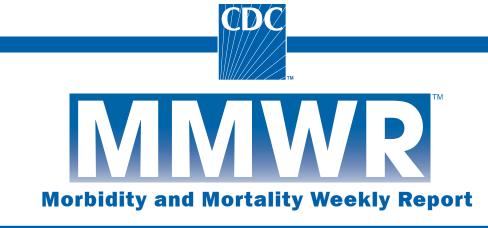
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Weekly

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Preventable Measles Among U.S. Residents, 2001–2004

Elimination of endemic measles has been achieved in the United States (1); however, measles continues to be imported from areas of the world where the disease remains endemic, resulting in substantial morbidity and expenditure of local, state, and federal public health resources (2,3). Measles among U.S. residents results from returning residents who become infected while living or traveling abroad, from contact or association with an infected traveler, or from an unknown source. This report summarizes surveillance data reported to CDC by state and local health departments regarding confirmed measles cases among U.S. residents during 2001–2004; an illustrative case report is included. The majority of measles cases occurring among U.S. residents can be prevented by following current recommendations for vaccination, including specific guidelines for travelers (4).

Confirmed measles cases (4) were defined as preventable if they occurred among persons for whom vaccination is recommended by the Advisory Committee on Immunization Practices (ACIP) but who had not received 1 or more doses of measles-containing vaccine (MCV). Cases were considered nonpreventable if they occurred among persons who 1) had received 1 or more doses of MCV, 2) were not vaccinated and for whom vaccination is not recommended, or 3) were born before 1957 (presumed immune from natural disease in childhood). Persons with unknown vaccination status were considered unvaccinated. Outbreaks were defined as three or more epidemiologically linked cases.

During 2001–2004, a total of 251* measles cases were reported to CDC, of which 177 (71%) occurred among U.S. residents, and 74 (29%) occurred among nonresidents. Of the 177 cases among U.S. residents, 100 (56%) were preventable, and 77 (44%) were nonpreventable (Table 1).

TABLE 1. Preventable and nonpreventable* reported cases[†] of measles in U.S. residents, by age, travel history, and measles vaccination status — United States, 2001–2004

	Internation	nal travel	No internat	ional travel
		Not		Not
Age group	Vaccinated	vaccinated	Vaccinated	vaccinated
<6 mos	0	0	0	2
6–11 mos	0	12 [§]	0	20
12–15 mos	0	5 [§]	1	7
16 mos–4 yrs	1	4§	1	2 [§]
5–9 yrs	0	2 [§]	0	2 [§]
10–19 yrs	3	5 [§]	12	13 [§]
20–29 yrs	0	9§	7	17 [§]
30–39 yrs	6	3§	7	15 [§]
<u>≥</u> 40 yrs	1	4¶	2	14**
Total	11	44	30	92

* Cases were defined as nonpreventable if they occurred among persons who 1) had received 1 or more doses of measles-containing vaccine (MCV), 2) were not vaccinated and for whom vaccination is not recommended, or 3) were born before 1957 (presumed immune from natural disease in childhood).

[†] N = 177 (100 preventable, 77 nonpreventable).

§ Preventable cases. Defined as preventable if they occurred among persons for whom vaccination is recommended by the Advisory Committee on Immunization Practices but who had not received 1 or more doses of MCV.

[¶] Three of the four cases were preventable; one case occurred in a person born before 1957 and was classified as nonpreventable because MCV is not recommended for that age group.

** Eight of 14 cases were preventable; the other six cases occurred in persons born before 1957 and were classified as nonpreventable because MCV is not recommended for that age group.

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^{*} Data for 2004 are provisional.

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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 Tambra McGee Pearl C. Sharp **Preventable Cases.** Of the 100 preventable cases, 43 (43%) occurred among international travelers (imported cases), and 57 (57%) among nontravelers (indigenous cases). Of the 17 (17%) preventable cases among infant travelers aged 6–15 months, 12 occurred among infants aged 6–11 months, and five occurred among children aged 12–15 months. Of the 83 (83%) preventable cases among persons aged ≥16 months, 26 were in persons who became infected during international travel, and 57 were in persons infected in the United States (Table 1).

Nonpreventable Cases. Of the 77 cases that were nonpreventable, 12 (16%) occurred among international travelers; 11 of the 12 travelers had received at least 1 dose of MCV, and the other was born before 1957 and had not been vaccinated. A total of 65 (84%) cases occurred among nontravelers; all were in persons previously vaccinated, except 29 cases in infants aged ≤15 months (routine MCV may be administered as late as age 15 months) and six in persons born before 1957. Seven of the unvaccinated infants were aged 12–15 months and thus were eligible for vaccination.

Outbreaks. Of the 14 outbreaks identified during 2001–2004, nine involved three or more U.S. residents; of these, seven originated with a U.S. resident traveler. In one outbreak, 10 cases in a daycare center resulted from exposure to an unvaccinated daycare attendee (an infant aged 9 months) who was infected during travel abroad (2).

Case Report. During June 20–22, 2004, a North Carolina resident aged 11 years traveled from the United Kingdom to North Carolina via New York and Connecticut. After her arrival in North Carolina on June 22, she had cough, coryza, and fever, followed by onset of a rash on June 25. She had suspected measles diagnosed on June 28. She had not received MCV; her parents had declined to have her vaccinated for religious beliefs. One day before her rash onset, the girl had close contact with a male infant aged 11 months. The infant subsequently had measles with rash onset on July 4. Two days before his rash onset, the infant visited a summer camp, where he potentially had contact with up to 234 persons, including 113 campers, 63 parents/visitors, and 58 staff members. Several campers returned home at the end of the camp session, the day after the exposure. Multistate and multinational investigation and control efforts to prevent further spread were conducted. Potentially infected persons subsequently traveled to Arizona, Arkansas, Florida, New York, Australia, Costa Rica, New Zealand, South Africa, and Wales. No additional cases of measles were subsequently identified.

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Editorial Note: Travel anywhere outside of the United States, including to industrialized regions such as Western Europe,

* Proposed.

presents a risk for measles exposure. In 2003, approximately 24 million U.S. residents traveled abroad, and 40 million international visitors entered the United States (5,6). Importation of measles from foreign visitors is unavoidable because no regulations are in effect requiring vaccination of visitors. However, as other countries reduce the burden of measles, the risk of travelers bringing measles into the United States will decrease.

Measles can cause serious complications and death, particularly among children aged <5 years. All U.S. residents should be vaccinated in accordance with ACIP recommendations (4), with special attention to international travelers who now account for a substantial proportion of the measles disease burden in the United States. Health-care providers who serve populations that travel should be aware of the vaccination recommendations for international travelers (7). Current measles recommendations for travelers include vaccination for infants aged 6-11 months and 2 doses of MCV for travelers aged ≥ 12 months (Table 2). Despite these recommendations, 17% of the preventable cases described in this report occurred among unvaccinated travelers aged 6-15 months. The reasons for these children not receiving MCV are unknown but might include lack of awareness among parents and healthcare providers regarding recommendations for infants aged 6-11 months, refusal because of personal or religious beliefs, or lack of perceived risk, especially for children of foreignborn U.S. residents who travel to their country of origin (8,9). Imported and secondary cases among U.S. residents who refuse vaccination because of personal or religious beliefs can result in the introduction of measles into communities with other susceptible persons who share the same beliefs, thereby posing a risk for substantial spread of disease (3, 10). In addition, seven cases in nontravelers aged 12–15 months might have been prevented if these children had been vaccinated as soon as they became eligible for MCV (e.g., MMR) at age 12 months.

Measles cases among persons born before 1957 for whom vaccination is not recommended are rare. However, persons in this age group who travel internationally might wish to consider vaccination to minimize their risk for measles.

The findings in this report are subject to at least three limitations. First, certain measles cases might have been missed or not reported to public health officials, including cases that occurred and resolved during travel abroad. Second, because information on multiple doses of MCV is collected inconsistently, persons who had received at least 1 dose of MCV were considered vaccinated, even though 2 doses are recommended for some age groups and for most international travelers (4), thus potentially underestimating the number of preventable cases. Third, preventable cases might be overestimated because vaccine efficacy is <100%, and vaccination data were missing for 30 (17%) persons. All persons with missing data were considered unvaccinated, although some might have received MCV.

Because of the high infectivity and morbidity associated with measles, contact tracing is a standard public health practice and can require many hours of public health staff time and can cost thousands of dollars (3). A recent study evaluating the economic impact of an infected U.S. traveler returning from India estimated the costs of locating and vaccinating

	Recommended		
Age group	ages for vaccination	Recommended doses of MCV	Considerations
Children			
Infants	<6 mos	None	MCV is not recommended for infants aged <6 months.
Infants	6–11 mos	1 dose	Infants who receive MCV at age 6–11 months should receive an additional 2 doses of MCV as measles-mumps-rubella (MMR) vaccine. If they continue to travel or reside outside of the United States, the first of these 2 additional doses should be administered at age 12 months, and the second \geq 28 days after the first dose. If they return to the United States, they should resume the recommended vaccination schedule.
Children	≥12 mos	2 doses MMR	Children aged \geq 12 months who will travel abroad should receive 2 doses of MMR separated by at least 28 days, with the first dose administered on or after the first birthday.
Adults Born 1957 or later	All	2 doses MMR	Persons born in the United States in 1957 or later should have received 2 doses of MMR or have presumptive evidence of immunity, which includes laboratory evidence of immunity or documentation of physician-diagnosed measles.
Born before 1957	N/A	None [†]	For persons born before 1957, MCV is generally not indicated.

* Advisory Committee on Immunization Practices.

Women of childbearing age who could become pregnant should have acceptable evidence of immunity to rubella, which includes receipt of 1 dose of live rubella virus vaccine (e.g., MMR vaccine) or laboratory evidence of immunity.

susceptible contacts at \$140,000 (3). Although few cases have been associated with transmission during air travel (3; CDC, unpublished data, 2005), contact tracing of infected air travelers is particularly challenging; a person with measles can be infectious from at least 4 days before through 4 days after rash onset. To avoid outbreaks or a resurgence of measles, as occurred during 1989–1991, when approximately 55,000 cases and 120 measles-related deaths were reported in the United States (4), high population immunity and surveillance must be maintained.

