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# Evaluation of Bacillus anthracis Contamination Inside the Brentwood Mail Processing and Distribution Center District of Columbia, October 2001 

During October 19-21, 2001, four postal workers at the Brentwood Mail Processing and Distribution Center in the District of Columbia were hospitalized with inhalational anthrax; two of the workers died. The building, which was closed on October 21, was believed to have been contaminated by a letter containing Bacillus anthracis spores sent to the Hart Senate Office Building (HSOB) that had passed through the postal facility on October 12. A second contaminated letter addressed to another U.S. senator that was processed through the same mail sorter and sort run as the first letter was discovered on November 17. This report describes the results of CDC's evaluation of B. anthracis in the facility, which showed widespread contamination of the facility and suggest that wipe samples and high efficiency particulate air (HEPA) vacuum samples complement each other in assessing contamination.

A U.S. Postal Service investigation indicated that, on late October 11 or early October 12 , the letter sent to one U.S. senator entered the building in a mailbag through a loading dock near the Postal Vehicle Transportation Office (Figure 1). The bag was opened and the contents separated into bar-coded trays and moved by all-purpose carrier (APC) to a large tray-sorting machine. The APC tray then went to delivery bar-code sorter (DBCS)* 17, where the letter was manually fed into the machine at 7:10 a.m. The letter was then transported by APC to the government mail section of the facility and was transported to HSOB at approximately noon on October 12. Sometime during 8 a.m.-9:40 a.m., the DBCS machine that processed the letter was opened, and compressed air at 70 lbs . per square inch was used to clean debris and dust from conveyor belts and optical reading heads.

On October 18, before recognition of inhalational anthrax cases, a Postal Service contractor collected 29 swab samples from the mail sorting area of the Brentwood facility. On October 20, CDC initiated an investigation of the Brentwood facility. As part of this investigation, CDC extended the evaluation of $B$. anthracis contamination in the Brentwood facility.

On October 23, CDC investigators and Postal Service contractors selected and marked sampling locations. Sampling for B. anthracis spores began on October 24 using three

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## U.S. DEPARTMENT OF HEALTH \& HUMAN SERVICES

FIGURE 1. Diagram of Brentwood Mail Processing and Distribution Center and location of positive identification of Bacillus anthracis spores - District of Columbia, October 2001

- Positive Wipe Locations

A Postal Vehicle Transportation Office
B Express Mail Room
C Customer Service Area
D Government Mail

techniques: surface wipe sampling, surface vacuum sampling, and air sampling (1). The evaluation focused on the path of the HSOB letter through the facility and the work locations of the known anthrax patients. To evaluate the extent of B. anthracis contamination, additional samples were collected throughout the facility, including the administrative areas on the second level and the customer service area at the front of the building. Wipe samples were submitted to CDC for culture and analysis. Vacuum and air samples were analyzed by a contract laboratory. Suspect culture colonies were screened using standardized Laboratory Response Network (LRN) Level A testing procedures for identification of $B$. anthracis (2) and were confirmed by direct fluorescent antibody staining and gamma phage lysis (3).

## Surface Wipe Sampling

Selected surfaces (e.g., table or desk tops, sorting machines, sorting bins, control consoles of sorting machines, and ventilation ducts) were sampled using moistened sterile cotton gauze pads. Cultures from samples were reported as either positive or negative for colonies of $B$. anthracis.

Twelve days after the contaminated letter sent to HSOB passed through the facility, eight ( $7 \%$ ) of 114 surface wipe samples were positive for isolates of B. anthracis. Four of the positive samples were collected on and around DBCS machine 17 , which processed

Brentwood Facility - Continued
the contaminated letters, and one was from an air supply duct approximately 12 feet above the machine. The remaining three positive samples were from areas on distant DBCS machines. None of the wipe samples collected in the administration area or in the customer service area was positive for isolates of $B$. anthracis. All wipe samples collected in the Postal Vehicle Transportation office, express mail room, and the government mail area were negative.

## Surface Vacuum Sampling

Surface vacuum samples were collected by inserting a cone-shaped filtering "sock" (dust collection trap) into the nozzle of a HEPA vacuum cleaner with a high-efficiency ( 0.1 $\mu \mathrm{m}$ pore size) filter. The vacuum nozzle was mechanically cleaned with an alcohol wipe between samples to dislodge spores and prevent cross-contamination. Several grams of dust were collected inside each vacuum sock (1) and were submitted to a contract laboratory for culture and analysis. Results were reported as number of colony forming units per gram of material collected (CFU/g); a CFU can represent a single B. anthracis spore or an aggregate of several spores and may not correlate directly to the number of spores present.

Of 39 vacuum dust samples, B. anthracis was isolated in 27 (69\%). Reported B. anthracis concentrations in positive samples ranged from $3 \mathrm{CFU} / \mathrm{g}$ to 9.7 million CFU/g. All eight samples collected in the government mail area were positive. No wipe samples collected in this area were positive. All samples from the high-speed sorting machines and from areas near DBCS sorting machines were positive ( $8,700 \mathrm{CFU} / \mathrm{g}$ to 2 million CFU/g). A relatively high concentration of spores was found in the sample collected on the overnight hot mail sorting bin ( $13,000 \mathrm{CFU} / \mathrm{g}$ ), which was near the end of DBCS machine 5 that had a positive wipe sample collected inside it but had not processed the contaminated letters addressed to the U.S. senators. Concentrations on the loading dock and in the express mail room were relatively low. Although the concentrations tended to decrease with distance from the DBCS machine that processed both letters, spores also were found in areas far from DBCS machines. The three samples collected in the second floor administration area and two samples collected in the customer service area were negative. The vacuum samples indicated wide distribution of $B$. anthracis spores, with the greatest concentrations associated with work areas along the path of the HSOB letter.

## Air Sampling

Air samples were collected on open-faced 37 mm mixed cellulose ester filters ( $0.8 \mu \mathrm{~m}$ pore size) in polystyrene cassettes attached to sampling pumps operated at 2.0 liters per minute. The sampling pumps were placed in fixed locations throughout the facility for approximately 30 hours. Results were reported as positive or negative for isolates of B. anthracis.

Twelve air samples for airborne B. anthracis spores were collected 12 days after the contaminated letters were processed, which was 4 days after the building was closed and the ventilation system was turned off. The ventilation system was not operating during the sampling period. All air samples were negative for $B$. anthracis, indicating that no airborne spores were detectable during the sampling period.
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Brentwood Facility - Continued
Editorial Note: The four inhalational anthrax cases among Brentwood facility employees indicate that aerosolization of $B$. anthracis occurred at the facility. The extent to which environmental sampling can detect potential aerosol dispersion and widespread contamination is uncertain. In the absence of positive air samples, contamination detected by wipe or vacuum sampling away from the path of the known source of contamination (i.e., the letters addressed to the two U.S. senators) could indicate either airborne dispersion from that source or contamination from a different, unrecognized source (e.g., another contaminated letter). However, even without positive air samples, two patterns of sampling results are particularly useful as evidence of possible aerosolization. Either contamination of surfaces such as air ducts and rafters, which would be unlikely to have contact with a contaminated source, or the dispersion pattern of multiple positive samples suggest the likelihood of aerosolization.

Environmental sampling results in this investigation indicated widespread contamination from the letters processed for delivery to the offices of two U.S. senators. Most vacuum sample results were positive, indicating B. anthracis spore contamination in areas that were negative by wipe testing, and this contamination was found throughout the mail processing area. One possible explanation for this difference may be the use of a cotton wipe material, which subsequently was found to decrease spore recoveries; CDC investigators now use rayon-tipped swabs or rayon wipes moistened with sterile water (1). Only the second level administrative area and the customer service area appeared to be free of spores by all methods. The air sampling results indicated that airborne spores were not detectable during the sampling period. However, these samples were not collected under normal airflow conditions when mail was being processed or when dust was blown from machinery with compressed air. The use of compressed air to clean sorting machines may have contributed to the aerosolization and dispersion of B. anthracis spores in the Brentwood facility. Therefore, HEPA vacuum cleaning has been substituted for blowing for cleaning sorting machines.

Although sampling with surface wipes has been the standard sampling method and has advantages for sampling some small surfaces, surface wipes have several limitations. Wipe samples might miss minimally contaminated surfaces or smaller, discrete contaminated areas. Also, the method of extracting B. anthracis from the wipe samples might yield different results than the extraction method for vacuum sock samples. Because it is not feasible to wipe-sample all surfaces within a building, vacuum samples provide an important tool for maximizing the surfaces that can be evaluated during an investigation. The vacuum sample locations at the Brentwood facility were selected to collect large quantities of dust and to cover broader surface areas than wipes. Although cross-contamination between vacuum samples is possible, precleaning of the vacuum nozzle before each sample and use of a high-efficiency filter appeared to be effective because negative vacuum samples were interspersed among heavily contaminated samples.

The results of the environmental sampling at the Brentwood facility might be used to assess the extent of contamination and are consistent with the aerosolization indicated by the cases of inhalational anthrax. They also should help guide cleanup efforts and can serve as a baseline for follow-up environmental assessments after the building has been cleaned. In addition, these results suggest that vacuum sampling is a useful complement to wipe surface samples, particularly when widespread contamination is suspected. CDC continues to assess optimal strategies and methods for sampling of contamination by B. anthracis. Current guidelines for collecting environmental samples are available at http://www.bt.cdc.gov/DocumentsApp/Anthrax/11132001/final42.asp.

## Brentwood Facility - Continued

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## Progress Toward Interrupting Indigenous Measles Transmission Region of the Americas, January-November 2001

In 1994, countries in the Region of the Americas set a goal of interrupting indigenous measles transmission by the end of 2000 (1). During 1990-2000, measles cases declined $99.3 \%$, from approximately 250,000 to 1,754 (Figure 1). During 2000, transmission occurred in five of 41 countries that report to the Pan American Health Organization (PAHO) (Argentina, Bolivia, Brazil, the Dominican Republic, and Haiti), and confirmed cases were reported in $16(<1 \%)$ of 12,010 municipalities (2-4). During 2001, measles transmission occurred in the Dominican Republic, Haiti, and Venezuela; no outbreaks were reported in Argentina, Bolivia, or Brazil. This report summarizes measles circulation patterns and efforts to interrupt measles transmission in the Americas during 2001.

FIGURE 1. Number of reported and confirmed measles cases* and percentage of routine measles vaccination coverage among infants, by year - Region of the Americas, 1990-2001 ${ }^{+}$


[^1]Measles Transmission - Continued
The measles vaccination strategy recommended by PAHO includes a one-time national "catch-up" campaign for all children aged 1-14 years, routine "keep-up" vaccination for infants aged 1 year, and national "follow-up" campaigns every 3-5 years for all children aged 1-4 years, regardless of measles vaccination history (5). Thirty-nine ( $95 \%$ ) of the 41 countries that report to PAHO conducted catch-up campaigns during 1989-1995 and follow-up campaigns since 1994. Routine coverage increased from $80 \%$ in 1994 to $94 \%$ in 2000 but varied by country from $75 \%$ to $99 \%$; coverage was lowest in Colombia ( $75 \%$ ), Haiti ( $80 \%$ ), Belize ( $82 \%$ ), Venezuela and Costa Rica ( $84 \%$ ), Guyana ( $86 \%$ ), Jamaica ( $88 \%$ ), and the Dominican Republic ( $88 \%$ ). Vaccination efforts also have been focused on populations at high risk for measles transmission (e.g., health-care workers, military personnel, teachers, university students, workers in the tourist industry, persons living or working in prisons and large factories, and young adults from rural areas who have moved to cities) in Argentina, Bolivia, Chile, the Dominican Republic, Haiti, Peru, Uruguay, and Venezuela (6).

During January-mid-November 2001, a total of 423 confirmed measles cases were reported in the Americas, the lowest number of cases for the first 46 weeks of any year since implementation of the eradication program in 1996 and a $65 \%$ decrease compared with the 1,202 cases reported during the same period in 2000 (Figure 2). The number of cases reported annually has decreased substantially since the resurgence that occurred in Argentina and Brazil during 1997 (7). In 1998, a total of 14,332 confirmed cases were reported from 17 (41\%) of the 41 PAHO-reporting countries. In 1999, a total of 3,209 confirmed cases were reported from 11 countries, $78 \%$ fewer cases than in 1998 and $94 \%$ fewer than in $1997(7,8)$. The 1,754 cases reported during 2000 was the lowest number since the goal to interrupt measles transmission was set in 1994 (Figure 1) (7).

