additional priority groups:

- out-of-home caregivers and household contacts of persons in high-risk groups (e.g., persons aged ≥65 years; persons with chronic conditions such as diabetes, heart or lung disease, or weakened immune systems because of illness or medication; and children aged <2 years); and
- all adults aged 50-64 years.

Use of Live, Attenuated Influenza Vaccination

Intranasally administered, live, attenuated influenza vaccine, if available, should be encouraged for all healthy persons who are aged 5–49 years and are not pregnant, especially health-care workers and out-of-home caregivers and household

contacts of persons in high-risk groups (e.g., persons aged ≥ 65 years; persons with chronic conditions such as diabetes, heart or lung disease, or weakened immune systems because of illness or medication; and children aged <2 years).

However, health-care workers who care for severely immunocompromised patients in special care units should receive the inactivated vaccine.

Other Vaccination Recommendations

Persons in the priority groups identified above should be encouraged to search locally for vaccine if their regular healthcare provider does not have vaccine available.

Children aged <9 years require 2 doses of vaccine if they have not previously been vaccinated. All children who are at high risk for complications from influenza, including those aged 6–23 months, should be vaccinated with a first or second dose, depending on vaccination status. However, doses should not be held in reserve to ensure that 2 doses will be available. Instead, available vaccine should be used to vaccinate persons in priority groups on a first-come, first-serve basis.

Vaccination of Persons in Nonpriority Groups

Persons who are not included in one of the priority groups or additional priority groups described above should be informed about the vaccine supply situation and asked to forego or defer vaccination with inactivated influenza vaccine. Live, attenuated influenza vaccine, if available, should be encouraged for all healthy persons aged 5–49 years.

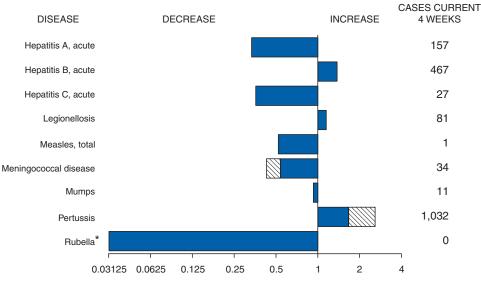
Persons Who Should Not Receive Influenza Vaccine

Persons in the following groups should not receive influenza vaccine without the recommendation of their physicians:

- persons with a severe allergy (i.e., anaphylactic allergic reaction) to hens' eggs; and
- persons who previously had onset of Guillain-Barré syndrome during the 6 weeks after receiving influenza vaccine.

^{*} Persons in groups for which the IND influenza vaccine Fluarix[®] is indicated should follow these recommendations where applicable, per FDA-approved protocol.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals December 18, 2004, with historical data



Ratio (Log scale)[†]

Beyond historical limits

* No rubella cases were reported for the current 4-week period yielding a ratio for week 50 of zero (0). † 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 December 18, 2004 (50th Week)*

	Cum. 2004	Cum. 2003		Cum. 2004	Cum. 2003
Anthrax	-	-	HIV infection, pediatric ⁺¹	149	193
Botulism:	-	-	Influenza-associated pediatric mortality**	-	NA
foodborne	19	19	Measles, total	30 ^{††}	53 ^{§§}
infant	75	71	Mumps	227	212
other (wound & unspecified)	13	30	Plague	2	1
Brucellosis [†]	115	95	Poliomyelitis, paralytic	-	-
Chancroid	39	54	Psittacosis [†]	10	12
Cholera	4	1	Q fever [†]	68	63
Cyclosporiasis [†]	210	72	Rabies, human	7	2
Diphtheria	-	1	Rubella	11	7
Ehrlichiosis:	-	-	Rubella, congenital syndrome	-	1
human granulocytic (HGE) [†]	354	319	SARS-associated coronavirus disease ^{† **}	-	8
human monocytic (HME) ⁺	309	267	Smallpox [†] [¶]	-	NA
human, other and unspecified	35	46	Staphylococcus aureus:	-	-
Encephalitis/Meningitis:	-	-	Vancomycin-intermediate (VISA)† 11	-	NA
California serogroup viral ^{†§}	91	108	Vancomycin-resistant (VRSA)† 11	1	NA
eastern equine ^{†§}	5	14	Streptococcal toxic-shock syndrome [†]	96	147
Powassan ^{†§}	-	-	Tetanus	23	18
St. Louis [†] §	8	41	Toxic-shock syndrome	117	116
western equine ^{†§}	-	-	Trichinosis	5	5
Hansen disease (leprosy) [†]	79	83	Tularemia [†]	101	83
Hantavirus pulmonary syndrome ⁺	20	23	Yellow fever	-	-
Hemolytic uremic syndrome, postdiarrheal [†]	139	163			

-: No reported cases.

Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

Not notifiable in all states. §

Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

¹ Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update November 28, 2004.

⁺⁺ Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases.

Of 30 cases reported, 14 were indigenous, and 16 were imported from another country.

§ Of 53 cases reported, 31 were indigenous, and 22 were imported from another country.

[¶] Not previously notifiable.

