

# MMWR™

## MORBIDITY AND MORTALITY WEEKLY REPORT

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### **Monitoring Hospital-Acquired Infections to Promote Patient Safety — United States, 1990–1999**

Hospital-acquired infections are adverse patient events that affect approximately 2 million persons annually (1). National Nosocomial Infections Surveillance (NNIS) is a voluntary, hospital-based reporting system established to monitor hospital-acquired infections and to guide the prevention efforts of infection control practitioners (ICPs). The NNIS approach may be a model for future programs aimed at preventing other adverse patient events (2). This report describes the decrease in infection rates reported in NNIS hospitals during 1990–1999, presents the results of a survey of ICP responsibilities, and discusses the importance of NNIS for monitoring adverse patient events.

NNIS began in 1970 with 62 participating hospitals in 31 states. In 1999, 285 hospitals in 42 states participated in NNIS (1). All NNIS hospitals have  $\geq 100$  beds and tend to be larger than other U.S. hospitals (median size: 360 beds versus 210 beds); however, both NNIS and non-NNIS hospitals have a similar geographic distribution. The purposes of NNIS are to establish national risk-adjusted benchmarks for hospital-acquired infection rates and for device use ratios (3) by using uniform case definitions and data collection methods and computerized data entry and analysis. To promote the use of standardized data collection and analysis methods, ICPs receive 28 hours of training at CDC and are invited to attend a biennial conference.

#### **Trends in Nosocomial Infection Rates**

Patients in intensive care units (ICUs) are at high risk for nosocomial infections. By ICU type, these patients have been monitored using site-specific, risk-adjusted infection rates (4,5). During 1990–1999, risk-adjusted infection rates decreased for all three body sites (i.e., respiratory tract, urinary tract, and bloodstream) monitored in ICUs (Figure 1) (6). Bloodstream infection rates decreased substantially in medical (nonsurgical) ICUs (44%), coronary ICUs (43%), pediatric ICUs (32%), and surgical ICUs (31%). NNIS uses data from 1997 to 1999 as its benchmark (Table 1). Device use ratios, the proportion of days spent in the ICU in which the patient's treatment included invasive devices, also were calculated. Urinary catheter-associated urinary tract infection (UTI) rates were highest in medical (nonsurgical) ICUs (6.5 UTIs per 1000 days a catheter was used) and lowest in pediatric ICUs (5.6 UTIs per 1000 days a catheter was used). Central line-associated bloodstream infection (BSI) rates were highest in pediatric ICUs (7.7 BSIs per 1000 days a central line was used) and lowest in coronary ICUs (4.3 BSIs per 1000 days a central line

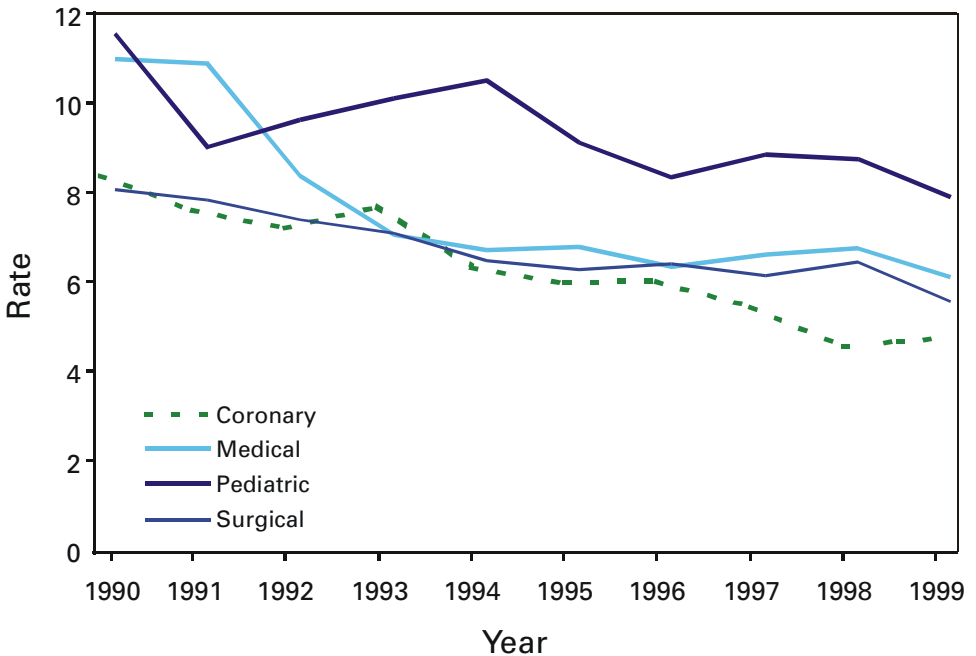
*Hospital-Acquired Infections — Continued*

was used). Ventilator-associated pneumonia (VAP) rates were highest in surgical ICUs (13.0 cases of pneumonia per 1000 days a ventilator was used) and were lowest in pediatric ICUs (5.0 cases of pneumonia per 1000 days a ventilator was used). The percentiles (Table 1) represent a measure of the variations in device-associated rates in NNIS ICUs. For example, the 25th percentile for VAP rates in the medical (nonsurgical) ICU was 4.1, (i.e., 25% of reporting medical [nonsurgical] ICUs had a VAP rate of  $\geq 4.1$ ). Device use ratios ranged from 0.22 for ventilators in coronary ICUs to 0.85 for urinary catheters in surgical ICUs.

**Survey of Infection Control Practitioners**

ICPs are usually registered nurses but also may be microbiologists, epidemiologists, or medical technologists. ICPs collect and interpret data, identify problems, and implement interventions to prevent infections and improve patient safety; hospitals should have at least one full-time ICP for every 250 occupied hospital beds (1,7,8). In 1999, participating NNIS hospitals were surveyed using a mailed questionnaire to determine the number of ICPs in each hospital and the spectrum of ICP activities. Of 285 NNIS hospitals surveyed, 225 (79%) reported data on ICPs in their facilities; 221 (96%) respondents reported a ratio of at least one ICP to 250 occupied hospital beds (median: one ICP per 115 beds; range: one ICP per 21 beds—one ICP per 382 beds). Although 68% of ICP work hours were devoted to inpatient infection-control activities, including surveillance, ICPs reported other responsibilities, such as noninfection-related quality improvement (6%), occupational health (4%), and administration or clinical duties (12%).

**FIGURE 1. Trends in bloodstream infection rates\*, by intensive care unit type and year — National Nosocomial Infection Surveillance System, United States, 1990–1999**



\*Per 1000 days a central line was used.

**TABLE 1. Device-associated infection rates, by type of device and type of intensive care unit (ICU) — National Nosocomial Infection Surveillance system, United States, 1997–1999**

| ICU/Type of infection                                      | No. units | Total no. of days patient in ICU | Device days* | DU <sup>†</sup> | Device-associated infection rates |      |      |      |      |      |
|--|-----------|----------------------------------|--------------|-----------------|-----------------------------------|------|------|------|------|------|
|  |           |                                  |              |                 | Percentiles                       |      |      |      |      |      |
|  |           |                                  |              |                 | Mean                              | 10th | 25th | 50th | 75th | 90th |
| <b>Coronary</b>  |           | 898,305                          |              |                 |                                   |      |      |      |      |      |
| Catheter-associated urinary tract infection <sup>§</sup>   | 112       |                                  | 413,686      | 0.46            | 6.5                               | 1.0  | 3.1  | 5.5  | 9.8  | 13.4 |
| Central line-associated bloodstream infection <sup>¶</sup> | 112       |                                  | 257,793      | 0.29            | 4.8                               | 0.0  | 1.7  | 4.0  | 6.3  | 8.6  |
| Ventilator-associated pneumonia **                         | 108       |                                  | 174,688      | 0.19            | 9.2                               | 0.3  | 3.9  | 7.1  | 12.2 | 16.4 |
| <b>Medical (nonsurgical)</b>                               |           | 1,276,794                        |              |                 |                                   |      |      |      |      |      |
| Catheter-associated urinary tract infection                | 135       |                                  | 914,016      | 0.72            | 7.3                               | 1.9  | 3.6  | 6.4  | 8.8  | 11.6 |
| Central line-associated bloodstream infection              | 136       |                                  | 651,238      | 0.51            | 6.1                               | 1.6  | 3.6  | 5.3  | 7.1  | 9.9  |
| Ventilator-associated pneumonia                            | 133       |                                  | 619,173      | 0.48            | 7.8                               | 1.9  | 4.1  | 6.8  | 9.9  | 14.8 |
| <b>Pediatric</b>   |           | 658,404                          |              |                 |                                   |      |      |      |      |      |
| Catheter-associated urinary tract infection                | 70        |                                  | 212,765      | 0.32            | 5.1                               | 0.0  | 2.0  | 4.8  | 7.0  | 9.8  |
| Central line-associated bloodstream infection              | 73        |                                  | 297,494      | 0.45            | 7.9                               | 1.0  | 4.1  | 6.9  | 9.3  | 12.6 |
| Ventilator-associated pneumonia                            | 73        |                                  | 304,255      | 0.46            | 5.4                               | 0.0  | 1.2  | 4.0  | 7.6  | 10.9 |
| <b>Surgical</b>  |           | 1,451,793                        |              |                 |                                   |      |      |      |      |      |
| Catheter-associated urinary tract infection                | 157       |                                  | 1,215,152    | 0.84            | 5.5                               | 1.2  | 3.3  | 4.6  | 7.6  | 9.4  |
| Central line-associated bloodstream infection              | 157       |                                  | 974,157      | 0.67            | 5.6                               | 1.3  | 2.6  | 5.1  | 7.0  | 9.2  |
| Ventilator-associated pneumonia                            | 157       |                                  | 678,520      | 0.47            | 14.4                              | 5.5  | 8.4  | 12.5 | 16.0 | 24.0 |

\*Number of days a urinary catheter, central line, or ventilator was used by all patients.

<sup>†</sup> Device utilization ratio (device days divided by total number of days patient was in ICU).

<sup>§</sup> Number of urinary catheter-associated urinary tract infections divided by number of days a urinary catheter was used multiplied by 1000.

<sup>¶</sup> Number of central line-associated bloodstream infections divided by number of days a central line was used multiplied by 1000.

\*\*Number of ventilator-associated cases of pneumonia divided by number of days a mechanical ventilator was used multiplied by 1000.

*Hospital-Acquired Infections — Continued*

Reported by: Nosocomial Infections Surveillance Activity, Hospital Infections Program, National Center for Infectious Diseases; and an EIS Officer, CDC.

**Editorial Note:** The Institute of Medicine reports that preventable adverse patient events, including hospital-acquired infections, are responsible for 44,000–98,000 deaths annually at a cost of \$17–\$29 billion (2). In 1990, one of the national health objectives for 2000 was to reduce by at least 10% the incidence of surgical wound infections and nosocomial infections in ICU patients in U.S. hospitals (objective 20.5). NNIS data indicate that almost all goals have been achieved or surpassed (6).

This report demonstrates the value of NNIS as a model to prevent hospital-acquired infections. The elements of NNIS critical for rate reduction included 1) voluntary participation and confidentiality for NNIS hospitals; 2) standard definitions and protocols; 3) targeted, high-risk populations (e.g., intensive care and surgical patients); 4) site-specific, risk-adjusted infection rates comparable across institutions; 5) adequate numbers of trained ICPs; 6) data dissemination to health-care providers; and 7) links between monitored rates and prevention efforts (3,8,9).

The findings in this report are subject to at least three limitations. First, the improvements in NNIS hospitals may reflect other national efforts to prevent infections (e.g., new research findings and prevention guidelines). Second, some rate reductions may be attributable to the shift in the U.S. health-care system from hospital-based care to nonhospital settings. Third, most events reported to CDC are obtained from patient record review. More efficient methods that use electronic information could save substantial time, and financial and personnel resources; however, these methods have not been validated for most infections and other adverse health events (10).

Although reductions in hospital-acquired infections were substantial, the wide range of infection-rate percentiles suggests that a better understanding of this variability is needed. Also, NNIS has not conducted surveillance in nonhospital settings. Efforts are needed in these locations to determine the extent of health-care-related infection rates and where to target prevention efforts. The key to NNIS is having ICPs who use monitoring data to implement prevention activities. Any new system for preventing adverse health events will need to develop professionals at the health-care facility to design and implement appropriate interventions.

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### **Corporate Action to Reduce Air Pollution — Atlanta, Georgia, 1998–1999**

Ground-level ozone, a colorless gas, is a major constituent of smog. Since the early 1980s, controlled studies have demonstrated that exposure to elevated levels of ozone reduces inspiratory capacity in humans (1). In addition, ecologic analyses have indicated that daily emergency department visits for asthma exacerbations are elevated following days of high ozone pollution (1–4). The Partnership for a Smog-Free Georgia (PSG) is a state-sponsored program to reduce the number of days that ground-level ozone exceeds the national ambient air quality standard (NAAQS) in metropolitan Atlanta by providing federal and state subsidized commuting alternatives for local business employees. This report summarizes commuter data from three PSG partners to estimate reductions in emissions and monthly vehicle miles traveled that were associated with enrollment in PSG.