FIGURE 2. Number of measles cases, by week and month - Region of the Americas, January-November 2001*


[^2]Measles Transmission - Continued
During 1999-2000, a total of 528 confirmed measles cases were reported in the Dominican Republic. During January-mid-November 2001, a total of 113 (27\%) of the 423 confirmed cases in the region were reported from 18 provinces. The highest attack rates occurred among children aged < 5 years (range: from two cases per 100,000 children aged $1-4$ years to 18 cases per 100,000 children aged $6-11$ months), children aged 5-9 years (one case per 100,000), and adults aged 20-29 years (two cases per 100,000). As of November 17, 2001, a total of 1,097 suspected cases of measles have been investigated; the last patient with a confirmed case of illness had symptom onset during May 2001.

In Haiti, no confirmed cases were reported during 1998-1999. In 2000, an outbreak probably caused by measles imported from the Dominican Republic began in Artibonite; 992 ( $57 \%$ ) of 1,754 confirmed cases in the region were reported. From January 2000 to April 2001, fixed-post vaccination campaigns for all vaccines were conducted nationwide; coverage ranged from $45 \%$ to $65 \%$. A house-to-house vaccination campaign was conducted in the most affected neighborhood of the country, Delmas, Port au Prince, interrupting transmission in that municipality. During January 1-mid-November 2001, Haiti reported 158 ( $37 \%$ ) of the 423 confirmed cases in the region; $49 \%$ of the cases occurred among children aged $<5$ years. A nationwide house-to-house poliomyelitis and measles vaccination campaign began in September 2001. Active case finding is under way, including house-to-house surveillance in all municipalities and a $\$ 100$ reward for identifying laboratory-confirmed cases. No confirmed measles cases have been reported since the end of September 2001 (9).

In Venezuela during 2000, an outbreak of 22 confirmed cases among preschool and school-aged children occurred in Zulia, the most populous state, which borders Colombia. During January-June 2001, eight cases were classified as clinically confirmed, and during August-mid-November, 30 confirmed cases linked to an importation from Europe were confirmed (Figure 2). Of these 30 cases, 19 occurred in two municipalities in Falcon and 11 occurred in two municipalities in Zulia. Seventeen (57\%) occurred among children aged $<5$ years, 12 ( $40 \%$ ) among persons aged 22-45 years, and one among a child aged 8 years. Among children aged <5 years, two (12\%) had received measles vaccine.

Following the recommendations of a PAHO-sponsored evaluation of Venezuela's National Immunization Program, the government is implementing a nationwide, house-to-house, follow-up measles and rubella vaccination campaign among children aged 1-4 years. The campaign started in November 2001 and will end in January 2002. In the campaign's first week, 878,000 children ( $39 \%$ of the target population of approximately 2.3 million) were vaccinated.

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Editorial Note: The World Health Organization (WHO) has estimated that 777,000 children died as a result of measles during 2000. During 1997-1998, approximately 100 measles-related deaths were reported in Argentina and Brazil, most among unvaccinated infants and preschool-aged children. Vaccinating poor children against measles

Measles Transmission - Continued
substantially improves their long-term chances for survival (10). During 1990-2000, implementation of national vaccination and surveillance programs reduced measles incidence by $99 \%$ (5). Haiti and Venezuela are the last countries in the Americas where measles is endemic.

Surveillance data and results of molecular testing by PAHO's measles laboratory network demonstrate that measles can be imported to measles-free countries from countries where measles is endemic; therefore, all countries in the region must continue to implement vaccination and surveillance strategies. All countries in the Americas must maintain the highest possible population immunity (i.e., $\geq 95 \%$ among infants and children) and must strengthen surveillance to detect importations. In addition, countries must target vaccination efforts to susceptible adolescents and young adults who are at risk for exposure to measles.

In all countries of the Americas, the elimination of measles will require improving technical and managerial capabilities such as maintaining the cold chain and the local capacity to plan and conduct vaccination campaigns on a regular basis (once every 3-5 years). In countries that report adequate routine coverage, local data need to be verified to identify areas where coverage persists at low levels. Even so, ongoing transmission of measles probably would be detected in the Americas as a result of intense surveillance and active case finding at health-care centers in high-risk communities. PAHO is implementing standard supervisory instruments for monitoring vaccination coverage, investigating measles outbreaks, and validating routine surveillance. In addition, experience in the Americas has demonstrated that house-to-house vaccination is the most efficient method of vaccinating persons living in high-risk and hard-to-reach areas. During measles outbreaks in Haiti and Bolivia, door-to-door vaccination was essential in reaching target coverage levels.

The importations of measles virus in the Americas during 2001 underscore the importance of controlling measles in other regions of the world; therefore, PAHO has encouraged other WHO regions to accelerate their measles control programs. In March 2001, WHO and United Nations Children's Fund (UNICEF) announced a joint initiative to decrease by $50 \%$ the number of global measles deaths by 2005. This is an important step toward a concerted effort to accelerate global measles control.

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## Rubella Outbreak - Arkansas, 1999

Rubella is a viral disease that usually presents as a mild febrile rash illness in adults and children; however, $20 \%-50 \%$ of infected persons are asymptomatic. Rubella can have severe adverse effects on the fetuses of pregnant women who contract the disease during the first trimester of pregnancy, causing a wide range of congenital defects known as congenital rubella syndrome (CRS). The primary objective of the rubella vaccination program is to prevent intrauterine rubella infection. The primary strategies for rubella control in the United States are universal childhood vaccination, prenatal screening of pregnant women for rubella immunity, and vaccinating rubella-susceptible women postpartum. After the licensure of rubella vaccine in 1969, the incidence of rubella and CRS decreased $99 \%$ by 1997 (1). However, outbreaks continue to occur ( 2,3 ). During September 7-October 26, 1999, a total of 12 cases of rubella were confirmed in three Arkansas counties. This report describes this outbreak, which prompted reimplementation of routine rubella control and prevention measures. These included prenatal screening for rubella immunity and postnatal vaccination of rubella-susceptible women and the initiation of prevention and control activities in foreign-born populations that are less likely to be vaccinated.

On September 7, a pregnant woman aged 23 years presented to a public health clinic in Fort Smith, Sebastian County, Arkansas, with rash and fever. The woman was from Mexico and had lived in Arkansas for 1 year before onset of illness. She later delivered a stillborn infant with pathologic findings compatible with intrauterine rubella infection. The index patient was a household contact of a Mexican aged 20 years who also was confirmed as infected with rubella by EIA testing. Both patients worked in a poultry processing plant in Fort Smith.

Outbreak investigators interviewed household and workplace contacts, suspected patients, and potentially exposed pregnant women and tested them for rubella IgG and lgM antibodies. An additional 10 cases were confirmed by laboratory testing (Figure 1) in this and two other counties. A definitive laboratory diagnosis or epidemiologic link could not be established for an additional 14 patients (seven meeting the case definition for suspected and seven for probable rubella). Among the 12 confirmed cases, the median age was 23 years (range: $18-34$ years); 10 ( $83 \%$ ) were Hispanic, nine ( $75 \%$ ) were foreign-born, and six ( $50 \%$ ) were women. All six female patients were pregnant, and one became infected during the first trimester of pregnancy. Ten (83\%) patients worked in poultry processing plants; the index patient and seven others worked at the same plant in Fort Smith. Nine of these 10 patients were Hispanic and were foreign-born (Mexico and El Salvador).

Screening of pregnant women for rubella immunity was not part of routine prenatal care in Arkansas' public health clinics when this outbreak occurred. Because the index patient and other potential patients exposed persons in the clinic waiting room, and

Rubella Outbreak - Continued
FIGURE 1. Number of probable, suspected, and confirmed rubella cases*, by week and month of onset - Arkansas, 1999


* Suspected=Any generalized rash illness with acute onset in persons residing in the affected counties; Probable=Meets the clinical case definition, has no or noncontributory serologic or virologic testing, and is not epidemiologically linked to a laboratory-confirmed case; Confirmed=Laboratory confirmed or meets the clinical case definition and is epidemiologically linked to a laboratory-confirmed case.
because the proportion of rubella-susceptible pregnant women attending the clinic was unknown, a serosusceptibility survey was conducted at the clinic during September 23October 29. A questionnaire was administered to and serum specimens were taken from 155 women consecutively attending the clinic and tested for rubella $\operatorname{IgG}$ and $\operatorname{lgM}$. Of the 155 women tested, 79 ( $51 \%$ ) were Hispanic, 64 ( $41 \%$ ) were white, five were black ( $3 \%$ ), three ( $2 \%$ ) were Asian, and four (3\%) were of unknown race/ethnicity. Seventy-three ( $47 \%$ ) women were foreign-born; 72 ( $99 \%$ ) were born in Central America and Mexico. The median age was 23 years (range: 15-43 years). Of the 155 women, $46(32 \%)$ reported a history of rubella vaccination, 25 (17\%) had not been vaccinated, $74(51 \%)$ did not know their rubella vaccination status, and no data were available for the remaining 10 ( $6 \%$ ). In comparison with the relatively low number of women with a selfreported history of rubella vaccination, 134 ( $86 \%$ ) women had positive test results for rubella $\lg$, 14 ( $9 \%$ ) had negative test results, and seven ( $5 \%$ ) had equivocal or missing test results. No association was found between IgG-positivity and nationality or history of vaccination. Of the 21 women who had equivocal or negative results, 11 ( $52 \%$ ) reported a previous delivery in the United States, and 19 ( $90 \%$ ) missed at least one opportunity for rubella vaccination.

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Rubella Outbreak - Continued
Editorial Note: The findings in this report highlight the absence of routine, recommended prevention and control efforts in the state and the emergence of Hispanic, foreign-born persons as the main reservoirs of rubella virus in the United States. Prenatal screening followed by postpartum vaccination against rubella is essential for the control and elimination of CRS. Although recommended by the American College of Obstetricians and Gynecologists and the Advisory Committee on Immunization Practices (4), prenatal screening for rubella was discontinued in Arkansas public health clinics during the early 1980s because of fiscal constraints. In the absence of routine prenatal screening for rubella antibodies, the immune status of pregnant women potentially exposed to rubella virus was unknown. In the United States, prenatal screening and postpartum vaccination might prevent an estimated $50 \%$ of all CRS cases (5).

Based on supplementary data reported through the national notifiable diseases surveillance system in the United States, rubella primarily affects foreign-born Hispanic adults. Among rubella patients with known ethnicity in the United States, the proportion of Hispanics increased from $19 \%$ in 1992 to $79 \%$ in 1998, compared with $83 \%$ of patients in this outbreak. In the affected plant in Fort Smith, a large proportion of the workforce was Hispanic, and many of these were born and raised abroad. In Latin America, many countries have only recently introduced rubella into their routine childhood vaccination programs. For immigrants entering the United States, vaccination efforts focus on preschool-aged children and students; adults are not routinely screened or vaccinated. To eliminate rubella and CRS in the United States, further control efforts are needed to identify and vaccinate clusters of rubella-susceptible adults and to ensure nationwide prenatal rubella screening and postpartum vaccination of rubella-susceptible women.

As a result of this outbreak, the Arkansas Department of Health (ADH), in collaboration with employers, implemented additional control efforts that focused on workplace vaccination. ADH implemented a measles-mumps-rubella (MMR) vaccine screening policy at a local employment agency that supplied temporary help for the poultry processing companies. Potential employees were required to show proof of a previous MMR vaccination or receive MMR vaccine before employment. In addition, ADH recommended that employers of large numbers of foreign-born persons provide vaccine at the plant site and offered clinics to any industry that employed large numbers of foreignborn persons in Arkansas.

ADH has reimplemented routine screening for rubella immunity in all maternity and family planning clinics. Susceptible ADH maternity patients are identified routinely and offered MMR vaccine postpartum, and family planning patients are offered MMR vaccine immediately with appropriate counseling. These measures have resulted in substantial increases in rubella seropositivity rates for pregnant women in ADH clinics. Control efforts such as these in conjunction with proven routine measures are necessary to eliminate indigenous rubella and CRS in the United States.