(50th Week)*									Encephaliti	s/Meningitis
	AID			nydia†		domycosis	Cryptosp		Wes	t Nile [§]
Reporting area	Cum. 2004 ¹¹	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	39,097	41,489	832,857	829,390	5,780	4,026	3,253	3,321	883	2,866
NEW ENGLAND Maine	1,318 48	1,433 52	28,397 2,035	26,731 1,936	- N	- N	161 20	188 20	-	31
N.H.	44	36	1,684	1,535	-	-	30	25	-	2
Vt.** Mass.	16 495	16 598	983 12,949	1,017 10,672	-	-	24 56	32 78	-	- 12
R.I. Conn.	131 584	101 630	3,266 7,480	2,866 8,705	N	- N	4 27	16 17	-	5 12
MID. ATLANTIC	9,011	9,678	103,254	103,195	-	-	523	436	17	223
Upstate N.Y. N.Y. City	1,406 4,804	978 5,200	21,841 32,194	19,282 33,472	N	N	180 113	129 124	5 2	- 57
N.J. Pa.	1,360 1,441	1,451 2,049	13,617 35,602	15,306 35,135	- N	- N	33 197	19 164	1 9	21 145
E.N. CENTRAL	3,311	3,878	142,551	150,322	13	7	932	993	64	145
Ohio Ind.	617 364	778 516	33,294 17,851	40,486 16,376	N N	N N	219 85	170 105	11 8	84 15
III.	1,559	1,708	40,010	46,039	-	-	90	98	28	30
Mich. Wis.	614 157	707 169	35,137 16,259	30,406 17,015	13	7	146 392	143 477	12 5	14 7
W.N. CENTRAL Minn.	802 206	767 160	50,824 9,444	48,874 10,226	6 N	3 N	401 130	569 148	85 13	696 48
Iowa	65	83	5,900	5,712	N	N	83	119	13	81
Mo. N. Dak.	338 18	363 3	19,633 1,403	17,607 1,540	3 N	1 N	77 12	50 12	26 2	39 94
S. Dak. Nebr.**	11 54	14 49	2,418 4,890	2,490 4,464	- 3	- 2	40 28	45 24	6 7	151 194
Kans.	110	95	7,136	6,835	Ν	Ν	31	171	18	89
S. ATLANTIC Del.	11,845 143	11,367 199	162,049 2,863	155,250 2,889	N	5 N	504	383 4	59	191 12
Md. D.C.	1,363 911	1,438 862	18,900 3,288	16,025 3,026	-	5	23 13	27 13	8 1	49 3
Va. W. Va.	615 86	848 85	20,545	18,317 2,480	N	- N	58 6	44	4	19 1
N.C.	1,080	1,042	2,684 27,492	24,319	N	N	76	49	3	16
S.C.** Ga.	709 1,558	753 1,827	18,579 27,355	13,968 34,513	-	-	15 177	9 115	12	3 27
Fla.	5,380	4,313	40,343	39,713	N	N	136	118	31	61
E.S. CENTRAL Ky.	1,833 232	1,871 199	55,295 6,241	52,706 7,633	4 N	1 N	119 44	128 24	60 1	91 11
Tenn.** Ala.	722 442	795 442	21,147 10,504	19,587 13,748	N	N	29 23	40 54	13 15	21 25
Miss.	437	435	17,403	11,738	4	1	23	10	31	34
W.S. CENTRAL Ark.	4,332 184	4,519 171	100,466 6,989	102,881 7,547	2 1	-	118 17	121 20	212 12	611 23
La. Okla.	865 202	607 203	20,808 9,532	19,675 10,555	1 N	- N	7 20	5 19	81 11	101 56
Tex.**	3,081	3,538	63,137	65,104	N	N	74	77	108	431
MOUNTAIN Mont.	1,415 6	1,441 13	47,707 2,164	46,647 2,214	3,752 N	2,375 N	163 34	134 18	232 2	871 75
Idaho Wyo.	18 18	25 6	2,555 1,053	2,366 912	N 2	N 1	27 4	27 5	2	92
Colo.	313	342	11,460	12,438	N	N	58	37	39	621
N. Mex. Ariz.	178 550	99 634	5,235 16,263	7,109 12,470	21 3,634	9 2,322	13 19	14 6	30 128	74 7
Utah Nev.	72 260	69 253	3,484 5,493	3,617 5,521	37 58	9 34	6 2	19 8	6 25	- 2
PACIFIC	5,230	6,535	142,314	142,784	2,003	1,635	332	369	154	2
Wash. Oreg.	373 282	490 242	16,917 8,155	15,943 7,168	N	N -	36 32	58 36	-	-
Calif. Alaska	4,383 56	5,688 19	109,039 3,436	110,826 3,597	2,003	1,635	262	274 1	154	2
Hawaii	136	96	4,767	5,250	-	-	2	-	-	-
Guam P.R.	2 642	5 1,024	560 3,401	574 2,580	- N	- N	N	N	-	-
V.I. Amer. Samoa	18 U	33 U	272 U	400 U	- U	- U	- U	- U	- U	- U
C.N.M.I.	2	Ŭ	32	Ŭ	-	Ŭ	-	Ŭ	-	Ŭ

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending December 18, 2004, and December 13, 2003 (50th Week)*

N: Not notifiable.

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

 * Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).
 *

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

 § Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

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

November 28, 2004.