NAAQS for ground-level ozone is 0.12 parts per million during a 1-hour period. From May 1 through September 30, 1999, ambient ozone levels in Atlanta exceeded this standard on 24 days, maintaining the 13-county metropolitan-Atlanta region as an area of “serious” nonattainment of NAAQS. In December 1997, the Georgia governor’s office issued an executive order requiring all state agencies to reduce single-occupancy vehicle commutes by at least 20% on days when NAAQS is expected to be exceeded. PSG was instituted during the summer of 1997 to help achieve this goal. Results of a study of three PSG partners were calculated using vehicle-miles-traveled formulas and emissions factors provided by the U.S. Environmental Protection Agency (5).

**Georgia Department of Transportation.** On May 1, 1998, the Georgia Department of Transportation introduced a comprehensive smog-reduction program to its 1900 employees (Table 1). Baseline rates of commuter behaviors were assessed in April 1998 by a departmentwide survey asking employees how they “usually” commuted to work during the preceding year. Commuting behaviors were then assessed as part of the daily log-in procedure at each employee’s computer terminal. Before PSG program initiation on May 1, 91.4% of Georgia Department of Transportation employees reported that their “usual” method of commuting was in a single-occupancy vehicle. During this baseline period, employees commuted an estimated 1033 vehicle miles per month, volatile organic compound emissions were an estimated 393 pounds per 100 employees per month, and nitrogen oxide emissions were an estimated 351 pounds per 100 employees per month (5). During May–August 1999, the percentage of all daily commutes in a single-occupancy vehicle decreased to 73.6% (a relative decrease of 19%), and vehicle miles traveled and their associated emissions decreased 11%.

*Air Pollution — Continued***TABLE 1. Alternative commuting options and incentives provided by Partnership for a Smog-Free Georgia partners — Atlanta, Georgia, 1999**

| <b>Option</b>                        | <b>Georgia Department of Transportation</b> | <b>Georgia Board of Workers' Compensation</b> | <b>Georgia Power/Southern Company</b> |
|--------------------------------------|---|---|---------------------------------------|
| Carpool program/database             | X   | X   | X                                     |
| Vanpool program                      | X   | X   | X                                     |
| Vans provided to employees           |   |   | X                                     |
| Teleworking scheduling options       | X   | X   | X                                     |
| Compressed workweek option           | X   | X   | X                                     |
| Guaranteed ride home program         | X   | X   | X                                     |
| Smog alert notification system       | X   | X   | X                                     |
| Shuttle to transit station           |   |   | X                                     |
| 100% subsidized transit passes       |   |   | X                                     |
| Partially subsidized transit passes  | X   | X   |                                       |
| Company rideshare fairs/meetings     | X   | X   | X                                     |
| Electric cars for local commutes     |   |   | X                                     |
| Parking incentives for carpoolers    |   |   | X                                     |
| Shower facilities for bikers/walkers |   |   | X                                     |
| Gift incentives for carpoolers       | X   | X   | X                                     |

**Georgia Board of Workers' Compensation.** The Georgia Board of Workers' Compensation, which has 117 employees, became a PSG partner in May 1998 (Table 1). The agency conducted a baseline survey of their employees' "usual" commuting behaviors during March 1998. Beginning in May 1998, all employees completed a daily survey of commuting behavior. Most (62.1%) employees usually commuted using a single-occupancy vehicle before initiation of the PSG program. Before PSG implementation, Georgia Board of Workers' Compensation employees commuted an estimated 799 miles per employee per month, emitted 303 pounds of volatile organic compounds per 100 employees per month and 272 pounds of nitrogen oxides per 100 employees per month. During May–July 1999, the percentage of all commutes in a single-occupancy vehicle was 44.9% (a relative decrease of 28%). In addition, PSG program implementation was associated with a monthly decrease of 145 vehicle miles traveled per employee per month and an estimated 18% decrease in emissions.

**Georgia Power/Southern Company.** Georgia Power/Southern Company has been conducting a prospective monthly survey of employee commuter behaviors since April 1997. During the baseline period of March–April 1998, an average of 587 (20%) of 2885 employees participated in the alternative commuting program (Table 2). Following the repetition of seasonal promotional activities in April 1999, the average increased to 41.5% during May–July 1999 (a relative increase of 52%), and emissions were reduced 12%. To rule out any influence of seasonality on observed findings, participation rates for March–April 1999 were compared with those from March–April 1998. The employee participation rate increased 32%.

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*Air Pollution — Continued*

**Editorial Note:** The metropolitan-Atlanta area ranks first in the United States in annual vehicle miles traveled per household (6). Because 53% of all nitrogen oxide emissions comes from mobile sources of pollution (7), programs that successfully reduce vehicle miles traveled in Atlanta may substantially reduce ozone-producing emissions and ozone-related health effects. Data provided by the PSG partners in this report suggest that PSG program implementation occurred concurrently with an 18%–21% decrease in single-occupancy commute rates and an 11%–18% decrease in monthly commute miles traveled and associated emissions.

The lack of a standard evaluation method among the PSG partners was an important limitation to these analyses. Georgia Power/Southern Company conducted a prospective survey to establish a baseline of commuter behaviors, and the other PSG partners conducted a retrospective survey. In surveys, employees selected one commuting option that was their "usual" method of commute. In these cases, pre- and post-intervention rates are not directly comparable, since post-intervention data reflect the proportional contribution of alternative commuting days to all commute days. However, Georgia Power/Southern Company estimated vehicle-mile reductions for their employees that were similar to those estimated for the other PSG partners. Subsequent analyses of employee commuting behaviors will be facilitated by a standardized approach to evaluation and by standard metrics to calculate vehicle miles traveled by PSG partners.

These PSG partners may have achieved the 20% reduction in single-occupancy commute rates mandated by the Georgia governor's office; however, how similar success can be achieved in a larger percentage of Atlanta's workforce is unclear. PSG can be expanded to include a greater number of local businesses. However, half of all employees of the three PSG partners in this report are not participating in the alternative commuting programs, although the average distance from these PSG partners to the nearest mass transit station is <1 mile. Increases in alternative commute rates beyond those already achieved may be facilitated by programs that continue to make alternative commuting options viable and accessible to working populations.

Future interventions also need to target commuting behaviors other than those related to the daily commute to work. Atlanta residents drive approximately 100 million miles per day, but only 21% of all automobile trips occur between the home and the workplace (8). Industrial emissions and nonwork-related behaviors (e.g., noncommute driving, lawn-care practices, and gasoline and chemical solvent use) also contribute substantially to ground-level ozone and related health effects. Research is needed to evaluate whether employer-based programs like PSG also can reduce noncommute emissions among employee participants, their families, and co-workers. The integration of questions that incorporate day-to-day commuter behavior into state-based tracking surveys, such as the Behavioral Risk Factor Surveillance System, might provide an opportunity for this type of population-based program evaluation.

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*Air Pollution — Continued*

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### **Developing and Expanding Contributions of the Global Laboratory Network for Poliomyelitis Eradication, 1997–1999**

In 1988, the World Health Assembly resolved to eradicate poliomyelitis globally by 2000 (1). Substantial progress toward achieving this goal has been reported from all countries where polio is endemic (2,3), and three regions of the World Health Organization (WHO) (American Region, European Region, and Western Pacific Region) appear to be free of indigenous wild poliovirus transmission (4–6). One key strategy for polio eradication is establishing sensitive surveillance systems for polio (through notification of acute flaccid paralysis [AFP] cases) and poliovirus (7). To ensure that specimens from AFP cases undergo appropriate processing for viral isolation, WHO has established a global laboratory network. This report describes the proficiency of the network and provides updates on structure, accreditation, performance, expanding activities, and future plans.

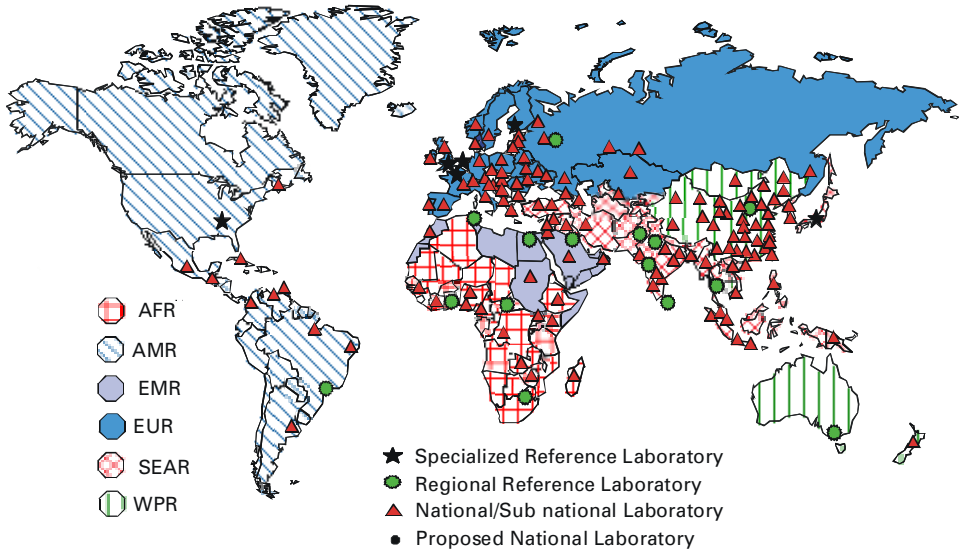
In December 1999, the network was operational in all six WHO regions encompassing 148 laboratories, including 126 national (or subnational) laboratories, 16 regional reference laboratories, and six global specialized laboratories (Figure 1). Standard guidelines, procedures, cell lines, and reagents have been established and implemented in laboratories at each level of the network. National and subnational laboratories perform primary poliovirus isolation and typing for poliovirus types 1, 2, or 3. Regional laboratories conduct intratypic differentiation of poliovirus isolates as wild or vaccine-derived, and specialized laboratories conduct genomic sequencing to determine the molecular relation of poliovirus genotypes and to determine whether the viruses are indigenous or imported. A global laboratory network coordinator and regional coordinators in each region ensure technical and financial support\* and the provision of standard reagents and equipment, if necessary.

During 1998–1999, the network's major focus was implementing an annual accreditation process formulated in 1997 to ensure high-quality laboratory support to the polio eradication initiative. Six accreditation criteria were used initially: 1) timeliness (proportion of test results reported within 28 days after receipt of specimens); 2) workload (process >150 stool specimens per year); 3) nonpolio enterovirus (NPEV) isolation rate; 4) serotyping of poliovirus isolates confirmed by regional reference laboratories; 5) proficiency testing; and 6) on-site review of operating procedures and work practices.

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\*Financial support for the network is provided by WHO; United Nations Children's Fund (UNICEF); Rotary International; UN Foundation; Department for International Development (DFID), United Kingdom; Japan International Cooperation Agency (JICA); the governments of Canada, Finland, Netherlands, Italy, the Republic of Korea, and the United States (through CDC and the U.S. Agency for International Development [USAID]); and American Association for World Health.



*Poliomyelitis Eradication — Continued***FIGURE 1. Global laboratory network for poliomyelitis eradication, by region\*  
January 2000†**

\*AFR (African Region); AMR (Region of the Americas); EMR (Eastern Mediterranean Region); EUR (European Region); SEAR (South East Asia Region); and WPR (Western Pacific Region).

†Designations and the presentation of material on this map do not imply the expression of any opinion on the part of the secretariat of the World Health Organization concerning the legal status of any country, territory, city, area, or the legal status of its authorities, or the delimitation of frontiers or boundaries. Dotted lines represent approximate border lines for which full agreement may not yet have been reached.

Recognizing that the NPEV isolation rate is affected by latitude, altitude, hygiene, and climate, this accreditation criterion was removed, but documenting appropriate internal control activities for cell culture sensitivity was added to the list. As of December 1999, 108 laboratories (73%) were fully accredited, 16 (11%) were provisionally accredited, 14 (9%) have been reviewed and could not be accredited, and 10 (7%) were pending review. To ensure that all specimens from AFP cases are processed in accredited laboratories, including those from countries without a laboratory, specimens should be shipped and processed in parallel in accredited laboratories. Only the Democratic People's Republic of Korea has no accredited laboratory nor access to such a laboratory outside the country.

To improve coordination among the laboratories in the network and timeliness of reporting results, another major focus was to ensure that each laboratory has adequate communication, including local communication to the respective ministries of health, and international communication by telephone, fax, or e-mail to other network laboratories and to the regional offices and headquarters of WHO. In December 1999, 123 (83%) laboratories had international telephone or fax lines and/or access to e-mail, but 25 (17%) laboratories had inadequate communication facilities.

*Poliomyelitis Eradication — Continued*

During 1997–1999, the workload of the network more than doubled. The network processed approximately 50,000 specimens for viral isolation during 1999 (including 48,370 stool specimens from AFP cases only [Table 1]), isolated approximately 5000 polioviruses and approximately 10,000 NPEVs, carried out serotyping and intratypic differentiation on all poliovirus isolates, and provided genomic sequencing information on most wild poliovirus isolates. India and Nigeria illustrate the dramatic increase in laboratory workload (in India, from 5864 specimens in 1997 to 15,800 specimens in 1999, and in Nigeria, from 71 specimens in 1997 to 2534 specimens in 1999).

