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# Three Outbreaks of Salmonellosis Associated with Baby Poultry from Three Hatcheries — United States, 2006

During 2006, state health departments notified CDC of three outbreaks of Salmonella species infections in persons who had been in contact with chicks and other baby poultry (ducklings, goslings, and baby turkeys) purchased at agricultural feed stores. The feed stores received the poultry from hatcheries, and each of the three outbreaks was traced to a single hatchery. For decades, baby poultry, particularly chicks and ducklings, have been known to be a source of salmonellosis (1-4). More recently, the source of birds associated with salmonellosis outbreaks has been traced back to individual hatcheries. Many persons who purchase baby poultry remain unaware that contact with these birds puts them and others who are exposed to the birds, especially children and immunocompromised persons, at risk for salmonellosis. This report describes the three outbreaks and provides recommendations for preventing transmission of Salmonella infection from birds to humans.

**Hatchery A.** In May 2006, during routine surveillance of laboratory results, the public health laboratory at the Michigan Department of Community Health detected a cluster of cases that were culture positive for *Salmonella* serotype 4,5,12,i:-. Laboratory analysis of the isolates by pulsed-field gel electrophoresis (PFGE)\* yielded an indistinguishable DNA pattern that was later designated as the outbreak strain. During April–July, the laboratory isolated the outbreak strain from a total of 21 clinical samples obtained from ill persons in Michigan. Ill persons were interviewed<sup>†</sup> by state public health officials and asked about symptoms and possible sources of exposure. All 21 patients reported diarrhea, and six (29%) reported bloody diarrhea. Twelve (57%) patients reported vomiting. Seven (33%) of the 21 ill patients were hospitalized for a median of 4 days (range: 1-9 days); complete data on recovery status were not available at the time of interview. The median age of hospitalized patients was 31 years (range: 7 months-79 years). The median age of all patients was 18 years (range: 7 months-79 years). Twelve (57%) patients reported exposure to baby poultry in the 7 days before illness onset; eight of these patients reported purchasing the birds as a source of meat or eggs, two patients reported purchasing the birds as family pets, and for two patients, the reason for purchase was unknown. The hatchery source of the baby poultry was determined for eight (67%) of the 12 patients who reported exposure; two patients purchased birds directly from hatchery A in Michigan, and six patients purchased birds from five different agricultural feed stores that had all received birds from hatchery A. This hatchery also was the source of chicks and ducklings that caused salmonellosis outbreaks in Michigan in 1999 and 2000 (6).

**Hatchery B.** On May 3, 2006, the Nebraska Health and Human Services System received a report of two children with stool-culture–confirmed salmonellosis. The health department began an investigation on May 4 and learned that the two patients both attended the same Nebraska day care center,

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<sup>\*</sup>PFGE provides a DNA pattern for each isolate; closely related or indistinguishable PFGE patterns suggest a common source and can be used to distinguish outbreak cases from concurrent sporadic cases. Persons with indistinguishable PFGE patterns might be included in the case count, regardless of whether exposure to the outbreak source is confirmed.

<sup>&</sup>lt;sup>†</sup> For all investigations described in this report, if the patient was a young child, a family member was interviewed.

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where they had handled pet chicks brought into the center by a parent. Additional interviews at the day care center detected a total of 10 persons (nine students and one staff member) with diarrhea (three or more loose stools in 24 hours), and three (30%) with bloody diarrhea. None of the 10 persons were hospitalized. Stool samples were requested of all persons with diarrhea. Of the six additional stool samples obtained, two were positive for *Salmonella* serotype Montevideo. Of the four total positive stool samples, all yielded *Salmonella* serotype Montevideo isolates with indistinguishable PFGE DNA patterns. Three of the four children had handled the chicks, and the fourth had the opportunity to do so, although direct contact could not be confirmed.

During April-June, state public health laboratories identified in the national PulseNet database<sup>§</sup> the same strain of Salmonella serotype Montevideo in a total of 56 patients (including those from the Nebraska day care center) from 21 states.<sup>9</sup> Forty-eight of these patients were interviewed during May-July by state public health officials and asked about symptoms and possible exposures. All interviewed patients reported diarrhea (three or more loose stools in 24 hours), and 25 (52%) reported bloody diarrhea. Eight (17%) patients were hospitalized for a median of 2 days (range: 1–7 days), and all fully recovered; the median age of hospitalized patients was 10 months (range: 27 days-53 years). The median age of all interviewed patients was 24 months (range: 27 days-82 years). Forty-two (88%) of the 48 interviewed patients reported exposure to baby poultry in the 5 days before illness onset. Seventeen (40%) of the interviewed patients purchased the birds for meat or eggs, 18 (43%) purchased them as pets, and for seven patients, the reason for purchase was unknown. Thirty-seven (88%) of 42 patients with exposure to baby poultry purchased the birds at a store, including at least 14 different agricultural feed stores and one general store; other patients did not report the facility from which they purchased the birds.

All 37 patients who purchased baby poultry from a store were asked whether the store provided information on preventing transmission of *Salmonella* species infection from birds to humans; three patients reported receiving this type of information. In addition, 31 patients who reported exposure

<sup>&</sup>lt;sup>§</sup> PulseNet is the molecular subtyping network for foodborne disease surveillance in the United States. Participants are public health laboratories in all 50 states and federal regulatory agency laboratories. PulseNet participants perform standardized molecular subtyping (or "fingerprinting") of foodborne diseasecausing bacteria by PFGE in real time. The results (DNA fingerprints, or patterns) are then submitted electronically to central databases located at CDC, which enables rapid comparison of PFGE patterns by public health professionals nationwide (5).

<sup>&</sup>lt;sup>9</sup> California, Colorado, Iowa, Illinois, Kentucky, Maine, Massachusetts, Minnesota, Missouri, Nebraska, New Jersey, New Mexico, New York, Oregon, South Dakota, Texas, Utah, Virginia, Washington, Wisconsin, and Wyoming.

to baby poultry were asked whether they were aware that they could contract salmonellosis from baby poultry; 24 (77%) of these patients reported being unaware that baby poultry could be a source of *Salmonella* species infection. The hatchery source of the baby poultry was determined for nine (21%) of the 42 patients who had been exposed to baby poultry; seven of these nine patients purchased the baby poultry from three feed stores that all received birds from hatchery B in New Mexico. PFGE analysis of isolates from baby poultry and environmental swabs from hatchery B yielded a DNA pattern that was indistinguishable from the *Salmonella* Montevideo outbreak strain in the patients. Hatchery B also had been identified previously as the source of chicks that caused outbreaks of human *Salmonella* species infections in 2002 and 2005 (New Mexico Department of Health, unpublished data, 2007).

Hatchery C. During March–May 2006, the Oregon State Public Health Laboratory identified four patients with *Sal-monella* serotype Ohio isolates; PFGE analysis yielded indistinguishable DNA patterns. All four patients were interviewed by public health officials and asked whether they had been hospitalized and about possible sources of exposure. The median age of patients was 32 years (range: 1–77 years). One patient was hospitalized.

All four patients reported exposure to baby poultry in the days before illness onset. Three of the four patients had purchased chicks from one agricultural feed store; the source for the fourth patient was unknown. After a review of invoices from the feed store, the source for the chicks was determined to be hatchery C in neighboring Washington. Hatchery C had been identified previously as the source of chicks that caused outbreaks of salmonellosis in 1995, 1996, 2003, 2004, and 2005 (Oregon Department of Public Health, unpublished data, 2007).

To assess the prevalence of *Salmonella* species in chicks at retail stores, the Oregon Department of Agriculture and the Oregon Public Health Division surveyed 16 agricultural feed stores in western Oregon during February–March 2006. Although the surveys began before the outbreak was detected, the data were used to assist in the subsequent outbreak investigation. Store representatives were asked about conditions under which birds were purchased, housed, and sold. In addition, cloacal swabs from 137 chicks from the 16 stores were cultured for *Salmonella*; serotypes Ohio, Montevideo, or Tennessee were recovered from 25 (18%) of the chicks from 10 of the 16 stores. All agricultural feed stores with chicks whose swabs yielded *Salmonella* Ohio received these chicks from hatchery C.

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**Editorial Note:** This report describes three concurrent outbreaks of salmonellosis that occurred during 2006, the first year during which more than one baby-poultry-associated salmonellosis outbreak has been recognized. These outbreaks demonstrate that salmonellosis associated with baby poultry purchased from agricultural feed stores is a source of *Salmonella* infection in humans and an ongoing public health problem.

Each year in the United States, an estimated 1.4 million *Salmonella* infections result in thousands of hospitalizations and hundreds of deaths (7). The percentage caused by contact with baby poultry remains unknown, and few measures have been implemented to prevent transmission of *Salmonella* organisms from baby poultry to humans.

Fewer than 20 hatcheries in the United States provide the majority of baby poultry sold in agricultural feed stores in the nation, and certain hatcheries have been implicated repeatedly as sources of baby-poultry-associated salmonellosis outbreaks. Such outbreaks might be prevented by control measures at these and other hatcheries and at agricultural feed stores, where most persons purchase baby poultry. Providing information to customers about the health risks of bird contact and providing adequate handwashing facilities might prevent such infections (8). Certain state health departments (e.g., in Washington and Oregon) have urged feed stores to display warnings and provide point-of-sale educational materials to persons purchasing baby poultry; however, such campaigns are voluntary and might not be implemented. Increased emphasis on such point-of-sale educational materials might reduce numbers of infections. Evaluation of the effectiveness of mandated point-of-sale education in reducing babypoultry-associated salmonellosis might help guide future prevention programs.

Although the purchase of baby poultry from agricultural feed stores by persons for meat or eggs or as pets is legal in all states, a 2005 survey indicated that the sale of chicks to individual persons is regulated by law in certain states. For example, 13 states<sup>\*\*</sup> and the District of Columbia (DC) prohibit the sale of birds that have been dyed. Arkansas, Kentucky,

<sup>\*\*</sup> Arkansas, Florida, Illinois, Kentucky, Massachusetts, Michigan, Montana, New Jersey, New York, Pennsylvania, South Carolina, Tennessee, and Vermont.

New York, and Wisconsin have laws establishing a minimum number of birds that can be sold to individual persons, and 12 states<sup>††</sup> and DC have laws restricting the youngest age at which birds can be sold. The effectiveness of such legislation is unknown. None of the hatcheries or stores implicated in the outbreaks were in violation of state laws related to the sale of baby poultry.

The hatchery B outbreak investigation described in this report indicates that persons who purchase baby poultry usually are unaware that *Salmonella* species infections can be transmitted from poultry to humans. Although baby birds such as chicks and ducklings might not appear dirty, they can have feces on their feathers and beaks, areas that children are more likely to touch or place in their mouths, possibly resulting in infection. In addition, all items that have been in contact with birds, such as floors, tables, rugs, sinks, and fingers, can be contaminated with a fecal film.

To reduce the risk for illness or death from salmonellosis, persons should be educated about the risks of contact with baby poultry, should avoid contact with bird feces, and should wash their hands with soap and warm water after handling baby poultry or anything that has been in contact with them. In addition, children aged <5 years should not be allowed to handle baby chicks or other baby birds. At the community level, hatcheries should provide written information for customers at agricultural feed stores and customers who purchase directly from hatcheries, recommending ways to prevent transmission of *Salmonella* organisms from birds to humans. Additional information regarding health risks posed by contact with baby poultry is available at http://www.cdc.gov/healthypets/easter\_chicks.htm.

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# Update: Chikungunya Fever Diagnosed Among International Travelers — United States, 2006

Chikungunya virus (CHIKV) is a mosquitoborne alphavirus indigenous to tropical Africa and Asia, where it causes endemic and epidemic chikungunya (CHIK) fever, an acute illness characterized by fever, arthralgias, and sometimes arthritis, commonly accompanied by conjunctivitis and rash. Although symptoms of CHIKV infection usually last days to weeks, joint symptoms and signs usually last for months and occasionally for 1 year or longer; deaths from CHIKV infection are rare (1). No specific antiviral treatment exists for CHIKV infection; treatment consists of supportive care, including analgesics and anti-inflammatory medication for joint symptoms. During 2005-2006, an epidemic of CHIK fever occurred on islands in the Indian Ocean and in India, resulting in millions of clinically suspected cases, mainly in southern India (2,3). In the United States, CHIK fever has been diagnosed in travelers from abroad. CDC previously reported 12 imported cases of CHIK fever diagnosed in the United States from 2005 through late September 2006, including 11 with illness onset in 2006 (4). This report of 26 additional imported cases with onset in 2006 underscores the importance of recognizing such cases among travelers. Healthcare providers are encouraged to suspect CHIKV infection in travelers with fever and arthralgias who have recently returned from areas with CHIKV transmission. Acute- and convalescent-phase serum specimens can be submitted to CDC for testing through state health departments. Public health officials and health-care providers are encouraged to be vigilant for the possibility of indigenous CHIKV transmission in areas of the United States where CHIKV mosquito vectors are prevalent.