To prevent measles among U.S. residents, health-care providers should follow ACIP vaccination recommendations, ensuring that travelers are vaccinated, particularly infants aged 6-11 months, and that 2 doses are administered for those aged ≥ 12 months. In addition, parents should be educated about the risk for measles associated with international travel and the need for vaccination. Information on vaccination recommendations for travelers is available from CDC at http://www.cdc.gov/travel.

Acknowledgments

The data in this report are based on contributions by state and local health departments.

References

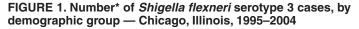
- Katz SL, Hinman AR. Summary and conclusions: measles elimination meeting, 16–17 March 2000. J Infect Dis 2004;189(Suppl 1):S43–7.
- CDC. Epidemiology of measles—United States, 2001–2003. MMWR 2004;53:713–6.
- Dayan GH, Ortega-Sanchez IR, LeBaron CW. The cost of containing one case of measles: the economic impact on the public health infrastructure, Iowa, 2004. Pediatrics 2005;116:1–4.
- 4. CDC. Measles, mumps, and rubella—vaccine use and strategies for elimination of measles, rubella, and congenital rubella syndrome and control of mumps: Recommendations of the advisory committee on immunization practices (ACIP). MMWR 1998;47(No. RR-8):38–9.
- 5. US Department of Commerce, International Trade Administration, Office of Travel and Tourism Industries. 2003 profile of U.S. resident traveler visiting overseas destinations reported from survey of international air travelers. Washington, DC: US Department of Commerce; 2004. Available at http://tinet.ita.doc.gov/view/f-2003-101-001/index.html.
- 6. US Department of Commerce, International Trade Administration, Office of Travel and Tourism Industries. Arrivals to the U.S. 2004 & 2003 (all countries reported by residency and in rank order within region). Washington, DC: US Department of Commerce; 2004. Available at http://tinet.ita.doc.gov/view/f-2004-203-001/index.html.
- 7. CDC. Health information for international travel 2005–2006. Atlanta, GA: US Department of Health and Human Services, CDC; 2005.
- Bacaner N, Stauffer B, Boulware DR, Walker PF, Keystone JS. Travel medicine considerations for North American immigrants visiting friends and relatives. JAMA 2004;291:2856–64.
- 9. Angell SY, Cetron MS. Health disparities among travelers visiting friends and relatives abroad. Ann Intern Med 2005;142:67–72.
- Feikin DR, Lezotte DC, Hamman RF, et al. Individual and community risks of measles and pertussis associated with personal exemptions to immunizations. JAMA 2000;284:3145–50.

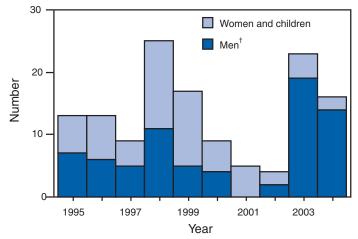
Shigella flexneri Serotype 3 Infections Among Men Who Have Sex with Men — Chicago, Illinois, 2003–2004

During 2003–2004, the Chicago Department of Public Health (CDPH) investigated an increase in reported *Shigella flexneri* serotype 3 infections among adult males. This report summarizes the investigation into those cases and underscores the potential for sexual transmission of enteric infections among men who have sex with men (MSM).

Shigellosis is a reportable disease in Illinois. During 1995–2002, a total of 95 cases of *S. flexneri* serotype 3 infection in Chicago residents were reported to CDPH (mean: 11.9 cases per year); 40 (42%) of these cases occurred in males aged \geq 18 years (Figure 1). In contrast, 33 (85%) of 39 reported cases (mean: 19.5 cases per year) occurred in adult males during 2003–2004. The mean annual number of case reports among adult males increased from 5.0 to 16.5, whereas case reports among women and children decreased from 6.9 to 3.0 during this period. CDPH conducted an investigation to characterize these infections.

For this investigation, a case of *S. flexneri* serotype 3 infection was defined as one with onset of diarrhea during 2003– 2004 in a male Chicago resident aged ≥ 18 years, with accompanying isolation of *S. flexneri* serotype 3 from stool culture. Health-care providers were asked to report all *Shigella* infections among Chicago residents to CDPH and to send *Shigella* isolates to the state public health laboratory for speciation. Persons whose illness was consistent with the case definition were interviewed with a standard case-investigation



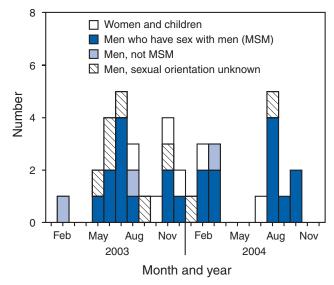


^{*}N = 134. [†]Aged ≥18 years. questionnaire, which included the following questions: "With regard to sexual orientation, would you describe yourself as 1) heterosexual, 2) homosexual, 3) bisexual, 4) don't know, or 5) refused?" and "In the week prior to the onset of this illness, do you remember engaging in a same-sex relationship?" Responses were "yes", "no", or "don't know." Information about sexual activities and human immunodeficiency virus (HIV) status was not collected systematically. Serotyping, antimicrobial-susceptibility testing, and pulsed-field gel electrophoresis (PFGE) of available isolates were performed at the Illinois Department of Public Health and CDC.

Illness onsets for 33 identified patients occurred throughout both years (Figure 2). In all patients, clinical illness was limited to gastroenteritis; 16 (48%) patients were hospitalized for treatment, and all recovered without sequelae. Patients ranged in age from 20 to 56 years (median: 35 years); 24 (83%) of 29 patients for whom race was ascertained were non-Hispanic white. Twenty-two (88%) of 25 patients asked to characterize their sexual orientation described themselves as MSM. No other common food, water, daycare, or travel exposures or risk factors for shigellosis were found.

Fourteen isolates obtained from MSM were available for additional testing. Twelve (86%) were identified as *S. flexneri* subtype 3a; the remaining two isolates were *S. flexneri* subtype 3b. Seven closely related PFGE patterns were identified among the 11 *S. flexneri* subtype 3a isolates subtyped by PFGE. Eleven isolates were tested for antimicrobial susceptibility; all were susceptible to ciprofloxacin and resistant to ampicillin, and nine (82%) were resistant to trimethoprim-sulfamethoxazole.

FIGURE 2. Number* of *Shigella flexneri* serotype 3 cases, by sex, sexual orientation, and month of onset — Chicago, Illinois, 2003–2004





Reported by: JT Watson, MD, RC Jones, MPH, J Fernandez MC, C Cortes, SI Gerber, MD, Chicago Dept of Public Health; KJ Kuo, MS, JS Price, MS, Div of Laboratories, Illinois Dept of Public Health. JT Brooks, MD, Div of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention; D Jennings, M Fair, E Mintz, MD, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases; A Bowen, MD, EIS Officer, CDC.

Editorial Note: Shigella is the third most common cause of bacterial gastroenteritis in the United States (1). The majority of Shigella infections in the United States are caused by S. sonnei and affect young children and their caretakers. S. flexneri causes approximately 18% of U.S. Shigella infections (1). The national incidence of S. flexneri infections decreased 64% from 1989 to 2002 (1). However, a recent analysis indicated an increase in Shigella infection among adult males (2). This increase is likely attributable to outbreaks of shigellosis among MSM; since the 1970s, outbreaks of shigellosis attributable to S. flexneri and more recently S. sonnei have been reported among MSM in major cities in North America (3–5), Europe (6), and Australia (7).

The low inoculum required for *Shigella* infection (as few as 10–200 organisms) facilitates person-to-person transmission. Risk factors for sexual transmission of *Shigella* have not been well characterized but likely involve exposure to fecal material. In outbreaks among MSM, 50%–90% of participants reported oral-genital or oral-anal contact during the week before diagnosis with *Shigella* infection (*3*,*5*). A case-control study of shigellosis among MSM in Sydney, Australia, implicated exposure to a commercial sex venue as the sole risk factor for illness (*7*). Although the effect of HIV infection on risk for sexual transmission of *Shigella* is not well understood, it might be associated with elevated risk for acquiring shigellosis and with more severe disease (*8*).

Other enteric illnesses, such as those caused by hepatitis A, Entamoeba histolytica, Giardia lamblia, Campylobacter, and Salmonella, also can be transmitted sexually (4,9,10). Because feces can contain multiple pathogens, polymicrobial infections can result from a single sexual exposure (3,4). Outbreaks of sexually transmitted shigellosis might be observed more frequently than outbreaks of other sexually transmissible enteric organisms because the infectious dose is lower, the illness produces symptoms that are more likely to bring patients to medical attention, and laboratory diagnosis is simpler. More routine molecular subtyping of Shigella by PFGE might also facilitate recognition of epidemiologically related shigellosis clusters.

To reduce the risk for sexually transmitted enteric infections, persons with diarrhea should refrain from oral-anal, oral-genital, and anal-genital contact while they are symptomatic. Because *Shigella* and other enteric pathogens can be carried asymptomatically, persons who engage in sexual contact

that could expose them or their sex partners to fecal material should wash their hands and anal-genital regions thoroughly with soap and water before and after sexual activity. The use of condoms during oral-genital or anal-genital contact, dental dams during oral-anal contact, and gloves during digitalanal contact will help reduce the opportunities for sexual transmission of Shigella and other pathogens. Clinicians should request appropriate laboratory examinations, including stool culture for patients with diarrhea who are MSM, and counsel patients about the risk for infection with enteric pathogens during sexual activity that could expose them to feces. Shigella isolates should be routinely serotyped and molecularly subtyped by PFGE to assist in detection of outbreaks. Investigations of shigellosis outbreaks and outbreaks of other enteric diseases among MSM are needed to better characterize specific high-risk behaviors for transmission, identify effective prevention measures, and clarify the role of HIV infection and antiretroviral therapy in the sexual transmission of Shigella.