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## Updated Recommendations on the Use of Pneumococcal Conjugate Vaccine in a Setting of Vaccine Shortage Advisory Committee on Immunization Practices

In September 2000, CDC published an interim vaccination schedule recommended by the Advisory Committee on Immunization Practices (ACIP) to be used during a pneumococcal conjugate vaccine shortage that was anticipated to be brief ( 1,2 ). Because the duration of the shortage has been longer and the severity has been greater than anticipated, ACIP has revised these recommendations to health-care providers who had been advised to conserve vaccine by decreasing the number of doses administered to healthy infants rather than to leave some infants unvaccinated. For infants who receive their first dose before age 6 months, vaccination with a maximum of 3 doses is recommended; the fourth dose should be deferred. All health-care providers should reduce the number of vaccine doses used and ordered, regardless of their current supply, so that vaccine is more widely available until supplies are adequate.

Because of greater-than-expected demand, vaccine has been back ordered for the public sector throughout most of 2001. In August, the situation worsened when facility and product testing-related limitations at the manufacturer's production sites halted distribution for several weeks. Under a full vaccination schedule, approximately 1.5 million doses are needed per month; the manufacturer estimates that $90 \%$ of the doses are used for the 4-dose infant vaccination series, and 10\% are used for catch-up vaccination. During September, approximately 700,000 doses were distributed (47\% of the 4dose infant schedule), and in October, approximately 600,000 doses were distributed (40\%). The manufacturer anticipates the distribution of approximately 1.2 million doses per month during November 2001-March 2002 ( $86 \%$ ) and approximately 2.0 million doses per month during April 2002-mid-2002 (142\%).

Until adequate supplies are available, ACIP recommends the following:

1. Vaccine should be administered to high-risk children aged $<5$ years as recommended by ACIP in October 2000 ( 1 ), including children with sickle cell disease and other hemoglobinopathies; anatomic asplenia; chronic diseases (e.g., chronic cardiac and pulmonary disease, and diabetes); cerebrospinal fluid leak; human immunodeficiency virus infection and other immunocompromising conditions; immunosuppressive chemotherapy or long-term systemic corticosteroid use, and children who have undergone solid organ transplantation.
2. Healthy infants and children aged $<24$ months should receive a decreased number of pneumococcal conjugate vaccine doses on the basis of the age at which vaccination is initiated and the estimated amount of vaccine available to the health-care provider's practice (Table 1). On the basis of birth, cohort size and recent experience with vaccine supply, if health-care providers estimate a shortfall of $<25 \%$ of the 4 -dose infant schedule, a moderate shortage schedule is recommended. If estimates suggest a greater shortfall, the severe shortage schedule is recommended. If shortages are estimated to be more severe ( $>50 \%$ ), health-care providers should set infant vaccination priorities based on the assessment of risk, deferring infants at lowest risk. Demographic risk factors for invasive infections include being black or American Indian (1); exposure risk factors include not breastfeeding and attendance at out-of-home child care (3).

Notices to Readers - Continued
TABLE 1. Updated recommendations for pneumococcal conjugate vaccine use among healthy children during moderate and severe shortages - Advisory Committee on Immunization Practices, 2001

| Age at first vaccination | No shortage* | Moderate shortage | Severe shortage |
| :---: | :---: | :---: | :---: |
| <6 months | 2, 4, 6, and 12-15 months | 2,4 , and 6 months (defer 4th dose) | 2 doses at 2-month interval in 1st 6 months of life (defer 3rd and 4th doses) |
| 7-11 months | 2 doses at 2-month interval; 12-15 month dose | 2 doses at 2-month interval; 12-15 month dose | 2 doses at 2-month interval (defer 3rd dose) |
| 12-23 months | 2 doses at 2-month interval | 2 doses at 2-month interval | 1 dose (defer 2nd dose) |
| >24 months | 1 dose should be considered | No vaccination | No vaccination |
| Reduction in vaccine doses used ${ }^{\dagger}$ |  | 21\% | 46\% |
| * The vaccine schedule for no shortage is included as a reference. Providers should not use the no shortage schedule regardless of their vaccine supply until the national shortage is resolved. <br> ${ }^{\dagger}$ Assumes that approximately $85 \%$ of vaccine is administered to healthy infants beginning at age $<7$ months; approximately $5 \%$ is administered to high-risk infants beginning at age $<7$ months; and approximately $10 \%$ is administered to healthy children beginning at age 7 to 24 months. Actual vaccine savings will depend on a provider's vaccine use. |  |  |  |

Limited data support a 2-dose schedule among infants; however, this regimen is preferable to vaccinating some children with 3 doses and not vaccinating others. Efficacy data from a randomized controlled trial prelicensure suggest that 1 or 2 doses of pneumococcal conjugate vaccine are protective during the 2-month interval before the next dose with a point estimate of $86 \%$ efficacy but a $95 \%$ confidence interval that includes zero (4). Immunogenicity data indicate increases in antibody titer following 2 doses for all vaccine serotypes except 6B (5). For all serotypes, 2 doses of conjugate vaccine probably increase antibody avidity and induce immunologic memory that is boosted by subsequent antigenic exposure. Acceptable 2-dose regimens include vaccination at ages 2 and 4 months, 2 and 6 months, or 4 and 6 months. The major advantage of regimens that begin at age 2 months is earlier provision of protection. Immunogenicity may be improved by increasing the interval between doses and vaccinating at ages 2 and 6 months or by vaccinating at ages 4 and 6 months. "Carrier priming" has been documented with the CRM $_{197}$ Haemophilus influenzae type b conjugate vaccine ( 6 ), but the impact has not been evaluated for pneumococcal conjugate vaccine. Although immunogenicity would be greater if pneumococcal conjugate vaccination were deferred until after age 6 months (e.g., ages 7 and 9 months), this regimen would leave younger infants unprotected and would require additional vaccination visits.
3. Health-care providers should maintain a list of children for whom conjugate vaccine has been deferred so that it can be administered when the supply allows. The highest priority for vaccination among children who have been deferred is infants vaccinated with 2 doses. Infants who have received 3 doses and are eligible for a fourth dose would be a second priority group.

## Notices to Readers - Continued

4. Pneumococcal polysaccharide vaccine is not licensed or recommended for children aged <2 years. Although a study indicated that administration of this vaccine at age 15-18 months may substantially boost antibody levels among children primed with 3 doses of conjugate vaccine (University of Chicago, unpublished data, 1995), this study did not use the licensed conjugate preparation. ACIP recommends additional study to evaluate the immune response to a polysaccharide vaccine booster dose among children aged 12-15 months.
Because data are limited on the long-term efficacy of a 3-dose or 2-dose vaccine regimen for young infants, health-care providers are encouraged to report invasive pneumococcal disease following pneumococcal conjugate vaccine to CDC through state health departments. If pneumococcal isolates are available from vaccinated children, CDC can perform serotyping to determine whether it is a type included in the vaccine. Additional information about this study is available at http://www.cdc.gov/nip/homehcp.htm; other information is available at CDC's Respiratory Diseases Branch, telephone 404-639-2215; fax 404-639-3970.

## References

1. CDC. Preventing pneumococcal disease among infants and young children: recommendations of the Advisory Committee on Immunization Practices. MMWR 2000; 49(no. RR-9).
2. CDC. Decreased availability of pneumococcal conjugate vaccine. MMWR 2001;50:783-4.
3. Levine OS, Farley M, Harrison LH, Lefkowitz L, McGeer A, Schwartz B. Risk factors for invasive pneumococcal disease in children: a population-based case-control study in North America. Pediatr 1999;103:E28.
4. Black S, Shinefeld H, Fireman B, et al. Efficacy, safety, and immunogenicity of heptavalent pneumococcal conjugate vaccine in children. Pediatr Infect Dis J 2000;19:187-95.
5. Rennels MB, Edwards KM, Keyserling HL, et al. Safety and immunogenicity of heptavalent pneumococcal vaccine conjugated to CRM $_{197}$ in United States infants. Pediatrics 1998;104:604-11.
6. Granoff DM, Rathore MH, Holmes SJ, et al. Effect of immunity to the carrier protein on antibody responses to Haemophilus influenzae type b conjugate vaccines. Vaccine 1993;11(Suppl 1):S46-S51.

## Notice to Readers

## Additional Options for Preventive Treatment for Persons Exposed to Inhalational Anthrax

Many persons who were exposed to inhalational anthrax in the recent bioterrorismrelated anthrax attacks have or are concluding their 60-day course of antimicrobial prophylaxis. Some persons, especially those who were exposed to high levels of anthrax spores, might want to take additional precautions. The U.S. Department of Health and Human Services (DHHS) is providing two additional options beyond the 60-day antimicrobial prophylaxis course: an extended 40-day course of antimicrobial prophylaxis and investigational postexposure treatment with anthrax vaccine.

The three preventive options for persons with risks for inhalational anthrax are 1) 60 days of antimicrobial prophylaxis, accompanied by monitoring for illness; 2 ) 40 additional days of antimicrobial prophylaxis (intended to provide protection against the theoretical

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending December 15, 2001, with historical data


* No measles or rubella cases were reported for the current 4-week period yielding a ratio for week 50 of zero (0).
${ }^{\dagger}$ Ratio of current 4 -week total to mean of 154 -week totals (from previous, comparable, and subsequent 4 -week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending December 15, 2001 ( 50 th Week)*

|  | Cum. 2001 |  | Cum. 2001 |
| :---: | :---: | :---: | :---: |
| Anthrax | 15 | Poliomyelitis, paralytic | - |
| Brucellosis ${ }^{\dagger}$ | 90 | Psittacosis ${ }^{\dagger}$ | 26 |
| Cholera | 4 | Q fever ${ }^{\dagger}$ | 22 |
| Cyclosporiasis ${ }^{\dagger}$ | 124 | Rabies, human | 1 |
| Diphtheria | 2 | Rocky Mountain spotted fever (RMSF) | 591 |
| Ehrlichiosis: human granulocytic (HGE) ${ }^{\dagger}$ | 212 | Rubella, congenital syndrome | 2 |
| human monocytic (HME) ${ }^{\dagger}$ | 90 | Streptococcal disease, invasive, group A | 3,537 |
| Encephalitis: California serogroup viral ${ }^{\dagger}$ | 102 | Streptococcal toxic-shock syndrome ${ }^{\dagger}$ | 52 |
| eastern equine ${ }^{\dagger}$ | 8 | Syphilis, congenital ${ }^{\text {f }}$ | 240 |
| St. Louis ${ }^{\dagger}$ | 2 | Tetanus | 26 |
| western equine ${ }^{\dagger}$ | - | Toxic-shock syndrome | 120 |
| Hansen disease (leprosy) ${ }^{\dagger}$ | 86 | Trichinosis | 24 |
| Hantavirus pulmonary syndrome ${ }^{\dagger}$ | 6 | Tularemia ${ }^{\text { }}$ | 102 |
| Hemolytic uremic syndrome, postdiarrheal ${ }^{\dagger}$ | 156 | Typhoid fever | 291 |
| HIV infection, pediatric ${ }^{\text {¢ }}$ | 200 | Yellow fever | - |
| Plague | 2 |  |  |

