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Nonfatal and Fatal Drownings in Recreational Water Settings — United States, 2001–2002

Drowning is the seventh leading cause of unintentional injury deaths for all ages and the second leading cause of all injury deaths in children aged 1-14 years (1). Many of these injuries occur in recreational water settings, including pools, spas/hot tubs, and natural water settings (e.g., lakes, rivers, or oceans). To examine the incidence and characteristics of nonfatal and fatal unintentional drownings in recreational water settings, CDC analyzed 2001-2002 data from the National Electronic Injury Surveillance System All Injury Program (NEISS-AIP) and National Vital Statistics System (NVSS) death certificate data from 2001. This report summarizes that analysis, which indicated that, during 2001-2002, an estimated 4,174 persons on average per year were treated in U.S. hospital emergency departments (EDs) for nonfatal unintentional drowning injuries in recreational water settings. Approximately 53% of persons required hospitalization or transfer for more specialized care. During 2001, a total of 3,372 persons suffered fatal unintentional drownings in recreational settings. Nonfatal and fatal injury rates were highest for children aged ≤4 years and for males of all ages. To reduce the number of drownings, environmental protections (e.g., isolation pool-fences and lifeguards) should be adopted; alcohol use should be avoided while swimming, boating, or water skiing or while supervising children; and all participants, caregivers, and supervisors should be knowledgeable regarding water-safety skills and be trained in cardiopulmonary resuscitation (CPR) (Box).

NEISS-AIP is operated by the U.S. Consumer Product Safety Commission and collects data about initial visits for all types and causes of injuries treated in U.S. EDs (2). Data are drawn from a nationally representative subsample of 66 hospitals out of 100 NEISS hospitals that were selected as a stratified probability sample of hospitals in the United States and

its territories; the hospitals have a minimum of six beds and a 24-hour ED. NEISS-AIP provides data on approximately 500,000 injury- and consumer product–related ED cases each year. Death certificate data were obtained from NVSS (*3*). Rates were calculated by using 2001 and 2002 U.S. Census bridged-race population estimates from the National Center for Health Statistics (*1*).

Nonfatal cases were identified in the NEISS-AIP data if they had a precipitating or immediate cause of "drowning/neardrowning," a diagnosis of "submersion," or the mention of "drown" or "submersion" in the comment field. Cases were reviewed, and any intentional or nonrecreational drownings (e.g., in bathtub, bucket, toilet, or related to motor-vehicle crash) were excluded. In addition, because deaths are not captured completely by NEISS-AIP, persons who were dead on arrival or who died in the ED also were excluded. Each case was assigned a sample weight on the basis of the inverse probability of selection; these weights were summed to provide national estimates of nonfatal drownings. Estimates were based on weighted data for 206 patients with drowning injuries in recreational water settings treated at NEISS-AIP hospital EDs during 2001-2002. Two years of data were necessary to provide stable rates. Confidence intervals (CIs) were calculated

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Notifiable Disease Morbidity and 122 Cities Mortality Data

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BOX. Strategies for drowning prevention in recreational water settings*

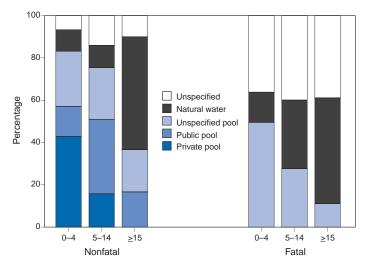
- Make sure an adult is constantly watching children swimming or playing in or around the water. Do not read, play cards, talk on the phone, mow the lawn, or engage in any other distracting activity while supervising children.
- Never swim alone or in unsupervised places and always swim with a buddy. Select swimming sites that have lifeguards whenever possible.
- Avoid drinking alcohol before or during swimming, boating, or water skiing. Avoid drinking alcohol while supervising children around water.
- Learn to swim. Enroll yourself and your children in swimming classes. The American Academy of Pediatrics does not recommend swimming classes as a means of drowning prevention for children aged <4 years.
- Learn cardiopulmonary resuscitation (CPR). Because of the time it might take for paramedics to arrive, your CPR skills can make a difference in someone's life.
- Do not use air-filled or foam toys, such as "water wings," "noodles," or inner-tubes, in place of life jackets (personal flotation devices). These are toys and are not designed to keep swimmers safe.
- If you have a swimming pool at your home:
 - Install a four-sided, isolation pool-fence. The fence should be ≥4 feet high and should completely separate the pool from the house and play area of the yard. Use self-closing and self-latching gates in the fence with the latches out of children's reach. Consider additional barriers such as automatic door locks and door alarms to prevent access by small children to the yard or pool.
 - Toys should be removed from the pool immediately after use. Floats, balls, and other toys might encourage children to enter the pool on their own or to lean over the pool and potentially fall in.
- Tips for recreation in natural bodies of water:
 - Know the local weather conditions and forecast before swimming or boating. Strong winds and thunderstorms with lightning strikes are dangerous to swimmers and boaters.
 - Use U.S. Coast Guard-approved life jackets when boating, regardless of distance to be traveled, size of boat, or swimming ability of boaters.
 - Heed colored beach warning flags.
 - Watch for dangerous waves and signs of rip currents (e.g., water that is discolored and unusually choppy, foamy, or filled with debris). If you are caught in a rip current, swim parallel to the shore. Once out of the current, swim toward the shore.

^{*} Adapted from SafeUSA. Additional information is available at http://www.

by using a direct variance estimation procedure that accounted for the sample weights and complex sample design. Estimates for the 2 years were annualized by dividing the sample weights by two. Because of the small sample size, percentages of nonfatal injuries by location (Figure) were based on unweighted data for NEISS-AIP cases and, thus, are not nationally representative. Drowning deaths in recreational water settings were defined as those for which the underlying cause recorded on death certificates by a physician or coroner was one of the following International Classification of Diseases, Tenth Revision (ICD-10) codes: W67-W74, V90, or V92. Because NVSS is a complete census of all deaths, it is not subject to sampling error; however, CIs were calculated to account for random error (3). This report uses the terms "nonfatal drowning" and "fatal drowning" to describe the events captured by using these methods.

During 2001–2002, an estimated 4,174 persons on average were treated annually in U.S. EDs for nonfatal unintentional drowning injuries in recreational settings, and 3,372 persons died in 2001 (Table). Children aged ≤4 years accounted for nearly 50% of the ED visits, and children aged 5–14 years an additional 25%. Fatal rates also were highest in children aged ≤4 years. The nonfatal drowning rate for males was nearly twice that for females, and the fatal rate for males

FIGURE. Distribution* of nonfatal and fatal recreation-related drownings, by location and age group for reported cases — United States, 2001–2002



Age group (yrs) and outcome (nonfatal versus fatal)

TABLE. Estimated annual number*, percentage, and rate† of persons treated in emergency departments for nonfatal recreation-related and fatal recreation-related drownings\$, by selected characteristics — United States, 2001–2002

		No	nfatal			F	atal	
	Estimated							
Characteristic	no.	(%)	Rate	(95% CI [¶])	No.	(%)	Rate	(95% CI)
Age (yrs)								
0–4	2,168**	(52.0)	11.13	(3.56-18.69)	442	(13.1)	2.28	(2.07-2.50)
5–14	1,058	(25.3)	2.58	(1.13–4.02)	333	(9.9)	0.81	(0.72-0.90)
<u>≥</u> 15	948	(22.7)	0.42	(0.20-0.64)	2,563	(76.0)	1.14	(1.10-1.18)
Unknown	_	· — ·	_	_	34	(1.0)	_	_
Sex								
Male	2,721	(65.2)	1.93	(1.16-2.70)	2,789	(82.7)	1.99	(1.92-2.06)
Female	1,452 ^{††}	(34.8)	1.00	(0.27–1.72)	583	(17.3)	0.40	(0.37–0.43)
Location								
Pool	2,751	(65.9)	0.96	(0.40-1.51)	596	(17.7)	0.21	(0.19 - 0.23)
Natural water	909	(21.8)	0.32	(0.14–0.49)	1,467	(43.5)	0.51	(0.49–0.54)
Other/Unspecified	513	(12.3)	_	· — ′	1,309	(38.8)	_	· — ·
Disposition								
Treated and released	1,925	(46.1)	0.67	(0.29-1.05)	_	_	_	_
Hospitalized/Transferred	2,233	(53.5)	0.78	(0.44–1.12)	_	_	_	_
Other/Unknown	16	(0.4)	_	· _ ′	_	_	_	_
Total	4,174	(100.0)	1.46	(0.77-2.14)	3,372	(100.0)	1.18	(1.14–1.22)

^{*} Numbers might not add to totals because of rounding.

^{*} Distribution for nonfatal recreation-related drownings based on unweighted data for 206 National Electronic Injury Surveillance System All Injury Program cases (119 cases in persons aged 0–4 years, 57 in persons aged 5–14 years, and 30 cases in persons aged ≥15 years) and therefore are not nationally representative; distribution for fatal recreation-related drownings based on 3,372 deaths from 2001 only.

[†] Per 100,000 persons.

[§] Data for fatal recreation-related drownings are for 2001 only.

[¶] Confidence interval.

^{**} Although this estimate is based on 119 cases, it might be unstable. The coefficient of variation is 35% because of an over-representation of children treated in National Electronic Injury Surveillance System All Injury Program (NEISS-AIP) children's hospitals, affecting the variance of the estimate.

^{††} Although this estimate is based on 71 cases, it might be unstable. The coefficient of variation is 37% because small NEISS-AIP hospitals are underrepresented in this subgroup, affecting the variance of the estimate.

was almost five times that for females. These injuries in recreational settings occurred most commonly on weekends (Friday–Sunday), accounting for 56% of nonfatal injuries, and in summer months (June–August), accounting for 56% of nonfatal injuries and 51% of fatalities. For those cases that were known to occur either in a pool or natural water setting, an estimated 75% of nonfatal injuries occurred in pools, whereas 70% of the fatalities occurred in natural water settings. Nearly 40% of reported nonfatal injuries to children aged ≤ 4 years occurred in private pools; both nonfatal and fatal injuries in natural water settings increased with age (Figure). Approximately 53% of ED-treated patients required hospitalization or transfer to another hospital for more specialized care.

