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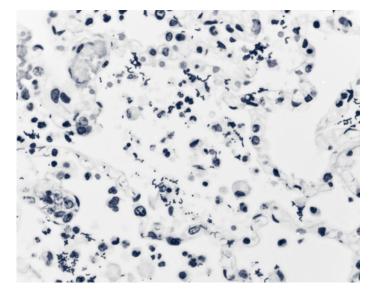
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Invasive Streptococcus pyogenes After Allograft Implantation — Colorado, 2003

Allograft tissues are used for various orthopedic procedures (e.g., ligament reconstruction, meniscal transplantation, and spinal surgery). In 2002, approximately one million allografts were distributed for transplantation (American Association of Tissue Banks [AATB], unpublished data, 2002). Recent reports of allograft-associated infections have prompted evaluation of the processing and quality-control methods employed by tissue processors (1,2). This report describes a case of invasive disease with *Streptococcus pyogenes* (i.e., group A streptococcus [GAS]), after reconstructive knee surgery using contaminated allograft tissue and provides recommendations to reduce the risk for allograft-associated infections. Although allograft infections are rare, they highlight the need for improved tissue evaluation and processing standards.

In September 2003, a previously healthy male aged 17 years underwent elective anterior cruciate ligament repair with a hemi-patellar tendon allograft at an ambulatory surgical center in Colorado. Six days after the procedure, he was admitted to a local hospital with pain and erythema at the incision site, fever of 102° F (39° C), and chills. The allograft tissue was removed, and the patient underwent surgical exploration and fasciotomy of the affected thigh. Cultures of his blood, wound aspirate, and explanted tissue grew GAS. His hospital course required a stay in the intensive care unit and was complicated by persistent fever and fluid collection in the affected leg, which was managed with computerized tomography-guided needle aspiration. After 7 days of treatment with clindamycin and cefazolin, the wound aspirate again yielded GAS. The patient was discharged after 17 days and completed a course of intravenous antibiotics at home; he was later readmitted to the hospital for related complications and discharged subsequently.

The allograft received by the patient came from a cadaveric donor (Figure) and was supplied by tissue processor A (TP-A). After the patient's surgeon alerted TP-A to this case of presumptive allograft infection, TP-A contacted the Food and FIGURE. Gram stain of lung specimen collected at autopsy from allograft tissue donor showing *Streptococcus pyogenes*



Photo/CDC

Drug Administration (FDA). Tendon allografts from the donor had been implanted in five other patients; as of December 1, no adverse outcomes had been detected by their surgeons. All remaining allografts recovered from the donor

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Notifiable Disease Morbidity and 122 Cities Mortality Data Robert F. Fagan Deborah A. Adams Felicia J. Connor Lateka Dammond Donna Edwards Patsy A. Hall Pearl C. Sharp and processed by TP-A were placed on hold or recalled. According to medical examiner's records, the donor had undergone cervical spinal fusion 3 weeks before his death; autopsy findings included a generalized rash and potentially toxic levels of a muscle relaxant and an analgesic medication. On autopsy, the cause of death was attributed to the toxic effects of these drugs.

Cultures of the donor's tissues, obtained by the tissue recovery organization before distribution to two tissue processors, yielded GAS. Preprocessing cultures obtained by TP-A also yielded GAS. TP-A processed the allografts using aseptic technique and an antimicrobial solution, but no sterilization procedure (e.g., gamma irradiation) was used. After the recovered tissues were processed, all postprocessing cultures were reported as negative to TP-A, and these allografts were distributed. Other tissues recovered from the donor were distributed to a second tissue processor (TP-B) and were held for further review.

CDC, FDA, and the Colorado Department of Public Health and Environment conducted an investigation to determine whether the allograft had been the source of GAS infection in the recipient. TP-B provided CDC with donor tissues that had not undergone antimicrobial processing; GAS was identified in a specimen of fascia lata. GAS also was isolated from a specimen of the donor's blood, which had been stored by TP-A. Emm typing of the isolates was performed at CDC to sequence the variable region of the emm gene of GAS (3). Sequence analysis confirmed that blood and tissue isolates from both donor and recipient were a newly discovered subtype emm3.17 that had not been identified among 108 invasive emm3 isolates characterized recently (4) or among 155 emm3 isolates recovered from children with pharyngitis (CDC, unpublished data, 2003). During the investigation, TP-A suspended distribution of all orthopedic allografts containing bone, such as the tissue implanted in the recipient.