Surveillance for CHIK fever in the United States is passive and laboratory based; the disease is not nationally reportable. In the United States in 2006, diagnostic testing for CHIKV was available at CDC by arrangement through state health departments. Although clinicians were encouraged to submit paired acute- and convalescent-phase serum specimens (ideally separated by 2 weeks), paired specimens were not uniformly available. All serum samples were tested by immunoglobulin M (IgM)-capture enzyme-linked immunosorbent assay (ELISA) and plaque-reduction neutralization (PRNT). IgM-negative acute-phase samples were tested by virus culture. Positive cultures were confirmed by polymerase chain reaction.

<sup>&</sup>lt;sup>††</sup> Alabama, Arkansas, Florida, Kentucky, Massachusetts, Montana, New Jersey, New York, North Carolina, Pennsylvania, South Carolina, and Wisconsin.

Including the previously reported cases (4), CDC confirmed a total of 37 cases of CHIK fever with both positive IgM and PRNT and/or CHIKV isolation among U.S. travelers with onset in 2006; CHIKV was isolated from the blood of five of these patients. Patients were from 17 states (four southern states, four northeastern states, five midwestern states, and four western states) and the District of Columbia. Median age of patients was 49 years (range: 22-78 years), and 54% were female. In 25 (68%) of the 37 cases, onset occurred during June–October 2006 (Figure). The country most commonly visited before traveling to the United States was India, reported by 32 (86%) of the 37 patients; three patients reported visiting Sri Lanka, and one each had visited Zimbabwe and the Indian Ocean island of Réunion. An additional seven travelers returning to the United States in 2006 tested positive for CHIKV antibody by either IgM ELISA or PRNT but not by both.

**Reported by:** Div of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases; Div Global Migration and Quarantine, National Center for Preparedness, Detection, and Control of Infectious Diseases; E Farnon, EIS Officer, CDC.

**Editorial Note:** The 37 imported cases of CHIK fever in 2006 were unprecedented in the United States; during the preceding 15-year period, 1991–2005, only seven patients had both IgM and PRNT antibody to CHIKV detected by tests at CDC, and only three of these were known to be returning U.S. travelers (CDC, unpublished data, 2006). Factors contributing to the increase in the number of confirmed cases likely include an increase in the absolute number of infected travelers and the effects of recent CHIK fever publicity on the frequency of clinical diagnosis and submission of samples for laboratory testing (*4*).

FIGURE. Number (37) of confirmed cases of chikungunya fever, by month of illness onset — United States, 2006



The five patients with positive cultures for CHIKV in 2006 likely represent a small fraction of CHIKV-viremic travelers who entered the United States, including many with subclinical or milder clinical CHIKV infections that were never documented. Human CHIKV infections typically include transient viremia of sufficient concentration to infect feeding vector mosquitoes (1), and approximately one fourth of human CHIKV infections are subclinical (5). Thus, despite the apparent absence of indigenous transmission of CHIKV in the United States or elsewhere in the western hemisphere, the risk for introduction into local vector mosquito populations in 2006 was likely higher than previously observed. In 2007, the risk likely will continue to be higher than usual, especially in tropical and subtropical areas where Aedes aegypti and Aedes albopictus mosquitoes, the main vectors of CHIKV (6), are seasonally abundant.

Travelers to tropical areas of Asia and Africa should educate themselves regarding CHIK fever and follow CDC recommendations to prevent mosquito bites.\* Febrile illness in persons traveling to the United States from Asia and Africa should be reported promptly to local or state public health authorities, and tests for CHIKV infection should be requested (4). Persons with febrile illness suspected to be caused by CHIKV should avoid mosquito exposure for at least 7 days after illness onset to reduce the likelihood of transmitting CHIKV to local mosquitoes, which might then transmit the virus to other humans.

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<sup>\*</sup>Available at http://www.cdc.gov/ncidod/dvbid/chikungunya and http:// www.cdc.gov/travel/other/2006/chikungunya\_india.htm.

# Progress Toward Poliomyelitis Eradication — Nigeria, 2005–2006

Only four countries (Afghanistan, India, Nigeria, and Pakistan) have never experienced interruption of poliovirus transmission (1-3). Nigeria had the largest number of cases in 2006, accounting for 1,129 (56%) of the 2,002 cases reported globally. However, major innovations to the national polio-eradication program in Nigeria were initiated in 2006. These innovations, if sustained, should advance the Global Polio Eradication Initiative. Nigeria (2006 population: 140 million) experienced a resurgence in wild poliovirus (WPV) transmission during 2003-2004 after a loss of public confidence\* in oral polio vaccine (OPV) and suspension of supplementary immunization activities (SIAs)<sup>†</sup> in certain northern states (4). Subsequently, WPV spread within Nigeria and into 19 polio-free countries (1,5,6). Even after national SIAs recommenced, limited acceptance and ongoing operational problems resulted in low vaccination coverage and continued poliovirus transmission. The number of confirmed polio cases in Nigeria attributed to both WPV type 1 (WPV1) and type 3 (WPV3) increased from 782 in 2004 to 830 in 2005 and to 1,129 in 2006 (as of March 23, 2007). To increase the effectiveness of polio-eradication measures and community acceptance of vaccination, in 2006, health authorities in Nigeria introduced monovalent type 1 OPV (mOPV1) vaccine<sup>§</sup> and changed the way SIAs were implemented. This report summarizes these new approaches and overall progress toward polio eradication in Nigeria during 2005-2006.

## **Immunization Activities**

In 2005, national reported routine vaccination coverage for 3 doses of OPV among infants was 31%. Substantial variation was observed in coverage by state (range: 10%–57%), with lower coverage reported from northern states. In the same year, Nigeria adopted a new Reaching Every Ward strategic approach<sup>¶</sup> to improve routine vaccination coverage. This

strategy focused on enhancing health-worker training and supervision and improving outreach at the local ward level.

Four national and two subnational SIA campaigns with trivalent OPV (tOPV) were conducted in 2005; one national campaign was conducted in February 2006. Despite these campaigns, the number of confirmed polio cases in the second half of 2005 and early 2006 indicated that a substantial proportion of children had not been immunized and remained susceptible to poliovirus infection, especially polio infection attributed to WPV1. The National Programme on Immunization began using mOPV1, which is more effective than tOPV against WPV1, during the March 2006 SIAs in 32 of the 37 states (including all northern states). In May 2006, the National Programme on Immunization introduced a modified strategy of SIA implementation, called immunization plus days (IPDs), during which OPV and other interventions were delivered using a combination of house-to-house vaccine delivery and fixed-post vaccination. Four IPD rounds were conducted during May-November 2006 in polio-affected northern states. The May, June, and September IPDs used mOPV1, whereas tOPV was used in the November round to provide protection against WPV3.

IPDs offered OPV and other vaccines (e.g., measles vaccine and diphtheria-tetanus-pertussis vaccine for eligible children and tetanus toxoid vaccine for pregnant women) at fixed vaccination posts, in addition to house-to-house delivery of OPV (and vitamin A twice in the year). In the targeted northern states, local government areas (LGAs) offered other health interventions when children were brought to vaccination posts. These interventions included distribution of soap, acetaminophen, oral rehydration salts, anthelminthics, and insecticide-treated bed nets. Additional modifications implemented as part of the IPDs were 1) holding community discussions to educate caregivers and address concerns before each round; 2) enhancing detailed SIA planning through involvement of local community leaders; 3) using qualified local health workers on the vaccination teams; and 4) enhancing field supervision by local, state, and federal authorities and through partner agencies.\*\*

<sup>\*</sup> Loss of public confidence resulted from rumors regarding OPV safety, including false allegations that the vaccine could cause sterility or acquired immunodeficiency syndrome in vaccine recipients. Rumors were promoted, especially in northern Nigeria, in response to political tensions at national and state levels. All allegations were refuted on scientific grounds.

<sup>&</sup>lt;sup>†</sup> Mass campaigns conducted during a short period (days to weeks) during which a dose of OPV is administered to all children aged <5 years, regardless of previous vaccination history. Campaigns can be conducted nationally or in portions of the country.

<sup>&</sup>lt;sup>§</sup>mOPV1 contains polio vaccine against WPV1 only and does not provide protection against other WPV types. mOPV1 provides greater immunity to a specific WPV type than does the same number of doses of trivalent OPV. mOPV3 is not yet available in Nigeria.

<sup>&</sup>lt;sup>9</sup>An adaptation of the World Health Organization Regional Office for Africa and global Reaching Every District initiative.

<sup>\*\*</sup> National Programme on Immunization of the Nigeria Ministry of Health, Association of Local Governments of Nigeria, Nigerian state governments, World Health Organization, Rotary International, CDC, United Nations Children's Fund (UNICEF), European Union, International Federation of Red Cross/Red Crescent, World Bank, the Global Alliance for Vaccine and Immunization, the Vaccine Fund, and bilateral development agencies of Canada, Norway, Japan, the United Kingdom, and the United States (U.S. Agency for International Development [USAID]).

## Acute Flaccid Paralysis (AFP) Surveillance

The Global Polio Eradication Initiative relies on an acute flaccid paralysis (AFP) surveillance system to identify cases of poliomyelitis. Through this system, AFP cases in all children aged <15 years and suspected polio in persons of any age are reported and investigated as possible poliomyelitis. AFP surveillance quality is monitored according to World Health Organization (WHO) operational targets.<sup>††</sup> In 2005, Nigeria achieved a national nonpolio AFP detection rate of 7.6 cases per 100,000 population aged <15 years, compared with the WHO target of two cases, increasing to 7.9 per 100,000 children in 2006. In 2005, all 37 states and 85% of the 774 LGAs achieved nonpolio AFP rates of more than two cases per 100,000; in 2006, 90% of LGAs achieved this rate. In 2005, adequate stool specimens were collected for 85% of AFP cases nationally; this percentage increased to 90% in 2006. In 2005, 68% of states and 62% of LGAs reached the target of >80% AFP cases with adequate stool specimens; in 2006, 86% of states and 73% of LGAs reached this target. The proportion of LGAs that reached the target levels for both surveillance indicators increased from 52% in 2005 to 64% in 2006.

Vaccination histories of children aged 6–59 months with nonpolio AFP were used to estimate OPV coverage of the overall target population. In the 10 states with high polio incidence,<sup>§§</sup> the proportion of nonpolio AFP cases in children who had never received any OPV decreased from 45% in the first quarter of 2005 to 31% in the first quarter of 2006 (Table). After the introduction and continuation of IPDs, the average proportion of nonpolio AFP cases in children who had never received any OPV in these states decreased to 18% in the fourth quarter of 2006.

# **WPV** Incidence

Of the 1,959 WPV cases reported during 2005–2006, a total of 830 (42%) occurred in children aged <2 years (1,867 [95%] were aged <5 years); 1,483 (76%) of cases were in children who had received <3 doses of OPV. During the late 1990s and early 2000s, WPV transmission in Nigeria peaked in July and August during the rainy season and reached its lowest during the dry season (7). In late 2005, the monthly case incidence of WPV1 was atypically high for the dry season.

This was followed early in 2006 by a substantial increase in the number of cases compared with the same period in earlier years. The peak in WPV1 circulation in 2006 occurred in March, with a rapid decrease in cases commencing in June (Figure 1). The decrease in WPV1 incidence was pronounced in the three states with the highest incidence of poliomyelitis (Jigawa, Kano, and Katsina) (Figure 2).<sup>¶¶</sup> During July–December 2006, WPV1 incidence for these three states was 63% lower than the same period in 2005 (64 cases in 2006 versus 174 cases in 2005). WPV3 circulation did not decrease substantially during 2006.