[^3]TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending December 15, 2001, and December 16, 2000 (50th Week)*

| Reporting Area | AIDS |  | Chlamydia ${ }^{\text {§ }}$ |  | Cryptosporidiosis |  | Escherichia coli 0157:H7 ${ }^{\text {+ }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | NETSS | PHLIS |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & \text { 20011 } \end{aligned}$ | Cum. <br> 2000 |  |  | Cum. 2001 | Cum. $2000$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | Cum. 2001 | Cum. $2000$ | Cum. $2001$ | Cum. $2000$ |
| UNITED STATES | 37,411 | 35,685 | 691,055 | 667,882 |  |  | 3,397 | 2,902 | 3,021 | 4,391 | 2,237 | 3,581 |
| NEW ENGLAND | 1,403 | 1,863 | 22,477 | 22,658 | 125 | 135 | 224 | 374 | 228 | 379 |
| Maine | $44$ | 38 | 1,299 | 1,406 | 18 | 20 | 27 | 31 | 27 | 28 |
| N.H. | 37 | 30 | 1,306 | 1,077 | 16 | 23 | 35 | 38 | 31 | 38 |
| Vt. | 15 | 37 | 622 | 508 | 33 | 27 | 14 | 36 | 10 | 37 |
| Mass. | 704 | 1,128 | 9,675 | 9,738 | 50 | 35 | 115 | 165 | 112 | 174 |
| R.I. | 95 | 91 | 2,831 | 2,560 | 8 | 4 | 17 | 20 | 11 | 18 |
| Conn. | 508 | 539 | 6,744 | 7,369 | - | 26 | 16 | 84 | 37 | 84 |
| MID. ATLANTIC | 9,346 | 7,605 | 81,232 | 63,470 | 283 | 376 | 213 | 434 | 181 | 342 |
| Upstate N.Y. | 945 | 676 | 14,755 | 3,488 | 110 | 127 | 157 | 294 | 136 | 79 |
| N.Y. City | 5,253 | 3,919 | 28,459 | 25,325 | 105 | 167 | 14 | 23 | 11 | 18 |
| N.J. | 1,607 | 1,554 | 12,445 | 10,038 | 14 | 19 | 42 | 117 | 34 | 117 |
| Pa. | 1,541 | 1,456 | 25,573 | 24,619 | 54 | 63 | N | N | - | 128 |
| E.N. CENTRAL | 2,812 | 3,411 | 113,562 | 115,513 | 1,462 | 947 | 783 | 1,067 | 505 | 746 |
| Ohio | 538 | 533 | 23,915 | 29,754 | 181 | 258 | 228 | 266 | 155 | 224 |
| Ind. | 343 | 347 | 14,212 | 13,025 | 79 | 58 | 84 | 120 | 43 | 88 |
| III. | 1,255 | 1,692 | 31,717 | 32,001 | 420 | 122 | 159 | 193 | 135 | 156 |
| Mich. | 500 | 648 | 29,121 | 24,969 | 178 | 94 | 98 | 140 | 82 | 104 |
| Wis. | 176 | 191 | 14,597 | 15,764 | 604 | 415 | 214 | 348 | 90 | 174 |
| W.N. CENTRAL | 808 | 809 | 34,743 | 37,949 | 513 | 351 | 555 | 659 | 457 | 623 |
| Minn. | 133 | 160 | 6,851 | 7,868 | 180 | 123 | 268 | 202 | 212 | 231 |
| Iowa | 85 | 83 | 4,611 | 5,120 | 81 | 76 | 79 | 180 | 62 | 148 |
| Mo. | 405 | 367 | 12,574 | 12,960 | 45 | 31 | 61 | 108 | 94 | 97 |
| N. Dak. | 2 | 3 | 874 | 858 | 13 | 16 | 18 | 21 | 34 | 21 |
| S. Dak. | 23 | 7 | 1,752 | 1,770 | 8 | 15 | 43 | 56 | 41 | 59 |
| Nebr. | 68 | 68 | 2,220 | 3,522 | 182 | 81 | 60 | 62 | - | 49 |
| Kans. | 92 | 121 | 5,861 | 5,851 | 4 | 9 | 26 | 30 | 14 | 18 |
| S. ATLANTIC | 11,517 | 10,027 | 130,597 | 125,517 | 329 | 464 | 238 | 364 | 149 | 287 |
| Del. | 231 | 198 | 2,511 | 2,760 | 6 | 6 | 4 | 3 | 7 | 1 |
| Md. | 1,698 | 1,192 | 11,716 | 13,595 | 39 | 13 | 28 | 34 | 1 | 2 |
| D.C. | 782 | 784 | 3,048 | 3,052 | 12 | 18 | - | 1 | U | U |
| Va . | 911 | 745 | 17,367 | 15,047 | 26 | 19 | 50 | 75 | 42 | 67 |
| W. Va. | 95 | 57 | 2,251 | 2,075 | 2 | 3 | 10 | 15 | 8 | 13 |
| N.C. | 845 | 644 | 19,799 | 20,793 | 30 | 28 | 57 | 90 | 43 | 70 |
| S.C. | 645 | 737 | 10,506 | 9,489 | 7 | - | 22 | 21 | 11 | 16 |
| Ga. | 1,528 | 1,118 | 28,739 | 26,893 | 131 | 170 | 33 | 40 | 15 | 39 |
| Fla. | 4,782 | 4,552 | 34,660 | 31,813 | 76 | 207 | 34 | 85 | 22 | 79 |
| E.S. CENTRAL | 1,671 | 1,781 | 46,380 | 49,395 | 48 | 50 | 129 | 150 | 112 | 116 |
| Ky. | 315 | 185 | 8,125 | 7,802 | 4 | 7 | 58 | 40 | 49 | 32 |
| Tenn. | 540 | 748 | 14,026 | 14,449 | 14 | 11 | 43 | 61 | 48 | 54 |
| Ala. | 415 | 455 | 13,554 | 14,879 | 17 | 16 | 18 | 10 | 6 | 9 |
| Miss. | 401 | 393 | 10,675 | 12,265 | 13 | 16 | 10 | 39 | 9 | 21 |
| W.S. CENTRAL | 3,856 | 3,666 | 100,481 | 99,667 | 120 | 160 | 113 | 223 | 91 | 281 |
| Ark. | 189 | 170 | 6,695 | 6,140 | 8 | 15 | 14 | 56 | - | 38 |
| La. | 806 | 632 | 16,602 | 17,286 | 7 | 13 | 4 | 15 | 26 | 53 |
| Okla. | 214 | 322 | 10,074 | 9,050 | 15 | 17 | 34 | 19 | 28 | 17 |
| Tex. | 2,647 | 2,542 | 67,110 | 67,191 | 90 | 115 | 61 | 133 | 37 | 173 |
| MOUNTAIN | 1,288 | 1,324 | 40,288 | 36,389 | 235 | 172 | 288 | 422 | 171 | 305 |
| Mont. | 15 | 14 | 1,849 | 1,386 | 37 | 10 | 20 | 31 | - | - |
| Idaho | 19 | 20 | 1,882 | 1,814 | 22 | 23 | 75 | 73 | 39 | 41 |
| Wyo. | 4 | 9 | 801 | 775 | 7 | 5 | 7 | 21 | 1 | 11 |
| Colo. | 267 | 326 | 9,752 | 9,153 | 42 | 71 | 88 | 156 | 54 | 110 |
| N. Mex. | 137 | 140 | 5,767 | 5,115 | 29 | 21 | 16 | 22 | 11 | 18 |
| Ariz. | 502 | 410 | 13,886 | 12,094 | 9 | 10 | 31 | 56 | 23 | 44 |
| Utah | 110 | 133 | 1,870 | 2,182 | 83 | 28 | 32 | 49 | 42 | 71 |
| Nev. | 234 | 272 | 4,481 | 3,870 | 6 | 4 | 19 | 14 | 1 | 10 |
| PACIFIC | 4,710 | 5,199 | 121,295 | 117,324 | 282 | 247 | 478 | 698 | 343 | 502 |
| Wash. | 483 | 463 | 13,096 | 12,570 | 7 | U | 130 | 222 | 62 | 206 |
| Oreg. | 213 | 170 | 7,017 | 6,733 | 51 | 20 | 82 | 134 | 61 | 114 |
| Calif. | 3,898 | 4,444 | 94,947 | 92,143 | 220 | 227 | 243 | 296 | 211 | 165 |
| Alaska | 18 | 23 | 2,539 | 2,426 | 1 | - | 4 | 32 | 1 | 6 |
| Hawaii | 98 | 99 | 3,696 | 3,452 | 3 | - | 19 | 14 | 8 | 11 |
| Guam |  |  | - | 484 | - | - | N | N | U | U |
| P.R. | 1,113 | 1,242 | 2,404 | U | - | - | 1 | 7 | U | U |
| V.I. | 11 | 32 | 53 | - | U | , | U | - | U | U |
| Amer. Samoa | 1 |  | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | - | 129 | U | U | U | - | U | U | U |

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

* Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).
${ }^{\dagger}$ Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).
§ Chlamydia refers to genital infections caused by C. trachomatis.
« Updated monthly from reports to the Division of HIV/AIDS Prevention - Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last updated November 27, 2001.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending December 15, 2001, and December 16, 2000 (50th Week)*

| Reporting Area | Gonorrhea |  | Hepatitis C; Non-A, Non-B |  | Legionellosis |  | Listeriosis <br> Cum. <br> 2001 | Lyme Disease |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2001 \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 2000 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ |  | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ |
| UNITED STATES | 317,798 | 341,965 | 3,048 | 3,008 | 1,030 | 1,041 | 506 | 12,106 | 16,596 |
| NEW ENGLAND | 6,462 | 6,362 | 32 | 32 | 73 | 54 | 44 | 3,849 | 5,438 |
| Maine | 141 | 87 | - | 2 | 8 | 2 | 2 |  |  |
| N.H. | 176 | 106 | - | - | 12 | 3 | 4 | 111 | 63 |
| Vt. | 73 | 63 | 7 | 4 | 5 | 5 | 3 | 17 | 40 |
| Mass. | 3,041 | 2,674 | 25 | 20 | 21 | 17 | 26 | 826 | 1,155 |
| R.I. | 813 | 631 | - | 6 | 13 | 9 | 2 | 493 | 611 |
| Conn. | 2,218 | 2,801 | - | - | 14 | 18 | 7 | 2,402 | 3,569 |
| MID. ATLANTIC | 41,245 | 37,667 | 1,466 | 641 | 213 | 293 | 73 | 6,000 | 8,603 |
| Upstate N.Y. | 8,629 | 6,997 | 57 | 37 | 69 | 93 | 28 | 3,560 | 3,822 |
| N.Y. City | 12,182 | 11,232 |  |  | 38 | 47 | 16 | 10 | 177 |
| N.J. | 7,587 | 6,765 | 1,342 | 561 | 13 | 23 | 12 | 927 | 2,446 |
| Pa. | 12,847 | 12,673 | 67 | 43 | 93 | 130 | 17 | 1,503 | 2,158 |
| E.N. CENTRAL | 59,295 | 68,833 | 157 | 222 | 306 | 271 | 73 | 674 | 768 |
| Ohio | 13,391 | 18,378 | 9 | 12 | 147 | 110 | 16 | 110 | 60 |
| Ind. | 6,401 | 6,125 | 1 |  | 23 | 36 | 8 | 23 | 22 |
| III. | 17,677 | 20,016 | 13 | 21 | 19 | 33 | 16 | 22 | 35 |
| Mich. | 16,471 | 17,557 | 134 | 189 | 81 | 49 | 23 | 17 | 23 |
| Wis. | 5,355 | 6,757 | - | - | 36 | 43 | 10 | 502 | 628 |
| W.N. CENTRAL | 14,848 | 17,188 | 739 | 590 | 48 | 56 | 20 | 386 | 424 |
| Minn. | 2,214 | 3,069 | 12 | 7 | 9 | 7 | 3 | 318 | 322 |
| Iowa | 1,224 | 1,208 | - | 2 | 8 | 14 | 2 | 36 | 33 |
| Mo. | 7,763 | 8,494 | 708 | 568 | 22 | 25 | 10 | 26 | 45 |
| N. Dak. | 40 | 70 | - | 1 | 1 | - | - | - | 2 |
| S. Dak. | 279 | 268 |  |  | 3 | 2 | - |  | - |
| Nebr. | 713 | 1,416 | 8 | 4 | 4 | 4 | 1 | 4 | 5 |
| Kans. | 2,615 | 2,663 | 11 | 8 | 1 | 4 | 4 | 2 | 17 |
| S. ATLANTIC | 80,370 | 88,524 | 112 | 108 | 197 | 187 | 74 | 918 | 1,096 |
| Del. | 1,545 | 1,671 | 7 | 2 | 12 | 10 | 2 | 151 | 167 |
| Md. | 6,638 | 9,386 | 17 | 14 | 37 | 67 | 15 | 533 | 636 |
| D.C. | 2,727 | 2,590 | - | 3 | 8 | 6 | - | 16 | 11 |
| Va. | 10,437 | 9,869 | - | 3 | 28 | 33 | 13 | 116 | 146 |
| W. Va. | 699 | 628 | 9 | 16 | N | N | 5 | 13 | 34 |
| N.C. | 15,578 | 16,954 | 21 | 20 | 11 | 16 | 6 | 41 | 46 |
| S.C. | 6,943 | 8,101 | 6 | 3 | 13 | 6 | 5 | 5 | 17 |
| Ga. | 15,889 | 17,603 | 1 | 3 | 10 | 7 | 14 | - | - |
| Fla. | 19,914 | 21,722 | 51 | 44 | 78 | 42 | 14 | 43 | 39 |
| E.S. CENTRAL | 30,247 | 35,479 | 175 | 439 | 54 | 40 | 20 | 61 | 50 |
| Ky. | 3,268 | 3,411 | 9 | 36 | 11 | 20 | 5 | 22 | 13 |
| Tenn. | 9,386 | 11,476 | 62 | 99 | 28 | 12 | 8 | 29 | 28 |
| Ala. | 10,595 | 11,707 | 4 | 10 | 13 | 5 | 7 | 9 | 6 |
| Miss. | 6,998 | 8,885 | 100 | 294 | 2 | 3 | - | 1 | 3 |
| W.S. CENTRAL | 49,195 | 52,726 | 179 | 720 | 13 | 26 | 29 | 82 | 89 |
| Ark. | 4,162 | 3,601 | 4 | 9 | - | - | 1 | 1 | 5 |
| La. | 11,428 | 12,870 | 90 | 443 | 2 | 7 | - | 2 | 8 |
| Okla. | 4,587 | 4,082 | 4 | 10 | 3 | 5 | 2 | - | 1 |
| Tex. | 29,018 | 32,173 | 81 | 258 | 8 | 14 | 26 | 79 | 75 |
| MOUNTAIN | 9,676 | 10,178 | 57 | 79 | 58 | 43 | 38 | 13 | 13 |
| Mont. | 101 | 53 | 1 | 5 | - | 2 | - | - | - |
| Idaho | 72 | 89 | 2 | 3 | 3 | 5 | 1 | 5 | 3 |
| Wyo. | 77 | 51 | 8 | 2 | 1 | - | 2 | 1 | 3 |
| Colo. | 2,863 | 3,105 | 12 | 16 | 17 | 15 | 10 | 1 | - |
| N. Mex. | 969 | 1,130 | 12 | 16 | 3 | 1 | 7 | 1 | - |
| Ariz. | 3,788 | 4,022 | 9 | 20 | 23 | 7 | 9 | 2 | - |
| Utah | 142 | 231 | 3 | 1 | 7 | 12 | 2 | 1 | 3 |
| Nev. | 1,664 | 1,497 | 10 | 16 | 4 | 1 | 7 | 2 | 4 |
| PACIFIC | 26,460 | 25,008 | 131 | 177 | 68 | 71 | 135 | 123 | 115 |
| Wash. | 2,864 | 2,282 | 23 | 32 | 10 | 18 | 10 | 8 | 9 |
| Oreg. | 1,088 | 990 | 13 | 26 | N | N | 9 | 12 | 13 |
| Calif. | 21,533 | 20,921 | 95 | 117 | 54 | 52 | 110 | 101 | 91 |
| Alaska | 410 | 347 | - | - | - | - | - | 2 | 2 |
| Hawaii | 565 | 468 | - | 2 | 4 | 1 | 6 | N | N |
| Guam | - | 53 | - | 3 | - | - | - | - | - |
| P.R. | 578 | 499 | 1 | 1 | 2 | 1 | - | N | N |
| V.I. | 6 | - | - | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | - | U | U |
| C.N.M.I. | 14 | U | - | U | - | U | - | - | U |