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Editorial Note: This report describes a case of invasive GAS infection associated with a contaminated musculoskeletal allograft. The uncommon strain of GAS detected in the donor's blood and tissues before processing was indistinguishable from

the strain isolated from the recipient after implantation. The implicated allograft tissue had been subjected to antimicrobial treatment and postprocessing cultures before release by TP-A.

GAS has not been reported previously in association with allograft infections. Although invasive disease caused by GAS is associated most commonly with skin and other soft tissue infections (5), GAS accounted for <0.4% of all surgical-site infections annually during 1998–2002 (CDC, unpublished data, 2003). During 2000–2002, approximately 350–400 annual cases of invasive GAS were classified as postsurgical (i.e., occurring during the first 7 days after surgery), representing approximately 4.0% of invasive GAS infections reported for those years (CDC, unpublished data, 2003). Among tissue donors, data suggest the prevalence of GAS in preprocessing cultures of blood and musculoskeletal tissues is low, with a range of 0.2%–0.4% (O. Martinez, Ph.D., University of Miami Tissue Bank, and S. Brubaker, LifeNet, personal communications, 2003).

GAS was detected in preprocessing cultures of all tissues recovered from the donor. These results did not prompt TP-A to reject the tissues, because all postprocessing cultures were negative. Previous reports of allograft-associated infections have highlighted several problems with aseptic tissue processing and culturing methods used to detect bacterial contamination after processing (1,2). In one case, antimicrobial treatment did not eradicate *Clostridium sordellii*, and postprocessing cultures failed to detect the contamination with *C. sordellii*, resulting in the death of a recipient of a bone-cartilage allograft (2). Although sterilization methods can further reduce the risk for contaminated allografts, tissues processed with the most common method (e.g., irradiation) have been associated with altered biomechanics. As a result, sterilization methods are not used routinely by soft-tissue processors (6).

This investigation implicated contaminated allograft tissue in the transmission of GAS. Given the apparent ability of the organism to endure tissue processing with antimicrobial treatment, the presence of GAS in donor tissue should prompt rejection of the tissue unless a sterilizing procedure can be used. Because GAS prevalence among donor cultures is low, this recommendation should not limit the supply of tissue available for transplantation substantially. AATB, a voluntary accreditation organization, has proposed sterilizing or discarding certain tissues if specified organisms, including GAS, are detected (S. Brubaker, AATB, personal communication, 2003).

Tissue processors should adopt processes to ensure tissue safety. If tissue is contaminated with GAS or other pathogenic, highly virulent organisms, standard protocols for sterilization should be employed by tissue processors when possible, or the tissue should be discarded. When applicable, tissue processors should validate methods used to obtain culture specimens after antimicrobial treatment or sterilization.

AATB standards require rejection of donor tissues with evidence of active infection at the time of donation, including septicemia (7). Assessment of infection also should occur during tissue processing. Typically, evidence of systemic infection in prospective donors is detected before tissue recovery (8). However, when systemic infection is not detected before tissue recovery, donor eligibility should be reconsidered if cultures of multiple allograft tissues from the same donor yield the same organism. Multiple positive cultures for the same organism, even those not specified as highly virulent by AATB, might indicate systemic disease and should be considered in the comprehensive evaluation of the donor.

CDC guidelines for prevention of GAS disease identify the occurrence of postsurgical infection with GAS as a sentinel event that should prompt an epidemiologic investigation and enhanced surveillance within the hospital (9). Certain postsurgical GAS infections reflect transmission from asymptomatic, colonized health-care workers who should be identified to prevent additional postsurgical infections. Contaminated allografts should be considered as potential sources of GAS when postsurgical infections are recognized. Early signs of infection with GAS are nonspecific and might include localized pain, swelling, or erythema. Pain associated with invasive GAS infections often is disproportionate to clinical findings. Diagnostic evaluation should include anaerobic and aerobic cultures of blood and other specimens (2). Clinicians should be aware of the possibility of allograft-associated infections in the postoperative setting and should report these infections to the tissue processor and local health department. State health departments, CDC, and FDA should be notified to assist with investigations.

Data about invasive GAS are available through CDC's Active Bacterial Surveillance system http://www.cdc.gov/ ncidod/dbmd/abcs/survreports.htm. Additional information about surveillance for surgical-site infections is available through CDC's National Nosocomial Infections Surveillance System at http://www.cdc.gov/ncidod/hip/surveill/nnis.htm.