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Editorial Note: Drownings have been a leading cause of injury death in the United States for decades (1). The findings in this report are consistent with previous reports of fatal drownings, indicating that small children are at highest risk, particularly around residential pools (4). In addition, males are at higher risk than females, possibly because of their choices of activities with higher risk and increased use of alcohol (5).

This report is the first to provide national estimates of the number and characteristics of nonfatal unintentional drowning injuries in recreational settings treated in EDs. During 2001–2002, approximately 4,000 persons were treated annually for nonfatal drownings, with approximately 50% requiring hospitalization or transfer for more specialized care, compared with 5% hospitalized or transferred for all unintentional injuries (1). Nonfatal drownings put victims at risk for infection of the respiratory tract and complications associated with lack of oxygen, including permanent brain damage.

Because treatment measures such as advanced in-hospital care do not seem to substantially affect the outcome of drowning injuries (6), primary and secondary prevention strategies are critical to reducing morbidity and mortality associated with these injuries. Primary prevention aims to decrease unintentional entry into the water, which is especially important in preventing drowning injuries in children aged ≤ 4 years that commonly occur when unintended access to residential pools is possible (4). Four-sided isolation pool-fencing and other barriers (e.g., weight-bearing pool covers, automatic door locks, and alarms) are necessary to prevent drownings when lapses in supervision occur (7).

Once a person is in the water, secondary prevention measures can avert drownings. Strategies such as consistently using personal flotation devices when on or around the water

and avoiding use of alcoholic beverages are especially relevant for those involved in boating (8). In addition, swimming instruction and water-safety training can prepare a participant to deal with hazardous aquatic environments (e.g., rip currents, waves, and underwater obstacles like riverbed rocks). Participants can further reduce risk by choosing swimming sites that have lifeguard services (9); however, lifeguard services often are not feasible at natural water sites. Environmental modifications (e.g., lakefront slope gradients to prevent sudden, unseen underwater drop-offs) at natural water sites can help prevent drownings (9). Finally, immediate bystanderinitiated CPR, before the arrival of first responders, has been associated with improved outcomes (10).

The findings in this report are subject to at least four limitations. First, whereas fatalities occurring in EDs are excluded from the nonfatal data presented, those occurring during or after hospitalization were not excluded; data for fatal and nonfatal drownings might not be mutually exclusive. Second, limited data were available regarding circumstances and possible use of prevention strategies (e.g., life jackets, fencing, or CPR). Third, although drowning risks vary at the state and local levels, NEISS-AIP is designed to provide only national estimates and does not provide state or local estimates. Finally, although the extent of exposure to recreational water settings might vary by age, sex, season, skill level, or other factors, these data were not available; as a result, the analysis did not account for exposure.

Because even nonfatal drownings can be serious, with many requiring hospitalization and some resulting in brain damage or other long-term adverse effects, prevention is critical. Participants, parents, caregivers, and supervisors should be aware of the hazards, use appropriate prevention strategies, and be prepared with the skills to save lives in the event of emergencies.

Acknowledgments

This report is based on data contributed by T Schroeder, MS, C Downs, A McDonald, MA, Div of Hazard and Injury Data Systems, U.S. Consumer Product Safety Commission. E Sogolow, PhD, Div of Unintentional Injury Prevention; JL Annest, PhD, Office of Statistics and Programming, National Center for Injury Prevention and Control, CDC.

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a·ware: adj

(ə-'wâr) 1 : marked by comprehension, cognizance, and perception; see

also MMWR.



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Enhanced Enforcement of Laws to Prevent Alcohol Sales to Underage Persons — New Hampshire, 1999–2004

In 1984, the National Minimum Drinking Age Act (Public Law 98-363) was passed, requiring states to raise to 21 years the minimum age to purchase and publicly possess alcohol. Although the law has contributed to substantial reductions in underage drinking and alcohol-related motorvehicle crashes (1), alcohol use and binge drinking rates among youths remain high in the United States, and efforts by youths to purchase alcohol from licensed establishments frequently are successful (2,3). To reduce alcohol sales to persons aged <21 years in Concord (2000 population: 40,687), New Hampshire, the Concord Police Department (CPD) and New Hampshire Liquor Commission (NHLC) conducted a pilot program of enhanced law enforcement with quarterly compliance checks of alcohol licensees during March 2002-February 2004. This report summarizes the results of that program, which indicated that enhanced enforcement 1) resulted in a 64% reduction in retail alcohol sales to underage youths and 2) was temporally associated with declines in alcohol use and binge drinking among Concord high school students. These findings emphasize the potential effectiveness of enhanced enforcement of minimum drinking age laws to reduce consumption of alcohol by underage youths.

NHLC routinely conducts statewide compliance checks by using persons aged 17–19 years to attempt purchases of beer or wine. If questioned, buyers are instructed to state their true age and, if asked, to present their driver's license to verify their age. During October 1999–February 2004, routine compliance checks were conducted at 29% (539 of 1,839) of "off-

sale" alcohol licensees (i.e., businesses that sell alcohol to be consumed off-premises, such as convenience, grocery, and state liquor stores) outside of Concord each year. In Concord, during October 1999–February 2002, routine compliance checks were conducted one to two times per year at all off-sale alcohol licensees.

During March 2002-February 2004, CPD conducted a campaign of increased enforcement of the minimum drinking age. The campaign included three components: 1) quarterly compliance checks of all off-sale alcohol licensees; 2) enhanced administrative penalties for noncompliance, including a mandatory fine levied against the alcohol licensee, temporary suspension of retailers' alcohol licenses beginning with the first offense, and increasing penalties for subsequent offenses (Table); and 3) media coverage of enhanced enforcement activities, such as reporting the number of citations issued for noncompliance. Quarterly compliance checks were conducted throughout the intervention period; however, mandatory licensee fines and suspensions were in effect only during August 2002-July 2003. The enhanced administrative penalties were announced by CPD in a letter sent to all Concord alcohol licensees in June 2002. Under New Hampshire state law, store clerks who sold alcoholic beverages to underage buyers also were subject to fines and penalties, which were issued at the discretion of the local judicial system throughout the study period.

To estimate the number of youths who drank alcohol, the New Hampshire Department of Health and Human Services analyzed data from the Youth Risk Behavior Survey (YRBS) conducted at Concord High School among students in grades 9–12 in 2001 and 2003. In 2001, a total of 1,131 (62.0%) of 1,824 high school students participated in the Concord YRBS. In 2003, a total of 1,274 (74.0%) of 1,721 students participated. Statewide data on alcohol consumption by high school students were obtained from the 1995 and 2003 YRBS conducted by New Hampshire. Because of low response rates in 1997, 1999, and 2001, data from New Hampshire YRBS surveys in those years were not weighted, and therefore were not used for comparison. In 1995, a total of 2,092 students participated in the New Hampshire YRBS; the overall response rate was 65.0%. In 2003, a total of 1,322 students partici-

TABLE. Mandatory penalties to licensees for sale of alcohol to persons aged <21 years during compliance checks, by severity — Concord, New Hampshire, August 2002–July 2003

Offense	Fine/Penalty	License/Suspension (days)
First	\$250	3
Second	\$500	5
Third	\$750	10
Fourth	\$1,500	30
Fifth	Revocation of license	

pated in the New Hampshire YRBS; the overall response rate was 61.8%. Current alcohol use was defined as having at least one drink of alcohol on ≥ 1 day during the preceding 30 days. Binge drinking was defined as having five or more drinks of alcohol in a row during the preceding 30 days.

In Concord, before enhanced enforcement activities, 62 (28.2%) of 220 licensees sold alcohol to underage youths during compliance checks (Figure 1). During enhanced enforcement, 39 (10.2%) of 383 licensees sold alcohol to underage youths during compliance checks (relative risk [RR] = 0.4; 95% confidence interval [CI] = 0.3–0.5). During enforcement checks elsewhere in New Hampshire, outside of Concord, 308 (30.5%) of 1,007 licensees sold alcohol to underage youths in compliance checks during October 1999–February 2002 (Figure 2). During March 2002–February 2004, a total of 231 (27.7%) of 832 licensees sold alcohol to underage youths (RR = 0.9; 95% CI = 0.8–1.1).

Among Concord high school students, statistically significant declines occurred in the proportion of students who reported current alcohol use (from 49.8% in 2001 to 39.9% in 2003; RR = 0.8; 95% CI = 0.7–0.9) and binge drinking (from 32.0% in 2001 to 25.0% in 2003; RR = 0.8; 95% CI = 0.7–0.9). Statewide, no statistically significant decreases occurred in the proportion of New Hampshire high school students who reported current alcohol use in 1995 (53.1% [95% CI = 50.2%–56.0%]) versus 2003 (47.1% [95% CI = 41.8%–52.4%]) or binge drinking in 1995 (32.9% [95% CI = 30.2%–35.6%]) versus 2003 (30.6% [95% CI = 25.9%–35.3%]).

Reported by: R Barry, Concord Police Dept; E Edwards, New Hampshire Liquor Commission; A Pelletier, MD, New Hampshire Dept of Health and Human Svcs. R Brewer, MD, J Miller, MD, T Naimi, MD, Div of Adult and Community Health, National Center for Chronic Disease Prevention and Health Promotion; A Redmond, MPH, Div of Applied Public Health Training, Epidemiology Program Office; L Ramsey, PhD, EIS Officer, CDC.