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

MMWR

(50th Week)*							-			
		Escheri	<i>ichia coli</i> , Ente	rohemorrhagio	. ,					
			Shiga toxi	n positive,	Shiga toxii	n positive,				
		7:H7		non-0157	not sero		Giard			orrhea
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	2,378	2,530	264	238	221	148	17,612	18,397	295,951	317,097
NEW ENGLAND	161	152	42	45	17	13	1,618	1,577	6,490	6,994
Maine	11	10	1	3	-	-	126	180	210	218
N.H. Vt.	23 12	18 18	5	3	-	-	45 165	41 119	127 84	116 91
Mass.	68	66	10	9	17	13	716	822	2,990	2,786
R.I. Conn.	13 34	4 36	1 25	- 30	-	-	120 446	114 301	792 2,287	915 2,868
MID. ATLANTIC	283	241	58	23	30	35	3,658	3,679	33,241	39,448
Upstate N.Y.	122	91	43	12	14	19	1,335	1,028	6,926	7,634
N.Y. City N.J.	36 52	7 31	- 4	- 2	- 5	-	928 403	1,170 499	10,323 5,558	12,991 7,614
Pa.	73	112	11	9	11	16	992	982	10,434	11,209
E.N. CENTRAL	428	560	40	34	28	20	2,642	3,134	60,566	67,120
Ohio Ind.	98 58	131 83	9	16	20	20	780	871	17,317 6,627	21,448 6,441
III.	69	121	2	2	2	-	504	900	17,714	20,719
Mich. Wis.	80 123	90 135	11 18	1 15	6	-	666 692	755 608	14,705 4,203	13,115 5,397
W.N. CENTRAL	488	440	45	53	18	20	2,069	2,023	16,113	17,072
Minn.	112	130	20	21	1	1	791	772	2,810	3,014
Iowa Mo.	122 95	102 84	- 19	- 19	- 8	- 1	279 546	265 495	1,042 8,452	1,369 8,348
N. Dak.	15	13	-	4	7	8	23	45	90	95
S. Dak. Nebr.	33 71	28 48	2 4	4 5	-	-	73 149	83 140	285 1,008	215 1,509
Kans.	40	35	-	-	2	10	208	223	2,426	2,522
S. ATLANTIC	170	146	37	46	108	43	2,659	2,656	73,236	77,353
Del. Md.	3 20	11 17	N 5	N 3	N 5	N 1	45 132	47 115	865 7,910	1,085 7,625
D.C.	1	1	-	-	-	-	64	55	2,447	2,397
Va. W.Va.	38 3	38 5	18	13	-	-	520 45	356 49	8,020 873	8,495 813
N.C.	-	-	-	-	92	34	N	N	14,347	14,014
S.C. Ga.	7 26	4 26	- 8	- 8	-	-	64 716	136 831	9,108 12,058	8,188 17,020
Fla.	72	44	6	22	11	8	1,073	1,067	17,608	17,716
E.S. CENTRAL	100	84	3	2	9	6	345	385	23,897	26,585
Ky. Tenn.	30 31	29 35	1 2	2	6 3	6	N 157	N 180	2,698 7,959	3,410 8,160
Ala.	29	16	-	-	-	-	188	205	6,595	8,941
Miss.	10	4	-	-	-	-	-	-	6,645	6,074
W.S. CENTRAL Ark.	81 16	97 12	3 1	4	11	4	316 120	287 142	39,429 3,513	42,721 4,063
La.	4	3	-	-	2	-	52	14	9,967	11,178
Okla. Tex.	19 42	29 53	- 2	- 4	4 5	- 4	144 N	131 N	4,050 21,899	4,367 23,113
MOUNTAIN	240	312	35	27	-	7	1,476	1,554	10,483	10,003
Mont.	16	17	-	-	-	-	80	111	68	112
ldaho Wyo.	50 9	81 5	16 7	16 1	-	-	181 25	197 22	88 58	68 43
Colo.	50	66	2	4	-	7	501	448	2,515	2,732
N. Mex. Ariz.	9 27	13 38	6 N	5 N	N	N	68 173	51 240	751 3,932	1,122 3,473
Utah	52	69	3	-	-	-	328	347	538	381
Nev.	27	23	1	1	-	-	120	138	2,533	2,072
PACIFIC Wash.	427 144	498 116	1	4	-	-	2,829 394	3,102 364	32,496 2,661	29,801 2,637
Oreg.	68	100	1	3	-	-	428	395	1,225	956
Calif.	204	268	-	-	-	-	1,844	2,166	27,013	24,487
Alaska Hawaii	1 10	5 9	-	-	-	-	88 75	87 90	486 1,111	537 1,184
Guam	Ν	Ν	-	-	-	-	-	2	92	66
P.R.	3	3	-	-	-	-	142	330	252	266
V.I. Amer. Samoa	U	U	Ū	U	Ū	Ū	- U	U	80 U	86 U
C.N.M.I.	-	Ŭ	-	Ŭ	-	U	-	Ŭ	3	Ŭ

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending December 18, 2004, and December 13, 2003 (50th Week)*

MMWR

(50th Week)*							-			
				Haemophilus	<i>influenzae</i> , inv	asive			Нер	atitis
	All	ages			Age <5	years			(viral, acu	te), by type
	All sei	rotypes		ype b	Non-ser	otype b	Unknowr	n serotype		A
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	1,732	1,796	14	25	102	103	154	199	5,446	7,229
NEW ENGLAND	158	143	1	2	6	5	4	5	990	338
Maine N.H.	13 19	4 13	-	- 1	- 2	-	- 1	1	11 26	18 18
Vt.	8	9	-	-	-	-	1	-	8	6
Mass. R.I.	62 6	71 9	1	1	- 1	5	2	3 1	856 23	197 15
Conn.	50	37	-	-	3	-	-	-	66	84
MID. ATLANTIC	384	377	1	3	5	4	37	48	666	1,774
Upstate N.Y. N.Y. City	123 77	132 67	1	3	5	4	5 14	9 12	112 265	132 441
N.J.	73	69 109	-	-	-	-	4	11	138	204 997
Pa. E.N. CENTRAL	111 275	298	- 1	3	- 6	-	14 37	16 55	151 517	997 659
Ohio	103	69	1	-	2	1	16	11	50	162
Ind. III.	53 64	49 106	-	-	4	-	1 11	9 24	95 184	69 182
Mich.	20	26	-	3	-	5	6	1	136	201
Wis.	35	48	-	-	-	-	3	10	52	45
W.N. CENTRAL Minn.	105 44	115 53	2 1	2 2	4 4	7 7	12 1	14 2	170 32	174 44
lowa Mo.	1 37	40	1	-	-	-	- 7	- 11	51 43	30 59
N. Dak.	4	4	-	-	-	-	-	-	1	2
S. Dak. Nebr.	- 10	1 2	-	-	-	-	- 2	-	4 12	- 13
Kans.	9	15	-	-	-	-	2	1	27	26
S. ATLANTIC	390	405	1	2	24	18	24	24	970	1,656
Del. Md.	65	- 98	-	- 1	- 6	- 8	-	-	6 105	9 174
D.C.	-	2	-	-	-	-	- 1	-	7	43
Va. W.Va.	39 17	55 17	-	-	1	-	3	6	130 6	101 14
N.C. S.C.	58 4	40 7	1	-	6	3	1	2 2	101 24	120 39
Ga.	99	76	-	-	-	-	17	8	310	768
Fla.	108	110	-	1	11	7	2	5	281	388
E.S. CENTRAL Ky.	68 13	78 7	1	1	2 2	3 2	9 1	9 1	143 30	262 32
Ténn. Ala.	38 14	47 22	- 1	- 1	-	1	6 2	5 3	80 9	190 24
Miss.	3	2	-	-	-	-	-	-	24	16
W.S. CENTRAL	76	75	1	2	8	10	2	4	582	678
Ark. La.	3 15	6 21	-	-	-	1 2	1 1	- 4	57 54	37 47
Okla.	57	45	-	-	8	7	-	-	20	22
Tex.	1	3	1	2	-	-	-	-	451	572
MOUNTAIN Mont.	181 -	162	4	6	27	23	22	17	443 8	458 8
Idaho Wyo.	5 1	6 2	-	-	- 1	-	2	2	21 5	18 1
Colo.	45	36	-	-	-	-	6	6	52	63
N. Mex. Ariz.	37 62	18 78	1	- 6	8 13	4 10	6 2	1 4	23 272	24 258
Utah	18	12	2	-	2	5	5	4	48	37
Nev. PACIFIC	13	10	1	-	3	4	1	-	14	49
Wash.	95 3	143 11	2 2	4	20	27 7	7 1	23 3	965 60	1,230 67
Oreg. Calif.	44 35	39 58	-	- 4	- 20	- 20	3 1	3 10	66 807	61 1,080
Alaska	4	21	-	-	-	-	1	7	5	9
Hawaii	9	14	-	-	-	-	1	-	27	13
Guam P.R.	-	- 1	-	-	-	-	-	- 1	1 26	2 82
V.I. Amer. Samoa	Ū	- U	- U	- U	- U	- U	- U	- U	Ū	- U
C.N.M.I.	-	Ŭ	-	Ŭ	-	Ŭ	-	Ŭ	-	Ŭ