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**Editorial Note:** During 1997–1999, the global laboratory network for polio eradication improved substantially. During 1999, almost all stool specimens from AFP cases were processed in WHO-accredited laboratories. The network exchanges information, standardizes techniques, and develops strategies to improve the information provided to eradication efforts. The accreditation process particularly has been useful in ensuring the quality of the procedures performed by network laboratories. Through these reviews, laboratories improve their adoption of standard procedures, improve data management, and identify methods to improve performance.

The polio laboratory network continues to evolve as the demands of the program change. To enhance further the timeliness of laboratory results, and recognizing the increased level of proficiency of many national laboratories, intratypic differentiation as wild or vaccine-derived poliovirus also has been carried out in selected national laboratories. These national laboratories have been provided with appropriate training and laboratory equipment and additional accreditation requirements. Whether a poliovirus

**TABLE 1. Structure of the global laboratory network for poliomyelitis eradication and network performance (stool specimens and poliovirus isolates from acute flaccid paralysis [AFP] cases), by World Health Organization (WHO) region, 1997 and 1999**

| WHO regions* | 1997                         |                     |              | 1999            |                     |                |
|--------------|------------------------------|---------------------|--------------|-----------------|---------------------|----------------|
|              | Stool specimens <sup>†</sup> | Poliovirus isolates |              | Stool specimens | Poliovirus isolates |                |
|              |                              | No.                 | (Wild)       |                 | No.                 | (Wild)         |
| AFR          | 402                          | 52                  | ( 32)        | 6,857           | 969                 | ( 340)         |
| AMR          | 1,386                        | 20                  | ( 0)         | 1,296           | 19                  | ( 0)           |
| EMR          | 3,607                        | 397                 | (270)        | 6,465           | 1,156               | ( 837)         |
| EUR          | 1,003                        | 58                  | ( 6)         | 3,713           | 825                 | ( 0)           |
| SEAR         | 5,864                        | 869                 | (536)        | 22,421          | 1,836               | (1,067)        |
| WPR          | 8,604                        | 290                 | ( 9)         | 7,618           | 208                 | ( 2)           |
| <b>Total</b> | <b>20,866</b>                | <b>1,686</b>        | <b>(853)</b> | <b>48,370</b>   | <b>5,013</b>        | <b>(2,246)</b> |

\*AFR (African Region); AMR (Region of the Americas); EMR (Eastern Mediterranean Region); EUR (European Region); SEAR (South East Asia Region); and WPR (Western Pacific Region).

<sup>†</sup>Total number of specimens processed in the network laboratory is considerably higher than the number of specimens for AFP cases only (perhaps 1.5–2 times higher) because many countries also process stool specimens from contacts to AFP cases or from non-AFP cases, including aseptic meningitis cases.

*Poliomyelitis Eradication — Continued*

isolate is wild has considerable implications in polio-free countries, and early institution of control measures is critical to prevent or minimize subsequent poliovirus transmission. Similarly, in countries where polio is endemic and poliovirus transmission is reduced increasingly to focal areas, early notification of wild virus can target resources to the most appropriate areas.

At the final stages of polio eradication, in addition to the timeliness of intratypic differentiation, the rapid availability of genomic sequencing data is another priority. Arrangements are being made by WHO to ensure that wild poliovirus isolates are shipped in a timely manner to specialized laboratories that have the capacity to sequence the isolates. Viral isolation, serotyping, intratypic differentiation, and genomic sequencing data have become increasingly relevant and important to guide programmatic action.

Despite the progress achieved in the network, additional efforts will be necessary to absorb the increasing workload anticipated once countries reached the minimum level of AFP performance ( $\geq 1$  case of nonpolio AFP per 100,000 population aged <15 years). Nigeria has demonstrated that laboratories need to be prepared to process huge numbers of additional specimens when surveillance activities improve substantially. Laboratories in Bangladesh and Ethiopia, where polio is endemic, have not yet been accredited. Although specimens from these countries can be processed in accredited laboratories elsewhere, these large countries should obtain the virologic capacity to process stool specimens.

The priorities in the network for 2000 are to establish intratypic differentiation in selected national laboratories, to sequence all wild-type poliovirus isolates, to complete the accreditation process, to improve the timeliness of all virologic procedures, and to contain wild poliovirus, a process that requires substantial, ongoing attention (8). The polio network has become a model for planning laboratory networks for other infectious disease-control initiatives. A measles laboratory network, functioning in the Region of the Americas, has an elimination target date of December 2000. Efforts are being made to develop such a network in the other regions of WHO, especially in the European and Eastern Mediterranean regions, both of which have adopted regional measles elimination target dates. Many of the laboratories selected for the polio eradication network will participate in the measles efforts. Similar efforts will be extended to rubella and other priority diseases.

Progress achieved by the network has demonstrated that high-quality virology in support of public health activities can be made accessible to all areas of the world, including war-torn countries and countries without organized government or health infrastructure. Although further development of the network is needed, the global capacity to process stool specimens can compensate for any national or regional bottlenecks. The improving capacity and performance quality of the network and accelerated vaccination efforts will provide critical data when wild poliovirus transmission has been interrupted globally.

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Notice to Readers

**Publication of Atlas of Geographic and Racial and Ethnic Disparities  
in Women's Heart Disease Death Rates**

CDC and West Virginia University have released *Women and Heart Disease: An Atlas of Racial and Ethnic Disparities in Mortality*, the first publication to show heart disease death rates among women aged  $\geq 35$  years, county-by-county, throughout the United States (1). The atlas includes more than 200 national and state maps showing geographic patterns in heart disease deaths for 1991 through 1995 for American Indian and Alaska Native women, Asian and Pacific Islander women, black women, Hispanic women, white women, and women of all races and ethnicities combined. The maps show the substantial disparities in heart disease between racial and ethnic groups and the marked disparities by geographic region for each racial and ethnic group. State and local health departments and their partners in communities can use the information in the atlas to target heart-health programs and policies to the women with the greatest need. The atlas is available on the World-Wide Web at <http://www.cdc.gov/nccdphp/cvd/womensatlas>.

*Reference*

1. Casper ML, Barnett E, Halverson JA, et al. Women and heart disease: an atlas of racial and ethnic disparities in mortality. Morgantown, West Virginia: West Virginia University, Office for Social Environment and Health Research, December 1999.

Notice to Readers

**Public Health Journalism Fellowship Offered at CDC**

A new public health journalism fellowship program at CDC funded by the Knight Foundation and developed by the CDC Foundation is now accepting applications. Six mid-career journalists will work side-by-side with scientists and researchers at CDC as Knight Journalism Fellows. The fellowship program lasts 4 months, beginning in July 2000, and includes training with CDC's Epidemic Intelligence Service (EIS) officers. The fellows will explore epidemiology and biostatistics, study in depth a public health issue of

*Notices to Readers — Continued*

their choice, and experience public health activities in a local health department. Application deadline is April 1, 2000. Additional information and an application are available on the World-Wide Web site for the Knight Journalism Fellowships at CDC, <http://www.cdcfoundation.org/kjf>.\*

\*References to sites of non-CDC organizations on the World-Wide Web are provided as a service to *MMWR* readers and do not constitute or imply endorsement of these organizations or their programs by CDC or the U.S. Department of Health and Human Services. CDC is not responsible for the content of pages found at these sites.

*Notice to Readers***Satellite Broadcast on Epidemiology and Prevention of Vaccine-Preventable Diseases**

CDC's National Immunization Program (NIP) and the Public Health Training Network (PHTN) will co-sponsor a live satellite broadcast for physicians, nurses, nurse practitioners, physician assistants, pharmacists, residents, medical and nursing students, and their colleagues who either give vaccinations or set policy in their workplace. The four-part series, "Epidemiology and Prevention of Vaccine-Preventable Diseases," will be broadcast on March 23, March 30, April 6, and April 13, 2000, from noon to 3:30 p.m. eastern time.

The program will provide current information in the field of immunization. Session one will cover principles of vaccination, general recommendations on vaccination, and strategies to improve vaccination coverage levels; session two will cover diphtheria, tetanus, pertussis, pneumococcal disease (childhood), and poliomyelitis; session three will cover measles, mumps, rubella, and varicella; and session four will focus on hepatitis B, *Haemophilus influenzae* type b, influenza, and pneumococcal disease (adult).

Course instructors are medical epidemiologists William L. Atkinson, MD, MPH, and Sharon G. Humiston, MD, MPH. Participants will be able to interact with the instructors through toll-free phone, fax, and TTY lines. Continuing education for a variety of professions will be offered based on 14 hours of instruction. Pharmacy credit will be available. There will be a \$10 processing fee for nonmembers of the American Pharmaceutical Association.

Information and registration are available through state or county health department immunization programs. A list of state immunization coordinators is available on the NIP World-Wide Web site, <http://www.cdc.gov/nip>. Course participants will be required to obtain their own copy of the primary course text, *Epidemiology and Prevention of Vaccine-Preventable Diseases*, 6th edition (2000). The text is available from the Public Health Foundation for \$25; telephone (877) 252-1200. All other course materials will be provided on site.

## Notice to Readers

### **Epidemiology in Action Course**

CDC and Emory University's Rollins School of Public Health will co-sponsor a course, "Epidemiology in Action," during May 1–12, 2000, at Emory University. The course is designed for state and local public health professionals.

The course emphasizes the practical application of epidemiology to public health problems and will consist of lectures, workshops, classroom exercises (including actual epidemiologic problems), and roundtable discussions. Topics covered include descriptive epidemiology and biostatistics, analytic epidemiology, epidemic investigations, public health surveillance, surveys and sampling, Epi Info software training, and discussions of selected prevalent diseases. There is a tuition charge.

Deadline for application is April 1, 2000. Additional information and applications are available from Emory University, International Health Dept. (PIA), 1518 Clifton Rd. NE, Room 746, Atlanta, GA 30322; telephone (404) 727-3485; fax (404) 727-4590; World-Wide Web site <http://www.sph.emory.edu/EPICOURSES/>\*; or e-mail [pvaleri@sph.emory.edu](mailto:pvaleri@sph.emory.edu).

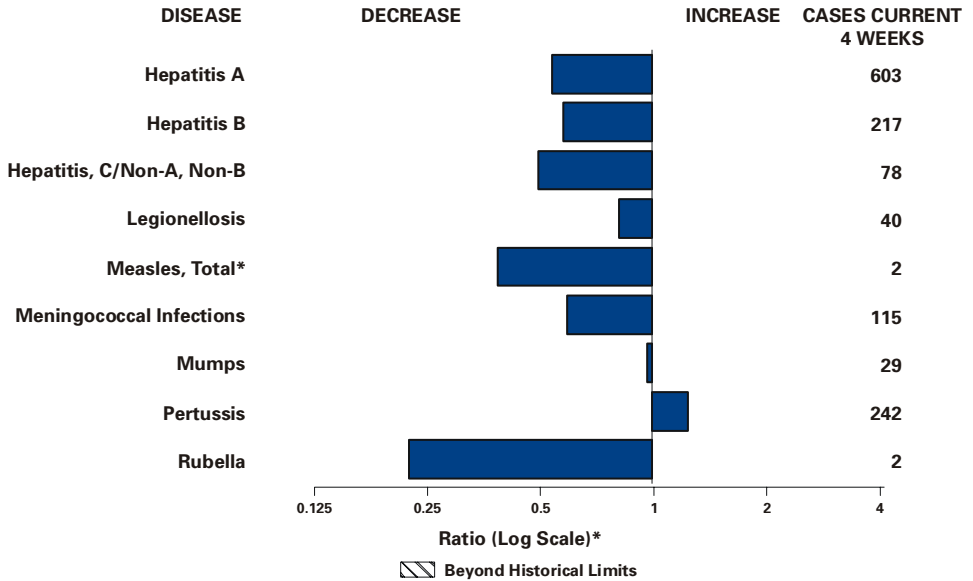
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### **Erratum: Vol. 48, No. 17**

In the article, "Mental Retardation Following Diagnosis of a Metabolic Disorder in Children Aged 3–10 Years—Metropolitan Atlanta, Georgia, 1991–1994," an error occurred in Table 1 on page 354. The line for "Classic galactosemia" should have read "Galactosemia, to include all types of galactosemia (classic and variant forms)." The indicated rate of 12.8 per 100,000 represents all forms of galactosemia identified in Georgia during 1981–1991. The one case of galactosemia found in the Metropolitan Atlanta Developmental Disabilities Surveillance Program was the classic form.