FIGURE 1. Percentage of licensees selling alcohol to persons aged <21 years during compliance checks, by month and year — Concord, New Hampshire, October 1999–February 2004

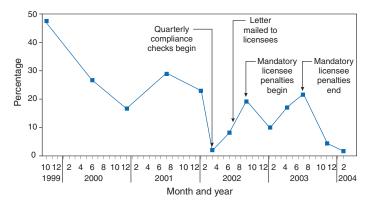
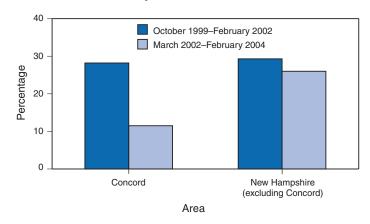


FIGURE 2. Percentage of licensees selling alcohol to persons aged <21 years during compliance checks before and during enchanced enforcement, by area — Concord, New Hampshire, October 1999–February 2004



Editorial Note: In Concord, New Hampshire, quarterly compliance checks and mandatory penalties were associated with substantial reductions in retail alcohol sales to underage buyers. During this same period, retail alcohol sales to underage buyers in the rest of the state remained unchanged. In addition, both current alcohol use and binge drinking by Concord high school students decreased during 2001–2003. These findings are consistent with other studies that determined compliance checks can reduce alcohol sales to underage youths and, when combined with other activities, might reduce youth consumption of alcohol (2,4,5).

This report is subject to at least four limitations. First, during the study period, other efforts to reduce underage access to alcohol in Concord were conducted (e.g., roving park patrols and surveillance outside retail stores), reducing the likelihood that reduction in alcohol sales to underage youths was associated only with enhanced enforcement. Second, because quarterly compliance checks were instituted for a longer period than mandatory penalties, the contributions of the checks and penalties relative to the decrease in alcohol sales to underage youths were difficult to assess. Third, because statewide compliance checks were conducted by using a convenience sample, statistical comparisons could not be made between compliance check data for Concord and the rest of New Hampshire. Finally, the absence of weighted data from the 2001 New Hampshire YRBS limited the ability to compare recent changes in current alcohol use and binge drinking between Concord and the rest of the state.

State and local governments often lack adequate resources to enforce minimum drinking age laws (6). CPD was able to partially fund its program through a grant from the New Hampshire Department of Justice. Alcohol excise taxes might be another resource for funding enforcement efforts. In addition, MMWR now publishes important health information, like reports related to terrorism and other health emergencies, as often as required to protect the public health. MMWR Dispatch provides the latest and most accurate information regarding public health investigations, surveillance, prevention and treatment guidelines, and other clinical information. Visit cdc.gov/mmwr, and sign up to receive MMWR Dispatch by e-mail. In addition to MMWR Dispatch, you'll also receive MMWR Weekly, MMWR Recommendations and Reports, and MMWR Surveillance Summaries. As always, MMWR is also available in print. Anytime MMWR Dispatch is published online, it also appears in the next MMWR issue. printed MMWR Dispatch. Another way MMWR helps you stay current on important public health, clinical, and scientific topics.

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raising alcohol taxes is an effective policy intervention for reducing underage drinking and alcohol-related problems (6,7).

The findings in this report support recommendations of the Institute of Medicine in its 2003 report, Reducing Underage Drinking: A Collective Responsibility (2). These recommendations call for 1) regular compliance checks; 2) administrative penalties, including fines and license suspensions that increase with each offense; 3) enhanced media coverage of the purposes and results of compliance checks; and 4) training for alcohol retailers regarding their legal responsibility to avoid selling alcohol to underage youths. These recommendations have been supported by previous studies (4,8,9). In another effort to prevent underage drinking, the New Hampshire state legislature in August 2003 approved a new driver's license that will display photo and driver information vertically for persons aged <21 years and horizontally for persons aged ≥ 21 years, making it easier for store clerks to identify underage youths.

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Breast Cancer–Screening Data for Assessing Quality of Services — New York, 2000–2003

The New York State Breast and Cervical Cancer Screening Program (NYSBCCSP) is funded in part through the National Breast and Cervical Cancer Early Detection Program (NBCCEDP) (1,2). A total of 292 mammography facilities participate in NYSBCCSP. In 1998, NYSBCCSP began reviewing the clinical outcomes of clients screened through the program to identify facilities that might need more intensive assessment of quality assurance and corrections of deficiencies. This report describes the quality assurance process of NYSBCCSP, which provides methods for monitoring and assessing the quality of clinical care by program providers. These outcome-based methods can be useful to other programs and providers of breast cancer screening.

NYSBCCSP routinely compares the proportion of abnormal clinical breast examinations (CBE), abnormal screening mammography outcomes, and positive predictive values of breast cancer biopsies (ppvB) for individual program facilities with overall figures generated by the state and national programs (NYSBCCSP and NBCCEDP, unpublished data, 1995–2003). Facilities with proportions of abnormal mammography*, abnormal CBEs†, or ppvB§ significantly¶ different from the lower or upper bounds of expected ranges (i.e., outliers) are identified for further evaluation. The expected ranges for abnormal CBEs are based on the NBCCEDP Data Quality Indicator Guide, a program management tool; the ranges for abnormal mammography and ppvB are commonly accepted parameters in mammography (4).

NYSBCCSP compiles additional patient data for the facilities identified with outlier results, including the age, race/ethnicity, and previous screening history of clients served; the proportion of abnormal screenings or ppvB over time; and the diagnostic procedures performed after abnormal screening results. The cancer detection rate also is calculated and compared with rates in the state and national programs. In addition, cross tabulations of screening mammography results by CBE results are reviewed.

The facility and local screening project responsible for coordinating screening and related services in a community are contacted to determine potential explanations for the outliers. A random sample of medical records is reviewed to identify data-reporting errors. If data-reporting errors cannot explain the outlier results, the clinical interpretive skills of providers at the facility are assessed. A board-certified radiologist performs the mammography assessment by evaluating the technical and interpretive quality of the mammograms. A clinician performs the CBE assessment by reviewing the position of patients during examinations, areas of breast tissue examined, search pattern used, and quality of documentation and communication skills of providers.

NYSBCCSP collaborates with the facility and local screening project to develop, implement, and evaluate an action plan to correct any deficiencies identified. The following two examples describe this quality assessment process.

Case Reports

Case 1. During 1996-1999, facility A, a medium-sized hospital (300-400 inpatient beds), provided mammography screening to 544 NYSBCCSP-enrolled women. A total of 73 (13.4%) of the 544 mammograms performed at facility A were classified as Breast Imaging Reporting and Data System (BI-RADS®) category 4 (i.e., suspicious abnormalities that indicating biopsy should be considered), whereas 3,750 (1.5%) of an estimated 250,000 mammograms performed at other facilities in NYSBCCSP during the same period were classified as category 4. Five (3.0%) of 166 women at facility A with abnormal mammograms underwent additional imaging, compared with 13,500 (45.0%) of approximately 30,000 women with abnormal mammograms screened at other NYSBCCSP facilities. In addition, the 166 women at facility A with abnormal mammograms were more than three times as likely to receive a breast biopsy as women at other facilities (52.0% versus 15.0%, respectively). The ppvB for detecting breast cancer from imaging at facility A was 6.9%, compared with 23.9% at other facilities.

On the basis of review of medical records and independent review of mammograms at facility A, two staff radiologists had higher biopsy recommendation rates and use of stereotactic biopsy than those of three other readers at the facility. Facility A agreed to the following corrective plan of action: 1) conduct in-service training for all five radiologists on the use of the BI-RADS® reporting system; 2) obtain a second reading by a different radiologist of all mammograms reported as a BI-RADS® category 4 for 6 months, with final resolutions by the chief of radiology; and 3) obtain facility accreditation for its stereotactic biopsy program.

^{*}A screening mammogram with a reported result of 4, 5, or 0 based on the American College of Radiology's Breast Imaging Reporting and Data System (BI-RADS®) classification system (i.e., suspicious abnormality, highly suggestive of malignancy, and assessment is incomplete) (3).

[†] A palpable mass, nipple discharge, unilateral nipple inversion, or skin abnormality or unilateral area of thickening that requires immediate diagnostic evaluation.

[§]The proportion of breast biopsies that result in a diagnosis of in situ or invasive breast cancer.

One-sided p<0.002 for abnormal CBE and mammogram and one-sided p<0.05 for ppvB.

During January 2001–December 2002 (approximately 4–28 months after completion of the action plan), the proportion of mammograms reported at facility A classified as BI-RADS® category 4 decreased from 13.4% to 4.3%, the proportion of women with abnormal mammograms receiving additional imaging increased from 3.0% to 7.0%, the proportion of women undergoing breast biopsies decreased from 52.0% to 28.0%, and the ppvB increased from 6.9% to 19.0%.

Case 2. During April 1995-March 2000, facility B, a private radiology practice, provided 11,972 CBEs and screening mammograms to 9,094 women through NYSBCCSP. The proportion of abnormal CBEs among clients with normal mammography results classified as BI-RADS® categories 1–3 (i.e., negative, benign finding, and probably benign finding, with initial short interval follow-up suggested) was 0.1%, compared with 2.4% for clients screened by other facilities in the program. Among a random sample of 50 clients who received a CBE at facility B, three (9.7%) of 31 women interviewed by program staff reported having received a CBE. Further data analyses determined that the breast cancer detection rate among women screened at facility B during the same period was 1.3 per 1,000 screenings, compared with 5.2 per 1,000 at other facilities. The cancer detection rate did not change after adjustment for age, race/ethnicity, and client previousscreening history. Because the difference between the cancer detection rate at facility B and the rest of the program was greater than what would be expected on the basis of CBE quality concerns alone, an assessment of the technical quality and interpretation of mammograms was conducted. The review identified inadequate technical quality and interpretation of mammograms.

The New York state health commissioner ordered facility B to cease operations immediately. The American College of Radiology also revoked the facility's mammography accreditation.

A total of 9,094 women evaluated previously at facility B were identified as possibly needing repeat breast cancer screenings. The New York State Department of Health (NYSDOH) contacted women by mail and telephone to determine current screening status and the need for rescreening appointments. Of 3,125 women who were rescreened, 734 (23.5%) had abnormal screening results that warranted additional diagnostic evaluation. Among these women, eight (1.1%) had breast cancer diagnosed. Among 1,160 other women screened initially at facility B and later screened at other facilities, 15 (1.3%) women had confirmed diagnoses of breast cancer.