References

- Gupta A, Polyak CS, Bishop RD, Sobel J, Mintz ED. Laboratoryconfirmed shigellosis in the United States, 1989–2002: epidemiologic trends and patterns. Clin Infect Dis 2004;38:1372–7.
- Tauxe RV, McDonald RC, Hargrett-Bean N, Blake PA. The persistence of *Shigella flexneri* in the United States: increasing role of adult males. Am J Public Health 1988;78:1432–5.
- Bader M, Pedersen AH, Williams R, Spearman J, Anderson H. Venereal transmission of shigellosis in Seattle-King County. Sex Transm Dis 1977;4:89–91.
- Outbreak of Shigella flexneri and Shigella sonnei enterocolitis in men who have sex with men, Quebec, 1999 to 2001. Can Commun Dis Rep 2005;31:85–90.
- CDC. Shigella sonnei outbreak among men who have sex with men— San Francisco, California, 2000–2001. MMWR 2001;50:922–6.
- Marcus U, Zucs P, Bremer V, et al. Shigellosis—a re-emerging sexually transmitted infection: outbreak in men having sex with men in Berlin. Int J STD AIDS 2004;15:533–7.
- 7. O'Sullivan B, Delpech V, Pontivivo G, et al. Shigellosis linked to sex venues, Australia. Emerg Infect Dis 2002;8:862–4.
- Baer JT, Vugia DJ, Reingold AL, Aragon T, Angulo FJ, Bradford WZ. HIV infection as a risk factor for shigellosis. Emerg Infect Dis 1999; 5:820–3.
- Mazick A, Howitz M, Rex S, et al. Hepatitis A outbreak among MSM linked to casual sex and gay saunas in Copenhagen, Denmark. Euro Surveill 2005;10. Available at http://www.eurosurveillance.org/em/v10 n05/1005-223.asp.
- Quinn TC, Goodell SE, Fennell C, et al. Infections with *Campylobacter jejuni* and *Campylobacter*-like organisms in homosexual men. Ann Intern Med 1984;101:187–92.

Progress in Improving State and Local Disease Surveillance — United States, 2000–2005

In September 2000, states began receiving federal funding to plan and implement integrated electronic systems for disease surveillance. CDC and state and local health departments had recognized the importance of such systems and of uniform standards to improve the usefulness of public health surveillance and the timeliness of response to outbreaks of disease. Previously, state health departments received most case-report forms by mail and then entered the data into computer systems, sometimes weeks after the cases of notifiable disease had occurred, including cases that warranted immediate public health investigation or intervention. In addition, depending on the disease, only 10%-85% of cases were reported, and more than 100 different systems were used to transmit these reports from the states to CDC (CDC, unpublished data, 2005). This report summarizes progress since the initial funding in 2000 in improving state and local disease surveillance through secure, Internet-based data entry and automated electronic laboratory results (ELR) reporting. Both are components of the National Electronic Disease Surveillance System (NEDSS),* the surveillance and monitoring component of the broader Public Health Information Network (PHIN) initiative.[†] Local, state, and national public health officials should continue to improve the timeliness and completeness of disease surveillance.

To ensure that information can be collected, exchanged, and interpreted at all levels (i.e., local, state, and national), CDC has worked with state and local health departments and clinical partners to identify data and information system standards to incorporate into NEDSS. By facilitating the identification, adoption, and implementation of standards for data content, format, transport, and security, the NEDSS project seeks to strengthen the ability of public health agencies to exchange pertinent information needed for surveillance and intervention between clinicians and public health agencies and among public health partners. State health departments have pursued these goals by developing, modifying, or commissioning their own NEDSS-compatible systems or by implementing and configuring the NEDSS Base System[§] to meet their specific needs.

As of April 2005, a total of 27 state health departments and two municipal health departments (New York City and Los

^{*} Available at http://www.cdc.gov/nedss.

[†] Available at http://www.cdc.gov/phin.

[§] The NEDSS Base System was developed by CDC and partners to meet state and program area disease surveillance and analysis needs, while providing a secure, accurate, and efficient means for collecting and processing data.

Angeles) were entering at least some notifiable disease data by using a secure, Internet-based system (Figure 1). Twenty-three other states were actively planning, developing, and implementing Internet-based systems. Although Internet-based data entry is frequently performed by workers in local and state health departments, in at least 13 states, data entry is also performed by private health-care providers, infection-control practitioners, and/or clinical laboratory workers, expediting availability of the data to health departments.

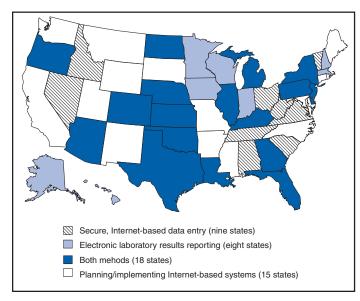
In addition to secure, Internet-based reporting, NEDSS supports ELR. When a test result indicates a notifiable condition, clinical diagnostic and public health laboratories with ELR transmit data from their computer systems directly to state and local health department systems. As of April 2005, a total of 26 state health departments (excluding those receiving only blood lead level results) received laboratory test results via ELR (Figure 1), and the remaining 24 states were in various stages of preparing for ELR.

The experiences of three state health departments illustrate capabilities provided through NEDSS and PHIN that have improved the practice of public health.

New Jersey

In late 2001, the New Jersey Department of Health and Senior Services (NJDHSS) implemented the secure, Internetbased, Communicable Disease Reporting System (CDRS). Since implementation of CDRS, the number of reported cases of notifiable diseases doubled from 14,608 in 2002 to 29,967 in 2004, and the percentage of cases entered by NJDHSS staff

FIGURE 1. Disease surveillance, by state and method — National Electronic Disease Surveillance System, United States, April 2005



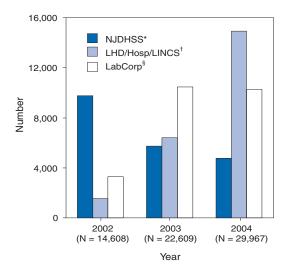
decreased from 67% in 2002 (and from 100% in 2001) to approximately 16% in 2004 (Figure 2). In addition, the percentage of cases entered by local health departments, hospitals, and Local Information Network and Surveillance Systems (i.e., regional public health networks) increased from approximately 11% in 2002 (and from zero in 2001) to 50% in 2004 (Figure 2), including 30% entered by health-care providers at hospitals or medical centers. During 2004, approximately 34% of the cases were reported via ELR by Laboratory Corporation of America (Burlington, North Carolina).

Before CDRS, cases of notifiable diseases might have required several months for entry of data in the NJDHSS system because of delays in reporting, postal service, and data entry. However, timeliness has improved substantially. In 2003, NJDHSS determined that cases were entered into CDRS an average of 28 days after illness onset. In 2004, that average had been reduced to 3–4 days. In addition, cases can now be updated in minutes and are available statewide to authorized persons in seconds.

Oklahoma

In June 2004, Oklahoma implemented its secure, Internetbased disease surveillance and reporting system, Public Health Information and Disease Detection of Oklahoma. Once a case is verified by health department staff and assigned to the

FIGURE 2. Number of notifiable disease case reports, by reporting site and year — New Jersey Department of Health and Senior Services (NJDHSS), 2002–2004



* Data entered by NJDHSS staff into the secure, Internet-based Communi-_cable Disease Reporting System (CDRS).

[†] Data entered into CDRS by staff members of local health departments, hospitals, and Local Information Network and Communication Systems (i.e., regional public health networks). [§] Data submitted via electronic laboratory results reporting by Laboratory

⁹ Data submitted via electronic laboratory results reporting by Laboratory Corporation of America (Burlington, North Carolina). appropriate jurisdiction, the system supports online followup by local public health nurses representing all Oklahoma counties. As of June 1, 2005, a total of 164 infection-control practitioners and 210 laboratorians representing all Oklahoma hospitals and 32 physicians had registered to use the system.

Upon entry of a disease deemed urgently notifiable by state administrative law,[¶] the Oklahoma system automatically sends a page, text message, and e-mail message with key details to the state epidemiologist on call. The system also informs persons reporting cases that they will be contacted within 15 minutes by that epidemiologist. Regardless of the hour, the epidemiologist can then log on to the system from any location and initiate a rapid public health response when warranted. During June 2004–May 2005, epidemiologists launched case investigations within the targeted response time of 15 minutes on 111 urgently notifiable disease reports, including 10 cases of invasive meningococcal disease, 12 cases of tularemia (endemic in Oklahoma), and one outbreak of unknown infectious disease.

Pennsylvania

In January 2003, the Pennsylvania Department of Health implemented a secure, Internet-based disease reporting system, PA-NEDSS, that incorporates online reporting** by laboratories, hospitals, and clinicians; fully integrated ELR; case management; and analysis capabilities. Submitted reports are immediately accessible by state and local health department staff.

As of February 2005, a total of 549 public health staff members, 381 hospitals and clinics, 223 laboratories, and 564 physicians were registered with the system. In addition, 42 high-volume laboratories were submitting reports through ELR. Approximately 20,000 reports are submitted each month through PA-NEDSS; 67% of reports are received via ELR, 24% via online laboratory reporting, 8% via online hospital reporting, and 1% via other sources.

During a hepatitis A outbreak with 601 cases in 2003, all public health workers in the affected region of the state were needed to staff clinics and administer immune globulin to exposed persons to prevent further transmission of disease. Investigation of cases newly reported by PA-NEDSS were assigned to public health staff in unaffected regions, allowing local staff to focus on prevention of cases while ensuring that new cases were investigated promptly. Since the outbreak, certain areas of the state have extended that use of PA-NEDSS to balance the routine workload among counties.

Reported by: State health departments. CDC.