**FIGURE I. Selected notifiable disease reports, comparison of provisional 4-week totals ending February 26, 2000, with historical data — United States**



\*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 — provisional cases of selected notifiable diseases, United States, cumulative, week ending February 26, 2000 (8th Week)**

|   | Cum. 2000 |   | Cum. 2000 |
|---|-----------|---|-----------|
| Anthrax                                     | -         | HIV infection, pediatric**              | 9         |
| Brucellosis*                                | 3         | Plague                                  | 2         |
| Cholera                                     | -         | Poliomyelitis, paralytic                | -         |
| Congenital rubella syndrome                 | 1         | Psittacosis*                            | 1         |
| Cyclosporiasis*                             | 2         | Rabies, human                           | -         |
| Diphtheria                                  | -         | Rocky Mountain spotted fever (RMSF)     | 21        |
| Encephalitis: California* serogroup viral   | 1         | Streptococcal disease, invasive Group A | 403       |
| eastern equine*                             | -         | Streptococcal toxic-shock syndrome*     | 22        |
| St. Louis*                                  | -         | Syphilis, congenital <sup>†</sup>       | -         |
| western equine*                             | -         | Tetanus                                 | -         |
| Ehrlichiosis human granulocytic (HGE)*      | 11        | Toxic-shock syndrome                    | 19        |
| human monocytic (HME)*                      | 1         | Trichinosis                             | 1         |
| Hansen Disease*                             | 6         | Typhoid fever                           | 35        |
| Hantavirus pulmonary syndrome* <sup>‡</sup> | -         | Yellow fever                            | -         |
| Hemolytic uremic syndrome, post-diarrheal*  | 7         |   |           |

-: no reported cases

\*Not notifiable in all states.

<sup>†</sup> Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).

<sup>‡</sup> Updated monthly from reports to the Division of HIV/AIDS Prevention—Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), last update January 30, 2000.

<sup>§</sup> Updated from reports to the Division of STD Prevention, NCHSTP.

**TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending February 26, 2000, and February 27, 1999 (8th Week)**

| Reporting Area | AIDS                   |           | Chlamydia <sup>a</sup> |           | Cryptosporidiosis |           | <i>Escherichia coli</i> O157:H7* |           |           |           |
|----------------|------------------------|-----------|------------------------|-----------|-------------------|-----------|----------------------------------|-----------|-----------|-----------|
|                | Cum. 2000 <sup>†</sup> | Cum. 1999 | Cum. 2000              | Cum. 1999 | Cum. 2000         | Cum. 1999 | NETSS                            |           | PHLIS     |           |
|                |                        |           |                        |           |                   |           | Cum. 2000                        | Cum. 1999 | Cum. 2000 | Cum. 1999 |
| UNITED STATES  | 2,750                  | 6,948     | 61,088                 | 100,465   | 131               | 193       | 174                              | 162       | 74        | 113       |
| NEW ENGLAND    | 289                    | 354       | 2,910                  | 3,240     | 5                 | 8         | 15                               | 28        | 14        | 26        |
| Maine          | 3                      | 5         | 193                    | 99        | 1                 | 1         | 1                                | 1         | -         | -         |
| N.H.           | 3                      | 13        | 98                     | 160       | -                 | -         | 3                                | 1         | 3         | 1         |
| Vt.            | 1                      | 4         | 88                     | 69        | 4                 | 1         | 1                                | 1         | 2         | -         |
| Mass.          | 234                    | 240       | 1,336                  | 1,381     | -                 | 5         | 4                                | 16        | 3         | 13        |
| R.I.           | 6                      | 20        | -                      | 341       | -                 | -         | -                                | -         | -         | -         |
| Conn.          | 42                     | 72        | 1,195                  | 1,190     | -                 | 1         | 6                                | 9         | 6         | 12        |
| MID. ATLANTIC  | 795                    | 1,492     | 591                    | 11,748    | 13                | 36        | 20                               | 10        | -         | 2         |
| Upstate N.Y.   | 21                     | 76        | N                      | N         | 8                 | 14        | 20                               | 7         | -         | -         |
| N.Y. City      | 495                    | 835       | -                      | 5,717     | 4                 | 18        | -                                | 1         | -         | 1         |
| N.J.           | 194                    | 370       | 217                    | 1,866     | -                 | 1         | -                                | 2         | -         | 1         |
| Pa.            | 85                     | 211       | 374                    | 4,165     | 1                 | 3         | N                                | N         | -         | -         |
| E.N. CENTRAL   | 143                    | 489       | 11,738                 | 16,420    | 12                | 39        | 17                               | 34        | 4         | 20        |
| Ohio           | 25                     | 97        | 2,554                  | 5,471     | 6                 | 6         | 5                                | 20        | 1         | 6         |
| Ind.           | 26                     | 52        | 1,773                  | 1,679     | 3                 | 2         | 1                                | 5         | 1         | 6         |
| Ill.           | 64                     | 231       | 3,290                  | 4,095     | -                 | 5         | 8                                | 4         | -         | 3         |
| Mich.          | 19                     | 81        | 3,027                  | 3,241     | 3                 | 4         | 3                                | 5         | 1         | 2         |
| Wis.           | 9                      | 28        | 1,094                  | 1,934     | -                 | 22        | N                                | N         | 1         | 3         |
| W.N. CENTRAL   | 49                     | 161       | 3,050                  | 6,233     | 5                 | 11        | 44                               | 28        | 23        | 15        |
| Minn.          | 11                     | 28        | 870                    | 1,229     | -                 | 4         | 9                                | 10        | 10        | 10        |
| Iowa           | 7                      | 13        | 396                    | 299       | -                 | -         | 9                                | 5         | 1         | 2         |
| Mo.            | 15                     | 84        | 902                    | 2,763     | 2                 | 4         | 23                               | 2         | 8         | 1         |
| N. Dak.        | -                      | 3         | -                      | 136       | -                 | -         | 1                                | 2         | 1         | 1         |
| S. Dak.        | 1                      | 3         | 248                    | 336       | 1                 | 1         | -                                | -         | -         | -         |
| Nebr.          | 4                      | 10        | 440                    | 577       | 2                 | 1         | 2                                | 3         | 2         | 1         |
| Kans.          | 11                     | 20        | 194                    | 893       | -                 | 1         | -                                | 6         | 1         | -         |
| S. ATLANTIC    | 588                    | 1,833     | 12,383                 | 21,727    | 17                | 20        | 17                               | 14        | 10        | 8         |
| Del.           | 15                     | 31        | 450                    | 476       | -                 | -         | -                                | 1         | -         | -         |
| Md.            | 92                     | 252       | 839                    | 2,076     | 1                 | 3         | 5                                | 1         | 1         | -         |
| D.C.           | 22                     | 69        | 302                    | N         | -                 | 3         | -                                | -         | U         | U         |
| Va.            | 41                     | 102       | 2,001                  | 2,149     | -                 | -         | 3                                | 5         | 2         | 2         |
| W. Va.         | 4                      | 14        | 76                     | 361       | -                 | -         | 1                                | -         | 1         | 1         |
| N.C.           | 27                     | 125       | 2,560                  | 3,613     | 3                 | 1         | 5                                | 2         | 1         | 3         |
| S.C.           | 35                     | 128       | 669                    | 4,214     | -                 | -         | -                                | 1         | -         | 1         |
| Ga.            | 97                     | 207       | 1,882                  | 4,261     | 7                 | 12        | 1                                | 1         | 3         | 1         |
| Fla.           | 255                    | 905       | 3,604                  | 4,577     | 6                 | 1         | 2                                | 3         | 2         | U         |
| E.S. CENTRAL   | 140                    | 300       | 6,549                  | 5,963     | 5                 | 2         | 10                               | 14        | 3         | 4         |
| Ky.            | 20                     | 37        | 1,301                  | 1,103     | -                 | 1         | 4                                | 5         | U         | U         |
| Tenn.          | 35                     | 130       | 1,809                  | 2,159     | -                 | 1         | 5                                | 5         | 3         | 2         |
| Ala.           | 50                     | 69        | 1,927                  | 2,016     | 5                 | -         | 1                                | 2         | -         | 1         |
| Miss.          | 35                     | 64        | 1,512                  | 685       | -                 | -         | -                                | 2         | -         | 1         |
| W.S. CENTRAL   | 276                    | 980       | 8,676                  | 12,719    | 5                 | 14        | 8                                | 6         | 7         | 8         |
| Ark.           | 8                      | 34        | 554                    | 819       | 1                 | -         | 2                                | 2         | 1         | 2         |
| La.            | 45                     | 67        | 2,232                  | 1,041     | -                 | 11        | -                                | 2         | 5         | 1         |
| Okla.          | 10                     | 19        | 1,265                  | 1,336     | 1                 | 1         | 3                                | 1         | -         | -         |
| Tex.           | 213                    | 860       | 4,625                  | 9,523     | 3                 | 2         | 3                                | 1         | 1         | 5         |
| MOUNTAIN       | 102                    | 207       | 3,203                  | 5,200     | 8                 | 20        | 21                               | 8         | 4         | 8         |
| Mont.          | 1                      | 3         | -                      | 186       | -                 | 1         | 5                                | -         | -         | -         |
| Idaho          | 3                      | 5         | 64                     | 275       | 1                 | 2         | 3                                | -         | -         | 1         |
| Wyo.           | 1                      | -         | 82                     | 122       | -                 | -         | 2                                | 1         | -         | 1         |
| Colo.          | 34                     | 56        | 538                    | 1,008     | 1                 | 2         | 6                                | 2         | 1         | 1         |
| N. Mex.        | 8                      | 9         | 334                    | 806       | 1                 | 9         | -                                | 1         | -         | 1         |
| Ariz.          | 22                     | 86        | 1,407                  | 2,007     | 2                 | 6         | 3                                | 2         | 2         | 1         |
| Utah           | 12                     | 27        | 343                    | 291       | 3                 | N         | 1                                | 2         | 1         | 3         |
| Nev.           | 21                     | 21        | 435                    | 505       | -                 | -         | 1                                | -         | -         | 1         |
| PACIFIC        | 368                    | 1,132     | 11,988                 | 17,215    | 61                | 43        | 22                               | 20        | 9         | 22        |
| Wash.          | 48                     | 58        | 1,912                  | 1,928     | N                 | N         | 1                                | 1         | 3         | 8         |
| Oreg.          | 11                     | 32        | 454                    | 904       | 1                 | 3         | 3                                | 10        | 3         | 8         |
| Calif.         | 299                    | 1,021     | 9,379                  | 13,625    | 60                | 40        | 16                               | 9         | -         | 6         |
| Alaska         | -                      | 5         | 243                    | 279       | -                 | -         | -                                | -         | -         | -         |
| Hawaii         | 10                     | 16        | -                      | 479       | -                 | -         | 2                                | -         | 3         | -         |
| Guam           | -                      | 1         | -                      | 67        | -                 | -         | N                                | N         | U         | U         |
| P.R.           | 77                     | 215       | 113                    | U         | -                 | -         | -                                | 1         | U         | U         |
| V.I.           | -                      | 3         | -                      | U         | -                 | U         | -                                | U         | U         | U         |
| Amer. Samoa    | -                      | -         | -                      | U         | -                 | U         | -                                | U         | U         | U         |
| C.N.M.I.       | -                      | -         | -                      | U         | -                 | U         | -                                | U         | U         | U         |

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

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

† Updated monthly from reports to the Division of HIV/AIDS Prevention—Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention, last update January 30, 2000.