The detection rate among screenings performed or identified through the follow-up rescreening effort was 5.3 cases per 1,000 screenings, approximately the detection rate in the

rest of NYSBCCSP. Overall, NYSDOH identified 25 women with breast cancer, including two women screened previously at facility B outside of NYSBCCSP.

Reported by: BJ Hutton, MPH, EK Bradt, MPH, JH Chen, MD, P Gobrecht, J O'Connell, A Pedulla, MPH, T Signorelli, S Bisner, DP Hoffman, MEd, New York State Dept of Health. HW Lawson, MD, Div of Cancer Prevention and Control, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: NBCCEDP was implemented to increase screening among low-income, uninsured women and to reduce racial/ethnic disparities in health-related outcomes. Improvements made after applying the quality assurance process described in this report improved patient care not only for women screened through NBCCEDP, but also for women evaluated at participating facilities. The quality assurance activities undertaken by NYSBCCSP were initiated to improve clinical provider skill and have resulted in positive outcomes for facility A and NYSBCCSP.

Locating women evaluated at facility B and scheduling repeat breast cancer screening and other quality assurance efforts served as a basis for media reports about mammography quality, and stimulated discussions about ensuring adequate skill level among radiologists interpreting mammograms during reauthorization hearings for the Mammography Quality Standards Act. Mammography continues to be a highly effective tool for the early detection of breast cancer (5–7). Although neither the benefits of CBE alone nor the incremental benefits of adding CBE to mammography have been determined, CBE remains a common screening practice and detects certain cancers missed by mammography (8–10).

The quality assurance interventions described in this report are a key component of an organized cancer screening program and raise the standards of breast cancer screening throughout the provider community. Efforts to improve the technical quality and interpretation of mammography and CBE will further facilitate increasing the proportion of women whose breast cancers are identified at an early stage, which can further reduce mortality from breast cancer.

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National Laboratory Inventory for Global Poliovirus Containment — United States, November 2003

In anticipation of the interruption of wild poliovirus (WPV) transmission, the United States has joined 122 other poliomyelitis-free countries in taking steps to minimize the risk for reintroducing WPV from laboratories to communities. In October 2002, a nationwide survey of laboratories and biomedical institutions (e.g., universities) that oversee multiple laboratories was conducted to identify those that might be holding WPV-containing materials and to establish a national inventory of institutions and laboratories retaining such materials (*I*). A total of 32,429 laboratories and biomedical institutions listed in multiple databases were mailed letters to alert laboratories of the impending global eradication of polio and encourage disposal of unneeded WPV-containing mate-

rials. The national inventory is a list of institutions and laboratories whose staff will be kept informed of eradication progress and appropriate WPV-containment procedures. This report summarizes use of the survey to create the national inventory.

In the survey, institutions and laboratories were categorized as 1) those most likely to possess WPV-containing materials (i.e., academic institutions, federal government departments, industrial facilities, and state and local health departments), 2) those that may possess such materials (i.e., clinical laboratories certified* for complex testing in microbiology), and 3) those least likely to possess such materials (i.e., clinical laboratories certified for noncomplex testing in microbiology). The least likely to possess category was included to establish whether stored WPV-containing materials existed in small clinical laboratories (e.g., private physicians' offices) licensed to perform noncomplex tests. Institutions and laboratories were asked to review records, search storage areas, and provide electronically (i.e., by e-mail or fax) the numbers of laboratories included in the search and names of laboratories storing WPV-containing materials, along with types of materials and amounts; those that did not respond by the requested date were mailed followup letters and contacted by telephone.

Total responses in the three categories accounted for 105,356 individual laboratories. A total of 5,585 (100%) institutions and laboratories in the categories of most likely to possess and may possess WPV-containing materials responded to the survey. A total of 24,206 (90%) of 26,844 institutions and laboratories categorized as least likely to possess such materials also responded (Table 1). Because none of the 24,206 respondents reported storing WPV-containing materials, follow-up

TABLE 1. Number and percentage of institutions that potentially possess wild poliovirus-containing materials, by category — United States, 2003

	No. in	No. resp	onded [†]	
Category	database*	No.	(%)	
Most likely to possess				
Academic institutions	437	437	(100)	
Federal government departments	13	13	(100)	
Industrial facilities	668	668	(100)	
State and local health departments	98	98	(100)	
Total	1,216	1,216	(100)	
May possess				
CLIA§ certified to perform complex tests in microbiology	4,369	4,369	(100)	
Least likely to possess				
CLIA certified to perform noncomplex tests in microbiology	26,844	24,206	(90)	
Total	32,429	29,791	(92)	

^{*}Number of institutions (e.g., universities) listed in multiple databases and listservs (e.g., U.S. Department of Education database of post-secondary colleges and universities and biotechnology and pharmaceutical institutions on the website of the Biotechnology Industry Organization).

^{*}The Clinical Laboratory Improvement Act of 1988 established quality standards for all laboratories to ensure accuracy, reliability, and timeliness of clinical tests (2).

Represents 105,356 laboratories.

[§] Clinical Laboratory Improvement Act of 1988; established quality standards for all laboratories to ensure accuracy, reliability, and timeliness of clinical tests.

of the remaining 2,638 (many of which were no longer in business) was discontinued.

The quality and completeness of the survey and inventory were validated by a search of scientific literature published by U.S. laboratories during 1993–2003 that referred to 1) polioviruses of any origin; 2) enteric diseases in countries where polio is endemic; or 3) viruses that share common enteric origins, replicate on poliovirus-permissive systems, or both (e.g., picornaviruses, rhinoviruses, and rotaviruses). The search identified six institutions and laboratories not included in the 2002 survey database; none stored WPV-containing materials.

A report on the national inventory was endorsed and accepted by the National Vaccine Advisory Committee Workgroup on Poliovirus Laboratory Containment. As of November 2003, the national inventory consisted of 122 institutions and 180 laboratories retaining WPV-containing materials. Of the 180 laboratories, 87 are listed as storing infectious materials[†]; 56, potentially infectious materials[§]; and 37, both types of materials (Table 2).

Reported by: Task Force for Child Survival and Development, Decatur, Georgia. National Vaccine Program Office, U.S. Dept of Health and Human Svcs. Office of the Director, National Center for Infectious Diseases; Global Immunization Div, National Immunization Program, CDC.

Editorial Note: The goal of the Global Polio Eradication Initiative is to interrupt transmission of WPV in all countries by the end of 2005. In 2003, six countries remained endemic for polio, the lowest number ever. The Global Commission for the Certification of the Eradication of Poliomyelitis will declare the world free of WPV transmission when all regions of the World Health Organization (WHO) have documented the absence of WPV transmission for a period of ≥3 years and when all WPV-containing materials in laboratories are contained adequately (4).

Completion of the national inventory of institutions and laboratories retaining WPV-containing materials is phase I of the containment program (3). The United States joins 81 other countries in the polio-free WHO Western Pacific, European, and Americas Regions with completed inventories. The remaining countries of these regions and many polio-free countries in regions where polio is endemic are expected to complete inventories during 2004.

Phase II of containment will begin after 1 year has elapsed without isolation of WPV worldwide (3). At that time, the U.S. Department of Health and Human Services (DHHS) will notify laboratories that poliovirus transmission has been interrupted and instruct institutions and laboratories listed on the national inventory to destroy WPV infectious and potentially infectious materials or implement biosafety measures appropriate for laboratory procedures being performed (biosafety level [BSL]-2/polio or BSL-3/polio [3]). DHHS will submit documentation of laboratory containment to the American Regional Commission for Certification of Poliovirus Laboratory Containment and Verification of Polio-Free Status.

TABLE 2. Number of institutions* and laboratories retaining wild poliovirus (WPV)-containing materials, by category — United **States**, 2003

		No. laboratori						
Category	No. institutions	Infectious [†]	Potentially infectious§	Both	Total			
Most likely to possess								
Academic institutions	63	49	29	16	94			
Federal government agencies	10	9	17	3	29			
Industrial facilities	24	22	6	2	30			
State and local health departments	17	4	4	10	18			
Total	114	84	56	31	171			
May possess CLIA¶ certified to perform complex tests in microbiology	8	3	0	6	9			
Least likely to possess CLIA certified to perform noncomplex tests in microbiology	0	0	0	0	0			
Total	122	87	56	37	180			

[†] Clinical materials from confirmed WPV and vaccine-derived poliovirus (VDPV) infections, environmental sewage, or water samples in which such viruses or replication products of such viruses are present (3).

[§] Feces, respiratory secretions, environmental sewage, and untreated water samples of unknown origin or collected for any purpose at a time and in a geographic area where it was suspected that WPVs or VDVPs were present, and products of such materials in poliovirus-permissive cells or animals (3).

^{*} Examples are universities.

† Clinical materials from confirmed WPV and vaccine-derived poliovirus (VDPV) infections, environmental sewage, or water samples in which such viruses or replication products of such viruses are present (3).

Feces, respiratory secretions, environmental sewage, and untreated water samples of unknown origin or collected for any purpose at a time and in a geographic area where it was suspected that WPVs or VDVPs were present, and products of such materials in poliovirus-permissive cells or animals (3). Clinical Laboratory Improvement Act of 1988; established quality standards for all laboratories to ensure accuracy, reliability, and timeliness of clinical tests.

Successful completion of the national inventory was possible through support of the biosafety community, professional organizations, departments of the federal Executive Branch, and the nation's biomedical institutions and laboratories. Continued support and cooperation will ensure the inventory remains current. Institutions and laboratories with any change in storage status of WPV-containing materials should notify CDC's Poliovirus Laboratory Containment Program, e-mail plcp@cdc.gov.

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Update: Measles Among Children Adopted from China

As of May 24, 2004, investigators have identified 10 confirmed measles cases associated with adoptees who traveled to the United States from China during March 2004 (1,2). No cases have been reported since April 18, and all the ill persons have recovered without complications. CDC is now recommending that the temporary suspension of adoptions from the affected orphanage in China be ended and standard adoption procedures be resumed.