Of the 830 WPV polio cases with onset in 2005 (580 WPV1 and 250 WPV3), a total of 224 (27%) were reported from Kano state (117 WPV1 and 107 WPV3), and 544 (65%) were reported from nine other high-incidence states (409 WPV1 and 135 WPV3). Of the 1,129 polio cases with onset in 2006 (851 WPV1 and 278 WPV3), 355 (31%) were from Kano (303 WPV1 and 52 WPV3) and 718 (64%) were from the other nine high-incidence states (504 WPV1 and 214 WPV3). Despite the increase in case numbers in 2006, the area of transmission decreased, from 21 affected states (57% of the 37 states in Nigeria) in 2005 to 18 states (49%) in 2006. No state in southern Nigeria has detected WPV since August 2005.

In 2005, a total of 27 WPV1 and 18 WPV3 genetic virus clusters were detected circulating in Nigeria.\*\*\* In 2006, fewer WPV1 and WPV3 genetic clusters were observed; pending completion of genetic analyses and further observation in 2007, the extent of this decrease is unclear. WPV1 and WPV3 found in Cameroon, Chad, and Niger during 2005–2006 were closely related to viruses found in nearby Nigerian states.

**Reported by:** National Programme on Immunization, Federal Ministry of Health; Country Office of the World Health Organization, Abuja; Poliovirus Laboratory, Univ of Ibadan, Ibadan; Poliovirus Laboratory, Univ of Maidugari Teaching Hospital, Maidugari, Nigeria. African Regional Polio Reference Laboratory, National Institute for Communicable Diseases, Johannesburg, South Africa. Vaccine Preventable Diseases, World Health Organization Regional Office for Africa, Brazzaville, Congo. Immunization, Vaccines, and Biologicals Dept, World Health Organization Geneva, Switzerland. Div of Viral Diseases and Global Immunization Div, National Center for Immunization and Respiratory Diseases, CDC.

<sup>&</sup>lt;sup>††</sup> The current WHO operational targets for countries at high risk for polio transmission are a nonpolio AFP rate of at least two cases per 100,000 population aged <15 years at each subnational level and adequate stool specimen collection for >80% of AFP cases (i.e., two specimens collected >24 hours apart, both within 14 days of paralysis onset, and shipped on ice or frozen ice packs to a WHO-accredited laboratory and arriving at the laboratory in good condition).

<sup>&</sup>lt;sup>§§</sup> Bauchi, Borno, Jigawa, Kaduna, Kano, Katsina, Kebbi, Sokoto, Yobe, and Zamfara.

<sup>&</sup>lt;sup>55</sup> As of March 23, 2007, with laboratory investigations for January AFP cases 99% complete, 27 cases of confirmed WPV have been reported provisionally in the country for January 2007 (seven WPV1 and 20 WPV3), compared with 24 in 2005 (nine WPV1 and 15 WPV3) and 89 in 2006 (80 WPV1 and nine WPV3).

<sup>\*\*\*</sup> All WPVs are sequenced across the interval encoding the major capsid protein (VP1) (approximately 900 nucleotides), and results are analyzed to determine the likely origin (by state and LGA) of the virus. Isolates within a cluster share >95% VP1 nucleotide sequence identity.

		20	05			20	06		
No. of doses	1st quarters	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
0	45%	30%	34%	39%	31%	33%	19%	18%	
1–2	31%	37%	27%	33%	35%	36%	40%	39%	
<u>≥</u> 3	21%	31%	36%	25%	31%	28%	34%	37%	
Unknown	2%	3%	2%	3%	3%	3%	8%	6%	

TABLE. Poliovirus vaccination coverage among children aged 6–59 months with nonpolio acute flaccid paralysis, by quarter and number of doses administered — 10 states,\* Nigeria, 2005 and 2006<sup>†</sup>

\* Bauchi, Borno, Jigawa, Kaduna, Kano, Katsina, Kebbi, Sokoto, Yobe, and Zamfara.

<sup>1</sup> As of March 23, 2007.

<sup>§</sup> Analysis for trend across the four 2005 quarters was not statistically significant (chi-square Mantel Haenszel test [ $\chi^2$ mh] = 0.32, p = 0.57), across the four 2006 quarters was significant ( $\chi^2$ mh = 9.99, p = 0.002), and across all eight quarters was significant ( $\chi^2$ mh = 23.99, p<0.0001). Unknowns were combined with zero doses for this analysis.

FIGURE 1. Number of confirmed poliomyelitis cases, by wild poliovirus (WPV) type, month of onset, type of supplementary immunization activity,\* and type of vaccine administered — Nigeria, 2004–2006<sup>†</sup>



 \* Mass campaign conducted during a short period (days to weeks) during which a dose of oral poliovirus vaccine (OPV) is administered to all children aged <5 years, regardless of previous vaccination history. Campaigns can be conducted nationally or in portions of the country.
 † As of March 23, 2007.

§ Trivalent OPV.

<sup>¶</sup> Monovalent type 1 OPV.

\*\*\* National immunization days. Nationwide mass campaigns during a short period (days to weeks) during which a single dose of OPV is administered to all children aged <5 years, regardless of previous vaccination history, with an interval of 4–6 weeks between doses.</p>

<sup>††</sup> Subnational immunization days. Mass campaigns similar to NIDs but in a smaller area.

§§ Immunization plus days. OPV and other interventions are delivered using a combination of houseto-house vaccine delivery and fixed-post vaccination.

**Editorial Note:** Although SIAs were resumed in all areas in Nigeria in mid-2004, they did not sufficiently curtail the resurgence of WPV transmission that began in 2003–2004. The number of cases in northern states increased substantially in late 2005 and early 2006, particularly WPV1 cases. In December 2005, the Nigerian government mandated the National Programme on Immunization to accelerate polio eradication and enhance routine vaccination. The introduction of mOPV1 in March 2006 and improved community acceptance in response to the introduction of IPDs in May

2006 have been associated with a decrease in WPV1 monthly incidence; in 2006, only 22% of 851 WPV1 cases occurred in the second half of the year. An increase in population immunity against poliovirus infection also is indicated by the decrease in the proportion of nonpolio AFP cases in children who have received zero doses since the introduction of IPDs in May 2006.

In 2006, polio-eradication measures were concentrated in the 10 states with the most intense transmission of WPV. Because approximately 50% of the target population remains undervaccinated in high-incidence states, further improvements in immunization levels are needed to interrupt poliovirus transmission. The continued involvement of traditional and religious community leaders will be essential to increase both SIA and routine vaccination coverage.

Although the sensitivity of AFP surveillance and the number of reported cases increased in 2006 compared with 2005, WPV was found in fewer states. Genetic sequence analysis suggests that

several genetic virus clusters have been eliminated in 2006; however, by the end of the year, numerous independent chains of transmission persisted.

Compared with tOPV, mOPV1 is more effective, dose for dose, in immunizing children against WPV1; a single dose of mOPV1 has been estimated as the equivalent of 3 doses of tOPV in terms of seroconversion against WPV1 (8). Thus, in 2006, the Nigerian Polio Program decided to target preferentially WPV1 circulation using mOPV1 for most SIAs.



#### FIGURE 2. Rate\* of poliomyelitis attributed to wild poliovirus (WPV) type 1, by state<sup>†</sup> and semiannual period — Nigeria, 2006<sup>§</sup>

\* Annualized rate for each half year per 100,000 children aged <5 years.</li>
 † Only states with reported polio cases in each half year in 2006 are labeled.

<sup>§</sup> As of March 23, 2007.

<sup>¶</sup> Federal Capital Territory.

Because of its greater transmissibility, WPV1 poses a greater threat of wide geographic spread compared with WPV3, as was observed during the 2003–2004 polio outbreak in Nigeria and neighboring countries. Use of tOPV in IPDs in northern states in November 2006 and early 2007 should curtail WPV3 transmission.

For 2007, priority has been given to further improving IPDs planning and supervision in the highest-risk LGAs in the highincidence states. Communication and health-education activities will continue to be modified and strengthened according to findings from program monitoring and evaluation. These measures are expected to increase the impact of SIAs during the WPV low-transmission season and of SIAs scheduled for the remainder of the year. Nigeria achieved some key milestones in 2006 toward improving child survival. The Nigerian government and its immunization partners are committed to interrupting WPV transmission in Nigeria and to building sustainable means of enhancing child health. Continuation and expansion of IPDs and use of mOPV1 is needed to interrupt WPV1 transmission in Nigeria; periodic use of tOPV will continue to reduce WPV3 circulation.

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### Notice to Readers

# National Public Health Week — April 2–8, 2007

Since 1995, National Public Health Week has been observed each year during the first week in April. During this year's observance, April 2–8, 2007, American Public Health Association members and partners will host events throughout the United States, encouraging all persons, especially vulnerable populations, to "Take the First Step!" toward creating preparedness plans for public health threats. In conjunction with the observance, CDC's Coordinating Office for Terrorism Preparedness and Emergency Response and Public Health Training Network will host a live satellite broadcast, "Pandemic Influenza: Progress in Planning and Exercising: Federal, State, and Local Perspectives," on April 5, from 1 p.m. to 2:30 p.m. EST. A panel will discuss progress in pandemic influenza planning and exercising and answer viewers' questions. The broadcast also will be available as a live webcast.

Additional information regarding the satellite broadcast is available at http://www2a.cdc.gov/phtn. Additional information on National Public Health Week is available at http://www.nphw.org.

### Notice to Readers

# Introduction to Public Health Surveillance Course

CDC and Rollins School of Public Health at Emory University will cosponsor a course, Introduction to Public Health Surveillance, to be held May 7–11, 2007, at Emory University. The course is designed for state and local public health professionals.

The course will provide practicing public health professionals with the theoretical and practical tools necessary to design, implement, and evaluate an effective surveillance program. Topics include overview and history of surveillance systems; planning considerations; sources and collection of data; analysis, interpretation, and communication of data; surveillance systems technology; ethics and legalities; state and local concerns; and future considerations. Tuition will be charged.

Additional information and applications are available from Emory University by mail (Hubert Global Health Dept., 1518 Clifton Rd. NE, Rm. 746, Atlanta, GA 30322), by telephone (404-727-3485), by fax (404-727-4590), online (http://www.sph.emory.edu/epicourses), or by e-mail (pvaleri@sph.emory.edu).

### Erratum: Vol. 56, No. 10

In the report, "Fruit and Vegetable Consumption Among Adults—United States, 2005," on page 215, the second sentence in the first complete paragraph should read, "The prevalence of consuming fruit two or more times per day was 28.7% among **men** and 36.4% among **women.**" Vol. 56 / No. 12

**MMWR** 



**SOURCE:** Health data for all ages. National Health Interview Survey, 2003–2005. Hyattsville, MD: US Department of Health and Human Services, CDC. Available at <a href="http://209.217.72.34/hdaa/tableviewer/tableview.aspx?">http://209.217.72.34/hdaa/tableviewer/tableview.aspx?</a> reportId=186.