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



**TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending February 26, 2000, and February 27, 1999 (8th Week)**

| Reporting Area | Gonorrhea |           | Hepatitis C/NA,NB |           | Legionellosis |           | Lyme Disease |           |
|----------------|-----------|-----------|-------------------|-----------|---------------|-----------|--------------|-----------|
|                | Cum. 2000 | Cum. 1999 | Cum. 2000         | Cum. 1999 | Cum. 2000     | Cum. 1999 | Cum. 2000    | Cum. 1999 |
| UNITED STATES  | 40,819    | 56,134    | 257               | 522       | 76            | 138       | 332          | 625       |
| NEW ENGLAND    | 948       | 1,165     | -                 | 2         | 4             | 10        | 37           | 98        |
| Maine          | 10        | 9         | -                 | -         | 2             | 1         | -            | 1         |
| N.H.           | 10        | 13        | -                 | -         | -             | 1         | 11           | -         |
| Vt.            | 4         | 8         | -                 | 1         | -             | 3         | -            | -         |
| Mass.          | 391       | 465       | -                 | 1         | 1             | 2         | 26           | 62        |
| R.I.           | -         | 93        | -                 | -         | -             | 1         | -            | -         |
| Conn.          | 533       | 577       | -                 | -         | 1             | 2         | -            | 35        |
| MID. ATLANTIC  | 744       | 6,745     | 1                 | 16        | 10            | 34        | 226          | 379       |
| Upstate N.Y.   | 387       | 717       | 1                 | 7         | 3             | 5         | 63           | 62        |
| N.Y. City      | -         | 2,866     | -                 | -         | -             | 6         | 1            | 14        |
| N.J.           | 95        | 1,165     | -                 | -         | -             | 5         | -            | 92        |
| Pa.            | 262       | 1,997     | -                 | 9         | 7             | 18        | 162          | 211       |
| E.N. CENTRAL   | 6,964     | 9,942     | 44                | 288       | 22            | 45        | 2            | 23        |
| Ohio           | 1,481     | 2,599     | -                 | -         | 15            | 14        | 2            | 8         |
| Ind.           | 797       | 1,034     | -                 | -         | 3             | 1         | -            | -         |
| Ill.           | 2,051     | 3,024     | 3                 | 5         | -             | 1         | -            | 1         |
| Mich.          | 1,964     | 2,407     | 41                | 87        | 4             | 12        | -            | 1         |
| Wis.           | 671       | 878       | -                 | 196       | -             | 8         | U            | 13        |
| W.N. CENTRAL   | 1,093     | 3,098     | 37                | 35        | 4             | 4         | 4            | 6         |
| Minn.          | 354       | 475       | -                 | -         | 1             | -         | 2            | -         |
| Iowa           | 110       | 99        | -                 | -         | 1             | 2         | -            | 1         |
| Mo.            | 367       | 1,882     | 36                | 32        | 2             | 1         | 2            | 2         |
| N. Dak.        | -         | 8         | -                 | -         | -             | -         | -            | 1         |
| S. Dak.        | 33        | 26        | -                 | -         | -             | -         | -            | -         |
| Nebr.          | 141       | 263       | 1                 | 1         | -             | 1         | -            | -         |
| Kans.          | 88        | 345       | -                 | 2         | -             | -         | -            | 2         |
| S. ATLANTIC    | 9,566     | 17,354    | 11                | 34        | 20            | 17        | 46           | 82        |
| Del.           | 238       | 273       | -                 | -         | 1             | 2         | -            | 4         |
| Md.            | 412       | 2,589     | 2                 | 18        | 6             | 2         | 37           | 67        |
| D.C.           | 312       | 1,281     | -                 | -         | -             | -         | -            | 1         |
| Va.            | 1,446     | 1,811     | -                 | 6         | 3             | 2         | 1            | -         |
| W. Va.         | 22        | 104       | 1                 | 2         | N             | N         | 2            | -         |
| N.C.           | 2,490     | 3,247     | 5                 | 7         | 1             | 3         | 4            | 10        |
| S.C.           | 574       | 2,080     | -                 | 1         | 2             | 4         | -            | -         |
| Ga.            | 1,396     | 2,703     | -                 | -         | -             | -         | -            | -         |
| Fla.           | 2,676     | 3,266     | 3                 | -         | 7             | 4         | 2            | -         |
| E.S. CENTRAL   | 4,810     | 5,214     | 50                | 28        | 2             | 7         | -            | 9         |
| Ky.            | 553       | 584       | 4                 | 3         | -             | 4         | -            | -         |
| Tenn.          | 1,469     | 1,782     | 15                | 21        | 1             | 3         | -            | 2         |
| Ala.           | 1,595     | 1,983     | 3                 | 1         | 1             | -         | -            | 4         |
| Miss.          | 1,193     | 865       | 28                | 3         | -             | -         | -            | 3         |
| W.S. CENTRAL   | 13,136    | 7,178     | 59                | 52        | -             | 1         | -            | -         |
| Ark.           | 319       | 381       | -                 | 1         | -             | -         | -            | -         |
| La.            | 9,531     | 1,140     | 24                | 40        | -             | 1         | -            | -         |
| Okla.          | 594       | 718       | -                 | 1         | -             | -         | -            | -         |
| Tex.           | 2,692     | 4,939     | 35                | 10        | -             | -         | -            | -         |
| MOUNTAIN       | 1,262     | 1,538     | 26                | 42        | 5             | 10        | 1            | 1         |
| Mont.          | -         | 3         | -                 | 4         | -             | -         | -            | -         |
| Idaho          | 4         | 19        | -                 | 3         | 1             | -         | -            | -         |
| Wyo.           | 5         | 6         | 13                | 16        | -             | -         | -            | -         |
| Colo.          | 540       | 323       | 5                 | 4         | 2             | 1         | -            | -         |
| N. Mex.        | 62        | 160       | 4                 | 6         | -             | 1         | -            | 1         |
| Ariz.          | 440       | 789       | 4                 | 8         | -             | -         | 1            | -         |
| Utah           | 50        | 32        | -                 | 1         | 2             | 5         | -            | -         |
| Nev.           | 161       | 206       | -                 | -         | -             | 3         | -            | -         |
| PACIFIC        | 2,296     | 3,900     | 29                | 25        | 9             | 10        | 16           | 27        |
| Wash.          | 362       | 334       | 2                 | 2         | 2             | 1         | -            | -         |
| Oreg.          | 56        | 129       | 7                 | 2         | N             | N         | 1            | 1         |
| Calif.         | 1,849     | 3,295     | 20                | 21        | 7             | 9         | 15           | 26        |
| Alaska         | 29        | 55        | -                 | -         | -             | -         | -            | -         |
| Hawaii         | -         | 87        | -                 | -         | -             | -         | N            | N         |
| Guam           | -         | 13        | -                 | -         | -             | -         | -            | -         |
| P.R.           | 28        | 51        | -                 | -         | -             | -         | N            | N         |
| V.I.           | -         | U         | -                 | U         | -             | U         | -            | U         |
| Amer. Samoa    | -         | U         | -                 | U         | -             | U         | -            | U         |
| C.N.M.I.       | -         | U         | -                 | U         | -             | U         | -            | U         |

N: Not notifiable

U: Unavailable

- : no reported cases

**TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending February 26, 2000, and February 27, 1999 (8th Week)**

| Reporting Area | Malaria   |           | Rabies, Animal |           | Salmonellosis* |           |           |           |
|----------------|-----------|-----------|----------------|-----------|----------------|-----------|-----------|-----------|
|                | Cum. 2000 | Cum. 1999 | Cum. 2000      | Cum. 1999 | NETSS          |           | PHLIS     |           |
|                |           |           |                |           | Cum. 2000      | Cum. 1999 | Cum. 2000 | Cum. 1999 |
| UNITED STATES  | 96        | 185       | 459            | 681       | 2,814          | 3,672     | 1,453     | 3,442     |
| NEW ENGLAND    | -         | 3         | 60             | 96        | 181            | 201       | 167       | 210       |
| Maine          | -         | -         | 14             | 16        | 17             | 23        | -         | 13        |
| N.H.           | -         | -         | 1              | 5         | 11             | 3         | 8         | 10        |
| Vt.            | -         | -         | 4              | 15        | 5              | 9         | 3         | 9         |
| Mass.          | -         | 3         | 23             | 28        | 108            | 118       | 106       | 111       |
| R.I.           | -         | -         | -              | 8         | 3              | 8         | 12        | 16        |
| Conn.          | -         | -         | 18             | 24        | 37             | 40        | 38        | 51        |
| MID. ATLANTIC  | 10        | 60        | 104            | 143       | 222            | 545       | 165       | 434       |
| Upstate N.Y.   | 6         | 12        | 80             | 90        | 54             | 97        | 24        | 130       |
| N.Y. City      | 1         | 29        | U              | U         | 84             | 180       | 141       | 177       |
| N.J.           | -         | 14        | 13             | 32        | -              | 132       | -         | 123       |
| Pa.            | 3         | 5         | 11             | 21        | 84             | 136       | -         | 4         |
| E. N. CENTRAL  | 5         | 23        | 1              | 1         | 360            | 583       | 173       | 518       |
| Ohio           | 2         | 2         | 1              | -         | 141            | 136       | 64        | 99        |
| Ind.           | -         | 4         | -              | -         | 35             | 29        | 21        | 38        |
| Ill.           | -         | 9         | -              | -         | 120            | 174       | -         | 187       |
| Mich.          | 3         | 5         | -              | 1         | 59             | 143       | 65        | 143       |
| Wis.           | -         | 3         | -              | -         | 5              | 101       | 23        | 51        |
| W. N. CENTRAL  | 3         | 7         | 39             | 85        | 125            | 180       | 128       | 229       |
| Minn.          | 2         | -         | 18             | 15        | 30             | 48        | 42        | 82        |
| Iowa           | -         | 2         | 7              | 14        | 14             | 27        | 8         | 26        |
| Mo.            | -         | 5         | 2              | 3         | 49             | 54        | 38        | 68        |
| N. Dak.        | -         | -         | 6              | 15        | -              | 1         | 10        | 7         |
| S. Dak.        | -         | -         | 6              | 25        | 6              | 7         | 9         | 10        |
| Nebr.          | 1         | -         | -              | 1         | 26             | 18        | 5         | 15        |
| Kans.          | -         | -         | -              | 12        | -              | 25        | 16        | 21        |
| S. ATLANTIC    | 28        | 41        | 186            | 261       | 498            | 661       | 293       | 622       |
| Del.           | -         | -         | 7              | 3         | 8              | 15        | 7         | 13        |
| Md.            | 16        | 15        | 42             | 70        | 86             | 90        | 50        | 74        |
| D.C.           | -         | 5         | -              | -         | -              | 16        | U         | U         |
| Va.            | 7         | 7         | 55             | 56        | 48             | 76        | 22        | 76        |
| W. Va.         | -         | 1         | 15             | 13        | 17             | 7         | 11        | 15        |
| N.C.           | 4         | 1         | 39             | 56        | 115            | 160       | 67        | 129       |
| S.C.           | -         | -         | 13             | 11        | 55             | 37        | 32        | 46        |
| Ga.            | -         | 5         | -              | 28        | 56             | 125       | 104       | 188       |
| Fla.           | 1         | 7         | 15             | 24        | 113            | 135       | -         | 81        |
| E. S. CENTRAL  | 4         | 4         | 23             | 31        | 149            | 237       | 67        | 115       |
| Ky.            | 1         | -         | 4              | 10        | 17             | 54        | U         | U         |
| Tenn.          | -         | 2         | 16             | 15        | 40             | 67        | 41        | 70        |
| Ala.           | 3         | 2         | 3              | 6         | 58             | 71        | 23        | 38        |
| Miss.          | -         | -         | -              | -         | 34             | 45        | 3         | 7         |
| W. S. CENTRAL  | 1         | 9         | 8              | 10        | 177            | 240       | 160       | 364       |
| Ark.           | -         | 1         | -              | -         | 26             | 30        | 6         | 32        |
| La.            | 1         | 6         | -              | -         | 18             | 43        | 41        | 55        |
| Okla.          | -         | 1         | 8              | 10        | 22             | 29        | -         | 12        |
| Tex.           | -         | 1         | -              | -         | 111            | 138       | 113       | 265       |
| MOUNTAIN       | 8         | 8         | 18             | 18        | 275            | 255       | 163       | 238       |
| Mont.          | -         | 1         | 9              | 7         | 11             | 3         | -         | 1         |
| Idaho          | -         | 1         | -              | -         | 21             | 9         | -         | 12        |
| Wyo.           | -         | -         | 5              | 5         | 3              | 2         | -         | 5         |
| Colo.          | 4         | 1         | -              | 1         | 50             | 70        | 34        | 66        |
| N. Mex.        | -         | 1         | 1              | -         | 28             | 28        | 21        | 29        |
| Ariz.          | 2         | 3         | 3              | 5         | 90             | 87        | 70        | 71        |
| Utah           | 2         | 1         | -              | -         | 46             | 29        | 38        | 33        |
| Nev.           | -         | -         | -              | -         | 26             | 27        | -         | 21        |
| PACIFIC        | 37        | 30        | 20             | 36        | 827            | 770       | 137       | 712       |
| Wash.          | 2         | 2         | -              | -         | 23             | 31        | 59        | 97        |
| Oreg.          | 4         | 5         | -              | -         | 42             | 54        | 49        | 82        |
| Calif.         | 31        | 20        | 16             | 36        | 715            | 627       | -         | 478       |
| Alaska         | -         | -         | 4              | -         | 10             | 6         | 2         | 4         |
| Hawaii         | -         | 3         | -              | -         | 37             | 52        | 27        | 51        |
| Guam           | -         | -         | -              | -         | -              | 13        | U         | U         |
| P.R.           | -         | -         | 2              | 6         | -              | 53        | U         | U         |
| V.I.           | -         | U         | -              | U         | -              | U         | U         | U         |
| Amer. Samoa    | -         | U         | -              | U         | -              | U         | U         | U         |
| C.N.M.I.       | -         | U         | -              | U         | -              | U         | U         | U         |