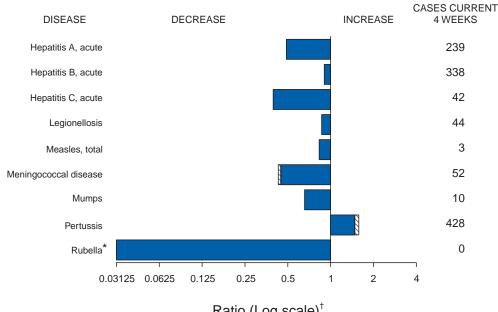
The 10 cases included nine imported cases among adopted children aged 12–18 months who acquired their infections while still in China and then traveled to three states (Maryland, New York, and Washington) during March 26–27, and one importation-linked case in a female student aged 19 years from California. The student had close contact with an adoptee aged 18 months during a visit to Washington when the child was infectious with measles. The student had a nonmedical exemption and had not received measles-containing vaccine; upon her return to California, she was quarantined in her off-campus home. She had onset of rash 14–16 days after contact with the adopted child, and measles was diagnosed. No other cases linked to this outbreak have been identified.

The cases in adoptees were associated with the Zhuzhou Child Welfare Institute in Hunan Province. On May 24, Chinese authorities reported that the last patient with measles at the orphanage had rash onset on April 23, and that the recommended vaccination campaign for all eligible children at the orphanage had been completed. Because no cases of measles were reported from the orphanage during the next 21 days (i.e., one incubation period), the outbreak appears to have been controlled. As a result, CDC is recommending that standard adoption procedures for children from the orphanage be resumed.

Reported by: Div of Global Migration and Quarantine, National Center for Infectious Diseases; Epidemiology and Surveillance Div, National Immunization Program, CDC.

- CDC. Multistate investigation of measles among adoptees from China— April 9, 2004. MMWR 2004;53:309–10.
- CDC. Multistate investigation of measles among adoptees from China— April 16, 2004. MMWR 2004;53:323–4.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals May 29, 2004, with historical data



Ratio (Log scale)

Beyond historical limits

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending May 29, 2004 (21st Week)*

	Cum. 2004	Cum. 2003		Cum. 2004	Cum. 2003
Anthrax	-	-	Hemolytic uremic syndrome, postdiarrheal†	26	44
Botulism:	-	-	HIV infection, pediatric ^{†§}	72	93
foodborne	6	6	Measles, total	12¶	23**
infant	23	29	Mumps	67	88
other (wound & unspecified	3	7	Plague	-	-
Brucellosis†	32	36	Poliomyelitis, paralytic	-	-
Chancroid	14	25	Psittacosis†	2	5
Cholera	2	1	Q fever [†]	15	28
Cyclosporiasis†	48	16	Rabies, human	-	-
Diphtheria	-	-	Rubella	10	4
Ehrlichiosis:	-	-	Rubella, congenital syndrome	-	1
human granulocytic (HGE)†	27	30	SARS-associated coronavirus disease†††	-	5
human monocytic (HME)†	19	24	Smallpox ^{† §§}	-	NA
human, other and unspecified	-	5	Staphylococcus aureus:	-	-
Encephalitis/Meningitis:	-	-	Vancomycin-intermediate (VISA)† §§	4	NA
California serogroup viral†	1	-	Vancomycin-resistant (VRSA)† §§	1	1
eastern equine [†]	-	-	Streptococcal toxic-shock syndrome [†]	42	91
Powassan [†]	-	-	Tetanus	4	3
St. Louis [†]	-	1	Toxic-shock syndrome	45	58
western equine [†]	-	-	Trichinosis	3	-
Hansen disease (leprosy)†	28	32	Tularemia [†]	14	8
Hantavirus pulmonary syndrome†	4	7	Yellow fever		-

^{-:} No reported cases.

^{*} No rubella cases were reported for the current 4-week period yielding a ratio for week 21 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.

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

Not notifiable in all states.

Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update May 2, 2004.

Of 12 cases reported, seven were indigenous, and five were imported from another country.

^{**} Of 23 cases reported, 16 were indigenous, and seven were imported from another country.

Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (notifiable as of July 2003).

Not previously notifiable.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending May 29, 2004, and May 24, 2003

(21st Week)*

	AID	os —	Chla	mydia [†]	Coccidio	domycosis	Cryptosp	oridiosis		s/Meningitis t Nile
Reporting area	Cum. 2004§	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	12,299	16,844	325,557	347,904	1,812	1,347	861	760	3	-
NEW ENGLAND	370	566	10,890	11,132	-	-	54	51	-	-
∕laine I.H.	5 20	27 15	719 642	760 633	N	N	10 14	4 7	-	-
ı.⊓. ′t.	10	6	401	410	-	-	6	8	-	-
lass.	117	277	5,513	4,230	-	-	16	23	-	-
l.l. Conn.	44 174	47 194	1,357 2,258	1,297 3,802	N	N	1 7	7 2	-	-
IID. ATLANTIC	2,398	3,661	44,116	41,784	-	-	142	117	_	_
pstate N.Y.	185	184	8,945	7,602	N	N	32	28	-	-
Y. City	1,134	1,844	12,403	13,943	-	-	32	43	-	-
l.J. a.	521 558	698 935	5,316 17,452	6,079 14,160	N	N	9 69	5 41	-	-
.N. CENTRAL	1,279	1,424	53,987	64,451	5	3	194	185	_	_
hio	235	229	12,082	17,566	-	-	53	24	-	-
nd.	166	226	6,929	6,928	N	N	30	17	-	-
l. lich.	602 208	598 278	14,127 15,642	19,875 13,147	- 5	3	13 48	32 34	-	-
/is.	68	93	5,207	6,935	-	-	50	78	-	-
/.N. CENTRAL	309	333	19,232	20,020	4	2	98	68	1	-
linn.	68	56	3,409	4,398	N	N	40	34	-	-
owa 1o.	19 134	34 179	1,087 8,074	2,050 7,338	N 3	N 1	14 17	10 6	1	-
l. Dak.	11	173	555	561	Ň	Ń	-	2	-	-
. Dak.	5	6	1,043	984	-	-	11	12	-	-
ebr.¶ ans.	17 55	22 35	2,082 2,982	1,828 2,861	1 N	1 N	5 11	3 1	-	-
. ATLANTIC	4,239	4,930	61,109	64,839		1	176	102	2	_
el.	55	80	1,198	2,510	N	Ń	-	1	-	-
ld.	478	547	7,350	6,574	-	1	9	8	-	-
.C. a.	150 213	478 452	1,389 8,970	1,362 7,346	-	-	2 23	11	-	-
/. Va.	30	32	1,132	1,021	N	N	2	1	-	-
l.C. .C. [¶]	246 267	504	11,166	10,198	N -	N	34 7	14 2	-	-
ia.	688	325 610	6,579 6,903	5,363 13,602	-	_	7 51	36	2	-
la.	2,112	1,902	16,422	16,863	N	N	48	29	-	-
.S. CENTRAL	566	735	21,257	22,389	-	-	38	49	-	-
y.	71	69	2,235	3,344	N	N	10	9	-	-
enn.¶ .la.	210 173	340 185	9,046 4,327	7,765 6,061	N -	N -	12 10	16 21	-	-
liss.	112	141	5,649	5,219	N	N	6	3	-	-
/.S. CENTRAL	1,723	2,081	42,802	43,313	2	-	23	17	-	-
rk.	87 342	63	3,140	2,946	1 1	-	8	2 1	-	-
a. Okla.	68	365 89	10,660 4,331	7,992 4,419	N	N	8	4	-	-
ex.	1,226	1,564	24,671	27,956	-	-	7	10	-	-
IOUNTAIN	495	624	16,683	20,776	1,163	932	43	34	-	-
lont.	3	8 10	781 1 101	934	N N	N N	8 4	7 6	-	-
daho /yo.	4	4	1,191 455	1,035 408	-	-	2	1	-	-
olo.	98	157	3,042	5,284	N	N	20	6	-	-
I. Mex. Ariz.	52 207	51 273	2,298 5,794	3,006 6,193	9 1,118	2 912	1 6	1 2	-	-
ltah	29	29	1.317	1,479	12	3	1	8	-	-
lev.	102	92	1,805	2,437	24	15	1	3	-	-
ACIFIC	920	2,490	55,481	59,200	638	409	93	137	-	-
Vash. Oreg.	166 92	179 108	6,982 2,069	6,362 3,106	N -	N -	9 11	12 15	-	-
Calif.	610	2,148	44,174	46,022	638	409	72	110	-	-
laska	11	9	1,505	1,537	-	-	-	-	-	-
awaii	41	46	751	2,173	-	-	1	-	-	-
uam R.	1 209	1 437	1,002	311 824	N	N	- N	N	-	-
J.	4	13	20	132	-	-	-	-	-	-
mer. Samoa	U	U U	U 32	U U	U	U U	U	U U	U	U U

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

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

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

§ Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update March 26, 2004.