N : Not notifiable.
U: Unavailable.

- No reported cases
* Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending December 15, 2001, and December 16, 2000 (50th Week)*

| Reporting Area | Malaria |  | Rabies, Animal |  | Salmonellosis ${ }^{\dagger}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | NETSS | PHLIS |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ |  |  | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2000 \\ \hline \end{gathered}$ |
| UNITED STATES | 1,209 | 1,429 | 6,399 | 6,736 | 35,883 | 37,612 | 28,019 | 31,265 |
| NEW ENGLAND | 86 | 70 | 720 | 802 | 2,262 | 2,118 | 2,124 | 2,166 |
| Maine | 5 | 6 | 67 | 128 | 163 | 122 | 151 | 97 |
| N.H. | 2 | 1 | 21 | 21 | 158 | 140 | 155 | 144 |
| V . | 1 | 3 | 61 | 57 | 80 | 108 | 71 | 104 |
| Mass. | 38 | 32 | 268 | 271 | 1,289 | 1,209 | 1,116 | 1,228 |
| R.I. | 13 | 8 | 70 | 57 | 139 | 138 | 173 | 154 |
| Conn. | 27 | 20 | 233 | 268 | 433 | 401 | 458 | 439 |
| MID. ATLANTIC | 346 | 384 | 1,170 | 1,265 | 4,204 | 4,859 | 3,648 | 5,147 |
| Upstate N.Y. | 67 | 75 | 757 | 809 | 1,225 | 1,192 | 1,213 | 1,256 |
| N.Y. City | 201 | 225 | 35 | 18 | 1,054 | 1,167 | 1,357 | 1,258 |
| N.J. | 44 | 49 | 190 | 193 | 905 | 1,126 | 657 | 1,003 |
| Pa. | 34 | 35 | 188 | 245 | 1,020 | 1,374 | 421 | 1,630 |
| E.N. CENTRAL | 140 | 145 | 143 | 168 | 4,743 | 5,207 | 4,101 | 3,616 |
| Ohio | 26 | 21 | 52 | 52 | 1,320 | 1,506 | 1,165 | 1,431 |
| Ind. | 16 | 8 | 15 | 14 | 509 | 622 | 482 | 601 |
| III. | 35 | 66 | 24 | 22 | 1,294 | 1,459 | 1,169 | 281 |
| Mich. | 42 | 32 | 46 | 68 | 810 | 880 | 791 | 922 |
| Wis. | 21 | 18 | 6 | 12 | 810 | 740 | 494 | 381 |
| W.N. CENTRAL | 35 | 67 | 356 | 524 | 2,268 | 2,332 | 2,328 | 2,459 |
| Minn. | 6 | 27 | 46 | 89 | 651 | 528 | 665 | 659 |
| Iowa | 9 | 2 | 79 | 78 | 333 | 354 | 301 | 343 |
| Mo. | 13 | 20 | 40 | 50 | 628 | 698 | 940 | 845 |
| N. Dak. | - | 2 | 37 | 115 | 57 | 61 | 84 | 75 |
| S. Dak. | - | 1 | 56 | 94 | 146 | 98 | 118 | 102 |
| Nebr. | 2 | 8 | 4 | 2 | 153 | 223 | ${ }^{-}$ | 139 |
| Kans. | 5 | 7 | 94 | 96 | 300 | 370 | 220 | 296 |
| S. ATLANTIC | 284 | 324 | 2,196 | 2,332 | 8,597 | 7,875 | 5,912 | 5,787 |
| Del. | 2 | 5 | 30 | 49 | 86 | 115 | 112 | 130 |
| Md. | 110 | 117 | 338 | 407 | 814 | 767 | 853 | 707 |
| D.C. | 13 | 16 | - | \% | 81 | 63 | U | U |
| Va . | 49 | 50 | 478 | 554 | 1,269 | 981 | 1,041 | 913 |
| W. Va. | 1 | 4 | 137 | 113 | 139 | 165 | 140 | 148 |
| N.C. | 19 | 36 | 567 | 556 | 1,348 | 1,119 | 1,219 | 1,118 |
| S.C. | 7 | 2 | 114 | 155 | 866 | 739 | 723 | 564 |
| Ga. | 30 | 30 | 363 | 340 | 1,659 | 1,443 | 1,210 | 1,693 |
| Fla. | 53 | 64 | 169 | 158 | 2,335 | 2,483 | 614 | 514 |
| E.S. CENTRAL | 34 | 47 | 200 | 201 | 2,580 | 2,385 | 1,788 | 1,784 |
| Ky. | 12 | 18 | 27 | 21 | 359 | 376 | 230 | 262 |
| Tenn. | 12 | 12 | 105 | 103 | 635 | 658 | 788 | 798 |
| Ala. | 6 | 16 | 64 | 76 | 738 | 658 | 474 | 594 |
| Miss. | 4 | 1 | 4 | 1 | 848 | 693 | 296 | 130 |
| W.S. CENTRAL | 12 | 71 | 1,045 | 867 | 3,971 | 4,859 | 2,537 | 2,978 |
| Ark. | 3 | 3 | 20 | 20 | 887 | 711 | 92 | 573 |
| La. | 5 | 13 | 3 | 4 | 418 | 869 | 952 | 746 |
| Okla. | 3 | 9 | 60 | 57 | 474 | 382 | 375 | 298 |
| Tex. | 1 | 46 | 962 | 786 | 2,192 | 2,897 | 1,118 | 1,361 |
| MOUNTAIN | 62 | 51 | 231 | 269 | 2,143 | 2,695 | 1,801 | 2,436 |
| Mont. | 3 | 1 | 38 | 65 | 73 | 95 | - | - |
| Idaho | 3 | 4 | 28 | 9 | 137 | 128 | 95 | 114 |
| Wyo. | - | - | 20 | 56 | 55 | 71 | 52 | 59 |
| Colo. | 23 | 24 | - | - | 578 | 679 | 577 | 660 |
| N. Mex. | 3 | - | 14 | 21 | 275 | 233 | 235 | 205 |
| Ariz. | 17 | 9 | 115 | 99 | 641 | 754 | 627 | 744 |
| Utah | 4 | 6 | 15 | 10 | 215 | 476 | 192 | 473 |
| Nev. | 9 | 7 | 1 | 9 | 169 | 259 | 23 | 181 |
| PACIFIC | 210 | 270 | 338 | 308 | 5,115 | 5,282 | 3,780 | 4,892 |
| Wash. | 15 | 33 | - | - | 533 | 570 | 491 | 656 |
| Oreg. | 14 | 39 | 3 | 7 | 237 | 286 | 309 | 352 |
| Calif. | 170 | 188 | 298 | 270 | 3,936 | 4,140 | 2,622 | 3,613 |
| Alaska | 1 | - | 37 | 31 | 49 | 59 | 28 | 36 |
| Hawaii | 10 | 10 | - | - | 360 | 227 | 330 | 235 |
| Guam | - | 2 | - | - | - | 27 | U | U |
| P.R. | 5 | 5 | 90 | 78 | 556 | 680 | U | U |
| V.I. | - | - | - | - | - | - | U | U |
| Amer. Samoa | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | 16 | U | U | U |