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending December 18, 2004, and December 13, 2003 (50th Week)*

1188

(50th Week)*	,				,	,		,	,	,
		epatitis (viral B	, acute), by ty		Legio	nellosis	Lister	riosis	Lyme d	isease
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	6,444	6,795	834	1,043	1,818	2,044	646	643	17,743	19,647
NEW ENGLAND	354	337	14	13	72	116	48	53	2,700	3,798
Maine N.H.	4 39	1 19	-	2	- 11	2 9	7 4	7 4	53 206	163 173
Vt.	5	4	8	11	6	6	2	1	48	43
Mass. R.I.	208 6	205 18	4	-	22 18	54 17	15 2	18 1	988 234	1,515 576
Conn.	92	90	2	-	15	28	18	22	1,171	1,328
MID. ATLANTIC Upstate N.Y.	1,227 89	734 92	145 18	127 17	515 109	588 147	152 48	128 35	11,596	12,927 4,288
N.Y. City	126	187	-	-	58	70	22	24	4,013	213
N.J. Pa.	725 287	175 280	- 127	- 110	94 254	88 283	26 56	23 46	3,209 4,374	2,848 5,578
E.N. CENTRAL	502	506	107	137	474	435	100	86	959	908
Ohio	120	136	6	9	219	221	40	24	62	66
Ind. III.	42 71	36 69	10 12	9 22	77 33	31 48	17 13	10 23	18 1	23 71
Mich.	237	216	79	92	130	117	25	19	29	11
Wis.	32	49	-	5	15	18	5	10 17	849	737
W.N. CENTRAL Minn.	314 49	329 35	53 18	259 9	61 7	69 3	22 6	5	702 591	458 331
lowa Mo.	14 188	14 227	- 34	1 246	6 33	10 36	3 8	- 6	44 55	52 68
N. Dak.	4	2	-	- 240	2	1	-	-	-	-
S. Dak. Nebr.	42	2 32	- 1	- 3	5 4	2 6	2 3	- 4	1 8	1 2
Kans.	17	17	-	-	4	11	-	2	3	4
S. ATLANTIC	1,879	1,927	189	149	379	511	113	133	1,518	1,284
Del. Md.	42 163	11 129	28 24	- 9	13 76	27 131	N 17	N 27	301 801	205 681
D.C. Va.	19 272	12	3	- 11	11 53	19 93	-	2	11 173	11
W. Va.	39	187 38	17 24	9	9	21	18 4	12 7	28	159 27
N.C. S.C.	182 82	150 151	11 6	11 24	39 5	37 7	26 4	17 5	120 15	137 15
Ga.	577	648	15	13	36	34	15	31	13	10
Fla.	503	601	61	72	137	142	29	32	56	39
E.S. CENTRAL Ky.	419 73	466 73	91 23	88 22	87 39	101 43	21 4	31 9	48 15	61 15
Tenn.	174	196	35	19	33	34	10	8	17	17
Ala. Miss.	66 106	94 103	5 28	6 41	12 3	19 5	5 2	12 2	5 11	8 21
W.S. CENTRAL	606	1,122	125	153	74	76	33	49	92	91
Ark. La.	77 63	81 114	3 69	3 100	- 6	2 1	2 3	1 4	8 5	- 6
Okla.	47	56	3	2	8	7	-	3	-	-
Tex.	419	871	50	48	60	66	28	41	79	85
MOUNTAIN Mont.	516 2	546 16	37 2	49 3	81 3	70 4	27	32 2	32	14
Idaho	10	8	-	1	9	4	1	2	6	3
Wyo. Colo.	9 57	31 76	2	- 13	7 19	2 12	- 12	- 9	3	2
N. Mex. Ariz.	12 300	34 253	7 6	- 7	4 11	3 11	1	3 10	2 6	1 3
Utah	56	47	5	-	24	23	5	2	14	2
Nev.	70	81	15	25	4	11	8	4	1	3
PACIFIC Wash.	627 52	828 78	73 22	68 19	75 13	78 10	130 11	114 8	96 13	106 3
Oreg.	108	112	15	15	N	Ν	7	5	33	16
Calif. Alaska	441 15	605 6	30	30	61 1	67	107	96	48 2	84 3
Hawaii	11	27	6	4	-	1	5	5	Ň	N
Guam P.R.	6 55	9 128	-	5	- 2	1	-	-	- N	- N
V.I.	-	-	-	-	-	-	-	-	-	-
Amer. Samoa C.N.M.I.	U -	U U	U -	U U	U -	U U	U -	U U	U -	U U
NI: NI=t = stiff = b l =										