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending May 29, 2004, and May 24, 2003 (21st Week)*

(21st Week)*		Escher	ichia coli, Ente	rohemorrhagio	(EHEC)					
			Shiga toxi	n positive,	Shiga toxi	n positive,				
	015			non-O157	not sero	<u> </u>		diasis		orrhea
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	398	441	59	79	51	33	5,536	6,105	112,282	129,619
NEW ENGLAND	30	25	17	13	8	2	499	448	2,533	2,789
Maine N.H.	4	3 6	3	- 1	-	-	54 14	47 19	106 51	88 49
Vt.	-	7	-	-	-	-	42	35	32	33
Mass. R.I.	12 3	1	2	5 -	8 -	2	261 47	219 44	1,286 365	1,044 389
Conn.	11	8	12	7	-	-	81	84	693	1,186
MID. ATLANTIC Upstate N.Y.	36 14	52 17	2 1	6 3	12 4	11 5	1,280 407	1,272 309	13,972 2,964	16,328 2,866
N.Y. City	4	3	-	-	-	-	398	471	3,938	5,327
N.J. Pa.	6 12	5 27	1 -	3	4 4	6	123 352	179 313	2,105 4,965	3,647 4,488
E.N. CENTRAL	73	118	12	16	7	6	676	1,105	21,485	27,862
Ohio Ind.	19 8	26 14	1 -	9	7	6	285	317	5,762 2,385	9,024 2,594
III. Mich.	15 14	21 21	2	1	-	-	84 207	329 262	5,882 6,037	8,511 5,374
Wis.	17	36	9	6	-	-	100	197	1,419	2,359
W.N. CENTRAL	72	57	9	7	9	6	644	606	6,222	6,667
Minn. Iowa	26 12	21 7	3 -	6	2	-	205 96	211 80	1,218 160	1,072 488
Mo. N. Dak.	11 2	18 1	6	1	2 3	- 1	182 11	183 16	3,258 50	3,394 25
S. Dak.	3	2	-	-	-	-	22	17	108	73
Nebr. Kans.	9 9	4 4	-	-	2	5	55 73	50 49	412 1,016	598 1,017
S. ATLANTIC	38	31	13	25	8	1	859	907	26,859	31,755
Del. Md.	4	- 1	N -	N	N 1	N 1	20 34	15 46	388 3,111	976 3,064
D.C.	1	1	-	-	-	-	26	14	950	985
Va. W. Va.	1 1	10 1	6	1 -	-	-	144 12	110 10	3,597 340	3,430 333
N.C. S.C.	3	-	4	11	-	-	N 24	N 49	5,648 3,003	5,874 3,092
Ga.	12	6	1	2	2	-	192	291	3,078	6,576
Fla. E.S. CENTRAL	16	12	2 1	11	7	-	407	372	6,744	7,425
Ky.	19 9	22 8	1	-	6 4	4 4	122 N	120 N	9,113 946	10,870 1,404
Tenn. Ala.	3 3	10 3	-	-	2	-	55 67	52 68	3,199 2,522	3,173 3,635
Miss.	4	1	-	-	-	-	-	-	2,446	2,658
W.S. CENTRAL Ark.	18 7	19 2	1	2	1	-	103 46	96 53	15,961 1,493	17,214 1,532
La.	1	1	-	-	-	-	14	6	4,771	4,513
Okla. Tex.	4 6	3 13	- 1	2	1	-	43	37	1,848 7,849	1,658 9,511
MOUNTAIN	46	48	3	8	-	3	459	487	3,943	4,343
Mont. Idaho	2 12	1 13	- 1	4	-	-	15 64	24 59	32 34	55 32
Wyo.	-	1	-	-	-	-	6	6	23	19
Colo. N. Mex.	8 4	15 1	1 -	1 3	-	3	148 21	144 20	998 267	1,184 500
Ariz. Utah	7 8	10 4	N	N	N	N	72 97	83 103	1,636 183	1,632 142
Nev.	5	3	1	-	-	-	36	48	770	779
PACIFIC	66	69	1	2	-	-	894	1,064	12,194	11,791
Wash. Oreg.	19 11	21 8	1	1 1	-	-	102 155	94 132	1,058 265	1,180 388
Calif. Alaska	29 1	39 1	-	-	-	-	580 25	765 34	10,454 247	9,586 215
Hawaii	6	-	-	-	-	-	32	39	170	422
Guam	N	N	-	-	-	-	-	- 51	- 01	-
P.R. V.I.	-	1 -	-	-	-	-	9	51 -	91 4	92 37
Amer. Samoa C.N.M.I.	U	U U	U	U U	U	U U	U	U U	U 3	U U
U.1 4.1VI.1.	-			<u> </u>	-		-	- 0	<u> </u>	

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

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending May 29, 2004, and May 24, 2003 (21st Week)*

(21st Week)*				Haemophilus	influenzae, inv	vasive			Hepatitis		
	All a	ages		, , , , , , , , , , , , , , , , , , ,	Age <5				→ ·	te), by type	
		otypes	Serot			otype b	Unknown			Ą	
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	
UNITED STATES	816	782	7	11	43	57	90	99	2,140	2,520	
NEW ENGLAND	78	56	1	1	4	5	3	3	371	106	
Maine N.H.	7 12	2 5	-	-	2	-	-	1	8 7	1 6	
Vt.	5	6	-	-	-	-	1	-	5	4	
Mass. R.I.	30 2	29 3	1	1	-	5	2	1 1	315 7	56 10	
Conn.	22	11	-	-	2	-	-	-	29	29	
MID. ATLANTIC	167	136	-	-	3	1	24	21	250	532	
Upstate N.Y. N.Y. City	60 33	44 23	-	-	3	1	3 7	6 5	34 83	41 195	
N.J.	25	31	-	-	-	-	2	4	52	86	
Pa.	49	38	-	-	-	-	12	6	81	210	
E.N. CENTRAL Ohio	119 59	131 34	-	1	10 2	4	17 10	26 7	196 23	243 40	
Ind.	20	21	-	-	4	2	1	-	15	20	
III. Mich.	19 9	56 8	-	- 1	4	2	5	16	72 68	77 78	
Wis.	12	12	-	-	-	-	1	3	18	28	
W.N. CENTRAL	43	53	1	-	2	6	3	6	67	72	
Minn. Iowa	14 1	21	- 1	-	2	6	-	1	10 20	20 13	
Mo.	15	21	-	-	-	-	2	5	21	21	
N. Dak. S. Dak.	3	1 1	-	-	-	-	-	-	1 2	-	
Nebr.	5	-	-	-	-	-	-	-	7	5	
Kans.	5	9	-	-	-	-	1	-	6	13	
S. ATLANTIC Del.	200 7	151 -	-	-	10	6	16 2	9 -	415 4	575 4	
Md.	35	37	-	-	2	4	-	-	59	55	
D.C. Va.	- 18	- 15	-	-	-	-	- 1	3	4 39	17 36	
W. Va.	10	5	-	-	-	-	3	-	2	8	
N.C. S.C.	25 2	10 2	-	-	3	-	-	-	30 17	26 23	
Ga.	50	31	-	-	-	-	10	4	153	233	
Fla.	53	51	-	-	5	2	-	2	107	173	
E.S. CENTRAL Ky.	31	42 3	-	1	-	2 1	7	4	69 9	69 11	
Tenn.	21	23	-	-	-	i	5	3	42	37	
Ala. Miss.	10	16	-	1	-	-	2	1 -	6 12	10 11	
W.S. CENTRAL	34	42	1	1	3	6	1	3	152	250	
Ark.	1	4	-	-	-	1	-	-	32	12	
La. Okla.	7 25	15 22	-	-	3	2	1	3	11 16	21 5	
Tex.	1	1	1	1	-	-	-	-	93	212	
MOUNTAIN	109	90	2	5	11	13	14	12	206	167	
Mont. Idaho	4	2	-	-	-	-	2	- 1	3 10	2 7	
Wyo.	-	-	-	-	-	-	-	-	1	1	
Colo. N. Mex.	24 20	16 12	-	-	3	3	3	4 1	20 5	23 8	
Ariz.	45	49	-	5	7	6	1	4	135	94	
Utah Nev.	9 7	7 4	2	-	1	2 2	3 2	2	27 5	12 20	
PACIFIC	35	81	2	2	-	14	5	15	414	506	
Wash.	3	3	2	-	-	2	1	1	26	28	
Oreg. Calif.	22 3	20 34	-	2	-	12	1 2	2 7	30 347	30 439	
Alaska	2 5	18	-	-	-	-	1	5	4	5	
Hawaii	5	6	-	-	-	-	-	-	7	4	
Guam P.R.	-	-	-	-	-	-	-	-	7	35	
V.I.	-	-	-	-	-	-	-	-	-	-	
Amer. Samoa C.N.M.I.	U -	U U	U -	U U	U -	U U	U -	U U	U -	U U	
N: Not notifiable	U: Unavailable		orted cases								

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 29, 2004, and May 24, 2003 (21st Week)*

(21st Week)*	Н	lepatitis (viral	, acute), by ty	ре			Т			
	Cum.	B Cum.	Cum.	Cum.	Legior Cum.	nellosis Cum.	Liste Cum.	riosis Cum.	Lyme Cum.	disease Cum.
Reporting area	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003
UNITED STATES	2,417	2,597	480	439	368	415	163	194	2,964	3,275
NEW ENGLAND Maine	91 1	128	3	1 -	8	16 -	10 2	7	280 45	386
N.H.	20	5	-	-	-	2	1	2	17	5
√t. Mass.	1 65	1 94	1 2	1 -	3	1 6	2	3	10 100	4 203
₹.I.	2	3	-		1	1	1	-	28	84
Conn.	2	25	U	U	4	6	4	2	80	90
MID. ATLANTIC Jpstate N.Y.	380 41	349 29	48 4	48 7	88 19	88 27	36 12	38 8	2,297 812	2,397 775
N.Y. City N.J.	39 179	119 94	-	-	4 23	10 5	3 9	10 7	- 535	3 594
Pa.	121	107	44	41	42	46	12	13	950	1,025
E.N. CENTRAL	196	201	28	66	84	92	21	23	37	110
Ohio nd.	61 8	60 10	2 2	4 1	42 7	37 5	9 4	3 1	31 -	12 6
III.	21	11	2	11	2	14	-	7	-	2
Mich. Wis.	106	98 22	22	47 3	31 2	27 9	7 1	8 4	6	90
W.N. CENTRAL	159	116	181	95	8	18	4	5	44	35
Minn. lowa	12 6	14 4	1 -	2	2	2 5	2 1	2	12 6	19 4
Mo.	124	77	180	92	4	6	1	1	20	9
N. Dak. S. Dak.	1	- 1	-	-	1 1	1	-	-	-	-
Nebr.	9	12	-	1	-	2	-	2	3	1
Kans.	7	8	-	-	-	2	-	-	3	2
S. ATLANTIC Del.	745 14	676 4	78 -	72 -	91 3	116	25 N	44 N	251 28	252 48
Md. D.C.	59 12	45 1	6	5	13 1	20 1	4	4	144 2	156
Va.	83	45	1 10	1	8	8	3	5	12	3 11
W. Va. N.C.	2 74	7 53	10 6	1 3	2 9	9	1 5	2 9	2 37	1 17
S.C.	47	70	7	17	1	4	-	2	1	1
Ga. Fla.	233 221	215 236	6 32	6 39	6 48	14 60	4 8	11 11	2 23	7 8
E.S. CENTRAL	296	165	43	38	15	18	9	6	16	18
Ky. Tenn.	21 78	35 57	12 17	7 8	4 9	3 8	3 5	- 1	5 9	3 6
Ala.	25	32	-	4	2	5	1	3	-	-
Miss.	172	41	14	19	-	2	-	2	2	9
W.S. CENTRAL Ark.	68 22	435 40	55 -	81 3	20	22	14 -	23	1 -	41 -
La.	25	62	33	47	1	1	1	1	-	4
Okla. Tex.	16 5	19 314	2 20	31	2 17	2 19	13	1 21	1	37
MOUNTAIN	192	242	20	13	27	23	7	12	8	3
Mont. Idaho	1 6	8 2	2	1 1	1	1 2	- 1	1	2	- 1
Nyo.	3	13	-	-	4	1	-	-	1	-
Colo. N. Mex.	20 5	38 17	4 3	4	4 -	3 2	1 -	4 2	-	-
Ariz.	105	122	2	4	5	6	-	4	1	-
Jtah Nev.	20 32	15 27	1 8	3	10 2	5 3	5	1 -	4 -	1 1
PACIFIC	290	285	24	25	27	22	37	36	30	33
Wash. Oreg.	23 41	29	7 5	10 5	5 N	2 N	6 4	3 1	3 11	- 8
Calif.	212	247	9	9	22	20	27	32	16	24
Alaska Hawaii	12 2	3 6	3	1	-	-	-	-	N	1 N
Guam	-	-	-	-	-	-	-	-	-	-
P.R.	11	60	-	-	1	-	-	-	N	N
V.I. Amer. Samoa	U	U	U	U	Ū	U	Ū	Ū	Ū	U
C.N.M.I.	-	U	-	U	-	U	-	U	-	U