Acknowledgments

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Clostridial Endophthalmitis After Cornea Transplantation — Florida, 2003

Endophthalmitis is a severe condition caused by inflammation of the ocular cavity that often is associated with infection of the internal structures of the eye. The source of infection can include bacteria disseminated through the bloodstream and contamination of the cornea at the time of ocular surgery or trauma. Complications include rapid, irreversible vision loss that can progress quickly to panophthalmitis, requiring surgical removal of the eye (1). Clostridium perfringens, an anaerobic gram-positive bacillus found in soil and bowel flora, is an infrequent cause of endophthalmitis. Although the majority of cases are caused by penetrating injury with soilcontaminated foreign bodies, C. perfringens endophthalmitis has been reported in patients after cataract surgery (2,3). This report describes two cases of C. perfringens endophthalmitis that occurred within 24 hours after transplant of contaminated corneas. These cases demonstrate the potential for transmission of *Clostridium* infection from donor to recipient. Clinicians should be aware of potential infection risks associated with transplantation of corneal tissues and report any infections to the appropriate eye bank.

In February 2003, two patients received corneal transplant of the right eye on the same day in the same facility. The corneas used for both patients were recovered from one donor, a woman aged 55 years who died from metastatic colon cancer.

The first patient, a man aged 64 years, had severe eye pain, nausea, and vomiting within 12 hours after surgery. He had increased intraocular pressure and decreased light perception in the eye in which the cornea was transplanted. Eye examination was consistent with endophthalmitis without evidence of periorbital or orbital involvement. The patient underwent a vitrectomy and was treated with intraocular vancomycin and ceftazadime. Two days after the surgery, inflammation of the eye persisted, but no evidence of systemic illness was found. Repeat vitrectomy was performed, and clindamycin and gentamicin were injected for treatment of suspected bacillus endophthalmitis; systemic penicillin G and clindamycin were started. Cultures of fluid inside the eye yielded C. perfringens. With treatment, the patient's infection resolved; however, he continued to have minimal light perception and retinal detachment and necrosis.

The second patient, a man aged 80 years, was determined on routine evaluation 1 day after surgery to have decreased visual acuity (20/400) and probable early endophthalmitis in the eye in which the cornea was transplanted. Infection progressed to severe endophthalmitis; however, he had no evidence of periorbital or orbital extension of the infection and no signs of systemic illness (Figure). Intraocular vancomycin and ceftazadime were administered. Two days after surgery, the patient's visual acuity had diminished to only light perception. The patient underwent an additional vitrectomy and was administered intraocular clindamycin and gentamicin with systemic clindamycin and penicillin G. Intraocular cultures also yielded *C. perfringens*. On followup, he recovered 20/200 vision, which was consistent with his preexisting maculopathy.

Cultures of both donor corneas, collected immediately before transplantation, subsequently grew *C. perfringens*.

FIGURE. *Clostridium perfringens* endophthalmitis of the right eye after transplant of contaminated cornea



Photo/WT Driebe, M.D., University of Florida

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("rek-ə-mən-'dā-shən) 1 : something, such as a course of action, that is recommended; see also *MMWR*.



know what matters.



Review of data from the eye bank indicated that the donor body was refrigerated within 3 hours after death; eyes were recovered approximately 8 hours after death. The corneal tissues had undergone tissue processing as recommended by the Eye Bank Association of America (EBAA) (4). The donor tissue had been maintained in a solution of gentamicin and streptomycin, and transplantation was completed within 48 hours of tissue recovery. The eye bank and the surgeon had evaluated the donor tissue by slit lamp examination and found no abnormalities. No other tissues were recovered from this donor. Both cases were reported by the eye bank to EBAA as recommended.

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Editorial Note: This report describes the first reported cases of clostridial endophthalmitis associated with transplantation of contaminated corneal tissue. During 1991–2002, a total of 414,648 donor corneas were distributed for keratoplasty in the United States by EBAA-member eye banks (5). Of 230 cases of culture-positive or clinically suspected microbial endophthalmitis among corneal transplant recipients reported during 1991–2002, no cases of endophthalmitis were reported to be caused by clostridia (EBAA, unpublished data, 2003). These data indicate that corneal transplantation in the United States has a very low risk for endophthalmitis.

Clostridial infections after implantation of contaminated allografts were first reported in 2001 among recipients of musculoskeletal tissues from cadaveric donors (6). In that investigation, clostridia were recovered both from tissue recipients and from the donors of the tissues. Difficulties in detecting bacteria in postprocessing cultures led to release of the contaminated allografts. Cultures of the corneas collected immediately before implantation yielded C. perfringens, indicating that the tissue donor likely had disseminated C. perfringens disease. The donor's death was attributed to metastatic colon cancer; abdominal cancer is a known risk factor for C. perfringens bloodstream infection (7). Neither cornea recipient acquired systemic infection; however, both had serious complications from infection, and one experienced substantial vision loss. The findings from this investigation underscore the serious infectious complications that can occur from transplanted allografts containing clostridia.