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending March 24, 2007 (12th Week)\*

	Current	Cum	5-year weekly	Total o	cases rep	ported fo	r previou	is years	
Disease	week	2007	averaget	2006	2005	2004	2003	2002	States reporting cases during current week (No.)
Anthrax	_	_	_	1	_	_	_	2	
Botulism:									
foodborne	_	_	0	19	19	16	20	28	
infant	_	13	2	95	85	87	76	69	
other (wound & unspecified)	_	2	1	45	31	30	33	21	
Brucellosis	_	22	1	119	120	114	104	125	
Chancroid	_	1	1	34	17	30	54	67	
Cholera	—	—	_	6	8	5	2	2	
Cyclosporiasis§	1	10	3	135	543	171	75	156	FL (1)
Diphtheria	—	_	_	_	_		1	1	
Domestic arboviral diseases <sup>§,1</sup> :									
California serogroup	—	—	0	63	80	112	108	164	
eastern equine	—	_	_	7	21	6	14	10	
Powassan	_	_		1	1	1		1	
St. Louis	—	_	0	9	13	12	41	28	
western equine	_	_		_	_	_	_	_	
Ehrlichiosis <sup>3</sup> :		10		500	700	507	000		
human granulocytic	_	12	1	569	786	537	362	511	
numan monocytic	_	23	1	500	506	338	321	216	
numan (otner & unspecified)	_	/	0	226	112	59	44	23	
Haemophilus Influenzae,									
invasive disease (age <5 yrs):		0	0	0	0	10	20	24	
serolype b	_	10	0	100	105	19	117	144	
		70	5	247	217	133	207	144	
Hanson diseases	-	12	2	247	87	105	227	96	NTC(1), CO(1), AZ(1), OH(1)
Hantavirus pulmonary syndrome		2	0	37	26	24	26	10	
Hemolytic uremic syndrome postdiarrheal§	1	18	2	272	20	200	178	216	FL (1)
Henatitis C viral acute	13	140	22	839	652	713	1 102	1 835	NY (2) OH (1) MI (1) WV (2) NC (4) ID (1) OB (2)
HIV infection pediatric (are <13 vrs) <sup>††</sup>			5	52	380	436	504	420	(1), (1), (1), (1), (1), (1), (2), (1), (1), (1), (1), (1), (1), (1), (1
Influenza-associated pediatric mortality <sup>§,§§</sup>	4	39	1	41	45		N	N	TN (1) II (2) A7 (1)
Listeriosis	1	89	10	814	896	753	696	665	NY (1)
Measles <sup>11</sup>		2	1	52	66	37	56	44	(.)
Meningococcal disease, invasive***:		_	-						
A, C, Y, & W-135	1	41	6	232	297		_	_	TX (1)
serogroup B	_	19	4	144	156	_	_	_	
other serogroup	_	4	1	25	27	_	_	_	
unknown serogroup	5	155	21	716	765	_	_	_	OH (1), IN (1), MO (1), FL (1), AZ (1)
Mumps	4	175	45	6,541	314	258	231	270	NY (1), FL (1), WA (2)
Plague	—	—	_	16	8	3	1	2	
Poliomyelitis, paralytic	—	_	—	—	1	—	—	_	
Poliovirus infection, nonparalytic§	—	—	—	N	N	N	N	N	
Psittacosis <sup>§</sup>	_	3	0	20	16	12	12	18	
Q fever <sup>s</sup>	2	27	2	178	136	70	71	61	MO (1), NC (1)
Rabies, human	_	_	0	3	2	7	2	3	
	_	1	0	8	11	10	(	18	
Rubella, congenital syndrome	_	_	0	1	1	_	1	1	
SARS-COV <sup>3/333</sup>	_	_	0	_	_	_	8	IN	
Smallpox <sup>s</sup>	-			101	100	100	101	110	
Surepilococcal loxic-shock syndromes	1	14	4	101	129	132	101	410	
Totopus	I	35	<i>,</i>	22	329	303	413	412	
Toxic-shock syndrome (stanbylococcal)§		1/	3	96	Q()	95	133	100	
Trichinellosis			0	1/	16	5	6	1/	
Tularemia	_	2	0	89	154	134	129	90	
Typhoid fever	1	45	5	317	324	322	356	321	IN (1)
Vancomycin-intermediate Staphylococcus aure	us <sup>§</sup> —		õ	4	2		N	N	
Vancomycin-resistant Staphylococcus aureus	_	_	_	1	3	1	N	N	
Vibriosis (non-cholera <i>Vibrio</i> species infections)	)§ 1	19	_	Ň	Ň	Ň	N	N	FL (1)
Yellow fever		_	_	_	_	_	_	1	. /

- No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts.

Incidence data for reporting years 2006 and 2007 are provisional, whereas data for 2002, 2003, 2004, and 2005 are finalized. Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 t

preceding years. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf. Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm. §

Includes both neuroinvasive and non-neuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (proposed) (ArboNET Surveillance). Data for West Nile virus are available in Table II.
 \*\* Data for *H. influenzae* (all ages, all serotypes) are available in Table II.
 \*\* Under Generative Content of the University of the Unive

Updated manship in the provision of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (proposed). Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveil-lance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly. **††** 

§§ Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases (proposed). A total of 40 cases were reported for the 2006–07 flu season.

11 No measles cases were reported for the current week.

Data for meningococcal disease (all serogroups) are available in Table II. No rubella cases were reported for the current week. +++

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

<u></u>			Chlamyd	lia†			Coccid	ioidomy	cosis			Cry	otosporid	iosis	
		Pre	vious	-			Pre	vious				Pre	vious		
Reporting area	Current week	<u>52 v</u> Med	veeks Max	Cum 2007	Cum 2006	Current week	52 v Med	weeks Max	Cum 2007	Cum 2006	Current week	52 v Med	veeks Max	Cum 2007	Cum 2006
United States	8,537	19,868	22,939	193,060	224,929	80	151	478	1,792	1,990	15	68	301	506	597
New England Connecticut Maine <sup>§</sup> Massachusetts New Hampshire Rhode Island <sup>§</sup> Vermont <sup>§</sup>	686 231 55 291 31 61	668 184 45 304 39 64 20	1,358 827 72 604 69 108 45	7,324 1,505 597 3,739 460 814 209	6,439 1,250 461 3,278 393 755 302	N 		0 0 0 0 0	N  -  -	N  -  -  -		3 0 0 0 0 0	22 5 6 14 5 5	21 5 7 4 	71 38 7 19 5 
Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania	1,828 166 496 652 514	2,478 390 502 757 777	4,052 543 2,634 1,325 1,006	26,116 3,420 4,972 8,742 8,982	27,446 4,373 4,427 9,543 9,103	N N N N N	0 0 0 0 0	0 0 0 0 0	N N N N	N N N N	2 1 1	10 0 3 2 4	33 3 13 12 18	63 — 18 10 35	97 3 18 28 48
<b>E.N. Central</b> Illinois Indiana Michigan Ohio Wisconsin	1,281 365 361 403 58 94	3,171 1,005 374 757 625 370	4,167 1,296 631 1,225 1,455 527	30,374 9,821 4,664 8,399 3,805 3,685	39,086 12,871 4,822 6,385 9,842 5,166	1 — 1 N	1 0 1 0	3 0 3 2 0	9 7 _2 N	8  5 3 N	3 1 2 —	16 2 1 2 5 5	110 22 18 9 33 53	94 3 8 21 44 18	133 20 6 22 49 36
W.N. Central lowa Kansas Minnesota Missouri Nebraska <sup>§</sup> North Dakota South Dakota	550 125 — 311 58 13 43	1,192 160 147 246 450 102 30 50	1,445 224 271 322 628 180 64 84	12,496 1,925 1,529 1,826 5,220 1,125 312 559	14,495 2,075 1,905 3,053 5,276 1,150 448 588	N       N N N	0 0 0 0 0 0 0	54 0 54 1 0 0	2 N 2 N N N N	N N     N N N N N N N N		12 2 1 3 2 1 0 1	77 28 8 25 21 16 1 7	77 13 11 20 13 5 1 14	73 5 14 30 16 4 
S. Atlantic Delaware District of Columbia Florida Georgia Maryland <sup>§</sup> North Carolina South Carolina <sup>§</sup> Virginia <sup>§</sup> West Virginia	699 69 93  100  437	3,755 69 63 960 702 341 624 384 464 58	6,115 111 1,187 3,022 466 1,772 2,105 687 96	32,329 858 1,062 3,300 5,705 3,603 6,449 5,402 5,398 552	42,091 864 638 10,773 7,161 3,970 9,100 3,245 5,771 569		0 0 0 0 0 0 0 0 0 0	1 0 0 0 1 0 0 0 0	1 N N 1 N N N N	2 N N 2 N N N	4 4 	17 0 8 5 0 1 1 0	68 3 2 32 12 2 11 14 5 3	163 2 3 84 44 4 7 10 8 1	147 
E.S. Central Alabama <sup>§</sup> Kentucky Mississippi Tennessee <sup>§</sup>	769 61 123  585	1,456 423 137 375 519	2,085 651 691 957 711	16,475 3,967 1,324 4,235 6,949	17,170 5,749 2,063 3,540 5,818	N N N N	0 0 0 0	0 0 0 0	N N N N	N N N	4 3  1	3 0 1 0 1	14 11 3 3 5	26 12 8 3 3	13 5 4 1 3
<b>W.S. Central</b> Arkansas <sup>§</sup> Louisiana Oklahoma Texas <sup>§</sup>	1,679 173 46 472 988	2,150 154 286 252 1,450	3,025 337 610 423 1,905	22,060 1,805 1,131 3,143 15,981	24,963 1,873 4,129 2,316 16,645	N N N	0 0 0 0	1 0 1 0	N N N	N N N	1  1	5 0 1 0 3	45 2 9 4 36	22 2 5 10 5	23 1  9 13
Mountain Arizona Colorado Idaho <sup>§</sup> Montana <sup>§</sup> Nevada <sup>§</sup> New Mexico <sup>§</sup> Utah Wyoming <sup>§</sup>	373 257 78 14 — 24	1,269 431 319 46 50 107 182 97 27	2,018 993 416 253 143 397 314 201 54	9,671 2,581 1,781 549 557 1,652 1,270 989 292	14,661 4,290 3,595 788 493 1,579 2,448 1,137 331	77 77 N N 	108 105 0 0 1 0 1 0	201 199 0 0 3 3 4 0	1,251 1,228 N N 7 5 11	1,504 1,468 N N 16 4 14 2		3 0 1 0 0 0 0 0	39 3 7 26 1 5 3 11	26 7 11 1 	22 3 4 2 4 3 1 5
Pacific Alaska California Hawaii Oregon <sup>§</sup> Washington	672 62 496  114 	3,381 86 2,677 107 162 352	4,067 157 3,187 133 394 548	36,215 984 28,320 976 2,106 3,829	38,578 935 29,778 1,342 2,221 4,302	2 N 2 N N N	53 0 53 0 0	299 0 299 0 0 0	529 N 529 N N N	476 N 476 N N N	1   	1 0 0 1 0	5 1 0 1 4 0	14   14	18 — — 18 —
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	U U — U	0 0 108 4	46 0 236 15	U U 1,770 U	U U 1,146 U	U U N U	0 0 0 0	0 0 0 0	U U N U	U U N U	U U N U	0 0 0 0	0 0 0 0	U U N U	U U  U

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending March 24, 2007, and March 25, 2006

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. \* Incidence data for reporting years 2006 and 2007 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly. Chamydia refers to genital infections caused by *Chlamydia trachomatis*. S Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