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

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending May 29, 2004, and May 24, 2003 (21st Week)*

(21st Week)*	Mal	aria		ococcal ease	Pert	ussis	Rabies	s, animal		lountain d fever
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	383	382	649	830	3,276	2,615	1,476	2,792	212	130
NEW ENGLAND	37	9	32	40	706	258	193	180	10	-
Maine N.H.	3	1 2	8 3	5 3	2 20	2 14	22 6	15 9	-	-
Vt.	1	-	1	-	30	28	6	11	-	-
Mass. R.I.	22 2	6	19	24 2	636 9	195 4	85 11	69 24	10	-
Conn.	9	-	1	6	9	15	63	52	-	-
MID. ATLANTIC	82	91	81	95	854	246	162	332	17	11
Upstate N.Y. N.Y. City	14 32	18 47	19 14	16 24	639	95 32	129 4	122 4	1 2	4
N.J.	18	12	18	12	81	40	-	62	5	4
Pa.	18	14	30	43	134	79	29	144	9	3
E.N. CENTRAL Ohio	25 9	42 6	94 40	132 34	391 166	197 90	14 7	19 6	10 6	6 2
Ind.	-	-	10	21	23	24	2	2	1	1
III. Mich.	2 9	21 12	9 29	37 22	40	14 18	4 1	2 9	3	2 1
Wis.	5	3	6	18	162	51	-	-	-	-
W.N. CENTRAL	22	15	37	64	191	116	178	269	11	5
Minn. Iowa	9 1	9 2	9 9	15 10	40 30	33 33	19 23	11 28	-	- 1
Mo.	3	1	9	27	98	26	7	2	10	4
N. Dak. S. Dak.	2 1	-	1 1	- 1	6 7	2 2	23 10	25 58	-	-
Nebr.	1	-	1	5	-	1	53	55	1	-
Kans.	5	3	7	6	10	19	43	90	-	-
S. ATLANTIC Del.	115 3	95	121 1	148 8	197 5	176 1	701 9	1,134 19	104	90
Md.	26	25	6	13	36	25	50	156	7	16
D.C. Va.	6 10	5 7	4 8	1 9	2 57	33	- 187	- 216	- 1	- 1
W. Va.	-	3	4	1	3	4	29	28	-	-
N.C. S.C.	8 7	6 1	18 12	16 12	33 25	62 9	267 58	299 75	87 5	47 8
Ga.	13	19	7	19	8	17	99	153	1	14
Fla.	42	29	61	69	28	25	2	188	3	4
E.S. CENTRAL Ky.	13 1	9 1	26 3	35 3	45 7	49 11	53 11	84 11	34	16
Tenn.	3	4	9	8	26	23	17	63	21	8
Ala. Miss.	7 2	2 2	6 8	12 12	6 6	10 5	22 3	9 1	5 8	3 5
W.S. CENTRAL	31	44	59	105	130	147	75	657	20	1
Ark.	3	3	12	9	7	8	24	25	4	-
La. Okla.	2 1	2 2	16 3	30 8	2 13	4 14	- 51	106	3 13	-
Tex.	25	37	28	58	108	121	-	526	-	1
MOUNTAIN	13	11	28	39	406	443	40	39	2	1
Mont. Idaho	- 1	- 1	1 4	2 3	12 17	9	5	6 1	- 1	-
Wyo.	-	-	2	2	3	119	-	-	-	1
Colo. N. Mex.	5 1	8	9 4	8 4	222 46	166 21	4	2 2	-	-
Ariz.	1	1	5	16	68	78	31	27	1	-
Utah Nev.	3 2	1	3	- 4	28 10	37 13	-	1	-	-
PACIFIC	45	66	- 171	172	356	983	60	78	4	-
Wash.	2	10	18	15	172	169	-	-	-	-
Oreg. Calif.	8 34	5 49	36 112	29 119	136 35	146 665	- 52	1 72	2 2	-
Alaska	-	-	1	2	8	-	8	5	-	-
Hawaii	1	2	4	7	5	3	-	-	-	-
Guam P.R.	-	-	2	- 5	- 1	- 1	18	- 25	- N	- N
V.I.	-	-	-	-	-	-	-	-	-	-
Amer. Samoa C.N.M.I.	U	U U	U	U U	U	U U	U	U U	U	U
	LI: Unavailable		-	U	-	U		U	-	U

N: Not notifiable. U: Unavailable. - : No reported cases.
* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 29, 2004, and May 24, 2003 (21st Week)*

							Stre	ptococcus pne	<i>umoniae</i> , inv	asive
	Salmo	nellosis	Shige	llosis	Streptococo invasive,		Drug re		Age <5 years	
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	9,780	10,893	3,777	8,422	2,130	3,047	1,142	1,172	239	266
NEW ENGLAND	490	539	88	110	101	291	13	51	4	1
Maine N.H.	30 31	34 35	1 4	4 3	3 11	17 15	1	-	N	N
Vt.	18	16	2	4	5	14	6	5	1	1
Mass. R.I.	262 39	316 25	56 4	72 3	66 16	132 5	N 6	N -	N 3	N
Conn.	110	113	21	24	-	108	-	46	Ü	Ū
MID. ATLANTIC	1,308	1,403	456	790	357	525	83	71	51	47
Upstate N.Y. N.Y. City	330 353	279 411	212 127	124 154	123 48	193 77	38 U	33 U	37 U	34 U
N.J.	210	227	68	158	66	107	N	N	N	N
Pa.	415	486	49	354	120	148	45	38	14	13
E.N. CENTRAL Ohio	1,328 369	1,537 432	276 71	715 106	383 135	769 171	253 192	247 165	77 51	95 53
Ind.	132	165	47	48	44	64	61	82	16	13
III. Mich.	321 264	499 230	87 35	400 104	35 154	210 224	N	N	- N	N
Wis.	242	211	36	57	15	100	N	N	10	29
W.N. CENTRAL	706	604	142	270	162	185	114	95	22	23
Minn. Iowa	178 140	160 115	19 29	36 20	73 N	87 N	N	N	18 N	20 N
Mo.	201	159	54	116	40	40	6	6	4	1
N. Dak. S. Dak.	13 25	14 27	1 6	3 8	6 8	8 14	2	3	-	2
Nebr.	49	56	7	58	8	19	-	-	N	N
Kans.	100	73	26	29	27	17	106	86	N	N
S. ATLANTIC Del.	2,179 15	2,510 32	1,106 3	2,616 127	446 2	472 5	537 3	566 1	7 N	5 N
Md.	189	252	42	217	95	135	-	4	-	-
D.C. Va.	14 258	12 255	20 36	24 121	4 38	4 47	3 N	- N	3 N	N
W. Va.	46	25	-	-	13	22	63	35	4	5
N.C. S.C.	279 128	375 136	133 183	273 148	65 35	36 21	N 50	N 87	U N	U N
Ga.	309	365	223	569	91	100	117	141	N	N
Fla.	941	1,058	466	1,137	103	102	301	298	N	N
E.S. CENTRAL Ky.	547 105	657 110	220 31	408 46	113 36	98 24	63 17	76 6	- N	N
Tenn.	156	216	88	139	77	74	46	70	N	N
Ala. Miss.	169 117	180 151	78 23	142 81	-	-	-	-	N -	N
W.S. CENTRAL	807	1,151	745	2,271	108	146	30	48	50	63
Ark.	121	130	20	27	6	3	5	17	7	4
La. Okla.	129 101	194 86	92 196	194 289	1 31	1 42	25 N	31 N	8 24	14 26
Tex.	456	741	437	1,761	70	100	N	N	11	19
MOUNTAIN	775	730	267	353	265	273	15	16	28	32
Mont. Idaho	51 56	37 71	3 5	2 8	4	1 11	N	N	N	N
Wyo.	20	40	1	1	5	1	4	2	-	-
Colo. N. Mex.	175 68	193 61	50 38	56 71	72 42	78 68	- 5	13	26	30
Ariz.	255	205	134	179	118	95	N	N	N	N
Utah Nev.	81 69	67 56	16 20	19 17	23 1	18 1	4 2	1	2	2
PACIFIC	1,640	1,762	477	889	195	288	34	2	_	_
Wash.	140	191	33	78	24	26	-	-	N	N
Oreg. Calif.	133 1,217	161 1,302	24 402	35 761	N 134	N 217	N N	N N	N N	N N
Alaska	32	36	3	4	-	-	-	-	Ň	N
Hawaii	118	72	15	11	37	45	34	2	-	-
Guam P.R.	50	253	- 1	4	N	N	N	- N	N	N
V.I.	- U	- U	U	U U	U	U	U	U	U	U
Amer. Samoa		- 11		- 11						