Editorial Note: The transition to integrated electronic systems from paper-based systems for disease surveillance has made substantial strides in recent years. As of April 2005, a total of 27 states were using secure, Internet-based systems for entry of notifiable disease reports, and 26 received laboratory test results automatically through ELR. When clinicians, laboratories, or local health department investigators enter data securely over the Internet, that information can be available to state or local health departments immediately, avoiding delays caused by mailing forms or backlogs in data-entry processing at health departments.

Surveillance of communicable diseases focuses on ELR because a large proportion of cases can be identified from laboratory test results; diagnostic laboratories are also key surveillance partners for chronic and environmentally related disease surveillance (e.g., for blood lead level testing). ELR facilitated by NEDSS provides faster and more complete reporting of laboratory test results. Use of ELR has increased the number of cases reported to health departments by two- to threefold and has improved the timeliness of reporting by at least 3.8 days (1). ELR infrastructure also can be used to integrate public health laboratory and epidemiologic investigations. Ongoing efforts to ensure availability of PHIN-compliant laboratory information systems will equip state and local public health laboratories for standards-based exchange of information and further strengthen public health surveillance and response.

Although many states are using the Internet for ELR, challenges remain to achieving national proficiency at standardsbased, secure information exchange. In its "business case" for a nationwide health information network, the Center for Information Technology Leadership (CITL) (Partners HealthCare System, Boston, Massachusetts) has defined a fourlevel taxonomy for health information exchange (2). The highest level, Level 4 (machine integrable information exchange), requires adherence to the structured messages and standardized data content provided by NEDSS and PHIN. However, multiple states still use different electronic formats and nonstandard content for ELR, corresponding to CITL Level 3 (machine organizable data systems). According to the CITL model, although implementation of Level 3 systems can enhance information exchange, cost savings occur only with implementation of Level 4 systems (2).

This first phase of ELR is providing state health departments with results from large multijurisdictional laboratories and from certain state public health laboratories. The next phase will require broadening of reporting from the large

⁹ Oklahoma Administrative Code 310:515-1-3.

^{**} Online laboratory reporting means laboratory staff members enter data into an Internet form, in contrast to ELR, in which the laboratory computer system automatically sends an electronic message to the state health department system.

multijurisdictional laboratories and enabling exchange of results with other laboratories, including large hospital and local laboratories. However, many of these facilities use proprietary information systems and local (i.e., nonstandard) coding systems that would require multiple custom interfaces to enable automated exchange of results. CDC is working with national partners to identify possible solutions.

Using standards and systems to enhance the exchange of information between the clinical sector and public health is a principal goal of NEDSS and PHIN. The ELR enhancements have required detailed specifications for the format, data elements, and standard codes for ELR messages by using the Health Level Seven (version 2.3)^{††} standard message format and standard, controlled vocabularies for test names (LOINC^{®§§}) and test results (SNOMED^{®§¶}). In addition, PHIN specifies the standards for secure transmission of these

messages over the Internet; to meet these standards, CDC has provided the PHIN Messaging System^{***} for use by public and private partners. Successful ELR reporting provides experience with secure, standards-based, interoperable data exchange, relevant for public health agencies and also for their partners in clinical medicine.

The examples in this report demonstrate the impact NEDSS has had on disease surveillance and deployment of public health staff and resources. Use of secure, Internet-based systems enables public health response 24 hours a day, 7 days a week. State health departments have used these systems to manage workloads and increase capacity during outbreaks and to help improve the nation's ability to detect and respond to disease threats.

References

- Effler P, Ching-Lee M, Bogard A, Ieong M, Nekomoto T, Jernigan D. Statewide system of electronic notifiable disease reporting from clinical laboratories: comparing automated reporting with conventional methods. JAMA 1999;282:1845–50.
- Walker J, Pan E, Johnston D, Adler-Milstein J, Bates DW, Middleton B. The value of health care information exchange and interoperability. Health Aff(Millwood) 2005: W5-10–W5-18. Available at http:// content.healthaffairs.org/cgi/reprint/hlthaff.w5.10v1.

^{††} Health Level Seven is one of several health-care standards developing organizations accredited by the American National Standards Institute. Available at http://www.hl7.org.

^{§§} Logical Observation Identifiers Names and Codes. The database and supporting documentation are maintained by The Regenstrief Institute (Indianapolis, Indiana). Available at http://www.regenstrief.org/loinc.

⁵⁵ Systematized Nomenclature of Medicine of the College of American Pathologists. Available at http://www.snomed.org.

^{***} Available at http://www.cdc.gov/phin/software-solutions/phinms.

QuickStats FROM THE NATIONAL CENTER FOR HEALTH STATISTICS Percentage* of Persons Aged >20 Years with Hypertension,[†] by Race/Ethnicity — United States, 1999–2002 50 Women 43.4 40.4 Men 40 30.5 Percentage 28.7 28.4 27.5 30 27.8 _ 26.7 20 10 0 All persons[§] White, Mexican Black. non-Hispanic non-Hispanic American¹ Race/Ethnicity * Percentages are age-adjusted to the 2000 U.S. standard population by using five age groups: 20–34, 35–44, 45–54, 55–64, and ≥65 years.

⁺ Defined as either having elevated blood pressure (systolic pressure of ≥140 mmHg or diastolic pressure of ≥90 mmHg) or taking antihypertensive medication.

[§] Includes persons of all races/ethnicities (including all Hispanic origins), not just non-Hispanic whites, non-Hispanic blacks, and Mexican Americans.

 $\ensuremath{^{\P}}$ Persons in this subpopulation might be of any race.

During 1999–2002, approximately 30% of persons aged \geq 20 years had hypertension. Among those racial/ethnic populations and subpopulations evaluated, the percentage with hypertension was highest among non-Hispanic blacks. Men and women were approximately equally likely to have hypertension.

SOURCES: National Center for Health Statistics. Health, United States, 2004: with chartbook on trends in the health of Americans. Hyattsville, MD: US Department of Health and Human Services, CDC, National Center for Health Statistics; 2004. Available at http://www.cdc.gov/nchs/hus.htm.

National Health and Nutrition Examination Survey, 1999–2002. Available at http://www.cdc.gov/nchs/nhanes.htm.

CASES CURRENT INCREASE DISEASE DECREASE 4 WEEKS 120 Hepatitis A, acute Hepatitis B, acute 136 Hepatitis C, acute 15 Legionellosis 97 1 Measles 23 Meningococcal disease Mumps 26 735 Pertussis 0 Rubella 0.03125 0.0625 0.125 0.25 0.5 1 2 4

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals August 20, 2005, 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 33 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 August 20, 2005 (33rd Week)*
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Disease	Cum. 2005	Cum. 2004	Disease	Cum. 2005	Cum. 2004
Anthrax	_	_	Hemolytic uremic syndrome, postdiarrheal [†]	89	105
Botulism:			HIV infection, pediatric ⁺¹	181	260
foodborne	7	6	Influenza-associated pediatric mortality**	43	_
infant	43	49	Measles	56††	25 ^{§§}
other (wound & unspecified)	17	8	Mumps	179	130
Brucellosis	65	58	Plague	3	_
Chancroid	17	17	Poliomyelitis, paralytic	_	_
Cholera	2	4	Psittacosis [†]	13	8
Cyclosporiasis [†]	663	175	Q fever [†]	68	41
Diphtheria	_	- 1	Rabies, human	1	4
Domestic arboviral diseases			Rubella	8	9
(neuroinvasive & non-neuroinvasive):	I —	_	Rubella, congenital syndrome	1	l —
California serogroup ^{†§}	6	68	SARS [†] **	_	_
eastern equine ^{†§}	5	1	Smallpox [†]	_	_
Powassan ^{†§}	I —	1	Staphylococcus aureus:		
St. Louis [†] §	1	7	Vancomycin-intermediate (VISA) [†]	_	_
western equine ^{†§}	I —	_	Vancomycin-resistant (VRSA) [†]	_	1
Ehrlichiosis:	_	_	Streptococcal toxic-shock syndrome [†]	90	100
human granulocytic (HGE) [†]	250	243	Tetanus	14	12
human monocytic (HME) [†]	187	166	Toxic-shock syndrome	62	58
human, other and unspecified [†]	36	44	Trichinellosis	12	1
Hansen disease [†]	48	64	Tularemia [†]	79	62
Hantavirus pulmonary syndrome [†]	16	16	Yellow fever	-	_

No reported cases.

Incidence data for reporting years 2004 and 2005 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).

ſ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention. Last update June 26, 2005.

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

Of 56 cases reported, 46 were indigenous and 10 were imported from another country.

§§ Of 25 cases reported, eight were indigenous and 17 were imported from another country. 11

Formerly Trichinosis.

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Alaska 14 21 2,523 2,406	Oreg. ¹	136	155	5,294	5,137	—	—	31	24
Hawaii60572,7093,55312Guam11736P.R.5373952,3412,430NNNNV.I.106119243Amer. SamoaUUUUUUUC.N.M.I.2UUU						804	1,308		
Guam 1 1 - 736 - <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>_</td> <td></td> <td></td>						_	_		
P.R. 537 395 2,341 2,430 N N N N V.I. 10 6 119 243		1	1	_		_	_	_	
Amer. Samoa U <th< td=""><td></td><td></td><td></td><td></td><td>2,430</td><td>Ν</td><td>N</td><td></td><td></td></th<>					2,430	Ν	N		
	Amer. Samoa	U	U		U	U			U
	-		-		_	_	-		U

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

N: Not notifiable. U: Unavailable. —: No reported cases. C.N.M.I.: Comm * Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date). C.N.M.I.: Commonwealth of Northern Mariana Islands.

¹ Chlamydia refers to genital infections caused by *C. trachomatis.* ⁵ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention. Last update June 26, 2005.
 ¹ Contains data reported through National Electronic Disease Surveillance System (NEDSS).