			Giardiasi	s			G	onorrhea	a		Hae	<i>mophilu</i> All age	s influen. s, all ser	z <i>ae</i> , invas otypes†	sive
	Current	Prev 52 w	ious	Cum	Cum	Current	Pre 52	evious	Cum	Cum	Current	Prev 52 w	vious	Cum	Cum
Reporting area	week	Med	Max	2007	2006	week	Med	Max	2007	2006	week	Med	Max	2007	2006
United States	116	309	531	2,622	3,323	3,349	6,849	8,664	62,785	77,292	23	43	137	509	541
New England Connecticut Maine <sup>§</sup> Massachusetts New Hampshire Bhode Island <sup>§</sup>	 	18 5 4 0 0	44 25 15 18 9 17	106 48 34 	229 45 14 120 6 11	99 33 3 47 3 12	109 42 2 47 3 9	259 203 96 9 19	1,154 314 19 652 34 121	1,087 325 31 552 56 111	 	2 0 0 0 0	12 7 4 7 2 3	22 15 4 	29 8 4 14  1
Vermont§	—	3	12	23	33	1	1	5	14	12	—	0	2	—	2
Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania	19  11 8	65 7 26 17 14	120 16 101 33 35	489 36 187 144 122	673 104 178 227 164	526 96 137 123 170	636 104 122 177 223	1,351 158 865 376 336	7,151 1,123 1,339 2,017 2,672	7,574 1,252 1,223 2,372 2,727	4 2 1 1	10 1 3 2 3	25 4 14 6 8	107 8 27 29 43	123 20 22 31 50
<b>E.N. Central</b> Illinois Indiana Michigan Ohio Wisconsin	22 	41 9 0 13 15 9	96 27 0 38 32 24	355 29 N 129 162 35	579 131 N 171 166 111	616 124 173 255 28 36	1,272 363 154 300 306 134	2,225 488 288 880 718 179	11,866 3,465 1,919 3,675 1,485 1,322	15,856 4,885 2,138 2,537 4,553 1,743	  	6 1 0 2 0	14 5 10 5 6 3	50 3 6 8 33 —	79 23 12 12 19 13
W.N. Central Iowa Kansas Minnesota Missouri Nebraska <sup>§</sup> North Dakota South Dakota	10   9 	23 5 3 0 9 2 0 1	117 16 11 87 28 9 4 6	193 41 24 7 97 16 	305 55 38 75 97 17 4 19	145 21 — 111 111 2	383 37 43 66 196 24 2 6	518 63 90 87 269 48 6 15	4,120 430 540 2,354 251 14 61	4,441 438 556 718 2,332 285 29 83	2 2 	3 0 1 0 0 0	22 1 2 17 5 2 2 0	29 4 10 12 2 1 	27 3 10 11 
S. Atlantic Delaware District of Columbia Florida Georgia Maryland <sup>§</sup> North Carolina South Carolina <sup>§</sup> Virginia <sup>§</sup> West Virginia	35  - 24  - 2 5 4	51 1 23 12 4 0 2 9 0	97 4 7 44 26 11 0 8 28 21	514 6 15 242 123 39 — 10 74 5	475 6 15 201 91 46  21 93 2	874 23 40  48 608  155 	1,613 28 35 446 349 119 314 167 117 19	2,696 44 63 549 1,539 159 571 1,135 238 44	13,405 346 484 1,564 2,377 1,245 3,809 2,177 1,244 159	18,178 346 426 4,934 3,303 1,575 4,562 1,318 1,560 154	8  5  1 1 1	11 0 3 2 0 1 1 0	28 3 2 9 6 5 8 3 7 6	142 4 2 45 41 24 11 10 1 4	135 — 42 33 18 14 11 13 4
E.S. Central Alabama <sup>§</sup> Kentucky Mississippi Tennessee <sup>§</sup>	3 2 N N 1	8 4 0 0 4	34 22 0 0 12	73 33 N N 40	85 39 N N 46	214 22 27 — 165	587 194 53 147 194	878 286 268 434 240	5,951 1,633 445 1,526 2,347	6,867 2,654 735 1,348 2,130	 	2 0 0 1	9 5 1 1 6	29 7 1  21	33 5 3 1 24
<b>W.S. Central</b> Arkansas <sup>§</sup> Louisiana Oklahoma Texas <sup>§</sup>	2 1 1 N	7 3 1 2 0	21 13 6 11 0	65 30 10 25 N	34 16 — 18 N	586 71 13 206 296	959 80 172 97 575	1,480 142 366 238 928	8,944 835 890 1,395 5,824	10,455 1,090 2,378 757 6,230	1  1	1 0 1 0	26 2 3 24 2	28 2 3 22 1	22 2 1 18 1
Mountain Arizona Colorado Idaho <sup>§</sup> Montana <sup>§</sup> Nevada <sup>§</sup> New Mexico <sup>§</sup> Utah Wyoming <sup>§</sup>	12 5 2 	29 3 10 3 2 1 1 7	69 11 26 12 11 9 6 25 4	259 46 92 22 12 14 16 50 7	306 35 101 35 15 20 16 79 5	77 63 14 	268 106 71 2 3 34 30 17 2	455 220 93 20 135 65 28 5	1,969 571 524 25 22 416 239 156 16	3,210 1,048 841 47 27 555 425 223 44	7 4 3 — — —	4 2 1 0 0 0 0 0 0	14 9 4 1 0 2 4 1	77 40 17 2 	71 29 21 
Pacific Alaska California Hawaii Oregon <sup>§</sup> Washington	13  2  3 8	60 1 43 1 8 7	147 17 71 4 14 68	568 14 407 12 85 50	637 6 491 13 92 35	212 5 184  23 	787 11 645 15 26 77	971 27 833 30 46 131	8,225 102 6,979 108 241 795	9,624 122 7,989 237 333 943	1   1	2 0 0 1 0	8 2 6 1 6 1	25 4  21 	22 2 5 3 11 1
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	U U 3 U	0 0 5 0	0 0 19 0	U U 39 U	U U 15 U	U U U U	0 0 6 0	2 0 16 4	U U 91 U	U U 89 U	U U U U	0 0 0 0	0 0 2 0	U U — U	U U U U

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

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

<sup>1</sup> Incidence data for reporting years 2006 and 2007 are provisional.
 <sup>1</sup> Data for *H. influenzae* (age <5 yrs for serotype b, nonserotype b, and unknown serotype) are available in Table I.</li>
 <sup>9</sup> Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

			Hepatit	is (viral, a	cute), by ty	/pe <sup>†</sup>		_				ما	gionellos	le	
		Prev	A ious				Prev	ious				Prev	ious	015	
	Current	52 w	eeks	Cum	Cum	Current	<u>52 w</u>	reeks	Cum	Cum	Current	<u>52 w</u>	eeks	Cum	Cum
Reporting area	<u>wеек</u> 18	60	116	511	869	<u>жеек</u> 35	83	287	699	909	<u>wеек</u> 17	101ed	109	2007	2006
New England		2	20	5	66		2	207	11	303			103	203	16
Connecticut	_	1	3	4	8	_	0	3	3	17	_	Ó	9	2	3
Maine <sup>§</sup>	_	0	2	_	3	_	0	2	1	4	_	0	2	_	2
New Hampshire	_	0	16	1	12	_	0	1	2	4	_	ŏ	0	_	1
Rhode Island <sup>§</sup>	_	0	2	_	1	_	0	4	4	1	_	0	6	1	1
	- 1	7	10	62	71	- 1	0	10	75	110		15	52	77	01
New Jersey	_	1	4	6	25	_	2	6	16	33		2	11	11	13
New York (Upstate)	1	2	12	16	12	_	1	14	11	11	4	5	30	25	30
Pennsylvania	_	2	4	14	12	1	2	7	36	41	3	5	19	35	31
E.N. Central	3	6	13	65	70	3	9	19	87	112	6	10	30	63	54
Illinois Indiana	2	1	4	17	14	_	2	5 17	9	41 4	_	1	11 5	4	9
Michigan	_	2	8	26	28	1	3	10	36	40		3	10	24	11
Ohio Wisconsin	1	1	4	17	20 5	2	3	10 3	36 4	25 2	6	4	19 3	34 1	21 10
W.N. Central	1	2	8	14	29	1	3	13	31	34	1	1	15	11	7
lowa	—	0	1	4	2	_	0	2	6	5	—	0	3	1	—
Minnesota	1	0	7	1	15	_	0	12	2	1	1	0	11	2	_
Missouri	_	1	3	5	6	_	1	5	16	22	—	0	2	6	5
Nebraska <sup>s</sup> North Dakota	_	0	2	2	3	1	0	3	3	2	_	0	2	1	2
South Dakota	_	Ő	3	2	2	_	Ő	1	1	1	_	Ő	1	1	—
S. Atlantic	9	8	27	93	139	23	23	55	212	256	1	10	25	75	65
Delaware District of Columbia	_	0	2		4	_	0	4	3	11	_	0	2	1	1
Florida	7	3	13	41	49	13	7	16	79	97	1	3	10	33	27
Georgia Marvland <sup>§</sup>	_	1	5	11	8	_	3	8	28 19	26 44	_	1	5	11 15	1
North Carolina	2	Ö	11	5	33	4	1	16	36	48	_	ō	5	7	9
South Carolina <sup>§</sup>	_	0	3	3	7 15	2	2	5	16	16	_	0	2	3	1
West Virginia	_	0	3			—	0	23	7	4	_	Ó	4	2	1
E.S. Central	_	2	7	21	29	3	6	20	51	75	_	2	9	12	9
Alabama <sup>s</sup> Kentucky	_	0	2	2	2 11	1	1	10 5	13	22 18	_	0	2	1	1
Mississippi	_	0	5	5	1	_	1	7	7	8	_	ò	2	_	
Tennessee§	_	1	5	10	15	2	3	7	30	27	_	1	7	6	6
W.S. Central	—	7	20	36	66 14	—	18	128	103	135	—	1	12	11	4
Louisiana	_	0	4	4	2	_	1	5	14	4	_	0	2	_	_
Oklahoma Toxas <sup>§</sup>	—	0	3		3	—	1	14	8 74	1	—	0	6	 10	1
Mountain	3	5	15	29 69	47	1	3	100	24	50		2	12	20	13
Arizona	3	3	13	61	58	_	0	2		18	_	1	4	6	2
Colorado	_	1	3	5	14	1	0	4	5	9	_	0	2	3	3
Montana <sup>§</sup>	_	0	23	_	4	_	0	0		4	_	0	1	_	
Nevada§	—	0	1	2	5	—	1	5	8	11	—	0	2	2	3
Utah	_	0	2		6	_	0	2	3 5	5	_	0	2	2	3
Wyoming <sup>§</sup>	_	0	1	—	_	_	Ō	1	_	_	—	Ō	1	1	_
Pacific	1	15	52	146	305	3	11	38	105	99	2	1	11	17	27
California	_	13	48	132	285	1	8	26	2 74	71	_	1	11	14	27
Hawaii	—	0	2	2	5	_	0	1		1	—	0	0	—	_
Uregon <sup>®</sup> Washington	1	1 1	3	6 5	8 6	1 1	2	5 12	21 8	18 8	2	0	0 1	3	_
American Samoa	U	0	0	U	U	Ŭ	0	0	- U	U	– U	0	0	U	U
C.N.M.I.	Ū	Ō	Ō	Ū	Ū	Ū	Ō	Ō	Ū	Ū	Ū	Ō	Ō	Ū	Ű
Guam Puerto Rico	_	0 1	0 10	8	12	_	0	0	11	4	_	0	0 1	_	_
U.S. Virgin Islands	U	Ö	0	Ŭ	Ū	U	0	õ	Ŭ	Ū	U	ŏ	Ö	U	U

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. \* Incidence data for reporting years 2006 and 2007 are provisional. \* Data for acute hepatitis C, viral are available in Table I. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS). Med: Median. Max: Maximum.

		L	yme disea	ase				Malaria			Men	ingococ All	cal disea	ise, invasi ups	ive <sup>†</sup>
	Current	Prev 52 w	vious veeks	Cum	Cum	Current	Prev 52 v	vious	Cum	Cum	Current	Pre 52 v	vious	Cum	Cum
Reporting area	week	Med	Max	2007	2006	week	Med	Max	2007	2006	week	Med	Max	2007	2006
United States	30	250	1,019	1,213	1,241	1	25	46	129	273	6	19	40	219	342
New England	1	20	260	73	87	_	0	6	_	8	_	1	3	5	13
Connecticut Maino <sup>§</sup>	—	9	227	20	37	_	0	3	_	1	_	0	2	2	3
Massachusetts	_	0	3	20	18	_	0	3	_	5	_	0	2	_	6
New Hampshire	_	3	95	20	15	_	0	3	—	1	_	0	2	_	2
Vermont§	1	1	93 15	5	2	_	0	0	_	1	_	0	1	2	_
Mid. Atlantic	21	153	571	592	835	_	5	18	28	76	_	2	11	20	50
New Jersey		26	187	102	229	_	1	7	_	22	_	0	2		4
New York (Upstate)	14	57	392 24	5	284 12	_	3	9	ь 16	38	_	1	4	5 4	20
Pennsylvania	7	45	237	334	310	—	1	4	6	10	—	0	4	11	21
E.N. Central	1	12	158	17	63	_	3	10	21	34	2	2	12	27	41
Indiana	_	0	3	_	_	_	0	6 2	6 1	12	1	0	3	3	12
Michigan	1	1	5	6	3	—	0	2	5	5	_	Ō	4	8	9
Ohio Wisconsin	_	0 11	5 154	2	7 53	_	0	2	4	9	1	1	4	9	11
W.N. Central	_	5	169	20	29	_	1	13	11	5	1	1	5	23	14
lowa	_	1	8	1	4	_	0	1	1	1	_	0	3	6	1
Kansas Minnesota	_	0	2 167	4 15	24	_	0	2 12	7	2	_	0	1	1	2
Missouri	—	ō	2	_	_	_	Ő	1	1	1	1	Ő	3	9	7
Nebraska <sup>§</sup> North Dakota	_	0	2	_	1	_	0	1	_2	_	_	0	1	1	4
South Dakota	_	0	1	_	_	_	Ő	Ó	_	1	_	0	1	1	_
S. Atlantic	7	42	134	467	196	1	5	15	36	76	1	4	10	34	62
Delaware District of Columbia	2	7	28 7	73	66 5	_	0	1	1	1	_	0	1	_	2
Florida	3	1	5	13	6	1	1	4	9	9	1	1	7	11	24
Georgia	—	0	1		1	_	1	6	4	21	_	0	3	5	5
North Carolina	1	20	4	1	7	_	0	4	4	20	_	0	6	3	11
South Carolina <sup>§</sup>	_	0	2	2	1	—	0	2		3	—	0	2	3	5
West Virginia	_	0	36 14	52	_	_	0	4		13	_	0	2		9
E.S. Central	_	0	4	5	1	_	0	3	6	6	_	1	3	11	14
Alabama§	—	0	3	1	1	—	0	2	-	2	_	0	2	2	2
Mississippi	_	0	1	_	_	_	0	1	1	1	_	0	3	3	3
Tennessee§	—	0	2	4	—	—	0	2	4	2	—	0	2	6	6
W.S. Central	—	1	6	5	2	—	1	7	3	7	1	1	9	24	20
Louisiana	_	0	1	_	_	_	0	2	1	1	_	0	4	8	3
Oklahoma	_	0	0		_	_	0	2	1	1	_	0	3	4	5
lexas <sup>3</sup>	_	1	6	5	2	_	1	6	1	5	1	0	9	11	9
Arizona	_	0	4		2	_	0	3	о 4	2	1	0	5 2	20 3	25 10
Colorado	—	0	1	—	—	—	0	2	1	6	_	0	2	4	10
Idano <sup>s</sup> Montana <sup>§</sup>	_	0	2	1	_	_	0	1	_	1	_	0	1	2	1
Nevada§	_	0	1	1	_	_	0	1	—		_	Ō	1	3	1
New Mexico <sup>§</sup>	_	0	1	_	_	_	0	1	1	1	_	0	1	1	-
Wyoming <sup>§</sup>	_	0	1	_	_	_	Ő	0	_	_	_	0	2	_	_
Pacific	_	2	17	32	26	_	4	13	18	44	_	5	10	55	103
Alaska California	_	0	1 14	2	26	_	0	4	2 12	3 34	_	0 3	1 x	1 37	2 67
Hawaii	N	Ō	0	N	N	_	0	2		—	_	ŏ	2	2	3
Oregon <sup>§</sup> Washington	—	0	2	4	—	—	0	3	3	4	_	0	3	8	16
American Samoa		0	о О				0	, 0	1	ы П		0	5	1	10
C.N.M.I.	U	0	0	U	U	U	0	0	U	U	U	0	0	_	_
Guam		0	0			—	0	0		—	—	0	0	_	_
U.S. Virgin Islands	U	0	0	U	U	U	0	0	U	U	U	0	0	3	