[^4]TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending December 15, 2001, and December 16, 2000 (50th Week)*

| Reporting Area | Shigellosis ${ }^{\text { }}$ |  |  |  | Syphilis (Primary \& Secondary) |  | Tuberculosis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NETSS |  | PHLIS |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2000 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ |
| UNITED STATES | 17,533 | 21,679 | 7,747 | 12,375 | 5,644 | 5,786 | 11,888 | 13,947 |
| NEW ENGLAND | 268 | 398 | 276 | 377 | 66 | 82 | 393 | 420 |
| Maine | 6 | 10 | 3 | 11 | 1 | 1 | 3 | 21 |
| N.H. | 7 | 6 | 4 | 8 | 1 | 2 | 16 | 19 |
| V t. | 7 | 4 | 6 | - | 3 | - | 4 | 4 |
| Mass. | 198 | 279 | 185 | 257 | 41 | 59 | 230 | 242 |
| R.I. | 23 | 33 | 26 | 34 | 9 | 4 | 39 | 31 |
| Conn. | 27 | 66 | 52 | 67 | 11 | 16 | 101 | 103 |
| MID. ATLANTIC | 1,199 | 2,714 | 724 | 1,685 | 483 | 269 | 2,218 | 2,206 |
| Upstate N.Y. | 470 | 764 | 113 | 212 | 25 | 12 | 341 | 316 |
| N.Y. City | 348 | 916 | 362 | 620 | 269 | 114 | 1,107 | 1,152 |
| N.J. | 185 | 497 | 184 | 428 | 140 | 67 | 486 | 531 |
| Pa. | 196 | 537 | 65 | 425 | 49 | 76 | 284 | 207 |
| E.N. CENTRAL | 4,226 | 4,046 | 1,837 | 1,276 | 983 | 1,174 | 1,315 | 1,422 |
| Ohio | 2,897 | 405 | 1,182 | 318 | 77 | 67 | 269 | 292 |
| Ind. | 220 | 1,504 | 50 | 152 | 150 | 343 | 106 | 137 |
| III. | 524 | 1,161 | 362 | 156 | 337 | 405 | 598 | 666 |
| Mich. | 299 | 653 | 216 | 594 | 397 | 314 | 262 | 243 |
| Wis. | 286 | 323 | 27 | 56 | 22 | 45 | 80 | 84 |
| W.N. CENTRAL | 1,930 | 2,411 | 1,267 | 2,002 | 83 | 63 | 432 | 510 |
| Minn. | 444 | 780 | 440 | 886 | 28 | 16 | 215 | 167 |
| Iowa | 363 | 529 | 290 | 344 | 4 | 11 | 34 | 36 |
| Mo. | 302 | 651 | 218 | 460 | 20 | 28 | 135 | 188 |
| N. Dak. | 21 | 51 | 35 | 49 | - |  | 3 | 5 |
| S. Dak. | 628 | 7 | 246 | 5 | 1 |  | 13 | 16 |
| Nebr. | 98 | 147 | - | 117 | 5 | 2 | 32 | 23 |
| Kans. | 74 | 246 | 38 | 141 | 25 | 6 |  | 75 |
| S. ATLANTIC | 2,596 | 2,886 | 841 | 1,139 | 1,887 | 1,935 | 2,535 | 2,784 |
| Del. | 17 | 24 | 14 | 22 | 12 | 8 | 15 | 14 |
| Md. | 153 | 195 | 91 | 113 | 246 | 300 | 226 | 243 |
| D.C. | 53 | 80 | U | U | 41 | 37 | 51 | 36 |
| Va . | 516 | 443 | 268 | 345 | 105 | 126 | 246 | 255 |
| W. Va. | 8 | 22 | 10 | 17 | 4 | 3 | 27 | 31 |
| N.C. | 352 | 385 | 170 | 258 | 426 | 469 | 387 | 390 |
| S.C. | 247 | 136 | 123 | 92 | 222 | 223 | 189 | 263 |
| Ga. | 406 | 256 | 130 | 187 | 366 | 374 | 441 | 601 |
| Fla. | 844 | 1,345 | 35 | 105 | 465 | 395 | 953 | 951 |
| E.S. CENTRAL | 1,550 | 1,166 | 608 | 565 | 631 | 847 | 777 | 883 |
| Ky. | 705 | 510 | 327 | 116 | 43 | 82 | 109 | 113 |
| Tenn. | 111 | 339 | 120 | 369 | 318 | 512 | 287 | 333 |
| Ala. | 208 | 98 | 130 | 73 | 137 | 120 | 256 | 296 |
| Miss. | 526 | 219 | 31 | 7 | 133 | 133 | 125 | 141 |
| W.S. CENTRAL | 2,360 | 3,436 | 1,146 | 1,139 | 737 | 798 | 798 | 2,031 |
| Ark. | 537 | 212 | 155 | 60 | 45 | 103 | 150 | 173 |
| La. | 145 | 288 | 166 | 194 | 168 | 204 | - | 257 |
| Okla. | 100 | 123 | 36 | 44 | 65 | 114 | 136 | 141 |
| Tex. | 1,578 | 2,813 | 789 | 841 | 459 | 377 | 512 | 1,460 |
| MOUNTAIN | 980 | 1,217 | 708 | 848 | 225 | 219 | 485 | 526 |
| Mont. | 8 | 8 | - |  | - | - | 14 | 17 |
| Idaho | 40 | 44 | 15 | 25 | 1 |  | 8 | 10 |
| Wyo. | 3 | 5 | 5 | 3 | 1 | 1 | 3 | 4 |
| Colo. | 243 | 261 | 258 | 216 | 22 | 10 | 113 | 81 |
| N. Mex. | 120 | 167 | 79 | 116 | 17 | 16 | 25 | 42 |
| Ariz. | 435 | 534 | 290 | 340 | 168 | 185 | 222 | 236 |
| Utah | 64 | 78 | 53 | 82 | 8 | 1 | 33 | 46 |
| Nev. | 67 | 120 | 8 | 66 | 8 | 5 | 67 | 90 |
| PACIFIC | 2,424 | 3,405 | 340 | 3,344 | 549 | 399 | 2,935 | 3,165 |
| Wash. | 209 | 445 | 167 | 407 | 50 | 65 | 224 | 244 |
| Oreg. | 92 | 164 | 111 | 109 | 13 | 11 | 104 | 102 |
| Calif. | 2,055 | 2,752 | - | 2,792 | 474 | 321 | 2,418 | 2,588 |
| Alaska | 7 | 7 | 6 | 3 | - | - | 50 | 102 |
| Hawaii | 61 | 37 | 56 | 33 | 12 | 2 | 139 | 129 |
| Guam | - | 45 | U | U | - | 3 | - | 51 |
| P.R. | 9 | 33 | U | U | 257 | 161 | 76 | 152 |
| V.I. | - | - | U | U | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U |
| C.N.M.I. | 8 | U | U | U | 13 | U | 32 | U |

$\mathrm{N}:$ Not notifiable. $\quad$ U: Unavailable. $\quad$ No reported cases.

* Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).
$\dagger$ Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

TABLE III. Provisional cases of selected notifiable diseases preventable
by vaccination, United States, weeks ending December 15, 2001,
and December 16, 2000 (50th Week)*

| Reporting Area | H. influenzae, Invasive |  | Hepatitis (Viral), By Type |  |  |  | Measles (Rubeola) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A |  | B |  | Indigenous |  | Imported ${ }^{\dagger}$ |  | Total |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2001^{\text {s }} \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2000 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | 2001 | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | 2001 | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ |
| UNITED STATES | 1,308 | 1,246 | 10,066 | 12,561 | 6,237 | 6,824 | - | 52 | - | 43 | 95 | 79 |
| NEW ENGLAND | 92 | 108 | 656 | 383 | 94 | 111 | - | 4 | - | 1 | 5 | 6 |
| Maine | 2 | 2 | 11 | 21 | 5 | 5 | - | - | - | - | - | - |
| N.H. | 7 | 12 | 17 | 18 | 15 | 18 | - | - | - | - | - | 3 |
| Vt. | 4 | 10 | 16 | 10 | 4 | 6 | - | 1 | - | - | 1 | 3 |
| Mass. | 41 | 42 | 311 | 133 | 11 | 15 | - | 2 | - | 1 | 3 | - |
| R.I. | 7 | 4 | 72 | 25 | 28 | 23 | - | - | - | - | - | - |
| Conn. | 31 | 38 | 229 | 176 | 31 | 44 | - | 1 | - | - | 1 | - |
| MID. ATLANTIC | 189 | 223 | 1,000 | 1,467 | 977 | 1,118 | - | 5 | - | 11 | 16 | 23 |
| Upstate N.Y. | 76 | 97 | 267 | 244 | 129 | 131 | - | 1 | - | 4 | 5 | 10 |
| N.Y. City | 48 | 59 | 297 | 498 | 437 | 543 | - | 3 | - | 1 | 4 | 12 |
| N.J. | 43 | 40 | 232 | 284 | 169 | 177 | - | - | - | 1 | 1 | - |
| Pa. | 22 | 27 | 204 | 441 | 242 | 267 | - | 1 | - | 5 | 6 | 1 |
| E.N. CENTRAL | 222 | 176 | 1,176 | 1,634 | 855 | 714 | - | - | - | 10 | 10 | 8 |
| Ohio | 74 | 53 | 255 | 260 | 91 | 101 | - | - | - | 3 | 3 | 2 |
| Ind. | 46 | 30 | 100 | 114 | 47 | 46 | - | - | - | 4 | 4 | - |
| III. | 63 | 59 | 434 | 683 | 152 | 111 | - | - | - | 3 | 3 | 3 |
| Mich. | 13 | 11 | 318 | 483 | 565 | 415 | - | - | - | - | - | 3 |
| Wis. | 26 | 23 | 69 | 94 | - | 41 | - | - | - | - | - | - |
| W.N. CENTRAL | 67 | 78 | 400 | 638 | 211 | 289 | - | 4 | - | 1 | 5 | 3 |
| Minn. | 41 | 43 | 41 | 172 | 31 | 40 | - | 2 | - | 1 | 3 | 1 |
| lowa | - | - | 35 | 65 | 20 | 32 | - | - | - | - | - | - |
| Mo. | 16 | 23 | 105 | 251 | 109 | 142 | - | 2 | - | - | 2 | - |
| N. Dak. | 7 | 4 | 3 | 4 | 2 | 2 | - | - | - | - | - | - |
| S. Dak. | - | 1 | 3 | 3 |  | 2 | - | - | - | - | - | - |
| Nebr. | 2 | 3 | 35 | 35 | 28 | 44 | - | - | - | - | - | - |
| Kans. | 1 | 4 | 178 | 108 | 20 | 27 | - | - | - | - | - | 2 |
| S. ATLANTIC | 370 | 273 | 2,439 | 1,435 | 1,458 | 1,254 | - | 4 | - | 1 | 5 | 4 |
| Del. | - | - | 15 | 15 | 11 | 14 | - | - | - | - | - | - |
| Md. | 89 | 77 | 302 | 203 | 138 | 123 | - | 2 | - | 1 | 3 | - |
| D.C. | - | - | 60 | 35 | 13 | 34 | - | - | - | - | - | - |
| Va . | 28 | 39 | 134 | 154 | 174 | 162 | - | 1 | - | - | 1 | 2 |
| W. Va. | 16 | 8 | 27 | 55 | 25 | 21 | - | - | - | - | - | - |
| N.C. | 46 | 23 | 236 | 149 | 208 | 246 | - | - | - | - | - | - |
| S.C. | 9 | 7 | 71 | 86 | 29 | 23 | - | - | - | - | - | - |
| Ga. | 101 | 68 | 960 | 288 | 452 | 222 | - | 1 | - | - | 1 | - |
| Fla. | 81 | 51 | 634 | 450 | 408 | 409 | - | - | - | - | - | 2 |
| E.S. CENTRAL | 75 | 52 | 388 | 387 | 417 | 465 | - | 2 | - | - | 2 | - |
| Ky. | 2 | 12 | 123 | 53 | 43 | 77 | U | 2 | U | - | 2 | - |
| Tenn. | 44 | 24 | 162 | 141 | 235 | 219 | - | - | - | - | - | - |
| Ala. | 27 | 14 | 73 | 51 | 85 | 63 | - | - | - | - | - | - |
| Miss. | 2 | 2 | 30 | 142 | 54 | 106 | - | - | - | - | - | - |
| W.S. CENTRAL | 52 | 63 | 1,310 | 2,353 | 668 | 1,060 | - | - | - | 1 | 1 | 1 |
| Ark. | 2 | 2 | 67 | 131 | 98 | 95 | - | - | - | - | - | 1 |
| La. | 6 | 16 | 61 | 102 | 46 | 151 | - | - | - | - | - | - |
| Okla. | 43 | 43 | 117 | 247 | 107 | 150 | - | - | - | - | - | - |
| Tex. | 1 | 2 | 1,065 | 1,873 | 417 | 664 | - | - | - | 1 | 1 | - |
| MOUNTAIN | 140 | 128 | 729 | 921 | 468 | 534 | - | 2 | - | - | 2 | 12 |
| Mont. | - | 1 | 12 | 7 | 3 | 7 | - | - | - | - | - | - |
| Idaho | 2 | 4 | 57 | 37 | 11 | 8 | - | 1 | - | - | 1 | - |
| Wyo. | - | 1 | 7 | 4 | 3 | 3 | - | - | - | - | - | - |
| Colo. | 38 | 32 | 88 | 219 | 102 | 104 | - | - | - | - | - | 2 |
| N. Mex. | 25 | 26 | 37 | 70 | 129 | 137 | - | - | - | - | - | - |
| Ariz. | 56 | 47 | 400 | 440 | 147 | 198 | - | 1 | - | - | 1 | - |
| Utah | 8 | 11 | 69 | 62 | 27 | 27 | - | - | - | - | - | 3 |
| Nev. | 11 | 6 | 59 | 82 | 46 | 50 | - | - | - | - | - | 7 |
| PACIFIC | 101 | 145 | 1,968 | 3,343 | 1,089 | 1,279 | - | 31 | - | 18 | 49 | 22 |
| Wash. | 7 | 8 | 152 | 279 | 140 | 109 | - | 13 | - | 2 | 15 | 3 |
| Oreg. | 20 | 32 | 77 | 168 | 113 | 118 | - | 4 | - | - | 4 | - |
| Calif. | 44 | 35 | 1,722 | 2,870 | 809 | 1,028 | - | 12 | - | 11 | 23 | 15 |
| Alaska | 6 | 45 | 14 | 13 | 9 | 12 | - |  | - |  |  | 1 |
| Hawaii | 24 | 25 | 3 | 13 | 18 | 12 | - | 2 | - | 5 | 7 | 3 |
| Guam | - | 1 | - | 1 | - | 10 | U | - | U | - | - | - |
| P.R. | 1 | 4 | 132 | 242 | 188 | 287 | - | - | - | - | - | 2 |
| V.I. |  | - |  | - | - | - | U | - | U | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | U | U | - | U | 35 | U | U | - | U | - | - | U |

N : Not notifiable.
U: Unavailable.