N: Not notifiable U: Unavailable - : no reported cases

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

**TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending February 26, 2000, and February 27, 1999 (8th Week)**

| Reporting Area | Shigellosis* |              |              |              | Syphilis<br>(Primary & Secondary) |              | Tuberculosis |               |
|----------------|--------------|--------------|--------------|--------------|-----------------------------------|--------------|--------------|---------------|
|                | NETSS        |              | PHLIS        |              | Cum.<br>2000                      | Cum.<br>1999 | Cum.<br>2000 | Cum.<br>1999† |
|                | Cum.<br>2000 | Cum.<br>1999 | Cum.<br>2000 | Cum.<br>1999 |                                   |              |              |               |
| UNITED STATES  | 1,687        | 1,898        | 650          | 1,039        | 1,039                             | 1,046        | 838          | 1,617         |
| NEW ENGLAND    | 42           | 38           | 34           | 46           | 7                                 | 11           | 28           | 37            |
| Maine          | 2            | -            | -            | -            | -                                 | -            | -            | 1             |
| N.H.           | 1            | 2            | 1            | 5            | -                                 | -            | 1            | -             |
| Vt.            | 1            | 1            | -            | 1            | -                                 | 1            | -            | -             |
| Mass.          | 28           | 28           | 24           | 28           | 6                                 | 6            | 21           | 11            |
| R.I.           | 4            | 3            | 4            | 6            | -                                 | 1            | 2            | 13            |
| Conn.          | 6            | 4            | 5            | 6            | 1                                 | 3            | 4            | 12            |
| MID. ATLANTIC  | 48           | 139          | 37           | 96           | 11                                | 37           | 155          | 227           |
| Upstate N.Y.   | 18           | 30           | 3            | 17           | -                                 | 3            | 7            | 12            |
| N.Y. City      | 21           | 46           | 33           | 43           | 6                                 | 16           | 95           | 113           |
| N.J.           | -            | 40           | 1            | 36           | 2                                 | 12           | 47           | 64            |
| Pa.            | 9            | 23           | -            | -            | 3                                 | 6            | 6            | 38            |
| E.N. CENTRAL   | 264          | 382          | 85           | 153          | 154                               | 139          | 66           | 166           |
| Ohio           | 18           | 139          | 3            | 11           | 10                                | 16           | 17           | 49            |
| Ind.           | 24           | 14           | 5            | 6            | 65                                | 37           | 3            | 12            |
| Ill.           | 89           | 139          | -            | 123          | 45                                | 72           | 39           | 74            |
| Mich.          | 129          | 40           | 75           | 1            | 23                                | 7            | 3            | 25            |
| Wis.           | 4            | 50           | 2            | 12           | 11                                | 7            | 4            | 6             |
| W.N. CENTRAL   | 99           | 92           | 60           | 81           | 13                                | 50           | 46           | 44            |
| Minn.          | 23           | 14           | 32           | 18           | 2                                 | 1            | 22           | 22            |
| Iowa           | 16           | 1            | 7            | 3            | 5                                 | 1            | 3            | -             |
| Mo.            | 47           | 64           | 16           | 53           | 5                                 | 44           | 17           | 16            |
| N. Dak.        | -            | -            | -            | 1            | -                                 | -            | -            | -             |
| S. Dak.        | 1            | -            | -            | -            | -                                 | -            | 2            | 2             |
| Nebr.          | 12           | 7            | 2            | 3            | 1                                 | 1            | 2            | 1             |
| Kans.          | -            | 6            | 3            | 3            | -                                 | 3            | -            | 3             |
| S. ATLANTIC    | 141          | 253          | 18           | 48           | 231                               | 398          | 129          | 201           |
| Del.           | -            | 4            | -            | 1            | 1                                 | 1            | -            | 2             |
| Md.            | 13           | 16           | 4            | 3            | 38                                | 81           | 14           | 26            |
| D.C.           | -            | 11           | U            | U            | 10                                | 33           | -            | 7             |
| Va.            | 10           | 11           | -            | 4            | 20                                | 27           | -            | 17            |
| W. Va.         | -            | 3            | -            | 1            | -                                 | 1            | 5            | 5             |
| N.C.           | 12           | 44           | 5            | 10           | 78                                | 90           | 18           | 37            |
| S.C.           | 3            | 18           | 1            | 5            | 11                                | 41           | 18           | 56            |
| Ga.            | 6            | 30           | 3            | 10           | 23                                | 72           | 47           | 47            |
| Fla.           | 97           | 116          | 5            | 14           | 50                                | 52           | 27           | 4             |
| E.S. CENTRAL   | 83           | 245          | 37           | 143          | 126                               | 195          | 60           | 101           |
| Ky.            | 16           | 22           | U            | U            | 7                                 | 21           | -            | 10            |
| Tenn.          | 44           | 184          | 34           | 134          | 88                                | 86           | 21           | 33            |
| Ala.           | 5            | 25           | 1            | 9            | 17                                | 54           | 39           | 48            |
| Miss.          | 18           | 14           | 2            | -            | 14                                | 34           | -            | 10            |
| W.S. CENTRAL   | 150          | 282          | 132          | 362          | 425                               | 147          | 13           | 287           |
| Ark.           | 33           | 24           | -            | 17           | 9                                 | 13           | 8            | 8             |
| La.            | 15           | 22           | 17           | 20           | 351                               | 11           | -            | U             |
| Okla.          | 7            | 72           | 1            | 14           | 31                                | 42           | 5            | 8             |
| Tex.           | 95           | 164          | 114          | 311          | 34                                | 81           | -            | 271           |
| MOUNTAIN       | 176          | 128          | 46           | 64           | 27                                | 30           | 44           | 34            |
| Mont.          | -            | 3            | -            | -            | -                                 | -            | -            | -             |
| Idaho          | 21           | 2            | -            | 1            | -                                 | -            | -            | -             |
| Wyo.           | -            | 2            | -            | 1            | -                                 | -            | -            | -             |
| Colo.          | 22           | 26           | 12           | 18           | 3                                 | -            | 5            | U             |
| N. Mex.        | 20           | 12           | 12           | 6            | 3                                 | -            | 5            | 7             |
| Ariz.          | 70           | 70           | 17           | 26           | 19                                | 30           | 15           | 12            |
| Utah           | 5            | 8            | 5            | 10           | -                                 | -            | 4            | 9             |
| Nev.           | 38           | 5            | -            | 2            | 2                                 | -            | 15           | 6             |
| PACIFIC        | 684          | 339          | 201          | 46           | 45                                | 39           | 297          | 520           |
| Wash.          | 126          | 9            | 162          | 25           | 8                                 | 1            | 21           | 19            |
| Oreg.          | 70           | 8            | 35           | 9            | 1                                 | -            | -            | 14            |
| Calif.         | 480          | 312          | -            | -            | 36                                | 36           | 264          | 456           |
| Alaska         | 2            | -            | -            | -            | -                                 | -            | 1            | 6             |
| Hawaii         | 6            | 10           | 4            | 12           | -                                 | 1            | 11           | 25            |
| Guam           | -            | 2            | U            | U            | -                                 | -            | -            | -             |
| P.R.           | -            | 6            | U            | U            | 16                                | 41           | -            | -             |
| V.I.           | -            | U            | U            | U            | -                                 | U            | -            | U             |
| Amer. Samoa    | -            | U            | U            | U            | -                                 | U            | -            | U             |
| C.N.M.I.       | -            | U            | U            | U            | -                                 | U            | -            | U             |

N: Not notifiable U: Unavailable - : no reported cases

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

†Cumulative reports of provisional tuberculosis cases for 1999 are unavailable ("U") for some areas using the Tuberculosis Information System (TIMS).

**TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending February 26, 2000, and February 27, 1999 (8th Week)**

| Reporting Area | <i>H. influenzae</i> ,<br>invasive |              | Hepatitis (Viral), by type |              |              |              | Measles (Rubeola) |              |           |              |              |              |
|----------------|------------------------------------|--------------|----------------------------|--------------|--------------|--------------|-------------------|--------------|-----------|--------------|--------------|--------------|
|                | Cum.<br>2000 <sup>1</sup>          | Cum.<br>1999 | A                          |              | B            |              | Indigenous        |              | Imported* |              | Total        |              |
|                |                                    |              | Cum.<br>2000               | Cum.<br>1999 | Cum.<br>2000 | Cum.<br>1999 | 2000              | Cum.<br>2000 | 2000      | Cum.<br>2000 | Cum.<br>2000 | Cum.<br>1999 |
| UNITED STATES  | 140                                | 187          | 1,602                      | 2,561        | 600          | 752          | 2                 | 3            | -         | -            | 3            | 15           |
| NEW ENGLAND    | 10                                 | 14           | 24                         | 32           | 6            | 23           | -                 | -            | -         | -            | -            | 1            |
| Maine          | -                                  | 1            | 1                          | 2            | 1            | -            | -                 | -            | -         | -            | -            | -            |
| N.H.           | 2                                  | 2            | 5                          | 2            | 3            | 2            | U                 | -            | U         | -            | -            | 1            |
| Vt.            | 1                                  | 3            | 1                          | -            | 2            | -            | -                 | -            | -         | -            | -            | -            |
| Mass.          | 7                                  | 7            | 5                          | 12           | -            | 11           | -                 | -            | -         | -            | -            | -            |
| R.I.           | -                                  | -            | -                          | -            | -            | 2            | -                 | -            | -         | -            | -            | -            |
| Conn.          | -                                  | 1            | 12                         | 16           | -            | 8            | -                 | -            | -         | -            | -            | -            |
| MID. ATLANTIC  | 16                                 | 29           | 61                         | 169          | 47           | 118          | -                 | -            | -         | -            | -            | -            |
| Upstate N.Y.   | 11                                 | 10           | 31                         | 35           | 7            | 18           | -                 | -            | -         | -            | -            | -            |
| N.Y. City      | -                                  | 7            | 30                         | 56           | 40           | 34           | -                 | -            | -         | -            | -            | -            |
| N.J.           | 4                                  | 11           | -                          | 27           | -            | 21           | -                 | -            | -         | -            | -            | -            |
| Pa.            | 1                                  | 1            | -                          | 51           | -            | 45           | -                 | -            | -         | -            | -            | -            |
| E. N. CENTRAL  | 15                                 | 30           | 162                        | 628          | 73           | 74           | 2                 | 3            | -         | -            | 3            | -            |
| Ohio           | 9                                  | 13           | 61                         | 110          | 17           | 18           | 2                 | 2            | -         | -            | 2            | -            |
| Ind.           | 2                                  | 1            | 2                          | 12           | 1            | 4            | -                 | -            | -         | -            | -            | -            |
| Ill.           | 2                                  | 15           | 13                         | 130          | -            | -            | -                 | -            | -         | -            | -            | -            |
| Mich.          | 2                                  | 1            | 85                         | 364          | 55           | 48           | -                 | 1            | -         | -            | 1            | -            |
| Wis.           | -                                  | -            | 1                          | 12           | -            | 4            | U                 | -            | U         | -            | -            | -            |
| W. N. CENTRAL  | 4                                  | 10           | 157                        | 133          | 30           | 38           | -                 | -            | -         | -            | -            | -            |
| Minn.          | -                                  | 1            | 18                         | 2            | -            | 2            | -                 | -            | -         | -            | -            | -            |
| Iowa           | -                                  | 3            | 17                         | 15           | 8            | 6            | -                 | -            | -         | -            | -            | -            |
| Mo.            | 2                                  | 2            | 114                        | 93           | 17           | 21           | -                 | -            | -         | -            | -            | -            |
| N. Dak.        | 1                                  | -            | -                          | -            | -            | -            | -                 | -            | -         | -            | -            | -            |
| S. Dak.        | -                                  | 1            | -                          | -            | 1            | -            | -                 | -            | -         | -            | -            | -            |
| Nebr.          | 1                                  | 1            | 8                          | 14           | 4            | 7            | -                 | -            | -         | -            | -            | -            |
| Kans.          | -                                  | 2            | -                          | 9            | -            | 2            | U                 | -            | U         | -            | -            | -            |
| S. ATLANTIC    | 40                                 | 33           | 170                        | 198          | 115          | 107          | -                 | -            | -         | -            | -            | -            |
| Del.           | -                                  | -            | -                          | -            | -            | -            | -                 | -            | -         | -            | -            | -            |
| Md.            | 18                                 | 18           | 22                         | 62           | 19           | 35           | -                 | -            | -         | -            | -            | -            |
| D.C.           | -                                  | -            | -                          | 9            | -            | 2            | U                 | -            | U         | -            | -            | -            |
| Va.            | 10                                 | 2            | 29                         | 14           | 21           | 8            | -                 | -            | -         | -            | -            | -            |
| W. Va.         | 1                                  | 1            | 16                         | 1            | -            | -            | -                 | -            | -         | -            | -            | -            |
| N.C.           | 3                                  | 4            | 44                         | 25           | 45           | 31           | -                 | -            | -         | -            | -            | -            |
| S.C.           | 1                                  | 2            | 3                          | 1            | 1            | 14           | -                 | -            | -         | -            | -            | -            |
| Ga.            | 6                                  | 2            | 15                         | 64           | 2            | 11           | -                 | -            | -         | -            | -            | -            |
| Fla.           | 1                                  | 4            | 41                         | 22           | 27           | 6            | U                 | -            | U         | -            | -            | -            |
| E. S. CENTRAL  | 3                                  | 13           | 66                         | 75           | 44           | 62           | -                 | -            | -         | -            | -            | -            |
| Ky.            | -                                  | 2            | 2                          | 11           | 2            | 5            | -                 | -            | -         | -            | -            | -            |
| Tenn.          | 3                                  | 5            | 21                         | 33           | 28           | 34           | -                 | -            | -         | -            | -            | -            |
| Ala.           | -                                  | 4            | 12                         | 21           | 4            | 14           | -                 | -            | -         | -            | -            | -            |
| Miss.          | -                                  | 2            | 31                         | 10           | 10           | 9            | -                 | -            | -         | -            | -            | -            |
| W. S. CENTRAL  | 11                                 | 17           | 260                        | 317          | 33           | 76           | -                 | -            | -         | -            | -            | 2            |
| Ark.           | -                                  | -            | 26                         | 6            | 7            | 7            | -                 | -            | -         | -            | -            | -            |
| La.            | 2                                  | 6            | 5                          | 29           | 16           | 27           | U                 | -            | U         | -            | -            | -            |
| Okla.          | 9                                  | 9            | 55                         | 89           | 10           | 12           | -                 | -            | -         | -            | -            | -            |
| Tex.           | -                                  | 2            | 174                        | 193          | -            | 30           | -                 | -            | -         | -            | -            | 2            |
| MOUNTAIN       | 24                                 | 25           | 118                        | 271          | 52           | 75           | -                 | -            | -         | -            | -            | -            |
| Mont.          | -                                  | 1            | 1                          | 2            | 2            | 1            | -                 | -            | -         | -            | -            | -            |
| Idaho          | 1                                  | 1            | 5                          | 5            | 3            | 4            | -                 | -            | -         | -            | -            | -            |
| Wyo.           | -                                  | 1            | -                          | 1            | -            | -            | U                 | -            | U         | -            | -            | -            |
| Colo.          | 7                                  | 1            | 31                         | 59           | 13           | 15           | -                 | -            | -         | -            | -            | -            |
| N. Mex.        | 8                                  | 5            | 14                         | 5            | 11           | 25           | -                 | -            | -         | -            | -            | -            |
| Ariz.          | 7                                  | 13           | 50                         | 160          | 19           | 14           | -                 | -            | -         | -            | -            | -            |
| Utah           | 1                                  | 3            | 9                          | 14           | 2            | 7            | -                 | -            | -         | -            | -            | -            |
| Nev.           | -                                  | -            | 8                          | 25           | 2            | 9            | -                 | -            | -         | -            | -            | -            |
| PACIFIC        | 17                                 | 16           | 584                        | 738          | 200          | 179          | -                 | -            | -         | -            | -            | 12           |
| Wash.          | 2                                  | -            | 19                         | 47           | 6            | 2            | -                 | -            | -         | -            | -            | 2            |
| Oreg.          | 4                                  | 5            | 37                         | 36           | 13           | 11           | -                 | -            | -         | -            | -            | 8            |
| Calif.         | 4                                  | 10           | 525                        | 652          | 178          | 162          | -                 | -            | -         | -            | -            | 2            |
| Alaska         | 1                                  | 1            | 3                          | 2            | 2            | 3            | -                 | -            | -         | -            | -            | -            |
| Hawaii         | 6                                  | -            | -                          | 1            | 1            | 1            | -                 | -            | -         | -            | -            | -            |
| Guam           | -                                  | -            | -                          | 2            | -            | 2            | U                 | -            | U         | -            | -            | -            |
| P.R.           | -                                  | -            | -                          | 10           | -            | 17           | U                 | -            | U         | -            | -            | -            |
| V.I.           | -                                  | U            | -                          | U            | -            | U            | U                 | -            | U         | -            | -            | U            |
| Amer. Samoa    | -                                  | U            | -                          | U            | -            | U            | U                 | -            | U         | -            | -            | U            |
| C.N.M.I.       | -                                  | U            | -                          | U            | -            | U            | U                 | -            | U         | -            | -            | U            |