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			Pertussis	\$			Rab	ies, anim	al		Ro	ocky Mo	untain sp	otted feve	er
		Prev	ious				Pre	vious				Pre	/ious	-	_
Reporting area	Current	<u>52 w</u>	<u>eeks</u> Max	Cum 2007	Cum 2006	Current	<u>52 v</u> Med	Max	Cum 2007	Cum 2006	Current	<u>52 v</u> Med	<u>/eeks</u> Max	Cum 2007	Cum 2006
United States	57	250	885	1.422	3.263	38	106	173	633	1.098	4	29	118	82	262
New England	_	21	53	46	343	3	11	26	86	114	_	0	1	_	
Connecticut	_	1	9		19	_	4	14	38	26		Ö	0		_
Maine <sup>⊤</sup> Massachusetts	_	2	15 28	24	20 263	_	2	8 17	15	17 49	N	0	0	N	N
New Hampshire	_	2	27	7	200	_	1	5	8	4	_	Ő	1	_	
Rhode Island <sup>†</sup>	_	0	17	15	11		0	3	6	4	—	0	1	_	_
		1	14	10	28	3	2	5	19	14	_	0	0		
New Jersev		35	156	298	392 97	_	16	57	12	159	_	2	6 2	10	10
New York (Upstate)	9	20	150	208	103	_	Õ	ŏ	_	_	_	ŏ	2	—	_
New York City	2	0	8	81	20 172	_	1	5	16 56	150	_	0	3	2	2
	10	10	70	330	516		2	19	1	155		1	+ 6	1	2
Illinois		10	23	36	122	_	0	7	_	1	_	0	4	_	1
Indiana	_	3	37	2	39	—	0	2	—	_	_	0	1		_
Michigan Obio	2 10	11 12	39 56	83 194	104 176	_	0	5 9	1	2	_	0	1	1	2
Wisconsin		3	8	15	75	_	0	0	_	_	_	0	1	_	
W.N. Central	2	18	96	101	390	3	6	20	28	35	_	3	14	13	4
lowa	—	4	16	30	109	—	1	7	2	6	_	0	1	—	_
Kansas Minnesota	_	4	13 80	40	101	_	1	5	16	11	_	0	1	_	_
Missouri	2	4	10	17	120	1	1	6	2	3	_	2	12	13	4
Nebraska <sup>†</sup>	—	1	4	3	51	_	0	0	_	_	—	0	5	—	
North Dakota South Dakota	_	0	9 4	1 10	4 5	2	0	4	5	11	_	0	0	_	_
S. Atlantic	13	18	164	207	241	23	38	62	365	559	4	11	68	43	234
Delaware	_	0	1	1	1		0	0	_	_	_	0	3	1	3
District of Columbia	5	0	2	2	3	_	0	0	30	176	_	0	1	3	6
Georgia		4	20		7	_	4	16	36	50	_	1	5	1	3
Maryland <sup>+</sup>	_	2	6	26	53		6	12	50	84		1	7	7	12
North Carolina	5	03	111	59 10	43	15	9	22	93	70	4	3	61	22	206
Virginia <sup>†</sup>	_	2	19	21	42	8	12	27	121	135	_	2	13	6	2
West Virginia	—	0	19	3	2	—	2	8	16	16	—	0	2	—	_
E.S. Central	_	6	24	54	65	_	4	13	20	39	_	5	27	13	8
Alabama⊺ Kentucky	_	1	1/	16	15 12	_	1	8	6	13 4	_	1	9	5	2
Mississippi	_	Ő	6	6	9	_	Ő	2	_	_	_	Ő	1	_	
Tennessee <sup>†</sup>	_	3	11	32	29	_	2	8	14	22	_	4	22	8	6
W.S. Central	2	17	147	52	134	1	3	34	14	136	—	1	28	—	3
Arkansas <sup>,</sup> Louisiana	_	1	13	2	9	1	0	5	5	1	_	0	10	_	- 3
Oklahoma	_	õ	9	_	2	_	ĩ	9	9	9	_	Ő	18	_	_
Texas <sup>†</sup>	2	14	134	47	120	_	0	29	_	126	_	0	6	—	_
Mountain	17	41	87	275	810	2	3	28	12	23	—	0	5	2	_
Colorado	3	8	28 26	54 83	332		2	0			_	0	2	1	_
Idaho†	_	ĩ	7	9	23	_	Õ	24	_	_	_	ŏ	3	1	
Montana <sup>†</sup>	—	1	8	9	31	—	0	2	—	—	_	0	2	—	_
Nevada New Mexico†	_	2	9	3 6	15	_	0	2	_	1	_	0	2	_	_
Utah	8	13	39	101	222	_	Õ	1	1	_	_	ŏ	2	—	
Wyoming <sup>+</sup>	_	1	8	10	13	_	0	2	_	—	_	0	1	—	_
Pacific	_	33	229	59	372	6	4	12	35	29		0	1		
California	_	1 22	ъ 226	×	199	1 5	0	ь 11	15	22	IN	0	1	IN	N
Hawaii	_	1	7	6	34	Ň	õ	0	Ň	N	Ν	õ	Ō	Ν	Ν
Oregon <sup>†</sup>	—	1	6	18	48	—	0	4	—	—		0	1		
vvasningion		4	40	21	60		0	0			IN	0	0	IN	IN
American Samoa C N M I	U	0	0	U 11	U	U	0	0	U	U	U	0	0	U	U
Guam	_	ŏ	ŏ	_	_	_	õ	ŏ	_	_	Ň	õ	õ	Ň	N
Puerto Rico		0	1				1	6	15	25	N	0	0	N	N
		0	0		U	11	0	0	(I	0	11	0	0	U	

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		s	almonello	osis		Shiga	oxin-pro	ducing E	E. coli (ST	EC)†		:	Shigellos	is	
		Prev	/ious				Pre	vious				Pre	vious		
Reporting area	Current week	52 w Med	/eeks Max	Cum 2007	Cum 2006	Current week	52 v Med	Max	Cum 2007	Cum 2006	Current week	Med	weeks Max	Cum 2007	Cum 2006
United States	287	821	1,339	5,418	6,336	17	75	175	303	426	122	258	521	2,046	2,175
New England Connecticut Maine <sup>§</sup>	1 	18 0 2	82 59 14	112 59 21	730 503 13		2 0 0	16 1 8	8 1 4	103 84 1		2 0 0	14 8 2	11 8 2	113 67
Massachusetts New Hampshire Rhode Island <sup>§</sup> Vermont <sup>§</sup>		0 3 1	53 25 10		185 18 8		0 0 0	9 3 2	3	13 2 1 2		0 0 0	11 2 3 2	1	39 3 3
Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania	26 — 23 1 2	90 16 27 24 30	191 49 93 50 67	723 49 229 174 271	714 135 131 199 249	1  - 1	8 1 3 0 2	62 16 14 47	34 1 15 2 16	34 9 7 5 13	2 2 	15 3 4 5 1	47 35 43 14 6	87 6 23 46 12	195 63 56 54 22
<b>E.N. Central</b> Illinois Indiana Michigan Ohio Wisconsin	26 — 14 1 11	105 27 15 18 23 17	198 61 55 35 56 27	547 43 87 125 191 101	847 237 72 161 226 151	2  -   2  -	10 1 1 3 2	59 7 8 6 18 39	44 2 1 8 30 3	62 9 16 12 19	8 2 6	24 10 2 3 3	68 50 17 5 14 10	104 16 12 8 52 16	209 74 20 55 37 23
W.N. Central lowa Kansas Minnesota Missouri Nebraska <sup>§</sup> North Dakota South Dakota	23 1 10 10 2 	48 8 7 11 14 3 0 3	109 26 16 60 35 9 5 11	422 56 58 95 145 26 7 35	379 63 60 86 108 36 3 23	1 1 	11 1 3 2 1 0 0	45 38 4 26 13 11 0 5	39 1 5 18 10 5 —	59 12 23 20 3 	35 — 3 31 1 —	38 2 4 11 1 0 6	77 14 11 24 69 14 18 24	413 11 7 66 309 4 4 12	207 6 20 20 119 23 2 17
S. Atlantic Delaware District of Columbia Florida Georgia Maryland <sup>§</sup> North Carolina South Carolina <sup>§</sup> Virginia <sup>§</sup> West Virginia	114 — 86 — 13 2 5 8	224 2 1 95 34 13 29 19 20 1	395 10 4 176 66 33 130 55 58 31	1,834 10 8 780 335 124 310 121 131 15	1,510 15 645 201 105 318 74 125 12	6 — 1 — 1 — 3 1	12 0 2 1 2 2 0 3 0	32 3 1 9 7 9 11 3 11 5	89 4  23 8 15 16  22 1	63 — 13 10 12 17 2 9 —	46 — 46 — — —	70 0 33 24 1 1 0 2 0	143 2 5 76 54 10 14 10 9 2	816 3 513 252 16 9 7 13	518 
E.S. Central Alabama <sup>§</sup> Kentucky Mississippi Tennessee <sup>§</sup>	16 5 3 — 8	52 10 9 12 17	138 70 23 42 32	331 78 80 36 137	316 115 62 51 88	1  - 1	4 0 1 0 2	21 5 12 0 9	17 1 7  9	31 3 7  21	11 8 — 3	12 4 2 1 3	75 66 15 25 14	134 41 13 25 55	145 25 78 22 20
<b>W.S. Central</b> Arkansas <sup>§</sup> Louisiana Oklahoma Texas <sup>§</sup>	16 9  7	84 14 17 8 46	186 45 42 40 107	212 58 69 55 30	511 209 42 44 216	 	3 0 0 2	52 7 1 17 48	12 4 2 6	12 1  1 10	7 1 1 3 2	37 2 2 2 30	187 10 24 9 174	139 15 32 12 80	233 19 8 18 188
Mountain Arizona Colorado Idaho <sup>§</sup> Montana <sup>§</sup> Nevada <sup>§</sup> New Mexico <sup>§</sup> Utah Wyoming <sup>§</sup>	32 17 9 2  4 	52 18 12 3 2 4 4 4 1	88 45 30 9 10 20 15 15 4	420 160 110 24 14 33 30 36 13	449 157 106 29 19 33 41 50 14	4 2 1 	7 1 2 0 0 1 1 0	36 13 8 0 5 5 14 3	34 14 3 	41 11 11 4 	9 6 2 — — 1	26 11 4 0 1 2 1 0	87 35 15 3 13 20 15 6 19	144 71 22 1 2 10 21 6 11	164 92 16 5  15 25 10 10
<b>Pacific</b> Alaska California Hawaii Oregon <sup>§</sup> Washington	33 4 6 1 22	116 1 89 5 7 10	306 5 218 16 17 83	817 20 635 41 47 74	880 24 680 46 74 56	2 N 2 	4 0 0 1 2	24 0 5 3 9 22	26 N 14 1 4 7	21 N 2 13 6	4 2 	32 0 28 1 1 2	90 2 81 3 6 13	198 5 163 6 10 14	391 1 297 10 52 31
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	U U 4 U	0 0 13 0	0 0 65 0	U U 79 U	U U 48 U	U U N U	0 0 0 0	0 0 0 0	U U N U	U U N U	U U 1 U	0 0 0 0	0 0 0 6 0	U U 5 U	U U 2 U

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Me \* Incidence data for reporting years 2006 and 2007 are provisional. \* Includes *E. coli* O157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped. \* Contains data reported through the National Electronic Disease Surveillance System (NEDSS). Med: Median. Max: Maximum.