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending December 18, 2004, and December 13, 2003 (50th Week)*

(50th Week)*							-			
	Mal	aria		ococcal ease	Perti	ussis	Rabies	, animal		Nountain d fever
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	1,239	1,283	1,201	1,575	17,339	9,784	5,659	6,541	1,454	947
NEW ENGLAND	83	62	68	72	1,719	1,786	668	583	21	9
Maine N.H.	6 5	3 6	11 7	6 5	34 96	12 93	54 30	69 29	-	-
Vt.	4	2 30	3 35	3 43	116	66	36 295	38 207	1 15	- 9
Mass. R.I.	46 7	2	2	2	1,421 40	1,522 20	38	66	3	9
Conn.	15	19	10	13	12	73	215	174	2	-
MID. ATLANTIC Upstate N.Y.	329 51	345 55	149 37	195 51	2,766 1,842	1,332 710	927 509	887 413	99 5	40
N.Y. City N.J.	175 58	186 61	24 34	40 28	161 244	144 177	13	6 62	24 33	13 16
Pa.	45	43	54	76	519	301	405	406	37	11
E.N. CENTRAL	103	107	177	242	5,339	1,268	160	169	24	21
Ohio Ind.	29 18	23 4	70 30	56 42	633 287	299 68	76 10	53 29	12 6	9 1
III. Mich.	23 19	45 24	18 44	70 46	471 264	126 131	50 15	24 49	2 4	5 6
Wis.	14	11	15	28	3,684	644	9	14	-	-
W.N. CENTRAL Minn.	66 25	50 21	82 23	121 26	2,157 437	495 141	473 89	624 40	131 4	65 2
Iowa	4	6	17	26	194	153	104	100	1	2
Mo. N. Dak.	20 3	7 1	20 2	49 1	470 745	131 7	59 62	43 55	103	51
S. Dak.	1	3	2	1	73	5	10	131	4	5
Nebr. Kans.	4 9	12	4 14	7 11	78 160	15 43	53 96	98 157	19	4 1
S. ATLANTIC	319	313	205	261	696	664	1,868	2,545	749	580
Del. Md.	6 73	2 72	3 10	9 27	5 133	9 87	9 310	60 338	6 78	1 105
D.C. Va.	13 52	15 40	4 20	5 25	7 233	3 91	- 461	- 493	- 37	1 31
W. Va.	2	4	6	6	24	26	67	81	5	5
N.C. S.C.	21 9	25 4	32 12	36 21	96 48	126 185	571 151	761 237	514 21	317 42
Ga. Fla.	51 92	64 87	15 103	33 99	20 130	31 106	298 1	387 188	65 23	64 14
E.S. CENTRAL	28	30	60	90	273	154	136	204	174	126
Ky. Tenn.	4 7	9 7	11 15	19 29	79 135	47 74	23 36	37 101	2 88	3 69
Ala.	12	7	17	20	42	19	66	62	48	21
Miss.	5	7	17	22	17	14	11	4	36	33
W.S. CENTRAL Ark.	108 8	130 4	118 18	177 16	910 78	734 44	1,041 48	1,125 25	223 138	96 39
La. Okla.	5 7	5 4	36 10	40 20	11 33	11 90	- 101	5 195	5 71	1 42
Tex.	88	117	54	101	788	589	892	900	9	14
MOUNTAIN Mont.	49 1	42	62 3	93 6	1,755 65	979 5	212 26	175 21	28 3	9 1
Idaho	1	1	7	7	37	75	8	15	4	2
Wyo. Colo.	1 15	1 22	3 15	2 25	35 979	126 361	6 43	6 38	5 1	2 2
N. Mex. Ariz.	4 13	3 8	9 12	12 29	140 233	72 182	5 111	5 71	2 4	1
Utah	8	5	6	4	221	123	10	14	9	1
Nev.	6	2	7	8	45	35	3	5	-	-
PACIFIC Wash.	154 20	204 29	280 31	324 39	1,724 731	2,372 737	174	229	5	-
Oreg. Calif.	18 111	11 157	56 182	58 208	471 486	436 1,121	6 160	7 213	3 2	- 1
Alaska	2	1	3	7	12	66	8	9	-	-
Hawaii Guam	3	6 1	8 1	12	24	12 1	-	-	-	-
P.R.	-	2	11	12	7	4	58	67	Ν	N
V.I. Amer. Samoa	- U	- U	Ū	- U	- U	U	- U	U	- U	Ū
C.N.M.I.	-	U	-	U	-	U	-	U	-	U

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending December 18, 2004, and December 13, 2003 (50th Week)*