N: Not notifiable U: Unavailable - : no reported cases

\*For imported measles, cases include only those resulting from importation from other countries.

<sup>1</sup>Of 37 cases among children aged <5 years, serotype was reported for 18 and of those, 3 were type b.

**TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending February 26, 2000, and February 27, 1999 (8th Week)**

| Reporting Area | Meningococcal Disease |           | Mumps |           |           | Pertussis |           |           | Rubella |           |           |
|----------------|-----------------------|-----------|-------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|
|                | Cum. 2000             | Cum. 1999 | 2000  | Cum. 2000 | Cum. 1999 | 2000      | Cum. 2000 | Cum. 1999 | 2000    | Cum. 2000 | Cum. 1999 |
| UNITED STATES  | 357                   | 385       | 4     | 59        | 57        | 58        | 497       | 607       | -       | 2         | 2         |
| NEW ENGLAND    | 20                    | 23        | -     | -         | 3         | 6         | 110       | 89        | -       | 1         | 1         |
| Maine          | 2                     | 3         | -     | -         | -         | -         | 7         | -         | -       | -         | -         |
| N.H.           | -                     | 2         | U     | -         | 1         | U         | 28        | 14        | U       | 1         | -         |
| Vt.            | 1                     | 2         | -     | -         | -         | 2         | 39        | 9         | -       | -         | -         |
| Mass.          | 12                    | 16        | -     | -         | 2         | 2         | 31        | 66        | -       | -         | 1         |
| R.I.           | 1                     | -         | -     | -         | -         | 2         | 4         | -         | -       | -         | -         |
| Conn.          | 4                     | -         | -     | -         | -         | -         | 1         | -         | -       | -         | -         |
| MID. ATLANTIC  | 27                    | 46        | -     | 3         | 7         | 2         | 34        | 40        | -       | -         | -         |
| Upstate N.Y.   | 7                     | 7         | -     | 1         | 2         | 2         | 24        | 22        | -       | -         | -         |
| N.Y. City      | 4                     | 17        | -     | -         | 2         | -         | -         | 8         | -       | -         | -         |
| N.J.           | 8                     | 12        | -     | -         | -         | -         | -         | 2         | -       | -         | -         |
| Pa.            | 8                     | 10        | -     | 2         | 3         | -         | 10        | 8         | -       | -         | -         |
| E.N. CENTRAL   | 39                    | 57        | -     | 5         | 3         | 7         | 113       | 82        | -       | -         | -         |
| Ohio           | 12                    | 22        | -     | 3         | 1         | 5         | 102       | 50        | -       | -         | -         |
| Ind.           | 8                     | 5         | -     | -         | -         | -         | 3         | 4         | -       | -         | -         |
| Ill.           | 4                     | 19        | -     | 1         | 1         | 2         | 5         | 7         | -       | -         | -         |
| Mich.          | 14                    | 7         | -     | 1         | 1         | -         | 3         | 10        | -       | -         | -         |
| Wis.           | 1                     | 4         | U     | -         | -         | U         | -         | 11        | U       | -         | -         |
| W.N. CENTRAL   | 39                    | 36        | -     | 8         | 1         | -         | 15        | 15        | -       | -         | -         |
| Minn.          | 1                     | 1         | -     | -         | -         | -         | 7         | -         | -       | -         | -         |
| Iowa           | 7                     | 8         | -     | 3         | 1         | -         | 6         | 5         | -       | -         | -         |
| Mo.            | 28                    | 16        | -     | 1         | -         | -         | 1         | 1         | -       | -         | -         |
| N. Dak.        | -                     | -         | -     | -         | -         | -         | -         | -         | -       | -         | -         |
| S. Dak.        | 2                     | 4         | -     | -         | -         | -         | 1         | 1         | -       | -         | -         |
| Nebr.          | 1                     | 3         | -     | 4         | -         | -         | -         | 1         | -       | -         | -         |
| Kans.          | -                     | 4         | U     | -         | -         | U         | -         | 7         | U       | -         | -         |
| S. ATLANTIC    | 65                    | 49        | 2     | 7         | 8         | 2         | 38        | 46        | -       | -         | -         |
| Del.           | -                     | 1         | -     | -         | -         | -         | -         | -         | -       | -         | -         |
| Md.            | 4                     | 10        | -     | 1         | 2         | 1         | 13        | 20        | -       | -         | -         |
| D.C.           | -                     | 1         | U     | -         | 1         | U         | -         | -         | U       | -         | -         |
| Va.            | 11                    | 5         | 1     | 1         | 1         | -         | 1         | 7         | -       | -         | -         |
| W. Va.         | 1                     | 1         | -     | -         | -         | -         | -         | -         | -       | -         | -         |
| N.C.           | 12                    | 8         | 1     | 2         | 1         | 1         | 15        | 16        | -       | -         | -         |
| S.C.           | 6                     | 8         | -     | 3         | 2         | -         | 9         | 3         | -       | -         | -         |
| Ga.            | 11                    | 8         | -     | -         | -         | -         | -         | -         | -       | -         | -         |
| Fla.           | 20                    | 7         | U     | -         | 1         | U         | -         | -         | U       | -         | -         |
| E.S. CENTRAL   | 18                    | 34        | -     | 1         | 1         | -         | 12        | 15        | -       | -         | -         |
| Ky.            | 3                     | 6         | -     | -         | -         | -         | 7         | 4         | -       | -         | -         |
| Tenn.          | 7                     | 10        | -     | -         | -         | -         | 1         | 6         | -       | -         | -         |
| Ala.           | 7                     | 11        | -     | 1         | 1         | -         | 4         | 5         | -       | -         | -         |
| Miss.          | 1                     | 7         | -     | -         | -         | -         | -         | -         | -       | -         | -         |
| W.S. CENTRAL   | 19                    | 40        | -     | -         | 10        | -         | 3         | 22        | -       | -         | 1         |
| Ark.           | 1                     | 6         | -     | -         | -         | -         | 3         | 2         | -       | -         | -         |
| La.            | 12                    | 22        | U     | -         | -         | U         | -         | 2         | U       | -         | -         |
| Okla.          | 6                     | 10        | -     | -         | 1         | -         | -         | 3         | -       | -         | -         |
| Tex.           | -                     | 2         | -     | -         | 9         | -         | -         | 15        | -       | -         | 1         |
| MOUNTAIN       | 17                    | 42        | -     | 3         | 4         | 30        | 136       | 126       | -       | 1         | -         |
| Mont.          | -                     | -         | -     | -         | -         | 1         | 1         | -         | -       | -         | -         |
| Idaho          | 2                     | 5         | -     | -         | -         | 7         | 23        | 65        | -       | -         | -         |
| Wyo.           | -                     | 1         | U     | -         | -         | U         | -         | 1         | U       | -         | -         |
| Colo.          | 3                     | 11        | -     | -         | 2         | 11        | 69        | 19        | -       | -         | -         |
| N. Mex.        | 3                     | 7         | -     | 1         | N         | 6         | 24        | 7         | -       | -         | -         |
| Ariz.          | 6                     | 13        | -     | -         | -         | 4         | 14        | 16        | -       | -         | -         |
| Utah           | 3                     | 3         | -     | -         | 1         | 1         | 4         | 17        | -       | 1         | -         |
| Nev.           | -                     | 2         | -     | 2         | 1         | -         | 1         | 1         | -       | -         | -         |
| PACIFIC        | 113                   | 58        | 2     | 32        | 20        | 11        | 36        | 172       | -       | -         | -         |
| Wash.          | 5                     | 6         | -     | -         | -         | 9         | 14        | 10        | -       | -         | -         |
| Oreg.          | 13                    | 14        | N     | N         | N         | 1         | 13        | 3         | -       | -         | -         |
| Calif.         | 93                    | 31        | 2     | 31        | 16        | 1         | 7         | 150       | -       | -         | -         |
| Alaska         | -                     | 3         | -     | -         | 1         | -         | 2         | 1         | -       | -         | -         |
| Hawaii         | 2                     | 4         | -     | 1         | 3         | -         | -         | 8         | -       | -         | -         |
| Guam           | -                     | -         | U     | -         | -         | U         | -         | -         | U       | -         | -         |
| P.R.           | -                     | 2         | U     | -         | -         | U         | -         | -         | U       | -         | -         |
| V.I.           | -                     | U         | U     | -         | U         | U         | -         | U         | U       | -         | U         |
| Amer. Samoa    | -                     | U         | U     | -         | U         | U         | -         | U         | U       | -         | U         |
| C.N.M.I.       | -                     | U         | U     | -         | U         | U         | -         | U         | U       | -         | U         |