	Stre	ptococcal	disease,	invasive, g	roup A	Strept	ococcus p	neumonia Age <5 yea	e, invasive ars	disease <sup>†</sup>	
	Current	Prev 52 w	vious veeks	Cum	Cum	Current	Prev 52 w	ious eeks	Cum	Cum	
Reporting area	week	Med	Max	2007	2006	week	Med	Max	2007	2006	
United States	89	88	215	1,099	1,583	19	24	88	347	335	
New England	_	2	15	17	58	_	1	4	9	17	
Maines	_	Ő	2	5	5		Ő	2	_	_	
Massachusetts	—	0	5	—	41	—	0	4	—	14	
New Hampshire	_	0	9	4	8	_	0	4	5	3	
Rhode Island <sup>®</sup> Vermont <sup>§</sup>	_	0	4 2	8	3	_	0	3	3	_	
Mid Atlantic	13	17	30	204	307	_	3	17	32	54	
New Jersev		2	8	204	58	_	1	4		17	
New York (Upstate)	9	5	26	78	82	_	2	14	32	33	
New York City		3	8	34	57		0	2		4	
Pennsylvania	4	0		12	110	IN	0	0	IN	IN	
E.N. Central	6	15	46	179	362		6	14	55	96 26	
Indiana	5	2	12	25	41	_	0	10	5	20	
Michigan	1	3	11	52	74	_	1	5	22	24	
Ohio	_	4	19	71	83	_	1	7	18	20	
vvisconsin		I	6		42	_	0	2	1	17	
W.N. Central	20	4	57	97	118	5	2	10	31	23	
Kansas	_	0	3	10	28	_	0	3	2	6	
Minnesota	16	Õ	52	45	52	5	1	6	16	7	
Missouri	2	2	5	31	22	_	0	2	10	6	
Nebraska <sup>s</sup> North Dakota	2	0	2	3	11	_	0	2	2	3	
South Dakota	_	Ö	2	2	1	_	0	0	_	_	
S. Atlantic	19	20	45	280	321	5	2	12	76	20	
Delaware		0	2	_	1	_	0	0	_	_	
District of Columbia	_	0	2	4	4		0	1		—	
Georgia	9	5 5	10	72	78	5	0	5	20	_	
Maryland <sup>§</sup>	_	4	10	49	70	_	1	5	23	15	
North Carolina	2	0	26	32	34	_	0	0	_	—	
South Carolina <sup>®</sup>	3	1	5	19	25		0	2	7	_	
West Virginia	2	0	6	5	6	_	0	3	1	5	
E.S. Central	3	4	11	52	70	3	0	6	23	5	
Alabama§	Ň	0	0	N	N	Ň	Ō	Ō	N	Ň	
Kentucky	1	0	4	12	20	—	0	0	_	_	
MISSISSIPPI Tennessee§	N 2	0	0	N 40	N 50	3	0	2	2	5	
	2	6	61	70	114	0	4	20	54	50	
Arkansas <sup>§</sup>	9	0	5	9	3	2 1	4	2	54 6	8	
Louisiana	_	Õ	2	3	1	_	Õ	4	12	2	
Oklahoma	5	2	5	31	42	1	1	12	17	12	
	3	3	56	27	68	_	2	24	19	28	
Arizona	1/	11	42 34	1/6	210	2	4	9	56 34	68	
Colorado	6	3	9	54	38	1	1	4	15	16	
ldaho§	_	0	1	5	3	—	0	1	_	1	
Montanas	N	0	0	Ŋ	N	N	0	0	N	N	
New Mexico <sup>§</sup>	1	1	4	10	26	_	0	3	7	7	
Utah	6	1	7	37	20	_	Ő	õ	_	_	
Wyoming <sup>§</sup>	—	0	1	2	2	—	0	0	—	—	
Pacific	2	2	9	24	23	2	0	4	11	2	
Alaska	2	0	2	7	N	2	0	2	9		
Gamornia Hawaii	N	2	9	N 17	N 23	N	0	0	N 2	N 2	
Oregon <sup>§</sup>	Ν	ō	ŏ	Ň	Ň	Ν	õ	0	Ň	Ň	
Washington	Ν	0	0	Ν	Ν	Ν	0	0	Ν	Ν	
American Samoa	U	0	0	U	U	U	0	0	U	U	
C.N.M.I.	U	0	0	U	U	U	0	0	U	U	
Puerto Rico	_	0	0	_	_	N	0	0	N	N	
U.S. Virgin Islands	U	Ő	õ	U	U	Ŭ	õ	õ	Ŭ	Ŭ	

C.N.M.L: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. \* Incidence data for reporting years 2006 and 2007 are provisional. Includes cases of invasive pneumococcal disease, in children aged <5 years, caused by *S. pneumoniae*, which is susceptible or for which susceptibility testing is not available (NNDSS event code 11717). § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

		Sti	reptococc	us pneum	<i>oniae</i> , inva	sive diseas	e, drug r	esistant <sup>†</sup>	· · · · · · · · · · · · · · · · · · ·		Sur	bilic pr	imany an	d socord	anv
		Prev	vious				Pre	e <5 year vious	5		3y	Pre	nnary an vious	u seconu	ary
Departing even	Current	52 w	eeks	Cum	Cum	Current	<u>52 v</u>	veeks	Cum	Cum	Current	<u>52 v</u>	veeks	Cum	Cum
Inited States	ЗЯ	43	115	670	778	<u>еек</u>	7	19	2007	102	gg	181	260	1 666	1 990
New England		40	7	15	10	-	,	13		2	33	101	13	1,000	1,330
Connecticut	_	0	Ó			_	0	Ó	_			0 0	10	4	10
Maine <sup>§</sup>	—	0	2	3	2	—	0	1	—	1		0	1		3
New Hampshire	_	0	0	_	_	_	0	0	_	_		2	2	4	5
Rhode Island <sup>§</sup>	_	0	4	5	3	—	0	1	_		_	0	3	3	2
Vermont <sup>3</sup>		0	2	1	C C	_	0	1		1		0	1	054	000
New Jersey	- 3	0	0	45		_	0	0	—		23	24	44 8	42	230
New York (Upstate)	1	1	5	17	8	—	0	4	6	—	1	3	14	28	28
Pennsylvania	2	2	6	28	28	_	0	2	5	3	15	5	35 12	238	53
E.N. Central	6	10	40	172	176	_	1	8	20	31	13	15	32	130	211
Illinois		0	2	1	8	_	0	1	1	3	_	7	13	24	120
Michigan		0	30	- 32	8	_	0	1		0 1	8	2	10	31	18
Ohio		5	38	139	126	—	1	5	16	19	4	4	9	56	46
WISCONSIN	1	1	51		10	_	0	10		-	I	1 E	4	9	9
lowa	_	0	0	20	12	_	0	0			_	0	3	41	3
Kansas	—	0	1	2	—	—	0	0	—	—	_	0	3	4	6
Missouri	1	1	50 5	24	12	_	0	2	2	1	_	3	5 9	21	25
Nebraska§	_	0	1	_	_	_	0	0	_	—	_	0	2	_	2
North Dakota South Dakota	_	0	03	_	_		0	0	1	_	_	0	1	_	_
S. Atlantic	18	21	54	312	432	6	3	8	46	40	23	42	136	298	435
Delaware	—	0	1	1		—	0	1	1	_	_	0	3	2	7
Florida	14	12	29	4 172	197	6	2	2	40	37		2 14	23	32 68	32 164
Georgia	_	7	17	122	197	_	0	1	_	1	_	7	105	8	32
Naryland <sup>®</sup>	_	0	0	_	_	_	0	0	_	_	13	5 5	14 21	57 68	66 78
South Carolina§		0	0			_	0	0	_	_		1	5	15	19
Virginia <sup>s</sup> West Virginia	N 4	0	0 17	N 13	N 27	_	0	0	5	_	5	3	17 2	47	36 1
E.S. Central	5	2	11	45	71		0	3	8	11	14	14	29	156	130
Alabama§	N	0	0	N	N	—	0	0	—	_	4	5	17	49	68
Mississippi	_	0	2	9	17	_	0	0	_	2		1	9 8	21	15
Tennessee§	4	2	10	36	54	—	0	3	8	9	9	5	12	63	36
W.S. Central	5	1	5	38	8	_	0	2	4	3	18	30	58	332	309
Arkansas <sup>®</sup> Louisiana	_	0	3	1 12	4	_	0	0	1	2	3	1	7 30	25 63	24 37
Oklahoma	5	Ő	4	25	_	—	Ő	2	3	_	3	ĩ	5	23	18
lexas <sup>§</sup>	_	0	0		_	_	0	0	_		9	21	31	221	230
Arizona	_	1	7	17	33	_	0	5	6	11	_	8	27 16	44	101 49
Colorado		Ő	Õ			—	Ő	Ő	—	_	_	1	5	3	16
Idaho <sup>§</sup> Montana <sup>§</sup>	N	0	0	N	N	_	0	0	_	_	_	0	1	1	1
Nevada§	_	0	3	11	5	_	0	2	3	_	_	1	12	16	23
New Mexico <sup>§</sup>	—	0	0			—	0	0			—	1	5	11	10
Wyoming <sup>§</sup>	_	0	3	2	11	_	0	2	1	3	_	0	1	1	
Pacific	_	0	0	_	_	_	0	0	_	—	5	37	52	272	469
Alaska California	N	0	0	N	N	_	0	0	_	_		0 34	4 45	3 242	5 398
Hawaii	_	0	Ő	_		_	0	0	_	_	_	0	1	1	8
Oregon <sup>§</sup> Washington	N	0	0	N	N	_	0	0	_	_	1	0	6 11	4 22	4 54
American Samoa	11	0	0	11	11		0	0				<u>د</u> ۱	0	11	11
C.N.M.I.	U	ŏ	ŏ	Ŭ	Ŭ	Ŭ	ŏ	ŏ	Ŭ	Ŭ	Ŭ	Ő	õ	Ŭ	U
Guam Puerto Bico	N	0	0	N	N	_	0	0	_	_	_	0	0		33
U.S. Virgin Islands	U	0	0	U	Ŭ	U	Ő	Ő	U	U	U	0	0	Ű	U

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

Max: Maximum.