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

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending May 29, 2004, and May 24, 2003 (21st Week)*

(21st Week)*		Syph	ilis						Varicella	
		secondary	Cong		†	culosis	 	d fever	(Chicke	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	2,733	2,848	100	189	3,129	4,762	86	120	7,559	8,096
NEW ENGLAND Maine	63	84 4	1 -	-	103	145 10	9	10	374 44	1,757 532
N.H.	2	12	-	-	6	6	-	-	-	-
Vt. Mass.	44	54	-	-	- 77	3 64	9	- 5	330	383 85
R.I. Conn.	9 8	6 8	- 1	-	10 10	19 43	-	2 3	-	3 754
MID. ATLANTIC	408	319	19	32	733	812	20	21	29	9
Upstate N.Y. N.Y. City	39 201	13 173	1 6	3 19	86 370	89 434	2 5	3 11	-	-
N.J.	71	69	12	10	153	148	9	6	-	-
Pa.	97	64	-	-	124	141	4	1	29	9
E.N. CENTRAL Ohio	298 94	391 86	30 1	36 2	419 71	429 73	4 1	15 -	3,247 906	3,092 792
Ind.	21	18	7	7	56	49	-	4	-	-
III. Mich.	90 83	155 122	1 21	11 16	196 72	200 86	2	5 6	2,229	1,829
Wis.	10	10		-	24	21	1	-	112	471
W.N. CENTRAL	56	80	-	3	146	179	2	2	112	23
Minn. Iowa	7 2	23 6	-	-	62 13	65 11	1 -	1 1	- N	N
Mo. N. Dak.	30	28	-	3	37 3	54	1	-	2 67	23
S. Dak.	-	-	-	-	4	9	-	-	43	-
Nebr. Kans.	4 13	3 20	-	-	6 21	8 32	-	-	-	-
S. ATLANTIC	732	744	11	39	651	893	17	26	1,217	1,146
Del. Md.	3 136	8 109	2	6	- 81	82	2	7	4	9
D.C.	30	18	-	-	-	-	-	-	17	7
Va. W. Va.	32 2	35 1	1 -	1 -	79 10	84 8	3	11	317 667	290 720
N.C. S.C.	61 44	67 48	1	9 4	82 72	95 53	2	4	212	- 120
Ga.	120	184	-	8	11	203	8	2	-	-
Fla.	304	274	7	11	316	368	2	2	-	-
E.S. CENTRAL Ky.	148 23	138 21	4	7 1	184 29	267 45	4 2	2	2	-
Tenn.	56	57	1	1	48	83	2	1	-	-
Ala. Miss.	56 13	49 11	2 1	4 1	74 33	101 38	-	1 -	2	-
W.S. CENTRAL	441	333	18	28	185	749	3	5	1,172	1,804
Ark.	16	19	-	1	55	42	-	-	-	-
La. Okla.	91 12	41 19	2	-	- 55	54	-	-	34	8 -
Tex.	322	254	16	27	75	653	3	5	1,138	1,796
MOUNTAIN Mont.	142	124	14	18	140	143	4	4	1,406	265
Idaho	10	4	-	-	-	1	-	-	-	-
Wyo. Colo.	1 8	18	-	3	1 36	2 37	1	3	18 1,076	22
N. Mex.	25	25	1	4	-	22	-	-	29	-
Ariz. Utah	89 2	70 2	13 -	11 -	85 18	61 11	1	1 -	283	243
Nev.	7	5	-	-	-	9	1	-	-	-
PACIFIC Wash.	445 34	635 31	3	26	568 80	1,145 96	23 1	35 2	-	-
Oreg.	9	16	-	-	28	36	1	1	-	-
Calif. Alaska	400	582	3	26	406 9	948 26	15	32	-	-
Hawaii	2	6	-	-	45	39	6	-	-	-
Guam P.R.	- 54	- 79	2	- 8	- 14	- 33	-	-	- 122	- 249
V.I.	-	1	-	-	-	-	-	-	-	-
Amer. Samoa C.N.M.I.	U 2	U U	U	U U	U 10	U U	U	U U	U	U U

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

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

TABLE III, Deaths in 122 U.S. cities,* week ending May 29, 2004 (21st Week)

Reporting Area Ages Ag	TABLE III. Deaths	in 122 U.S. cities,* week ending May 29, 2004 (21st W							/eek) T	All causes, by age (years)						
Reporting Area Ages 365 45-64 75-4 75-7 75-1 75-1 75-2								D9 I†							Delt	
Boston, Mass.	Reporting Area		≥65	45-64	25-44	1-24	<1		Reporting Area		<u>≥</u> 65	45-64	25-44	1-24	<1	
Bidgeport, Conn. 37									1 -							
Cambridge, Mass. 12																
Fail River, Mass. 22 18 8 3 - 1 - 3 3	0 1 /															
Hartford, Conn. 38					-		-									
Lynn, Mass. 7 7 7	Hartford, Conn.		23	11	4	-	-	6		130	79	38	10			8
New Bedford, Mass. 21 16 5 3 3 Savannah, Ga. 39 18 12 5 1 3 3 3 New Harver, Corn. U U U U U U U U U U U U U U U U U U U	,			3	-	-	-									
New Haven, Conn. U U U U U U U U U U U U U U U U U U				-	-	-	-									
Providence, R.I. 72 53 12 4 - 3 3 3 Tampa, Fila. 180 122 46 9 2 1 11 11 11 12 13 14 - 3 3 3 Tampa, Fila. 180 122 46 9 2 1 11 11 12 13 14 - 3 14 2 15 14 2 15 14 2 15 14 2 15 15 14 15 14 15 15 14 15 15	,				- 11											
Somewhile, Mass. 35	,															
Springfield, Mass. 35					-											
Wordersk, Mass. 54 38 10 3 1 2 5 5 Elementary No. 1 1 2 5 5 Elementary No. 2 1 1 3 5 1 1 2 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1				5	4	2	-	3						U		
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MID.ATLANTIC 945 620 219 61 18 27 59 Chattanooga, Tenn. 79 59 16 4 7 - 11 Albary, N.Y. 36 23 8 3 - 2 1 - 1 Albary, N.Y. 36 23 8 31 - 2 - 1 - 1 Albary, N.Y. 36 23 8 31 - 2 - 1 - 1 Albary, N.Y. 37 10 8 11 11 11 - 2 - 1 - 1 Albary, N.Y. 47 31 12 3 - 1 - 1 Albary, N.Y. 47 31 12 3 - 1 - 1 - 2 - 1 - 1 Albary, N.Y. 47 31 12 21 17 31 21 21 21 21 21 21 21 21 21 21 21 21 21	Worcester, Mass.	54	38	10	3	1	2	5								
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Pittsburgh, Pa.5 13 6 5 2 1 1 2 2 2 5 14 1 5 5 5 5 5 6 14 1 5 5 5 5 5 5 6 1 1 5 5 5 5 5 5 5 5 5												5	3		1	3
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Akron, Ohio					102	37	33	121	1							
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Columbus, Ohio 177 129 38 7 - 3 18 Dayton, Chio 134 95 30 5 1 3 18 Detroit, Mich. 134 95 30 5 1 3 7 Phoenix, Ariz. 112 69 20 13 6 4 2 Pueblo, Colo. 28 24 4											145	52	23	9	3	
Dayton, Ohio																
Detroit, Mich. 153 88 43 155 7 - 7																
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Fort Wayne, Incl. 49 37 7 3 - 2 3 Gary, Incl. d. 12 7 3 1 1 1 PACIFIC 834 584 170 39 23 17 46 Gary, Incl. 154 104 35 9 4 2 5 Indianapolis, Incl. 154 104 35 9 4 2 5 Fresno, Calif. 99 72 16 6 4 1 7 Lansing, Mich. 52 40 10 1 - 1 1 1 Glendale, Calif. U U U U U U U U U U U W W Williams, Ill. 36 26 7 1 1 1 1 3 Glendale, Calif. U U U U U U U U U U U U U U U U U U U																
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Youngstown, Ohio 67 58 7 1 1 - 10 Sacramento, Calif. U					-			3								
W.N. CENTRAL 481 316 108 29 14 13 32 Des Moines, Iowa 60 38 18 3 1 - 5 Duluth, Minn. 35 25 6 1 1 2 2 3 Kansas City, Kans. 12 9 2 1 1 - 2 2 Kansas City, Mo. 115 69 33 6 3 4 7 Lincoln, Nebr. 36 31 2 1 1 1 2 Minneapolis, Minn. 51 30 14 5 1 1 6 Omaha, Nebr. U U U U U U U U U U U U U U U U U U U																
Des Moines, Iowa 60 38 18 3 1 - 5 San Francisco, Calif. U U U U U U U U U U U U U U U U U U U		481	316	108	29	14	13	32								
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Kansas City, Mo. 115 69 33 6 3 4 7						-	-	2						-		
Lincoln, Nebr. 36 31 2 1 1 1 2 Tacoma, Wash. 100 64 26 2 5 2 6 Minneapolis, Minn. 51 30 14 5 1 1 6 Tacoma, Wash. 100 64 26 2 5 2 6 ToTAL 8,517 5,678 1,882 558 219 176 531 St. Louis, Mo. 69 42 14 6 4 2 2 St. Paul, Minn. 56 35 13 6 1 1 2														11		
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U: Unavailable.

U: Unavailable. -:No reported cases.

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

† Pneumonia and influenza.

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

† Total includes unknown ages.

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