N: Not notifiable

U: Unavailable

-: no reported cases

**TABLE IV. Deaths in 122 U.S. cities,\* week ending  
February 26, 2000 (8th Week)**

| Reporting Area       | All Causes, By Age (Years) |       |       |       |      |    | P&I <sup>†</sup><br>Total | Reporting Area        | All Causes, By Age (Years) |       |       |       |      |     | P&I <sup>†</sup><br>Total |
|----------------------|----------------------------|-------|-------|-------|------|----|---------------------------|-----------------------|----------------------------|-------|-------|-------|------|-----|---------------------------|
|                      | All<br>Ages                | ≥65   | 45-64 | 25-44 | 1-24 | <1 |                           |                       | All<br>Ages                | ≥65   | 45-64 | 25-44 | 1-24 | <1  |                           |
| <b>NEW ENGLAND</b>   | 578                        | 443   | 85    | 33    | 4    | 13 | 72                        | <b>S. ATLANTIC</b>    | 1,090                      | 695   | 227   | 106   | 21   | 34  | 97                        |
| Boston, Mass.        | 156                        | 113   | 25    | 14    | 1    | 3  | 23                        | Atlanta, Ga.          | U                          | U     | U     | U     | U    | U   | U                         |
| Bridgeport, Conn.    | 39                         | 28    | 7     | 3     | -    | 1  | -                         | Baltimore, Md.        | 159                        | 96    | 36    | 22    | 3    | 2   | 11                        |
| Cambridge, Mass.     | 25                         | 21    | 3     | -     | -    | 1  | 2                         | Charlotte, N.C.       | 119                        | 80    | 22    | 12    | 2    | 3   | 19                        |
| Fall River, Mass.    | 31                         | 27    | 4     | -     | -    | -  | 3                         | Jacksonville, Fla.    | 145                        | 98    | 34    | 12    | 1    | -   | 5                         |
| Hartford, Conn.      | U                          | U     | U     | U     | U    | U  | U                         | Miami, Fla.           | 105                        | 72    | 18    | 13    | 2    | -   | 6                         |
| Lowell, Mass.        | 38                         | 33    | 4     | -     | -    | -  | 4                         | Norfolk, Va.          | 71                         | 48    | 16    | 4     | 2    | 1   | 3                         |
| Lynn, Mass.          | 8                          | 6     | -     | 2     | -    | -  | -                         | Richmond, Va.         | 84                         | 54    | 21    | 7     | 1    | 1   | 10                        |
| New Bedford, Mass.   | 35                         | 31    | 4     | -     | -    | -  | 3                         | Savannah, Ga.         | 52                         | 40    | 9     | 3     | -    | -   | 2                         |
| New Haven, Conn.     | 44                         | 34    | 5     | 2     | 1    | 2  | 7                         | St. Petersburg, Fla.  | 67                         | 46    | 10    | 6     | 5    | -   | 11                        |
| Providence, R.I.     | 77                         | 61    | 9     | 1     | 2    | 4  | 8                         | Tampa, Fla.           | 186                        | 133   | 37    | 12    | 4    | -   | 27                        |
| Somerville, Mass.    | 4                          | 3     | -     | 1     | -    | -  | 1                         | Washington, D.C.      | 102                        | 28    | 24    | 15    | 1    | 27  | 3                         |
| Springfield, Mass.   | 39                         | 28    | 6     | 5     | -    | -  | 6                         | Wilmington, Del.      | U                          | U     | U     | U     | U    | U   | U                         |
| Waterbury, Conn.     | 24                         | 17    | 6     | 1     | -    | -  | 2                         | <b>E. S. CENTRAL</b>  | 876                        | 623   | 170   | 46    | 18   | 18  | 101                       |
| Worcester, Mass.     | 58                         | 41    | 12    | 3     | -    | -  | 13                        | Birmingham, Ala.      | 173                        | 123   | 32    | 9     | 3    | 5   | 21                        |
| <b>MID. ATLANTIC</b> | 2,492                      | 1,811 | 446   | 156   | 44   | 34 | 145                       | Chattanooga, Tenn.    | 50                         | 37    | 8     | 4     | 1    | -   | 4                         |
| Albany, N.Y.         | 48                         | 34    | 9     | 3     | 1    | 1  | 2                         | Knoxville, Tenn.      | 82                         | 59    | 16    | 5     | -    | 2   | 11                        |
| Allentown, Pa.       | U                          | U     | U     | U     | U    | U  | U                         | Lexington, Ky.        | 71                         | 54    | 11    | 3     | 1    | 2   | 12                        |
| Buffalo, N.Y.        | 123                        | 88    | 20    | 9     | 2    | 3  | 11                        | Memphis, Tenn.        | 177                        | 119   | 45    | 6     | 4    | 3   | 23                        |
| Camden, N.J.         | 33                         | 18    | 9     | 6     | -    | -  | 1                         | Mobile, Ala.          | 99                         | 72    | 13    | 10    | 2    | 2   | 5                         |
| Elizabeth, N.J.      | 21                         | 17    | 4     | -     | -    | -  | -                         | Montgomery, Ala.      | 75                         | 58    | 12    | 3     | 2    | -   | 15                        |
| Erie, Pa.§           | 39                         | 32    | 7     | -     | -    | -  | 2                         | Nashville, Tenn.      | 149                        | 101   | 33    | 6     | 5    | 4   | 10                        |
| Jersey City, N.J.    | 52                         | 36    | 13    | 2     | -    | 1  | -                         | <b>W. S. CENTRAL</b>  | 1,705                      | 1,145 | 328   | 158   | 41   | 32  | 144                       |
| New York City, N.Y.  | 1,193                      | 868   | 214   | 79    | 18   | 14 | 44                        | Austin, Tex.          | 74                         | 53    | 10    | 9     | -    | 2   | 7                         |
| Newark, N.J.         | 72                         | 29    | 27    | 8     | 5    | 3  | -                         | Baton Rouge, La.      | 75                         | 62    | 6     | 6     | 1    | -   | 3                         |
| Paterson, N.J.       | 20                         | 14    | 3     | 1     | 2    | -  | 2                         | Corpus Christi, Tex.  | 62                         | 52    | 7     | 1     | 1    | 1   | 9                         |
| Philadelphia, Pa.    | 427                        | 307   | 76    | 34    | 9    | 1  | 31                        | Dallas, Tex.          | 182                        | 113   | 42    | 19    | 4    | 4   | 5                         |
| Pittsburgh, Pa.§     | 82                         | 56    | 19    | -     | 3    | 4  | 7                         | El Paso, Tex.         | 132                        | 85    | 32    | 10    | 1    | 4   | 4                         |
| Reading, Pa.         | 41                         | 32    | 5     | 3     | -    | 1  | 7                         | Ft. Worth, Tex.       | 135                        | 90    | 27    | 14    | 1    | 3   | 11                        |
| Rochester, N.Y.      | 126                        | 99    | 19    | 3     | 1    | 4  | 9                         | Houston, Tex.         | 388                        | 249   | 84    | 47    | 5    | 3   | 33                        |
| Schenectady, N.Y.    | 26                         | 22    | 4     | -     | -    | -  | 5                         | Little Rock, Ark.     | 90                         | 59    | 20    | 6     | 4    | 1   | 8                         |
| Scranton, Pa.§       | 45                         | 40    | 2     | 3     | -    | -  | 5                         | New Orleans, La.      | 72                         | 36    | 6     | 10    | 13   | 6   | 3                         |
| Syracuse, N.Y.       | 93                         | 78    | 9     | 2     | 3    | 1  | 15                        | San Antonio, Tex.     | 254                        | 183   | 44    | 19    | 6    | 2   | 30                        |
| Trenton, N.J.        | 33                         | 27    | 2     | 3     | -    | 1  | 4                         | Shreveport, La.       | 97                         | 67    | 20    | 8     | 2    | -   | 18                        |
| Utica, N.Y.          | 18                         | 14    | 4     | -     | -    | -  | -                         | Tulsa, Okla.          | 144                        | 96    | 30    | 9     | 3    | 6   | 13                        |
| Yonkers, N.Y.        | U                          | U     | U     | U     | U    | U  | U                         | <b>MOUNTAIN</b>       | 1,073                      | 747   | 203   | 71    | 24   | 27  | 78                        |
| <b>E. N. CENTRAL</b> | 2,273                      | 1,598 | 450   | 145   | 31   | 46 | 207                       | Albuquerque, N.M.     | 115                        | 75    | 30    | 7     | 1    | 2   | 7                         |
| Akron, Ohio          | 65                         | 46    | 15    | -     | 2    | 2  | 7                         | Boise, Idaho          | 43                         | 33    | 7     | 2     | -    | 1   | 5                         |
| Canton, Ohio         | 39                         | 32    | 3     | 3     | -    | 1  | 7                         | Colo. Springs, Colo.  | 57                         | 47    | 7     | -     | 3    | -   | 6                         |
| Chicago, Ill.        | 467                        | 296   | 106   | 45    | 10   | 8  | 56                        | Denver, Colo.         | 125                        | 77    | 23    | 15    | 3    | 7   | 9                         |
| Cincinnati, Ohio     | 106                        | 77    | 17    | 5     | -    | 7  | 11                        | Las Vegas, Nev.       | 240                        | 163   | 56    | 14    | 4    | 3   | 15                        |
| Cleveland, Ohio      | 157                        | 104   | 33    | 15    | 2    | 3  | 7                         | Ogden, Utah           | 31                         | 26    | 1     | 2     | 1    | 1   | 4                         |
| Columbus, Ohio       | 181                        | 132   | 38    | 8     | -    | 3  | 18                        | Phoenix, Ariz.        | 157                        | 102   | 26    | 14    | 7    | 7   | 15                        |
| Dayton, Ohio         | 133                        | 104   | 22    | 6     | -    | 1  | 15                        | Pueblo, Colo.         | 29                         | 26    | 3     | -     | -    | -   | 1                         |
| Detroit, Mich.       | 223                        | 138   | 54    | 20    | 7    | 3  | 20                        | Salt Lake City, Utah  | 100                        | 73    | 12    | 11    | 2    | 2   | 11                        |
| Evansville, Ind.     | 64                         | 49    | 14    | -     | 1    | -  | 4                         | Tucson, Ariz.         | 176                        | 125   | 38    | 6     | 3    | 4   | 5                         |
| Fort Wayne, Ind.     | 73                         | 51    | 14    | 3     | 2    | 3  | 2                         | <b>PACIFIC</b>        | 1,168                      | 864   | 194   | 64    | 19   | 23  | 122                       |
| Gary, Ind.           | 20                         | 10    | 3     | 6     | 1    | -  | -                         | Berkeley, Calif.      | 21                         | 16    | 2     | 2     | -    | 1   | 3                         |
| Grand Rapids, Mich.  | 66                         | 49    | 15    | 2     | -    | -  | 4                         | Fresno, Calif.        | 109                        | 84    | 17    | 6     | -    | 2   | 15                        |
| Indianapolis, Ind.   | 186                        | 132   | 30    | 14    | 3    | 7  | 14                        | Glendale, Calif.      | U                          | U     | U     | U     | U    | U   | U                         |
| Lansing, Mich.       | 41                         | 32    | 6     | 3     | -    | -  | 4                         | Honolulu, Hawaii      | 57                         | 40    | 9     | 4     | 2    | 2   | 3                         |
| Milwaukee, Wis.      | 124                        | 95    | 23    | 3     | 1    | 2  | 13                        | Long Beach, Calif.    | 63                         | 45    | 11    | 4     | 2    | 1   | 7                         |
| Peoria, Ill.         | 46                         | 36    | 8     | -     | 1    | 1  | 1                         | Los Angeles, Calif.   | U                          | U     | U     | U     | U    | U   | U                         |
| Rockford, Ill.       | 53                         | 41    | 9     | 3     | -    | -  | 2                         | Pasadena, Calif.      | 30                         | 19    | 6     | 2     | 2    | 1   | 1                         |
| South Bend, Ind.     | 51                         | 38    | 11    | 1     | -    | 1  | 4                         | Portland, Oreg.       | 137                        | 107   | 23    | 4     | 1    | 2   | 9                         |
| Toledo, Ohio         | 102                        | 78    | 16    | 5     | -    | 3  | 11                        | Sacramento, Calif.    | U                          | U     | U     | U     | U    | U   | U                         |
| Youngstown, Ohio     | 76                         | 58    | 13    | 3     | 1    | 1  | 7                         | San Diego, Calif.     | 150                        | 101   | 27    | 10    | 3    | 7   | 13                        |
| <b>W. N. CENTRAL</b> | 810                        | 597   | 130   | 50    | 18   | 15 | 76                        | San Francisco, Calif. | U                          | U     | U     | U     | U    | U   | U                         |
| Des Moines, Iowa     | 68                         | 59    | 5     | 3     | 1    | -  | 12                        | San Jose, Calif.      | 176                        | 127   | 33    | 12    | 3    | 1   | 22                        |
| Duluth, Minn.        | 31                         | 25    | 5     | 1     | -    | -  | 1                         | Santa Cruz, Calif.    | 30                         | 24    | 4     | 1     | -    | 1   | 2                         |
| Kansas City, Kans.   | 35                         | 21    | 5     | 7     | 2    | -  | 2                         | Seattle, Wash.        | 122                        | 93    | 15    | 11    | 1    | 2   | 16                        |
| Kansas City, Mo.     | 87                         | 64    | 14    | 4     | 4    | 1  | 5                         | Spokane, Wash.        | 48                         | 38    | 6     | 3     | -    | 1   | 7                         |
| Lincoln, Nebr.       | 45                         | 37    | 6     | 1     | -    | 1  | 3                         | Tacoma, Wash.         | 225                        | 170   | 41    | 5     | 5    | 2   | 24                        |
| Minneapolis, Minn.   | 183                        | 131   | 35    | 12    | 3    | 2  | 22                        | <b>TOTAL</b>          | 12,065 <sup>†</sup>        | 8,523 | 2,233 | 829   | 220  | 242 | 1,042                     |
| Omaha, Nebr.         | 74                         | 50    | 15    | 5     | 1    | 3  | 5                         |                       |                            |       |       |       |      |     |                           |
| St. Louis, Mo.       | 97                         | 71    | 15    | 7     | 1    | 3  | -                         |                       |                            |       |       |       |      |     |                           |
| St. Paul, Minn.      | 90                         | 74    | 11    | 3     | -    | 2  | 15                        |                       |                            |       |       |       |      |     |                           |
| Wichita, Kans.       | 100                        | 65    | 19    | 7     | 6    | 3  | 11                        |                       |                            |       |       |       |      |     |                           |

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 or more.

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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