MMWR

(50th Week)*							Stre	ptococcus pne	umoniae, inv	asive
	Salmon	ollosis	Shia	ellosis	Streptococc invasive,		Drug res	sistant,		5 years
Deporting eres	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting area	2004 38,894	2003 41,402	2004 12,112	2003 22,289	4,268	2003 5,384	2,015	2003 1,929	2004 701	2003 723
NEW ENGLAND	1,963	2,043	281	333	4,200	440	2,015	1,929	71	9
Maine	90	137	9	7	11	29	2	-	3	-
N.H. Vt.	135 60	138 72	9 4	9 8	19 9	29 19	- 12	- 7	N 3	N 5
Mass.	1,107	1,195	171	225	109	194	37	N	56	Ν
R.I. Conn.	135 436	122 379	20 68	19 65	21	16 153	19	10 83	9 U	4 U
MID. ATLANTIC	5,299	4,758	1,104	2,311	679	908	134	130	120	104
Upstate N.Y. N.Y. City	1,212 1,173	1,129 1,282	401 375	573 411	222 103	339 141	56 U	70 U	85 U	73 U
N.J.	948	839	228	352	147	171	-	-	7	4
Pa.	1,966	1,508	100	975	207	257	78	60	28	27
E.N. CENTRAL Ohio	4,675 1,200	5,395 1,287	1,070 169	1,810 293	798 215	1,240 281	475 329	421 275	171 81	313 98
Ind.	613	531	215	177	94	117	146	146	42	30
III. Mich.	1,278 774	1,898 767	313 205	977 232	165 270	330 346	N	N	9 N	127 N
Wis.	810	912	168	131	54	166	N	N	39	58
W.N. CENTRAL	2,339	2,391	439	766	286	322	23	19	102	76
Minn. Iowa	603 409	546 380	63 63	98 85	138 N	153 N	N	N	67 N	54 N
Mo.	604	860	177	353	58	76	18	15	14	3
N. Dak. S. Dak.	42 130	37 119	3 13	10 17	15 20	17 22	5	3 1	4	7
Nebr.	178	163	40	87 116	14 41	25	N	N	7	5 7
Kans. S. ATLANTIC	373 10,731	286 10,682	80 2,567	6,572	831	29 882	976	1,026	10 60	18
Del.	101	100	9	163	3	6	4	1	N	N
Md. D.C.	794 62	825 49	147 40	564 73	179 10	221 9	- 8	25 1	44 3	- 7
Va.	1,135	1,049	163	425	69	97	N	N	N	Ν
W.Va. N.C.	223 1,632	124 1,351	9 372	- 971	25 124	36 102	106 N	80 N	13 U	11 U
S.C.	858	800	300	510	38	39	71	141	Ň	N
Ga. Fla.	1,829 4,097	1,999 4,385	605 922	1,138 2,728	166 217	174 198	241 546	228 550	N N	N N
E.S. CENTRAL	2,435	2,855	758	1,000	190	195	124	142	6	-
Ky. Tenn.	340 523	384 733	74 327	127 374	58 132	47 148	30 93	21 121	N N	N N
Ala.	728	756	309	328	-	-	-	-	N	N
Miss.	844	982	48	171	-	-	1	-	6	-
W.S. CENTRAL Ark.	3,954 565	5,880 787	3,232 77	5,670 103	279 17	285 6	69 10	77 22	127 8	133 8
La.	804	854	272	440	3	2	59	55	26	28
Okla. Tex.	381 2,204	451 3,788	468 2,415	831 4,296	61 198	88 189	N N	N N	43 50	63 34
MOUNTAIN	2,315	2,194	822	1,244	504	503	43	10	42	70
Mont.	183	110	4	2	-	1	-	-	-	-
Idaho Wyo.	145 53	171 75	13 6	35 8	9 10	19 2	N 11	N 9	N _	N -
Colo. N. Mex.	520 261	479 286	153 122	322 262	132 82	137 116	- 5	-	39	53 12
Ariz.	737	688	412	501	224	193	N	N	Ν	N
Utah Nev.	237 179	214 171	49 63	48 66	43 4	33 2	25 2	1	3	5
PACIFIC	5,183	5,204	1,839	2,583	532	609	101	4	2	-
Wash.	561	583	108	166	53	74	-	-	N	N
Oreg. Calif.	394 3,813	417 3,889	80 1,600	209 2,151	N 348	N 403	N N	N N	N N	N N
Alaska	60	94	6	11	-	-	-	-	N	N
Hawaii	355	221	45	46	131	132	101	4	2	-
Guam P.R.	26 302	43 715	33 11	41 27	N	N	N	N	N	N
V.I. Amer. Samoa	- U	- U	- U	- U	- U	- U	- U	Ū	Ū	- U
C.N.M.I.	3	U	-	U	-	U	-	Ŭ	-	U

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending December 18, 2004, and December 13, 2003