MMWR

(33rd Week)*										
		Escheri		rohemorrhagio	· · ·					
	015	57:H7	-	in positive, p non-O157	Shiga toxii not sero		Giardi		Con	orrhea
	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting area	2005	2004	2005	2004	2005	2004	2005	2004	2005	2004
UNITED STATES	1,127	1,390	171	165	140	104	9,738	11,113	192,493	202,837
NEW ENGLAND	91	102	33	36	23	9	886	999	3,840	4,438
Maine N.H.	11 10	8 14	6 2	5	_	_	117 35	80 24	78 105	149 75
Vt.	10	9	3	_		_	103	92	34	56
Mass. R.I.	34 3	45 6	6	13 1	23	9	356 62	468 68	1,663 292	1,995 548
Conn.	23	20	16	17	_	—	213	267	1,668	1,615
MID. ATLANTIC	136	162	15	25	20	23	1,779	2,387	19,775	23,067
Upstate N.Y. N.Y. City	64 7	67 32	10	11	7	10	632 478	757 696	4,008 5,974	4,610 7,185
N.J.	21	31	1	5	3	6	208	307	3,242	4,358
Pa.	44	32	4	9	10	7	461	627	6,551	6,914
E.N. CENTRAL Ohio	229 65	273 59	15 2	34 7	7 3	17 10	1,510 426	1,757 492	34,891 10,039	42,453 12,965
Ind.	29	29	_	_	—	—	N	N	4,987	4,045
III. Mich.	45 50	57 49	1	5 6	1 3	6 1	307 422	511 403	10,755 5,851	12,877 9,544
Wis.	40	79	12	16	_	_	355	351	3,259	3,022
W.N. CENTRAL	184	298	25	23	22	18	1,175	1,209	11,206	10,580
Minn. Iowa	43 40	72 80	7	9	10	3	556 140	414 178	1,839 959	1,846 766
Mo.	56	50	11	11	5	6	259	334	5,751	5,485
N. Dak. S. Dak.	1 10	9 22	4	_	_	5	5 52	18 40	41 236	77 165
Nebr.	13	43	3	3	4		56	89	814	674
Kans.	21	22	—	—	3	4	107	136	1,566	1,567
S. ATLANTIC Del.	114 3	102 2	41 N	17 N	48 N	21 N	1,457 31	1,746 30	47,920 515	48,758 572
Md.	20	20	15	2	3	2	103	70	4,345	5,146
D.C. Va.	 19	1 20	 16	7	 12	_	29 323	44 270	1,288 4,601	1,619 5,593
W.Va.	1	2	_	_	1	_	26	23	450	569
N.C. S.C.	4	9	_	_	24	14	N 66	N 67	9,937 6,250	9,689 5,498
Ga.	16	15	6	6	_	_	296	553	8,376	8,797
Fla.	51	33	4	2	8	5	583	689	12,158	11,275
E.S. CENTRAL Ky.	77 20	65 16	1	3 1	13 10	12 7	247 N	223 N	15,775 1,992	16,382 1,564
Tenn.	33	28	1	—	3	5	129	123	5,326	5,275
Ala. Miss.	19 5	12 9	_	2	_	_	118	100	4,245 4,212	5,217 4,326
W.S. CENTRAL	30	56	4	3	3	4	153	187	27,880	27,902
Ark.	6	10	_	—	_	—	45	73	2,420	2,615
La. Okla.	3 13	2 13	3	1	2	_	27 81	33 81	6,950 2,832	6,901 3,054
Tex.	8	31	1	2	1	4	N	N	15,678	15,332
MOUNTAIN	104	133	31	23	4	—	755	890	7,159	7,237
Mont. Idaho	10 10	12 28	8	4	2	_	31 53	35 104	62 63	51 52
Wyo.	1	4	2	1	_	—	12	15	46	36
Colo. N. Mex.	21 5	38 10	1 4	1 4	1	_	281 35	321 49	1,859 628	1,853 729
Ariz.	24	11	N	Ν	Ν	Ν	88	116	2,549	2,416
Utah Nev.	24 9	21 9	16	12 1	1	_	214 41	179 71	414 1,538	360 1,740
PACIFIC	162	199	6	1	_	_	1,776	1,715	24,047	22,020
Wash.	38	71	—	_	—	—	211	197	2,287	1,651
Oreg. Calif.	40 63	38 84	6	1	_	_	202 1,267	270 1,146	937 19,982	665 18,475
Alaska	12	1	—	_	—	_	57	49	347	394
Hawaii	9	5	—	_	—		39	53	494	835
Guam P.R.	<u>N</u>	N 1	_	_	_	_	33	2 153	216	118 178
V.I.		_					_	_	35	73
Amer. Samoa C.N.M.I.		U U	U	U U	U	U U	U 	U U	U 	U U

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

MMWR

(33rd week)^				Haemophilus infl	uenzae, invasiv	e		
	All a	ges		· .		5 years		
	All sero	otypes		type b		rotype b	Unknown	1
Reporting area	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004
UNITED STATES	1,421	1,333	3	9	74	74	138	129
NEW ENGLAND	110	119	_	- 1	10	7	4	1
Maine	5	9	_	_	_	_	1	_
N.H.	5	14	_	_	_	2	_	
Vt. Mass.	6 50	5 58	_	1	3	2	2 1	1
R.I.	7	3	_	_	2	_	_	_
Conn.	37	30	—	—	5	3	—	—
MID. ATLANTIC	271	278	—	1	_	4	35	32
Upstate N.Y. N.Y. City	79 49	94 64	_	1	_	4	7 10	5 12
N.J.	49 49	51	_	_	_	_	8	2
Pa.	94	69	_	_	—	_	10	13
E.N. CENTRAL	211	248	1	_	3	8	13	38
Ohio	91	72	—	—		2	9	12
Ind. III.	51 35	37 86	_	_	3	4	3	1 20
Mich.	13	15	1	_	_	2	_	3
Wis.	21	38	—	_	_	_	1	2
W.N. CENTRAL	84	72	_	2	3	3	10	6
Minn. Iowa	32 1	33 1	—	1	3	3	1	—
Mo.	35	25	_		_	_	7	4
N. Dak.	1	3	_	_	_	_	1	—
S. Dak.	_	_	_	_	_	_	_	_
Nebr. Kans.	7 8	4 6	_		_	_	1	1 1
S. ATLANTIC	344	301	1	_	21	20	19	22
Del.				_	21	20	19	
Md.	49	47	—	_	5	5	—	—
D.C. Va.	34	2 27	—	_	—	—	1	1
W. Va.	22	11	_	_	1	3	4	3
N.C.	60	40	1	—	7	5	—	1
S.C.	20	9	—	—	—	—	1	1
Ga. Fla.	68 91	86 79	_	_	8	7	9 4	16
E.S. CENTRAL	83	54	_	1	1	_	14	7
Ky.	8	5	_	_	1	_	2	_
Tenn.	58	35	—	_	—	—	8	5
Ala. Miss.	17	12 2	_	1	_	_	4	_2
W.S. CENTRAL	77	52	1	1	5	6	6	1
Ark.	4	1		_	1			
La.	28	10	1	—	2	_	6	1
Okla. Tex.	44 1	40 1	—	1	2	6	_	_
	167		—		13			
MOUNTAIN Mont.	167	142	_	3	13	17	29	16
Idaho	3	5	—	—	—	—	1	2
Wyo.	4		—	—	—	—	1	_
Colo. N. Mex.	34 15	33 30	_	_	4	5	9 1	3 6 2
Ariz.	84	51	_	_	7	7	8	2
Utah	14 13	12 11	—	2 1	2	2	7 2	2 1
Nev.				I		3		
PACIFIC Wash.	74 1	67 1	_		18	9	8 1	6 1
Oreg.	28	30	_	_	_	_	5	2
Calif.	33	24	—	—	18	9	1	1
Alaska Hawaii	4 8	5 7	—	—	_	—	1	1 1
	ō	/	—		—	—	_	I
Guam P.R.	1	2	_	_	_	_	_	2
V.I.	_	_	_	_	_	_	_	_
Amer. Samoa	U	U	U	U	U	U	U	U
C.N.M.I.	—	U	_	U	—	U	_	U

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(33rd Week)*			Hepatitis (vir	al, acute), by type		
		A		B B		c
Reporting area	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004
UNITED STATES	2,290	3,670	3,482	3,686	515	475
NEW ENGLAND	303	608	177	231	8	10
Maine N.H.	1 63	9 14	9 13	1 25	_	_
Vt. Mass.	4 197	8 505	2 125	5 115	8	3 7
R.I.	6	17	1	3	_	_
Conn. MID. ATLANTIC	32 390	55 466	27 723	82 478	U 62	80
Upstate N.Y.	65	53	56	46	13	4
N.Y. City N.J.	188 72	194 105	65 471	96 138	_	_
Pa.	65	114	131	198	49	76
E.N. CENTRAL Ohio	215 33	297 34	301 95	346 71	85 3	63 4
Ind.	25	31	25	31	16	4
III. Mich.	53 87	99 99	70 111	50 164	66	13 42
Wis.	17	34	—	30	_	
W.N. CENTRAL Minn.	65 3	108 28	186 17	219 29	34 5	14 11
Iowa	16	33	14	14	—	_
Mo. N. Dak.	32	23 1	115	135 4	27 1	3
S. Dak.	_	2	3	1	—	—
Nebr. Kans.	4 10	10 11	19 18	23 13	1	_
S. ATLANTIC	387	661	893	1,154	161	112
Del. Md.	4 39	5 79	38 100	29 104	82 16	4 3
D.C.	2	4	8	13	_	2
Va. W. Va.	53 3	55 3	99 26	139 26	10 11	12 17
N.C.	57	62	98	116	9	8
S.C. Ga.	22 63	34 234	92 104	92 314	2 4	13 9
Fla.	144	185	328	321	27	44
E.S. CENTRAL Ky.	164 18	112 24	227 43	322 40	67 12	64 23
Tenn.	113	72	87	160	12	20
Ala. Miss.	17 16	6 10	51 46	48 74	8 35	3 18
W.S. CENTRAL	119	457	247	216	39	68
Ark. La.	5 44	57 32	26 31	77 39	9	2 3
Okla. Tex.	4 66	18 350	22 168	43 57	30	3 60
MOUNTAIN	214	285	356	286	30	29
Mont.	7	4	3	1	1	2
Idaho Wyo.	15	13 4	7 1	8 7	1	1
Colo.	26	32	32	37	15	8
N. Mex. Ariz.	15 130	16 176	6 253	12 147	_	U 4
Utah Nev.	14 7	28 12	32 22	24 50	7 7	2 12
PACIFIC	433	676	372	434	28	35
Wash.	28	39	49	34	U	U
Oreg. Calif.	31 357	47 568	60 252	74 309	13 15	13 21
Alaska Hawaii	3 14	4 18	7 4	10 7	_	1
Guam		1	т —	12	_	9
P.R.	17	29	12	56	_	—
V.I. Amer. Samoa	U	U	U	U	U	U
C.N.M.I.		U		U realth of Northern Marian	_	U