- : No reported cases.
* Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).
$\dagger$ For imported measles, cases include only those resulting from importation from other countries.
${ }^{5}$ Of 268 cases among children aged $<5$ years, serotype was reported for 124, and of those, 21 were type b.

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending December 15, 2001, and December 16, 2000 (50th Week)*

| Reporting Area | Meningococcal Disease |  | Mumps |  |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | 2001 | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2000 \\ \hline \end{gathered}$ | 2001 | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2000 \\ \hline \end{gathered}$ | 2001 | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Cum } \\ 2000 \\ \hline \end{gathered}$ |
| UNITED STATES | 2,146 | 2,096 | - | 216 | 308 | 130 | 4,788 | 6,900 | - | 19 | 165 |
| NEW ENGLAND | 110 | 118 | - | - | 4 | 12 | 454 | 1,863 | - | - | 12 |
| Maine | 6 | 8 | - | - | - | - | 21 | 45 | - | - | - |
| N.H. | 14 | 12 | - | - | - | 1 | 39 | 127 | - | - | 2 |
| Vt . | 6 | 3 | - | - | - | 11 | 57 | 248 | - | - | - |
| Mass. | 54 | 68 | - | - | 1 | , | 314 | 1,374 | - | - | 8 |
| R.I. | 6 | 9 | - | - | 1 | - | 6 | 24 | - | - | 1 |
| Conn. | 24 | 18 | - | - | 2 | - | 17 | 45 | - | - | 1 |
| MID. ATLANTIC | 207 | 249 | - | 23 | 27 | 3 | 280 | 685 | - | 5 | 9 |
| Upstate N.Y. | 62 | 75 | - | 3 | 11 | 3 | 139 | 338 | - | 1 | 1 |
| N.Y. City | 40 | 44 | - | 12 | 7 | - | 49 | 84 | - | 3 | 8 |
| N.J. | 49 | 53 | - | 4 | 3 | - | 22 | 36 | - | 1 | - |
| Pa. | 56 | 77 | - | 4 | 6 | - | 70 | 227 | - | - | - |
| E.N. CENTRAL | 322 | 381 | - | 20 | 23 | 14 | 712 | 808 | - | 2 | 1 |
| Ohio | 92 | 92 | - | 1 | 7 | 1 | 306 | 318 | - | - | - |
| Ind. | 41 | 46 | - | 3 | 2 | 11 | 91 | 120 | - | - | - |
| III. | 72 | 87 | - | 11 | 6 |  | 80 | 115 | - | 2 | 1 |
| Mich. | 69 | 113 | - | 5 | 6 | 2 | 137 | 123 | - | - | - |
| Wis. | 48 | 43 | - | - | 2 | - | 98 | 132 | - | - | - |
| W.N. CENTRAL | 161 | 149 | - | 16 | 18 | 14 | 400 | 591 | - | 3 | 2 |
| Minn. | 26 | 21 | - | 5 |  | 9 | 188 | 361 | - | - | 1 |
| Iowa | 31 | 34 | - | 1 | 7 | 2 | 64 | 57 | - | 1 | - |
| Mo. | 53 | 67 | - | 4 | 5 | 3 | 102 | 90 | - | 1 | - |
| N. Dak. | 6 | 2 | - | - | 1 | - | 5 | 7 | - | - | - |
| S. Dak. | 5 | 6 | - | - | - | - | 4 | 7 | - | - | - |
| Nebr. | 25 | 7 | - | 1 | 2 | - | 7 | 27 | - | - | 1 |
| Kans. | 15 | 12 | - | 5 | 3 | - | 30 | 42 | - | 1 | - |
| S. ATLANTIC | 357 | 286 | - | 39 | 46 | 15 | 266 | 508 | - | 6 | 112 |
| Del. | 5 | 1 | - | - | - | - | - | 9 | - | - | 1 |
| Md. | 41 | 27 | - | 7 | 9 | 6 | 43 | 130 | - | - | - |
| D.C. | - | - | - |  | - | - | 1 | 3 | - | - | - |
| Va . | 39 | 42 | - | 8 | 11 | 8 | 58 | 112 | - | - | - |
| W. Va. | 14 | 13 | - | 5 | - | - | 4 | 1 | - | - | 2 |
| N.C. | 62 | 36 | - | 5 | 7 | 1 | 73 | 110 | - | - | 82 |
| S.C. | 34 | 26 | - | 5 | 11 | - | 34 | 40 | - | 2 | 27 |
| Ga. | 48 | 46 | - | 7 | 2 | - | 27 | 40 | - | 1 | - |
| Fla. | 114 | 95 | - | 7 | 6 | - | 26 | 63 | - | 3 | 2 |
| E.S. CENTRAL | 131 | 132 | - | 9 | 6 | - | 157 | 114 | - | - | 6 |
| Ky. | 22 | 26 | U | 3 | 1 | U | 57 | 58 | U | - | 1 |
| Tenn. | 59 | 56 | - | 1 | 2 | - | 59 | 33 | U | - | 1 |
| Ala. | 34 | 35 | - | - | 3 | - | 37 | 19 | - | - | 4 |
| Miss. | 16 | 15 | - | 5 |  | - | 4 | 4 | - | - | - |
| W.S. CENTRAL | 337 | 224 | - | 14 | 34 | 15 | 524 | 361 | - | 2 | 8 |
| Ark. | 20 | 13 | - | 1 | 3 | - | 45 | 37 | - | - | 1 |
| La. | 65 | 44 | - | 2 | 5 | - | 3 | 21 | - | - | 1 |
| Okla. | 31 | 28 | - | - | - | 3 | 30 | 48 | - | - | - |
| Tex. | 221 | 139 | - | 11 | 26 | 12 | 446 | 255 | - | 2 | 6 |
| MOUNTAIN | 94 | 98 | - | 13 | 22 | 56 | 1,339 | 798 | - | - | 2 |
| Mont. | 4 | 6 | - | 1 | 1 | - | 37 | 35 | - | - | - |
| Idaho | 8 | 7 | - | 1 | 1 | - | 171 | 64 | - | - | - |
| Wyo. | 5 | 1 | - | 1 | 1 | - | 1 | 4 | - | - | - |
| Colo. | 35 | 32 | - | 3 | 1 | 23 | 320 | 467 | - | - | 1 |
| N. Mex. | 11 | 11 | - | 2 | 1 | 1 | 143 | 90 | - | - | - |
| Ariz. | 16 | 29 | - | 1 | 4 | 32 | 551 | 91 | - | - | 1 |
| Utah | 8 | 7 | - | 1 | 7 | 2 | 76 | 32 | - | - | - |
| Nev. | 7 | 5 | - | 3 | 6 | - | 40 | 15 | - | - | - |
| PACIFIC | 427 | 459 | - | 82 | 128 | 1 | 656 | 1,172 | - | 1 | 13 |
| Wash. | 64 | 61 | - | 2 | 10 | 1 | 166 | 412 | - | - | 7 |
| Oreg. | 43 | 68 | N | N | N | - | 51 | 106 | - | - | - |
| Calif. | 304 | 313 | , | 43 | 87 | - | 395 | 593 | - | - | 6 |
| Alaska | 3 | 9 | - | 1 | 8 | - | 11 | 21 | - | - | - |
| Hawaii | 13 | 8 | - | 36 | 23 | - | 33 | 40 | - | 1 | - |
| Guam | - | - | U | - | 16 | U | - | 4 | U | - | 1 |
| P.R. | 5 | 10 | - | - | - | - | 2 | 10 | , | - | - |
| V.I. | - | - | U | - | - | U | - | - | U | - | U |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | U | - | U | U | - | U | U | - | U |

N : Not notifiable. U: Unavailable. $\quad$ : No reported cases.

* Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).