(50th Week)*	·			-			-			
		Syphi							Varico	
	Primary 8 Cum.	c secondary Cum.	Cong Cum.	genital Cum.	Tube Cum.	rculosis Cum.	Typho Cum.	id fever Cum.	(Chicke Cum.	npox) Cum.
Reporting area	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003
UNITED STATES	7,120	6,730	302	417	10,790	11,847	273	344	17,932	16,712
NEW ENGLAND Maine	171 2	208 8	5	1	361	392 21	21	28	701 290	3,247 781
N.H. Vt.	4	18 1	3	-	17	13 9	-	4	411	826
Mass.	110	129	-	-	239	205	14	15	411	147
R.I. Conn.	22 33	25 27	1	- 1	30 75	45 99	1 6	2 7	-	5 1,488
MID. ATLANTIC	961	847	39	64	1,924	2,123	61	78	85	41
Upstate N.Y. N.Y. City	96 600	40 489	4 15	12 31	264 923	282 1,078	8 22	12 36	-	-
N.J.	141	167	19	21	413	435	16	21	-	-
Pa. E.N. CENTRAL	124 838	151 858	1 57	- 75	324 1,104	328 1,143	15 18	9 33	85 6,203	41 5,993
Ohio	223	189	1	3	189	194	5	2	1,479	1,206
Ind. III.	55 355	50 361	9 16	16 21	124 489	130 544	-	4 17	139 2	-
Mich. Wis.	174 31	242 16	31	34 1	216 86	212 63	10 3	10	3,955 628	3,832 955
W.N. CENTRAL	135	143	5	5	418	451	10	6	130	77
Minn. Iowa	16 5	43 10	1	-	169 33	186 31	6	2 2	- N	N
Mo. N. Dak.	85	57 2	2	4	111	110	2	1	5 82	1
S. Dak.	-	2	-	-	4 8	20	-	-	82 43	76
Nebr. Kans.	6 23	6 23	- 2	1	36 57	27 73	2	1	-	-
S. ATLANTIC	1,875	1,775	52	80	2,488	2,445	44	54	2,146	2,135
Del. Md.	9 349	6 296	1 9	- 12	17 248	23 238	- 11	- 10	5	29 1
D.C. Va.	90 95	47 79	1 3	- 1	71 277	- 255	- 10	- 14	26 562	29 508
W. Va.	2	2	-	-	22	21	-	-	1,274	1,306
N.C. S.C.	182 113	146 94	12 8	19 14	330 167	354 159	8	9	N 279	N 262
Ga. Fla.	340 695	485 620	2 16	13 21	399 957	507 888	5 10	6 15	-	-
E.S. CENTRAL	372	309	19	12	536	677	7	8	-	-
Ky. Tenn.	47 123	32 131	1 8	1 2	120 230	123 218	3 4	1 3	-	-
Ala.	153	111	8	7	153	229	-	4	-	-
Miss. W.S. CENTRAL	49 1,142	35 892	2 50	2 78	33 1,038	107 1,746	- 27	- 30	6,120	4,551
Ark.	39	45	-	3	110	95	-	-	-	-
La. Okla.	265 24	164 61	2	1 1	143	- 147	- 1	- 1	51	16
Tex.	814	622	48	73	785	1,504	26	29	6,069	4,535
MOUNTAIN Mont.	323 3	314	44	34	500 14	429 5	8	7	2,547	668
ldaho Wyo.	22 3	12	2	3	4 5	8 4	-	1	- 56	- 101
Colo. N. Mex.	38 56	35 67	- 1	3 10	107 34	102 46	3	4	1,927 101	- 4
Ariz.	155	176	41	18	219	207	2	2	-	-
Utah Nev.	8 38	12 12	-	-	37 80	35 22	1 2	-	463	563
PACIFIC	1,303	1,384	31	68	2,421	2,441	77	100	-	-
Wash. Oreg.	137 27	75 43	-	-	225 74	231 103	6 2	4 4	-	-
Calif. Alaska	1,127 5	1,252 1	30	66	1,979 35	1,943 54	63	91	-	-
Hawaii	5	13	1	2	108	110	6	1	-	-
Guam P.R.	- 161	1 196	- 5	- 14	15 84	53 100	-	-	112 275	153 590
V.I.	4	1	-	-	-	-	-	-	-	-
Amer. Samoa C.N.M.I.	U 2	U U	U	U U	U 10	U U	U -	U U	U -	U U
		-			-	-		-		-

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending December 18, 2004, and December 13, 2003 (50th Week)*

TABLE III. Deaths in 122 U.S. cities,* week ending December 18, 2004 (50th Week)