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

(33rd Week)*								
		nellosis		eriosis		lisease	Mala	
Reporting area	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004
UNITED STATES	990	1,139	396	417	10,319	11,635	725	878
NEW ENGLAND	64	38	29	24	1,176	2,081	45	65
Maine N.H.	3 6	1	1 4	5 2	55 108	29 135	4 4	6 1
Vt.	3	3	4	1	18	31	4	3
Mass.	24	19	8	9	593	1,167	24	40
R.I.	9	2	2	1	25	152	2	2
Conn.	19	13	13	6	377	567	10	13
MID. ATLANTIC Upstate N.Y.	326 86	306 54	97 33	100 28	7,077 2,001	7,290 2,294	195 29	236 25
N.Y. City	31	39	20	17	2,001	2,294 254	92	119
N.J.	77	50	16	23	2,406	1,971	52	55
Pa.	132	163	28	32	2,670	2,771	22	37
E.N. CENTRAL	169	267	41	77	403	969	55	79
Ohio	83	113	17	24	54	34 15	15	20 7
Ind. III.	12 12	28 31	1	15 17	17	73	 19	27
Mich.	49	79	16	19	23	12	15	15
Wis.	13	16	6	2	309	835	6	10
W.N. CENTRAL	45	32	19	7	308	237	30	48
Minn.	11	3	4	2	233	173	11	18
lowa Mo.	3 18	3 15	7 4	1 3	50 21	31 23	4 12	3 15
N. Dak.	1	1	2	_				3
S. Dak.	9	3	_		_	—	_	1
Nebr.	1 2	2 5	2	1	4	7 3	3	2 6
Kans.								
S. ATLANTIC Del.	219 12	240 8	82 N	62 N	1,218 406	941 151	178 3	196 6
Md.	62	46	14	9	601	575	65	40
D.C.	4	7	—	_	7	6	6	9
Va. W. Va.	30 9	27 6	7 2	12 2	113 6	66 14	17 1	16
N.C.	17	24	15	14	35	73	21	12
S.C.	9	7	3	4	10	15	5	7
Ga.	14	35	16	10	2	12	27	45
Fla.	62	80	25	11	38	29	33	61
E.S. CENTRAL Ky.	46 13	60 20	18 3	19 4	27 3	28 12	17 4	25 4
Tenn.	22	26	7	10	24	13	9	6
Ala.	9	12	6	3	_	3	4	11
Miss.	2	2	2	2	—	—	—	4
W.S. CENTRAL	18	98	20	29	38	25	48	97
Ark. La.	3 4	7	7	3 2	3 4	4	4 2	7 4
Okla.	3	3	2	_	_	_	3	4
Tex.	8	88	11	24	31	19	39	82
MOUNTAIN	63	55	7	15	10	13	32	32
Mont.	4	1	—		_	_	_	_
ldaho Wyo	3 3	6 5		1	1 2	5 3	1	1
Wyo. Colo.	16	12	2	6	2	_	18	12
N. Mex.	2	3	3	—	1	_	1	2
Ariz. Utah	18 10	10 15	_	1	1 2	5	6 4	8 5
Nev.	7	3	2	7	1	_	2	4
PACIFIC	40	43	83	84	62	51	125	100
Wash.	—	8	7	8	3	6	10	10
Oreg.	N	N	5	5	14	19	6	12
Calif. Alaska	39	35	71	68	42 3	25 1	93 3	75
Hawaii	1	_	_	3	N	N N	13	3
Guam		_	_	_	_	_	_	
P.R.	_	_	_	_	N	N	1	_
V.I.	<u> </u>	<u> </u>	<u> </u>		<u> </u>			
Amer. Samoa C.N.M.I.	U	U U	U	U U	U	U U	U	U U
		0	—	0		0		0

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

MMWR

(33rd Week)*					Meningoco	ccal disease				
	All 0010		Serog		Corror	nour D	Other or		Corogradu	
	All sero Cum.	Groups Cum.	A, C, Y, a Cum.	Cum.	Serogi Cum.	Cum.	Other se Cum.	Cum.	Cum.	o unknown Cum.
Reporting area	2005	2004	2005	2004	2005	2004	2005	2004	2005	2004
UNITED STATES	813	834	59	65	42	35	—	1	712	733
NEW ENGLAND Maine	58 2	51 9	1	5	_	6 1	_	1	57 2	39 8
N.H.	9	3	_	_	_		_	_	9	3
Vt.	6	2	—	_	—	_	—		6	2
Mass. R.I.	27 2	30 1	_	5	_	5	_	_	27 2	20 1
Conn.	12	6	1	—	—	—	—	1	11	5
MID. ATLANTIC	106	117	29	33	4	5	—	—	73	79
Upstate N.Y. N.Y. City	28 14	33 20	4	5	3	3	_	_	21 14	25 20
N.J.	29	24	_	_	_	_	—		29	24
Pa.	35	40	25	28	1	2	—	_	9	10
E.N. CENTRAL Ohio	81 28	90 46	16	19	9 5	6	_	_	56 23	65 38
Ind.	15	40 15	_	3 1	5 4	5 1	_	_	23 11	13
III.	12	1		—	—	_	—	_	12	1
Mich. Wis.	16 10	15 13	16	15	_	_	_	_	10	13
W.N. CENTRAL	55	58	2	_	1	4	_	_	52	54
Minn.	9	17	1	_		_	_	_	8	17
lowa	12	13 16	1	—	1	2	—	—	11	11
Mo. N. Dak.	20	2		_	_	1	_	_	19	15 2
S. Dak.	2	2	_	_	_	1	_	_	2	1
Nebr. Kans.	4 8	3 5	_	_	_	_	_	_	4 8	3 5
S. ATLANTIC	155	156	4	2	8	2	_	_	143	152
Del.	3	2			_		_	_	3	2
Md.	15	8	2		2	—	—		11	8
D.C. Va.	21	5 11	_	2	_	_	_	_	21	3 11
W.Va.	5	5	1	—	_	_	—		4	5
N.C. S.C.	24 14	24 13	1	_	6	2		_	17 14	22 13
Ga.	13	9	_	_	_	_	_	_	13	9
Fla.	60	79	—	—	—	—	—		60	79
E.S. CENTRAL	40	41	1	1	3	1	—		36	39
Ky. Tenn.	14 17	8 13	_	1	3	1	_	_	11 17	6 13
Ala.	5	10	1	—	—	—	—		4	10
Miss.	4	10	—	—	—	—	—	_	4	10
W.S. CENTRAL Ark.	63 11	49 12	1	1	5	1	_	_	57 11	47 12
La.	25	27	_	1	2	_	_	_	23	26
Okla.	12	7	1	—	3	1	—	—	8	6
Tex.	15	3	_	_	_	_	_	—	15	3
MOUNTAIN Mont.	66	50 3	4	1	5	5	_	_	57	44 3
Idaho	2	6	_	_	_	_	_	_	2	6
Wyo. Colo.	14	3 12	3	_	—	—	—	_	— 11	3 12
N. Mex.	2	6	_	1	_	3	_	_	2	2
Ariz.	34	9	_	—	2	1	—		32	8
Utah Nev.	9 5	4 7	1	_	2 1	1	_	_	6 4	4 6
PACIFIC	189	222	1	3	7	5	_	_	181	214
Wash.	36	21	1	3	4	5	—	_	31	13
Oreg. Calif.	26 115	43 150		_	_	_	_	_	26 115	43 150
Alaska	1	3	_	_	_	_	_	_	1	3
Hawaii	11	5	—	—	3	—	—	—	8	5
Guam	—		_	_	_	_	—	_	<u> </u>	
P.R. V.I.	4	13	_	_	_	_	_	_	4	13
Amer. Samoa	1	1	_	_	_	_	_	_	1	1
C.N.M.I.	—	—	—	—	—	—	—	—	—	_

 TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

	Per	ussis	Rabies	animal		lountain d fever	Salmo	nellosis	Shigellosis		
Reporting area	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	
UNITED STATES	11,683	9,878	3,193	4,104	932	825	22,451	24,719	7,392	7,971	
NEW ENGLAND Maine N.H. Vt. Mass.	645 16 36 73 479	1,087 4 35 55 935	464 36 10 39 255	379 36 15 16 155	3 N 1 1	12 N 10	1,326 94 107 73 693	1,328 73 96 37 776	174 8 5 13 108	172 5 6 2 105	
R.I. Conn.	15 26	16 42	13 111	27 130	1	1	66 293	75 271	10 30	13 41	
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	842 326 47 153 316	1,684 1,179 120 123 262	383 323 17 N 43	575 306 10 N 259	48 3 4 18 23	56 1 19 10 26	2,672 708 626 405 933	3,731 725 865 702 1,439	695 178 237 193 87	799 329 240 156 74	
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	2,252 782 192 438 138 702	3,070 315 59 603 96 1,997	118 104 45 42 16 7 17 32 23 20 17 3		$\begin{array}{cccc} 29 & 27 \\ 24 & 8 \\ 1 & 5 \\ 1 & 11 \\ 3 & 1 \\ - & 2 \end{array}$		3,100 3,318 830 804 297 315 924 1,060 533 536 516 603		474 61 116 150 106	700 102 131 283 72 112	
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	1,804 734 357 296 77 1 147 192	1,052 154 70 242 528 14 8 36	282 48 65 52 17 43 — 57	418 51 58 34 47 77 74 77	148 1 2 136 3 2 4	85 1 69 4 11 	$\begin{array}{cccc} 1,518 & 1,521 \\ 352 & 369 \\ 229 & 316 \\ 501 & 403 \\ 17 & 29 \\ 94 & 69 \\ 96 & 97 \\ 229 & 238 \end{array}$		909 53 52 627 2 22 42 111	265 37 54 107 2 8 13 44	
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	859 5 112 4 237 36 64 251 26 124	425 — 80 6 107 13 49 74 17 79	1,003 	1,521 9 207 314 43 411 109 223 205	438 2 52 35 3 259 27 45 13	380 4 42 — 12 4 200 42 63 13	6,069 56 483 33 615 92 804 702 875 2,409	6,224 65 534 31 697 152 736 612 1,134 2,263	1,189 8 50 8 75 — 111 56 278 603	1,892 6 84 26 96 4 179 358 426 713	
E.S. CENTRAL Ky. Tenn. Ala. Miss.	347 90 164 59 34	198 35 130 20 13	90 7 29 52 2	93 17 32 35 9	184 15 134 31 4	125 1 74 30 20	1,538 250 460 416 412	1,533 213 427 380 513	883 205 439 186 53	506 46 254 168 38	
W.S. CENTRAL Ark. La. Okla. Tex.	690 164 30 496	411 37 12 17 345	613 26 — 60 527	774 35 — 86 653	50 31 5 5 9	121 77 5 38 1	1,948 440 458 216 834	2,335 307 535 241 1,252	1,717 39 83 454 1,141	2,161 46 211 308 1,596	
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	2,605 470 94 26 862 99 724 302 28	777 30 24 12 386 109 146 58 12	138 7 14 13 4 91 4 5	112 19 1 23 3 60 3 1	25 1 2 4 13 4 	15 3 4 2 2 1 	1,376 55 70 57 375 119 409 215 76	1,432 99 107 36 354 166 421 144 105	398 5 2 68 46 219 30 26	481 9 3 95 83 238 26 23	
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	1,639 494 496 519 36 94	1,174 426 297 426 11 14	102 U 3 98 1 —	128 U 5 112 11 	7 1 6 	4 2 2 	2,904 327 232 2,134 37 174	3,297 311 293 2,430 36 227	953 58 73 798 7 17	995 71 48 840 6 30	
Guam P.R.	1	2	39	39	N	N	129	48 254	1	38 18	
V.I. Amer. Samoa C.N.M.I.	U	U U	U	U U	U	U U	U	U U	U	 U U	

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(33rd Week)*	<i>.</i>										
	Stroptooo			coccus pneum	<i>oniae</i> , invasiv	e disease	Syphilis				
		Streptococcal disease, invasive, group A		sistant, ges	Age <5	vears	Primary &		Congenital		
	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	
Reporting area	2,968	2004 3,174	2005 1,571	2004 1,510	2005 551	2004 518	4,911	2004 4,896	2005 159	2004 253	
NEW ENGLAND	2,968	3,174 214	79	97	44	74	4,911	4,896	159	203 1	
Maine	8	7	N	N	_	4	1	2	_	_	
N.H. Vt.	12 9	15 8	 10	6	3 4	N 1	9	3	_	_	
Mass.	79	98	56	24	37	40	87	80	_	_	
R.I. Conn.	7	17 69	13 U	14 53	U	6 23	7 28	18 27	_	1	
MID. ATLANTIC	648	547	148	108	105	78	626	639	18	27	
Upstate N.Y. N.Y. City	202 113	181 83	58 U	47 U	48 19	53 U	54 393	58 386	3 5	1 12	
N.J.	130	119	N	N	17	7	86	105	10	13	
Pa.	203	164	90	61	21	18	93	90	_	1	
E.N. CENTRAL Ohio	599 146	738 171	416 261	345 240	152 60	124 59	507 141	570 150	24 2	31 2	
Ind.	78	76	145	105	38	26	42	40	1	2 2	
III. Mich.	115 231	203 221	10	N	47	1 N	248 54	236 123	8 11	5 22	
Wis.	29	67	Ν	Ν	7	38	22	21	2	—	
W.N. CENTRAL Minn.	200 72	220 111	35	16	63 39	65 43	152 41	112 17	1	3 1	
Iowa	N	N	Ν	N	_	N	2	5	_	—	
Mo. N. Dak.	57 7	46 10	29 1	12	5 2	9 2	92	66	1	1	
S. Dak.	18	9	3	4	—	—	_	_	—	—	
Nebr. Kans.	14 32	15 29	2 N	N	6 11	6 5	3 14	6 18	_	1	
S. ATLANTIC	624	630	626	777	63	36	1,268	1,221	27	41	
Del. Md.	1 141	3 100	1	4	41	N 24	8 219	6 231	9	1 6	
D.C.	7	5	15	7	2	4	70	37	_	1	
Va. W. Va.	60 19	55 18	N 92	N 85	20	N 8	81 3	68 3	3	2	
N.C.	89	85	N	N	U	U	173	114	8	6	
S.C. Ga.	24 114	48 155	109	78 187	_	N N	38 214	80 214	2	10 2	
Fla.	169	161	409	416	—	Ν	462	468	5	13	
E.S. CENTRAL Ky.	127 27	167 51	124 23	104 22	7 N	11 N	269 26	267 27	16	19 1	
Tenn.	100	116	101	80	_	N	130	88	12	7	
Ala. Miss.		_	_	2	7	N 11	88 25	120 32	3 1	9 2	
W.S. CENTRAL	141	251	94	44	72	101	797	763	44	51	
Ark.	13 6	15 2	12 82	6 38	13 22	7 22	29 176	33 185	6	3 3	
La. Okla.	81	48	02 N	N	18	22	26	19	1	2	
Tex.	41	186	N	N	19	43	566	526	37	43	
MOUNTAIN Mont.	445	343	49	18	37	29	248 5	252 1	15	32	
Idaho	1	8	N	N	—	Ν	20	13	1	2	
Wyo. Colo.	3 167	6 69	21 N	6 N	36	29	29	1 46	_	_	
N. Mex. Ariz.	32 183	74 156	N	N N	_	N	32 90	62 103	2 12	2 27	
Utah	58	28	27	10	1		4	7		1	
Nev.	1	2	1	2	_	_	68	19	—	_	
PACIFIC Wash.	69 N	64 N	N	1 N	8 N	N	912 87	942 73	14	48	
Oreg.	N	N	N	N	6	N	17	21			
Calif. Alaska	_	_	<u>N</u>	N	N	N N	799 5	844	14	48	
Hawaii	69	64	_	1	2	—	4	4	_	—	
Guam P.R.	N	N	N	N	_	N	116	1 84	8	3	
V.I.	_	_	_	_	<u> </u>	_	_	4	_	_	
Amer. Samoa C.N.M.I.	U	U U	U	U U	U	U U	U	U U	U	U U	

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

(33rd Week)*												
	Tuba		a Tymbaid favor			icella	West Nile virus disease [†] Neuroinvasive Non-neuroinvasive [§]					
	Cum.	rculosis Cum.	Typhoid fever Cum. Cum.		Cum.	kenpox) Cum.	Cum.	nvasive Cum.	Non-neuroinvasives Cum.			
Reporting area	2005	2004	2005	2004	2005	2004	2005	2004	2005			
UNITED STATES	6,564	8,326	144	192	15,198	19,028	131	749	—			
NEW ENGLAND Maine	199 9	261 13	16 1	17	985 210	1,992 180	_	_	_			
N.H.	4	10	—	_	201	_	—	_	—			
Vt. Mass.	4 131	2 147	9	14	36 538	413 129	_	_	_			
R.I.	18	33	1	1	U		_	_	—			
Conn. MID. ATLANTIC	33 1,239	56 1,275	5 31	2 43	3,049	1,270 72	2	4	—			
Upstate N.Y.	163	179	5	6		_	_	1	_			
N.Y. City N.J.	602 293	637 272	9 9	15 12	_	_	_	2	_			
Pa.	181	187	8	10	3,049	72	2	1	—			
E.N. CENTRAL	815	738	10	22	3,959	8,318	12	30	—			
Ohio Ind.	159 81	127 76	1	4	977 1	1,027 N	2 1	4 2	_			
III. Mich.	387 134	331 144	2 3	10 6	50 2,635	4,254 2,537	9	15 5	_			
Wis.	54	60	4	2	296	500	_	4	—			
W.N. CENTRAL	277	290	3	7	274	134	17	38	—			
Minn. Iowa	121 26	109 23	_2	3	N	N	2	9 4	_			
Mo. N. Dak.	62 2	80 3	1	2	186 12	5 74	1 2	13 1	—			
S. Dak.	9	5	_	_	76	55	7	5	_			
Nebr. Kans.	19 38	21 49	_	2	_	_	4 1	6	_			
S. ATLANTIC	1,508	1,720	23	28	1,375	1,647	4	39	_			
Del.	7	17	7	_	21	4	_	5	—			
Md. D.C.	175 33	162 60	—	10	23	19	_	1	_			
Va. W. Va.	184 17	141 14	5	4	284 697	392 932	_	2	N			
N.C.	160	180	2	3	_	N	1	1	—			
S.C. Ga.	137 236	118 379	2	3	350	300	_	7	_			
Fla.	559	649	7	8	—	—	3	23	—			
E.S. CENTRAL Ky.	340 66	395 66	5 2	6 2	N	5 N	5	36	_			
Tenn.	161	129	_	4		_	_	6	_			
Ala. Miss.	113	121 79	1 2	_	_	5	1 4	14 16	_			
W.S. CENTRAL	615	1,273	10	18	3,822	5,301	35	120	_			
Ark. La.	65	76	_	_	107	48	26	8 46	_			
Okla.	89	103	_	1	_		_	10	_			
Tex.	461	1,094	10	17	3,715	5,253	9	56	—			
MOUNTAIN Mont.	220 8	320 4	7	6	1,734	1,559	8	267 1	_			
ldaho Wyo.	_	3 2	_	—	43	 25	—	1	—			
Colo.	47	78	2	1	1,224	1,232	_	31	_			
N. Mex. Ariz.	8 128	20 126	3	2	121	U	2 5	18 191	_			
Utah	18	26	1	1	346	302	_	4	—			
Nev. PACIFIC	11 1,351	61 2,054	1 39	2 45	_	_	1 48	21 215	_			
Wash.	153	141	4	45	N	N	40	215	_			
Oreg. Calif.	54 1,056	64 1,751	2 27	1 34	_	_	48	 215	_			
Alaska	16	23	_	_	—	—	_		—			
Hawaii	72	75	6	6	_		_	_	—			
Guam P.R.	_	40 62	_	_	123	105 278	_	_	_			
V.I. Amer. Samoa	 U	 U	 U	 U	 U	 U	 U	 U				
C.N.M.I.		U		U		U		U				
N: Not potificable		. No r	anartad agaaa	0.11		III CAL II	rn Mariana Jala					

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

N: Not notifiable. U: Unavailable. —: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. * Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date). † Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance). * Not previously notifiable.