## TABLE IV. Deaths in 122 U.S. cities, * week ending December 15, 2001 (50th Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\left\lvert\, \begin{aligned} & \mathrm{P}_{\mathrm{PI}}{ }^{\dagger} \\ & \text { Total } \end{aligned}\right.$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  | P\& ${ }^{\dagger}$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 561 | 381 | 115 | 41 | 11 | 13 | 64 | S. ATLANTIC 1,189 | 724 | 286 | 127 | 26 | 23 | 72 |
| Boston, Mass. | 148 | 90 | 31 | 18 | 6 | 3 | 23 | Atlanta, Ga. 156 | 92 | 36 | 20 | 6 | 2 | 8 |
| Bridgeport, Conn. | 43 | 29 | 11 | 2 | - | 1 | 10 | Baltimore, Md. 172 | 99 | 46 | 21 | 4 | 2 | 15 |
| Cambridge, Mass. | 19 | 18 | 1 | - |  | - | 1 | Charlotte, N.C. 101 | 63 | 27 | 7 | 2 | 2 | 10 |
| Fall River, Mass. | U | U | U | U | U | U | U | Jacksonville, Fla. 142 | 95 | 30 | 16 | - | 1 | 9 |
| Hartford, Conn. | 43 | 28 | 10 | 3 | 1 | 1 | 1 | Miami, Fla. 97 | 50 | 30 | 13 | 2 | 2 | 2 |
| Lowell, Mass. | 26 | 23 | 2 | - | - | 1 | 2 | Norfolk, Va. 60 | 38 | 13 | 4 | - | 4 | 4 |
| Lynn, Mass. | 17 | 15 | 1 | 1 | - | - | 3 | Richmond, Va. 53 | 33 | 7 | 8 | 2 | 3 | 6 |
| New Bedford, Mass | s. 31 | 20 | 5 | 4 | $\overline{7}$ | 2 | 5 | Savannah, Ga. 42 | 27 | 11 | 4 | - | - | 2 |
| New Haven, Conn. | 44 | 28 | 9 | 3 | 1 | 3 | 5 | St. Petersburg, Fla. 56 | 35 | 14 | 6 | $\overline{-}$ | 1 | 5 |
| Providence, R.I. | 69 | 45 | 16 | 4 | 2 | 2 | 2 | Tampa, Fla. 208 | 137 | 49 | 12 | 6 | 3 | 9 |
| Somerville, Mass. | 2 | 2 | - | - | - |  |  | Washington, D.C. 102 | 55 | 23 | 16 | 4 | 3 | 2 |
| Springfield, Mass. | 38 | 27 | 9 | 1 | 1 | - | 3 | Wilmington, Del. U | U | U | U | U | U | U |
| Waterbury, Conn. | 27 | 17 | 9 | 1 |  |  | 8 |  |  |  |  |  |  |  |
| Worcester, Mass. | 54 | 39 | 11 | 4 | - | - | 8 | Birmingham, Ala. 194 | $\begin{aligned} & 527 \\ & 124 \end{aligned}$ | 159 44 | $\begin{aligned} & 59 \\ & 14 \end{aligned}$ | 21 6 | 24 | 14 |
| MID. ATLANTIC | 2,268 | 1,538 | 481 | 170 | 43 | 33 | 108 | Chattanooga, Tenn. 103 | 73 | 20 | 6 | - | 4 | 10 |
| Albany, N.Y. | 42 | 31 | 6 | 1 | 2 | 2 | 5 | Knoxville, Tenn. 104 | 72 | 17 | 11 | 3 | 1 | 6 |
| Allentown, Pa. | 18 | 15 | 3 | - | - | - | 7 | Lexington, Ky. 58 | 40 | 10 | 7 | - | 1 | 6 |
| Buffalo, N.Y. | 75 | 49 | 19 | 3 | 1 | 3 | 7 | Memphis, Tenn. 223 | 138 | 46 | 17 | 10 | 12 | 16 |
| Camden, N.J. | 31 | 24 | 4 | - | 2 | 1 | 2 | Mobile, Ala. 86 | 59 | 18 | 4 | 2 | 3 | 3 |
| Elizabeth, N.J. | 17 | 9 | 6 | 2 | - | - |  | Montgomery, Ala. 25 | 21 | 4 | - | - | - | 12 |
| Erie, Pa.§ | 31 | 27 | 3 | 1 | - | - | 3 | Nashville, Tenn. U | U | U | U | U | U | U |
| Jersey City, N.J. | 64 | 43 | 14 | 6 |  | 1 |  | W.S.CENTRAL 1,645 | 1,115 | 307 | 126 | 64 | 33 |  |
| New York City, N.Y. | 1,288 | 814 | 308 | 120 | 30 | 15 | 48 | Austin, Tex. $\quad 99$ | 67 | 19 | 7 | 4 | 2 | 108 |
| Newark, N.J. | U | U | U | U | U | U | U |  | 65 |  | 8 |  | 1 | 7 |
| Paterson, N.J. | 28 | 16 | 7 | 3 | 1 | 1 |  | $\begin{array}{ll}\text { Baton Rouge, La. } & 99 \\ \text { Corpus Christi, Tex. } & 58\end{array}$ | 65 40 | 12 | 8 | 1 | 3 | 5 |
| Philadelphia, Pa. | 235 | 168 | 42 | 15 | 3 | 5 | 12 | Corpus Christi, Tex. <br> Dallas, Tex. <br> 168 | 150 | 12 | 15 | 7 | 6 | + ${ }^{5}$ |
| Pittsburgh, Pa.§ | 37 | 23 | 8 | 5 | - | 1 | 1 | $\begin{array}{lr}\text { Dallas, Tex. } & 216 \\ \text { El Paso, Tex. } & 94 \\ \end{array}$ | 150 | 38 14 | 15 10 | 3 | 2 | 13 |
| Reading, Pa. | 18 | 17 | 1 | - | - | - | 2 | $\begin{array}{lr}\text { ElPaso, Tex. } & 94 \\ \text { Ft. Worth, Tex. } & 115\end{array}$ | 65 83 | 14 21 | 10 5 | 3 6 | 2 | 2 |
| Rochester, N.Y. | 139 | 113 | 21 | 4 | - | 1 | 3 | $\begin{array}{ll}\text { Ft. Worth, Tex. } & 115 \\ \text { Houston, Tex. } & 376\end{array}$ | 226 | 21 69 | 47 | -68 | 6 | 21 |
| Schenectady, N.Y. | 29 | 20 | 7 | 2 | - |  | 2 | $\begin{array}{ll}\text { Houston, Tex. } & 376 \\ \text { Little Rock, Ark. } & 66\end{array}$ | 226 44 | 69 12 | 47 | 28 | 1 | 21 |
| Scranton, Pa.§ | 42 | 34 | 7 | 1 | $\bar{\square}$ |  |  | Little Rock, Ark. 66 | 44 | $\stackrel{12}{\cup}$ | ${ }^{7}$ | U | U | U |
| Syracuse, N.Y. | 125 | 98 | 17 | 5 | 3 | 2 | 19 | New Orleans, La. 233 | 168 | 39 | 17 | 5 | 4 | 17 |
| Trenton, N.J. | 35 | 25 | 6 | 2 | 1 | 1 | 2 | $\begin{array}{ll}\text { San Antonio, Tex. } & 233 \\ \text { Shreveport, La. } & 141\end{array}$ | 168 | 39 | 17 | 5 4 | 4 | 17 |
| Utica, N.Y. | 14 | 12 | 2 | U | U | U | 1 | $\begin{array}{ll}\text { Shreveport, La. } & 141 \\ \text { Tulsa, Okla. } & 150\end{array}$ | 100 | 30 33 | 3 5 | 4 1 | 4 | 15 22 |
| Yonkers, N.Y. | U | U | U | U | U | U | U | Tulsa, Okla. 150 | 107 | 33 |  | 1 | 4 |  |
| E.N. CENTRAL | 1,597 | 1,116 | 305 | 106 | 35 | 35 | 116 | MOUNTAIN 947 | 635 | 197 | 80 | 15 | 18 | 72 |
| Akron, Ohio | 53 | 41 | 5 | 1 | 2 | 4 | 8 | Albuquerque, N.M. 142 | 97 | 30 | 13 | - | 2 | 16 |
| Canton, Ohio | 38 | 26 | 8 | 2 | - | 2 | 7 | Boise, Idaho 55 | 35 | 12 | 6 | 1 | 1 | 7 |
| Chicago, III. | U | U | U | U | U | U | U | Colo. Springs, Colo. 69 | 49 | 14 | 4 | - | 2 | 2 |
| Cincinnati, Ohio | 61 | 48 | 8 | 3 | 1 | 1 | 8 | Denver, Colo. 100 | 54 | 26 | 11 | 5 | 4 | 8 |
| Cleveland, Ohio | 120 | 74 | 32 | 9 | 1 | 4 | 3 | Las Vegas, Nev. 216 | 165 | 35 | 12 | 3 | 1 | 16 |
| Columbus, Ohio | 172 | 119 | 29 | 13 | 2 | 9 | 8 | Ogden, Utah 35 | 22 | 9 | 3 | - | 1 | 1 |
| Dayton, Ohio | 123 | 92 | 16 | 11 | 3 | 1 | 6 | Phoenix, Ariz. 179 | 102 | 43 | 22 | 4 | 6 | 8 |
| Detroit, Mich. | 208 | 110 | 63 | 23 | 8 | 4 | 16 | Pueblo, Colo. 34 | 22 | 9 | 3 | - | - | 2 |
| Evansville, Ind. | 45 | 39 | 4 | 2 | - | - | 4 | Salt Lake City, Utah 117 | 89 | 19 | 6 | 2 |  | 12 |
| Fort Wayne, Ind. | 51 | 39 | 8 | 2 | 2 | - |  | Tucson, Ariz. U | U | U | U | U | U | U |
| Gary, Ind. | 19 | 10 | 6 | 2 | 1 | - | 1 | PACIFIC 1,891 | 1,369 | 327 | 126 | 34 | 33 | 160 |
| Grand Rapids, Mich | h. 35 | 27 | 4 | 3 | - | 1 | 3 | Berkeley, Calif. $\quad 16$ | 11 | 2 | 2 |  | , | 2 |
| Indianapolis, Ind. | 186 | 116 | 47 | 12 | 7 | 4 | 10 | Fresno, Calif. 116 | 75 | 24 | 12 | 5 | - | 9 |
| Lansing, Mich. | 37 | 27 | 6 | 4 | - | - | 7 | Glendale, Calif. 33 | 26 | 5 | 1 | - | 1 | 1 |
| Milwaukee, Wis. | 115 | 91 | 16 | 3 | 2 | 3 | 7 | Honolulu, Hawaii 87 | 72 | 8 | 4 | 2 | 1 | 7 |
| Peoria, III. | 60 | 43 | 11 | 6 | - | - | 11 | Long Beach, Calif. 90 | 64 | 18 | 5 | 2 | 1 | 12 |
| Rockford, III. | 45 | 33 | 7 | 3 | 2 | - | 5 | Los Angeles, Calif. 511 | 373 | 79 | 39 | 10 | 10 | 26 |
| South Bend, Ind. | 66 | 49 | 10 | 4 | 3 | $\overline{-}$ | 8 | Pasadena, Calif. 28 | 25 | 1 | - | - | 2 | 5 |
| Toledo, Ohio | 94 | 73 | 18 | 1 | - | 2 | 5 | Portland, Oreg. 86 | 61 | 13 | 5 | 6 | 1 | 5 |
| Youngstown, Ohio | 69 | 59 | 7 | 2 | 1 | - | 2 | Sacramento, Calif. 197 | 142 | 41 | 9 | 2 | 1 | 19 |
| W.N. CENTRAL | 801 | 575 | 147 | 52 | 10 | 17 | 59 | San Diego, Calif. 187 | 136 | 27 | 17 | 3 | 4 | 19 |
| Des Moines, lowa | 57 | 35 | 18 | 1 | 2 | 1 | 10 | San Francisco, Calif. U | U | U | U | U | U | U |
| Duluth, Minn. | 32 | 27 | 4 | 1 |  |  | 3 | San Jose, Calif. 184 | 136 | 35 | 10 | 1 | 2 | 21 |
| Kansas City, Kans. | 30 | 27 | 1 | 2 |  |  | 4 | Santa Cruz, Calif. 23 | 20 | 1 | 1 | - | 3 | 2 |
| Kansas City, Mo. | 94 | 63 | 17 | 8 | 3 | 3 | 4 | Seattle, Wash. 163 | 109 | 36 | 12 | 3 | 3 | 14 |
| Lincoln, Nebr. | 30 | 22 | 3 | 1 |  | 4 | 2 | Spokane, Wash. 59 | 43 | 13 | 2 | - | 1 | 11 |
| Minneapolis, Minn. | . 184 | 139 | 28 | 12 | 3 | 2 | 16 | Tacoma, Wash. 111 | 76 | 24 | 7 | - | 4 | 7 |
| Omaha, Nebr. | 93 | 61 | 16 | 10 | - | 6 | 7 | TOTAL 11,692 ${ }^{\text {¹ }}$ | 7,980 | 2,324 | 887 | 259 | 229 | 826 |
| St. Louis, Mo. | 141 | 95 | 33 | 11 | 1 | 1 | - |  |  |  |  |  |  |  |
| St. Paul, Minn. | 65 | 49 | 12 | 3 | 1 | - | 6 |  |  |  |  |  |  |  |
| Wichita, Kans. | 75 | 57 | 15 | 3 | - | - | 7 |  |  |  |  |  |  |  |

[^5]
## Notices to Readers - Continued

possibility that anthrax spores might cause illness up to 100 days after exposure) accompanied by monitoring for illness or adverse reactions; and 3) 40 additional days of antimicrobial prophylaxis plus 3 doses of anthrax vaccine administered over a 4-week period. Although not a use approved by the Food and Drug Administration, the vaccine might provide additional protection by inducing an immune response to Bacillus anthracis. As an investigational new drug, the vaccine should be administered with informed consent, and vaccinated persons may participate in a follow-up evaluation measuring the effect of the vaccine when administered after exposure.

Additional information about these options is available from DHHS at http:// www.hhs.gov/news/press/2001pres/20011218.html.

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[^0]:    *The DBCS machines move mail along internal conveyor belts and rollers through a series of turns and compressions at 32 miles per hour until the mail lands in the appropriate collection bin for distribution.

[^1]:    * 1990-1994=total number of reported cases; 1995-2001=total number of confirmed cases.
    ${ }^{\dagger}$ As of November 26, 2001 (423 confirmed cases from nine countries).

[^2]:    * As of November 17.

[^3]:    -: No reported cases.

    * Incidence data for reporting year 2001 are provisional and cumulative (year-to-date).
    ${ }^{\dagger}$ Not notifiable in all states.
    ${ }^{5}$ Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV,
    STD, and TB Prevention (NCHSTP). Last updated November 27, 2001.
    ${ }^{1}$ Updated from reports to the Division of STD Prevention, NCHSTP.

[^4]:    N : Not notifiable.
    U: Unavailable.
    -: No reported cases.

    * Incidence data for reporting year 2001 are provisional and cumulative (year-to-date). Incidence data for reporting year 2000 are finalized and cumulative (year-to-date).
    ${ }^{\dagger}$ Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

[^5]:    U: Unavailable. -:No reported cases.

    * Mortality data in this table are reported voluntarily from 122 cities in the United States, most of which have populations of $\geq 100,000$. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
    ${ }^{\dagger}$ Pneumonia and influenza.
    ${ }^{\S}$ Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
    ${ }^{1}$ Total includes unknown ages.

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