U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Max \* Incidence data for reporting years 2006 and 2007 are provisional. \* Includes cases of invasive pneumococcal disease caused by drug-resistant *S. pneumoniae* (DRSP) (NNDSS event code 11720). \* Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

		Varice	ella (chick	(ennox)			Neu	West	t Nile virus	s disease	,†	Non-r	neuroinva	sive§	
		Prev	vious	(chpox)			Prev	/ious				Prev	/ious	15170	
	Current	52 w	eeks	Cum	Cum	Current	52 w	eeks	Cum	Cum	Current	52 w	eeks	Cum	Cum
Reporting area	week	Med	Max	2007	2006	week	Med	Max	2007	2006	week	Med	Max	2007	2006
	972	804	1,435	10,114	12,449	_	1	1/8	_	3	_	1	399	_	I
Connecticut	8	24	72	131	442	_	0	3	_	_	_	0	2	_	_
Maine <sup>1</sup>	_	2	17	_	88	_	0	0	_	—	_	0	0	_	_
Massachusetts New Hampshire		05	1 47	46	92 92	_	0	1	_	_	_	0	1	_	_
Rhode Island <sup>1</sup>	—	ő	0			_	Ő	Ő	_	_	_	ŏ	Ő	_	_
Vermont <sup>1</sup>	4	11	66	85	170	_	0	0	—	—	—	0	0	—	_
Mid. Atlantic	91	104	192	1,386	1,583	—	0	11	—	—	—	0	4	—	_
New Jersey New York (Upstate)	N	0	0	N N	N	_	0	2	_	_	_	0	1	_	_
New York City	_	0	0			_	0	4	_	—	_	0	2	_	_
Pennsylvania	91	104	192	1,386	1,583		0	2		_	_	0	1	_	
E.N. Central	199	237	587 7	3,146	5,007 23	_	0	43 23	_	_	_	0	33 23	_	_
Indiana	_	ŏ	Ó	_		_	ŏ	7	_	_	_	ŏ	12	_	_
Michigan	62	97	258	1,252	1,464	_	0	11	_	—	_	0	2	_	_
Wisconsin	137	128	449 64	226	429	_	0	2	_	_	_	0	2	_	_
WN Central	95	29	131	573	638	_	0	36	_	_	_	0	79	_	_
owa	Ň	0	0	N	N	_	Ő	3	_	_	_	ŏ	4	_	_
Kansas Minnosota	_	7	52	258	103	_	0	3	—	—	—	0	3	—	_
Viissouri	35	16	82	211	506	_	0	14	_	_	_	0	2	_	_
Nebraska <sup>1</sup>	N	0	0	N	N	—	0	9	—	—	—	0	38	—	—
North Dakota South Dakota	60	0	49 15	84 20	13 16	_	0	5	_	_	_	0	28 22	_	_
S Atlantic	152	96	176	1 274	1 261	_	0	2	_	_	_	0	7	_	
Delaware		1	6	8	27	_	ŏ	ō	_	_	_	ŏ	Ó	_	_
District of Columbia		0	5		6	—	0	0	—	—	—	0	1	—	_
Georgia	30 N	0	42	330 N	N	_	0	1	_	_	_	0	4	_	_
Maryland	Ν	0	0	Ν	N	—	0	2	—	—	—	0	2	—	—
North Carolina South Carolina <sup>1</sup>	24	0 21	0 72	369	324	_	0	1	_	_	_	0	0	_	_
Virginia <sup>1</sup>	60	29	142	191	396	_	Ő	Ó	—	_	_	Õ	2	_	_
West Virginia	38	25	57	368	508	_	0	1	—	—	_	0	0	—	_
E.S. Central	6	4	43	90	—	_	0	15	—	3	—	0	16	—	_
Kentucky	N	4 0	43	N	N	_	0	2	_	_	_	0	1	_	_
Mississippi		0	2	2		_	0	10	—	3	—	0	16	—	_
Iennessee	IN O 10	0	0		IN O T LO	_	0	4	_	_	_	0	2	_	
W.S. Central Arkansas <sup>1</sup>	349 28	198 11	966 92	2,720 150	2,516 214	_	0	58 4	_	_	_	0	26 2	_	1
Louisiana		2	11	35	11	_	Ő	13	_	_	_	ŏ	9	_	1
Oklahoma Texas <sup>1</sup>	321	0 172	0 873	2 5 3 5	2 201	_	0	6 38	_	_	_	0	4	_	_
Mountain	70	57	100	2,300	1 000		0	61		_		1	200	_	
Arizona	12	0	102	//5	1,002	_	0	9	_	_	_	0	228 15	_	_
Colorado	49	23	51	316	562	—	0	10	—	—	—	0	51	—	—
Idaho" Montana <sup>1</sup>	N	0	0 26	N 87	N N	_	0	30	_	_	_	0	157 8	_	_
Nevada <sup>1</sup>	_	Õ	3	_	1	_	Ő	9	—	_	_	Õ	16	_	_
New Mexico <sup>1</sup>		4	21	70	186	—	0	1	—	—	—	0	1	—	_
Wyoming <sup>1</sup>		0	11		245	_	0	7	_	_	_	0	10	_	_
Pacific	_	0	9	19	_	_	0	15	_	_	_	0	51	_	_
Alaska	—	0	9	19	N	—	0	0	—	—	—	0	0	—	—
Jaiitornia Hawaii	_	0	U 0	_	N	_	0	15 0	_	_	_	0	37	_	_
Oregon <sup>®</sup>	Ν	õ	õ	Ν	Ν	_	õ	2	_	—	_	õ	14	_	_
Washington	N	0	0	N	N	—	0	0	—	—	_	0	2	_	_
American Samoa	U	0	0	U	U	U	0	0	U	U	U	0	0	U	U
Guam		0	0		_		0	0				0	0	_	
Puerto Rico	19	12	30	127	98		0	0	<del></del>			0	0		
u.o. viruin Islands	U	U	U	U	U	U	U	U	U	U	U	0	U	U	U

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. † Incidence data for reporting years 2006 and 2007 are provisional. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (proposed) (ArboNET § Surveillance). Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I. Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except in 2007 for the domestic arboviral diseases and influenza-1 associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm. 1 Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

### TABLE III. Deaths in 122 U.S. cities.\* week ending March 24, 2007 (12th Week)

		All o	causes, b	y age (ye	ars)	,				All	causes, k	y age (y	ears)		
Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&l⁺ Total	Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&I⁺ Total
New England	616	420	127	41	13	15	41	S. Atlantic	1,262	792	305	95	43	27	68
Boston, MA	162	106	34	13	6	3	10	Atlanta, GA	122	68	37	10	5	2	4
Bridgeport, CI	37	31	5	1	_		5	Baltimore, MD	193	113	47	15	10	8	9
Cambridge, MA	17	16	3	-	_	3	1	Charlotte, NC	123	/8	27	11	6	1	16
Hartford CT	22 64	10	16	5	_	1	2	Miami El	147	90 71	32 24	0	5	4	12
Lowell MA	19	17	2		_	_	3	Norfolk VA	70	55	12	3			4
Lvnn. MA	11	7	2	2	_	_	4	Richmond, VA	66	34	21	10	_	1	2
New Bedford, MA	15	12	1	2	_	_	_	Savannah, GA	68	42	17	3	5	1	7
New Haven, CT	58	41	11	4	2	_	4	St. Petersburg, FL	65	45	9	5	3	3	4
Providence, RI	53	34	8	4	4	3	4	Tampa, FL	171	114	42	8	3	4	6
Somerville, MA	9	5	4	_			_	Washington, D.C.	104	60	31	12	1		_
Springfield, MA	43	27	7	5	1	3	2	Wilmington, DE	22	14	6	1	_	1	_
Waterbury, CT	34	24	9	1	_		2	E.S. Central	993	667	217	62	24	23	100
worcester, wa	12	47	20	3	_	2	_	Birmingham, AL	200	128	45	13	5	9	25
Mid. Atlantic	2,084	1,400	480	128	38	35	121	Chattanooga, TN	91	71	15	5	—	—	11
Albany, NY	47	35	8	4	_	_	3	Knoxville, TN	124	77	33	7	5	2	14
Allentown, PA	24	20	4	_	_	_	3	Lexington, KY	79	63	10	2	2	2	7
Buttalo, NY	24	47	22	4	3	1	5	Memphis, IN	207	126	55	22	2	2	23
Elizabeth NJ	34	16	2	1	I	2	2	Montgomory Al	93	20	1/	8	2	1	6
	21 48	31	11	2	2	1	2	Nashville TN	144	98	28	5	7	6	11
Jersev City NJ	26	16	8	2		_	4		144	30	20	5	1	0	
New York City, NY	1.103	753	244	67	20	17	58	W.S. Central	1,552	1,000	364	117	36	35	111
Newark, NJ	66	27	21	11	_	6	2	Austin, IX	109	68	20	13	5	3	19
Paterson, NJ	21	10	9	2	_	_	1	Baton Rouge, LA	36	17	12	3	I	3	2
Philadelphia, PA	250	152	63	22	7	6	11		170	108	20	21	- 5	6	13
Pittsburgh, PA§	25	18	4	1	1	1	2	FLPaso TX	114	77	28	4	2	3	6
Reading, PA	30	21	8	1	_	_	1	Fort Worth, TX	140	105	24	5	_	6	12
Rochester, NY	122	93	24	2	3	_	10	Houston, TX	448	276	119	35	10	8	20
Scheneciady, NY	24	13	3	1	_	_	1	Little Rock, AR	88	63	16	3	5	1	2
Svracuse NV	85	64	20	_	_	1	13	New Orleans, LA <sup>1</sup>	U	U	U	U	U	U	U
Trenton, NJ	25	15	6	3	1			San Antonio, TX	180	112	46	15	7		18
Utica, NY	17	12	4	1		_	1	Shreveport, LA	59	39	15	4		1	2
Yonkers, NY	22	18	4	_	_	_	1	Tulsa, OK	134	92	27	13	1	1	9
E.N. Central	2,141	1.420	506	125	43	47	182	Mountain	1,299	858	294	89	28	28	89
Akron, OH	<sup>′</sup> 49	30	17	_	_	2	4	Albuquerque, NM	242	166	56	14	3	1	16
Canton, OH	35	20	12	2	_	1	5	Bolse, ID	66 E1	48	12	4	-	2	2
Chicago, IL	357	202	105	31	11	8	37	Denver CO	10/	29 71	21	0	2	6	5
Cincinnati, OH	99	64	26	1	3	5	13	Las Vegas NV	295	184	78	24	5	4	17
Cleveland, OH	258	186	56	7	3	6	14	Ogden, UT	29	22	3	3	1		2
Columbus, OH	180	112	49	12	4	3	14	Phoenix, AZ	189	113	50	13	8	5	19
Dayton, On Detroit MI	129	90 Q/	29	9 15	7	1	10	Pueblo, CO	38	29	9	_	_	_	1
Evansville IN	41	26	14	1	_	_	3	Salt Like City, UT	138	95	24	11	3	5	14
Fort Wayne, IN	65	50	8	3	2	2	4	Tucson, AZ	147	101	27	10	5	4	12
Gary, IN	22	11	8	2	_	1	_	Pacific	1,366	1,001	248	74	25	18	132
Grand Rapids, MI	53	45	3	2	1	2	2	Berkeley, CA	12	8	4	_	_	_	1
Indianapolis, IN	204	133	45	14	8	4	16	Fresno, CA	48	36	9	2	1	_	5
Lansing, MI	56	46	6	4			4	Glendale, CA	U	U	U	U	U	U	U
Milwaukee, WI	115	70	32	8	3	2	14	Honolulu, HI	50	36	8	3	2	1	5
Peoria, IL Reakford II	46	31	12	1	_	2	9	Long Beach, CA	62	48	/	5	1	1	15
South Bond IN	54	47	9	2	_		5	Los Angeles, CA	26	21	0	0	U	U	0
Toledo OH	101	67	27	5	_	2	12	Portland OB	133	90	26	5	1	2	11
Youngstown, OH	60	52	6	1	1	_		Sacramento, CA	210	149	41	15	3	2	27
W.N. Control	707	400	151	45	15	00	64	San Diego, CA	151	116	20	6	6	3	15
Des Moines 14	13/	490	101	40	ci Ci	23 1	04	San Francisco, CA	125	90	25	5	2	3	13
Des Montes, IA	40	32	9 4	<u>ک</u>		_	9 4	San Jose, CA	207	158	35	8	3	3	16
Kansas City KS	40	20	10	3	2	4	1	Santa Cruz, CA	29	20	8	1			2
Kansas City. MO	81	46	19	6	_	10	2	Seattle, WA	115	71	28	13	2	1	6
Lincoln, NE	35	23	. 9	3	_		3	Spokane, WA	56	36	15	1	3	1	5
Minneapolis, MN	68	42	18	6	1	1	6	lacoma, WA	132	103	19	8	1	1	1
Omaha, NE	120	94	16	6	2	2	9	Total	12,050**	8,056	2,692	776	265	251	908
St. Louis, MO	128	72	36	11	2	3	15								
St. Paul, MN	54	41	9	2	1	1	8								
WUCDITA KS	u/	66	21		л	1	/	1							

U: Unavailable.

L: 2 + 1 / 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.

<sup>1</sup>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. <sup>1</sup>Because of Hurricane Katrina, weekly reporting of deaths has been temporarily disrupted. \*\* Total includes unknown ages.

#### FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals March 24, 2007, with historical data



\* No measles cases reported for the current 4-week period, yielding a ratio for week 12 of zero (0).
<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.

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