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TABLE III. Deaths in 122 U.S. cities,* week ending August 20, 2005 (33rd Week)

TABLE III. Deaths	in 122 0.	All causes, by age (years)				d week)	All causes, by age (years)								
	All						P&I [†]		All						P&I [†]
Reporting Area	Ages	<u>≥</u> 65	45-64	25-44	1–24	<1	Total	Reporting Area	Ages	<u>≥</u> 65	45-64		1-24	<1	Total
NEW ENGLAND Boston, Mass.	430 119	303 70	91 35	24 10	8 3	4 1	36 12	S. ATLANTIC Atlanta, Ga.	1,331 217	820 120	323 58	127 26	37 9	23 4	55 4
Bridgeport, Conn.	27	19	5	2	_	1	1	Baltimore, Md.	172	98	44	19	7	4	15
Cambridge, Mass.	22	16	3	3	_	—	2	Charlotte, N.C.	108	68	26	9	3	2	3
Fall River, Mass.	22	18 37	4	4	1	1	2 4	Jacksonville, Fla.	190 144	120 92	48	19	1 3	2 3	9 5
Hartford, Conn. Lowell, Mass.	53 23	20	10 1	4	1	_	4	Miami, Fla. Norfolk, Va.	56	92 31	34 13	12 7	3	2	э 1
Lynn, Mass.	10	7	2	1	_	_	1	Richmond, Va.	45	27	12	5	_	1	2
New Bedford, Mass.	31	23	6	_	2	—	3	Savannah, Ga.	61	41	14	4	1	1	2
New Haven, Conn.	U	U	U	U	U	U	U	St. Petersburg, Fla.	40	26	8	6		_	2
Providence, R.I. Somerville, Mass.	U 5	U 4	U 1	U	U	U	U	Tampa, Fla. Washington, D.C.	186 100	132 57	36 27	7 12	8 2	3 1	12
Springfield, Mass.	34	23	9	1	1	_	1	Wilmington, Del.	12	8	3	1	_	_	_
Waterbury, Conn.	23	22	1	—	—	—	2	E.S. CENTRAL	849	547	210	52	23	17	52
Worcester, Mass.	61	44	14	2	_	1	5	Birmingham, Ala.	186	109	51	17	7	2	13
MID. ATLANTIC	1,649	1,127	357	102	37	25	93	Chattanooga, Tenn.	72	54	16	1	—	1	6
Albany, N.Y.	49	37	7	2	1	2	3	Knoxville, Tenn.	116	81	24	7	2	2	3
Allentown, Pa. Buffalo, N.Y.	18 76	12 50	3 17	3 6	2	1	5	Lexington, Ky. Memphis, Tenn.	74 143	50 101	21 32	1 5	4	2 1	9 9
Camden, N.J.	21	12	4	4	1	_		Mobile, Ala.	82	45	21	5	5	6	
Elizabeth, N.J.	18	13	5	_	_	_	1	Montgomery, Ala.	28	23	4	1	_	_	2
Erie, Pa.	47	30	11	2	1	3	5	Nashville, Tenn.	148	84	41	15	5	3	10
Jersey City, N.J. New York City, N.Y.	15 1,043	10 714	5 228	64	23	13	47	W.S. CENTRAL	1,370	823	353	91	64	39	51
Newark, N.J.	46	20	18	1	23 5	2	47	Austin, Tex.	95	55	28	7		5	4
Paterson, N.J.	7	3	3	1	_	_	3	Baton Rouge, La. Corpus Christi, Tex.	46 55	22 31	9 18	5 3	4 2	6 1	3
Philadelphia, Pa.	U	U	U	U	U	U	U	Dallas, Tex.	174	102	44	12	10	6	10
Pittsburgh, Pa.§	12	7	3	2	_	_		El Paso, Tex.	134	88	33	11	1	1	3
Reading, Pa. Rochester, N.Y.	25 125	21 95	4 20	7	1	2	2 17	Ft. Worth, Tex.	137	81	37	4	8	7	6
Schenectady, N.Y.	13	9	20	1	1		2	Houston, Tex.	364	218	99	25	15	7	17
Scranton, Pa.	28	24	4	_	_	—	1	Little Rock, Ark. New Orleans, La.	65 101	37 47	18 27	3 10	5 13	2 4	2 1
Syracuse, N.Y.	67	46	14	5	_	2	4	San Antonio, Tex.	U	Ψ, U	27 U	Ŭ	Ü	Ū	Ů
Trenton, N.J. Utica, N.Y.	25 10	14 7	6 2	3 1	2	_	1	Shreveport, La.	73	55	15	3	_	_	3
Yonkers, N.Y.	4	3	1	_	_	_	_	Tulsa, Okla.	126	87	25	8	6	_	2
E.N. CENTRAL	1,768	1,128	409	126	50	54	97	MOUNTAIN	689	435	170	54	13	17	36
Akron, Ohio	42	25	11	3	2	1	5	Albuquerque, N.M. Boise, Idaho	107 41	74 30	22 9	8 1	1	2 1	2 2
Canton, Ohio	33	21	9	2	1		3	Colo. Springs, Colo.	52	32	15	2	2	1	
Chicago, III. Cincinnati, Ohio	301 51	150 36	77 7	34 3	19 2	20 3	17 3	Denver, Colo.	100	56	24	10	6	4	6
Cleveland, Ohio	209	148	43	10	3	5	6	Las Vegas, Nev.	237	146	68	18	3	2	17
Columbus, Ohio	204	124	54	17	4	5	12	Ogden, Utah Phoenix, Ariz.	33 U	27 U	4 U	2 U			2 U
Dayton, Ohio	118	80	30	5	2	1	9	Pueblo, Colo.	26	20	3	2	1	_	3
Detroit, Mich. Evansville, Ind.	159 31	88 26	52 5	15	3	1	8 3	Salt Lake City, Utah	93	50	25	11	_	7	4
Fort Wayne, Ind.	64	47	9	4	1	3	3	Tucson, Ariz.	U	U	U	U	U	U	U
Gary, Ind.	15	8	4	2	_	1	1	PACIFIC	1,251	873	261	57	33	27	310
Grand Rapids, Mich.	65	48	11	4	1	1	6	Berkeley, Calif.	13	11	1	_	_	1	_
Indianapolis, Ind.	63 31	46 24	14 5	1	-	2	3	Fresno, Calif. Glendale, Calif.	92 7	60 6	25	2 1	5	_	5 1
Lansing, Mich. Milwaukee, Wis.	97	24 65	20	6	1	5	1 6	Honolulu, Hawaii	66	54	8	2	_	2	6
Peoria, III.	43	30	10	_	3	_	2	Long Beach, Calif.	58	44	11	2	1	_	2
Rockford, III.	47	36	10	1	_	—	2	Los Angeles, Calif.	120	72	27	11	6	4	16
South Bend, Ind.	24	14	4	2	3	1	2	Pasadena, Calif.	36	30	4	1	1	_	3
Toledo, Ohio Youngstown, Ohio	117 54	81 31	22 12	10 6	1 3	3 2	2 3	Portland, Oreg. Sacramento, Calif.	99 236	69 163	21 53	5 12	3 7	1	4 236
W.N. CENTRAL								San Diego, Calif.	160	105	30	13	5	7	16
W.N. CENTRAL Des Moines, Iowa	413	269	101	24	7	12	19	San Francisco, Calif.	U	U	U	U	U	U	U
Duluth, Minn.	29	20	7	2	_	_	2	San Jose, Calif.	165	118	37	6	2	2	15
Kansas City, Kans.	35	20	12	1	1	1	2	Santa Cruz, Calif. Seattle, Wash.	31 105	21 73	9 23	2	2	1 5	4
Kansas City, Mo.	76	44	16	6	2	7	4	Spokane, Wash.	63	47	12		1	3	2
Lincoln, Nebr.	29	22	6 15	1	1	1	2 2	Tacoma, Wash.	Ŭ	Ŭ	Ű	U	Ů	Ŭ	Ū
Minneapolis, Minn. Omaha, Nebr.	44 U	23 U	15 U	4 U	U	U	U U	TOTAL	9,750 [¶]	6,325	2,275	657	272	218	749
St. Louis, Mo.	64	37	19	4	2	2	4		0,.00	0,020	_,_,0	507	_/ _		0
St. Paul, Minn.	61	50	8	3	—	—	_								
Wichita, Kans.	75	52	18	3	1	1	3								

U: Unavailable. —: No reported cases.

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

[†] Pneumonia and influenza.

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

¹ Total includes unknown ages.

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