TABLE III. Deatins		All causes, by age (years)							All causes, by age (years)						
Reporting Area	All Ages	<u>≥</u> 65	45-64	25–44	1–24	<1	P&I [†] Total	Reporting Area	All Ages	<u>≥</u> 65	45-64	25–44	1–24	<1	P&I [†] Total
NEW ENGLAND	507	362	103	27	6	9	47	S. ATLANTIC	1,349	831	328	119	36	35	69
Boston, Mass.	138	89	37	4	2	6	16	Atlanta, Ga.	166	94	43	19	7	3	10
Bridgeport, Conn.	35	23	8	4	-	-	2	Baltimore, Md.	198	102	64	23	5	4	13
Cambridge, Mass.	15	12	2	-	1	-	1	Charlotte, N.C.	111	80	20	6	1	4	9
Fall River, Mass.	25	23	-	2	-	-	2	Jacksonville, Fla.	167	107	40	16	2	2	5
Hartford, Conn.	63	41	15	7	-	-	5	Miami, Fla.	66	44	11	5	3	3	3
Lowell, Mass. Lynn, Mass.	23 18	20 13	2 5	1	-	-	4 2	Norfolk, Va. Richmond, Va.	56 53	39 29	13 16	2 6	- 2	2	6 3
New Bedford, Mass.	19	15	1	2	1	-	-	Savannah, Ga.	56	44	6	2	1	3	2
New Haven, Conn.	Ŭ	Ŭ	Ů	Ū	Ů	U	U	St. Petersburg, Fla.	52	33	14	2		3	4
Providence, R.I.	52	34	12	3	-	3	6	Tampa, Fla.	198	132	38	14	9	5	7
Somerville, Mass.	1	1	-	-	-	-	-	Washington, D.C.	204	110	60	24	4	6	5
Springfield, Mass.	32	21	8	2	1	-	4	Wilmington, Del.	22	17	3	-	2	-	2
Waterbury, Conn.	24	19	5	-	-	-	2	E.S. CENTRAL	902	592	194	63	33	20	64
Worcester, Mass.	62	51	8	2	1	-	3	Birmingham, Ala.	199	141	36	12	5	5	14
MID. ATLANTIC	2,186	1,490	473	144	43	35	114	Chattanooga, Tenn.	69	45	16	4	4	-	3
Albany, N.Y.	58	39	12	3	2	2	3	Knoxville, Tenn.	110	77	20	9	3	1	10
Allentown, Pa.	22	16	6	-	-	-	-	Lexington, Ky.	67	47	17	1	1	1	2
Buffalo, N.Y. Camden, N.J.	85 28	63 13	17 7	2 6	1 1	2 1	6 1	Memphis, Tenn. Mobile, Ala.	189 92	119 57	41 17	21 6	4 6	4 6	14 1
Elizabeth, N.J.	20 19	13	7	1	-	-	2	Montgomery, Ala.	33	20	8	3	1	1	5
Erie, Pa.	29	24	3	2	-	-	4	Nashville, Tenn.	143	86	39	7	9	2	15
Jersey City, N.J.	39	28	9	2	-	-	-	W.S. CENTRAL		007		110	50	24	83
New York City, N.Y.	1,121	791	232	66	15	17	52	Austin, Tex.	1,416 90	907 55	313 22	116 8	52 2	24	83 9
Newark, N.J.	50	27	16	3	2	1	4	Baton Rouge, La.	54	40	9	3	1	1	1
Paterson, N.J.	19	11	5	2	1	-	-	Corpus Christi, Tex.	83	53	16	10	4	-	9
Philadelphia, Pa. Pittsburgh, Pa.§	336 18	189 10	86 3	38 2	16 3	7	20 1	Dallas, Tex.	217	133	46	27	6	2	20
Reading, Pa.	28	10	8	1	-	-	1	El Paso, Tex.	67	42	11	10	1	3	3
Rochester, N.Y.	135	107	21	5	2	-	9	Ft. Worth, Tex.	128	82	33	7	5	1	5
Schenectady, N.Y.	19	14	3	2	-	-	2	Houston, Tex.	308	191	75	19	15	7	18
Scranton, Pa.	28	19	6	3	-	-	1	Little Rock, Ark. New Orleans, La.	73 46	48 31	12 12	7 3	5	1	3
Syracuse, N.Y.	87	59	20	3	-	5	3	San Antonio, Tex.	186	120	44	12	8	2	10
Trenton, N.J.	30	24	5	1	-	-	1	Shreveport, La.	47	32	9	3	1	2	2
Utica, N.Y. Yonkers, N.Y.	19 16	13 13	5 2	1	-	-	2 2	Tulsa, Okla.	117	80	24	7	4	2	3
								MOUNTAIN	1,035	682	237	61	21	32	53
E.N. CENTRAL	2,071	1,409	462	112	45	39	109	Albuquerque, N.M.	142	99	32	7	4	-	10
Akron, Ohio Canton, Ohio	42 39	31 30	9 6	1 2	-	1 1	3 1	Boise, Idaho	51	34	15	1	-	1	5
Chicago, III.	289	175	79	22	8	5	22	Colo. Springs, Colo.	68	44	19	4	1	-	-
Cincinnati, Ohio	95	57	20	6	2	6	3	Denver, Colo.	101	55	25	11	2	8	4
Cleveland, Ohio	223	169	36	9	4	5	5	Las Vegas, Nev.	258	179	52	13	8	6	12
Columbus, Ohio	245	174	50	18	2	1	17	Ogden, Utah Phoenix, Ariz.	22 116	16 71	4 33	1 6	1 2	2	1 4
Dayton, Ohio	120	85	25	5	3	2	7	Pueblo, Colo.	32	25	6	1	-	-	3
Detroit, Mich.	196	114	59	9	6	8	12	Salt Lake City, Utah	108	65	22	8	1	12	2
Evansville, Ind. Fort Wayne, Ind.	52 67	46 47	4 17	2 1	-	- 1	2 2	Tucson, Ariz.	137	94	29	9	2	3	12
Gary, Ind.	19	10	6	1	2		1	PACIFIC	1,606	1,114	335	101	31	24	140
Grand Rapids, Mich.	58	38	13	4	2	1	7	Berkeley, Calif.	1,000	14	3	1	-	-	2
Indianapolis, Ind.	225	157	47	11	7	3	8	Fresno, Calif.	117	88	22	5	1	-	7
Lansing, Mich.	43	28	9	3	3	-	2	Glendale, Calif.	15	12	2	1	-	-	-
Milwaukee, Wis.	118	77	30	6	2	3	5	Honolulu, Hawaii	75	57	13	2	2	1	2
Peoria, III.	60	45	11	2	2	-	2	Long Beach, Calif.	76	57	12	5	-	2	13
Rockford, Ill. South Bend. Ind.	50 38	32 29	13 6	4 2	- 1	1	5 1	Los Angeles, Calif. Pasadena, Calif.	197 12	123 10	46	20 1	6	2 1	23 2
Toledo. Ohio	92	29 65	22	4	-	1	4	Portland, Oreg.	146	98	32	10	2	4	2
Youngstown, Ohio	Ű	Ű	U	Ů	U	Ů	Ů	Sacramento, Calif.	215	153	47	11	2	2	20
0								San Diego, Calif.	140	96	28	7	5	4	9
W.N. CENTRAL Des Moines, Iowa	558 33	347 23	148 8	29 1	12	22 1	34 2	San Francisco, Calif.	121	77	29	12	2	1	13
Duluth, Minn.	23	15	5	3	-	-	-	San Jose, Calif.	178	123	35	10	9	1	20
Kansas City, Kans.	40	21	12	4	2	1	5	Santa Cruz, Calif.	31	21	5	5	-	-	1
Kansas City, Mo.	95	56	27	6	2	4	4	Seattle, Wash.	108	67	34	3	2	2	9
Lincoln, Nebr.	41	29	9	1	-	2	6	Spokane, Wash. Tacoma, Wash.	62 95	45 73	13 14	3 5	-	1 3	5 5
Minneapolis, Minn.	62	40	16	1	1	4	7						-		
Omaha, Nebr.	63	45	14	2	1	1	5	TOTAL	11,630¶	7,734	2,593	772	279	240	713
St. Louis, Mo.	50	30	14	1	1	4	1								
St. Paul, Minn. Wichita, Kans.	52 99	40 48	10 33	1 9	1 4	- 5	2 2								
Wichita, Kans.	·No report		33	Э	4	5	2	I							

U: Unavailable. -: No reported cases.

* Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of >100,000. A death is reported by the place of its

¹ Pneumonia and influenza.
 ⁵ 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.
 ¹ Total includes unknown ages.

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