EBAA recommends that corneal tissue should be recovered by specially trained personnel using sterile technique (4). Methods used by eye banks for processing corneal grafts include treatment with antimicrobials or bactericidal washes (e.g., povidone iodine) (8); however, these methods do not inactivate spores. Corneas used for transplant are not sterilized because existing methods (e.g., irradiation) make the tissues unsuitable for transplant. Food and Drug Administration (FDA) regulations regarding corneal tissue address the medical suitability of donors and screening for infections caused by human immunodeficiency virus types 1 and 2, hepatitis C virus, and hepatitis B virus (9). Neither FDA nor EBAA provide guidance specifically for detecting or inactivating clostridial spores on corneal allograft tissues.

Cultures of corneal tissue are not performed routinely by eye banks before a corneal transplant procedure. Eye banks may elect to perform presurgical (e.g., corneal-scleral rim) cultures, and positive culture reports should be reported to the receiving surgeon or recipient eye bank. Cultures may be performed either before or at the time of surgery (4). However, presurgical cultures might not reliably predict endophthalmitis complicating corneal transplantation (10). For the two cases described in this report, culture results were not available early enough in the infection to prevent disease in recipients. If a corneal culture obtained at surgery identifies a pathogen, clinicians should evaluate the patient's condition promptly and consider initiation of appropriate therapy.

Metastatic colon cancer alone is not a factor that prompts deferral of a donor; however, the medical director should evaluate information about any potential donor with metastatic colon cancer to determine whether the donation should proceed. The risk for clostridial disease from corneas should be a consideration for tissue bank directors when evaluating potential donors with metastatic colon cancer. EBAA recommends that surgeons report adverse events, including cases of *C. perfringens* endophthalmitis, to eye banks and subsequently to EBAA within 30 days of the occurrence for review by a medical advisory board (4). State health departments, CDC, and FDA should be notified to assist with investigations.

Acknowledgments

This report is based in part on data provided by EJ Holland, MD, KR Wilhelmus, MD, Eye Bank Association of America, Washington, DC.

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Update: Creutzfeldt-Jakob Disease Associated with Cadaveric Dura Mater Grafts — Japan, 1979–2003

In 1997, a nongovernment surveillance group for Creutzfeldt-Jakob disease (CJD) in Japan supported financially by the Ministry of Health and Welfare* (MHW) reported 43 cases of CJD associated with receipt of cadaveric dura mater grafts (1). In all but one case, the most probable vehicle of transmission was a single brand of dural graft (LYODURA[®] [B. Braun Melsungen AG, Melsungen, Germany]) produced before May 1987. As of March 2003, ongoing surveillance in Japan had identified an additional 54 dura mater graft-associated cases. This report summarizes the investigation of the 97 cases, which indicated that during 1983-1987, the estimated minimum risk for CJD within 17 years of receipt of the implicated product in Japan was approximately one case per 1,250 grafts. No cases have been reported among patients who received their first dural graft after 1991; however, because of the long latency period between graft placement and symptom onset, additional cases of graft-associated CJD are likely to be reported.

During 1996–2003, cases of CJD were identified in Japan by using 1) a mail survey of neurologic, psychiatric, and neuropathologic institutions (overall response rate: 74%) (1) and 2) subsequent reporting of CJD patients by clinicians to MHW. During this period, 97 cadaveric dura mater graft– associated CJD cases were identified. A case of dura mater– associated CJD was defined as a case in which a patient received a cadaveric dura mater graft and subsequently had CJD diagnosed by a physician and reviewed and accepted as CJD by a surveillance panel of neurologists.

The 97 CJD patients had illness onset during September 1985–April 2002 (Figure 1). Median age at onset was 58 years (range: 15–80 years); mean age was 55 years. Mean age at

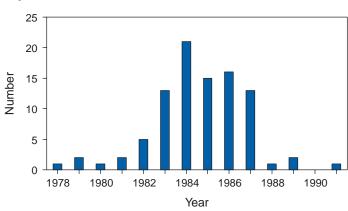
nce group for upported finanre* (MHW) reint of cadavaria on set was younger than that reported for sporadic CJD in Japan (66 years). A total of 58 (60%) patients were female. Neuropathologic confirmation of CJD diagnosis was obtained for 20 (21%) patients; 65 (84%) of the other 77 patients with

* N = 97.

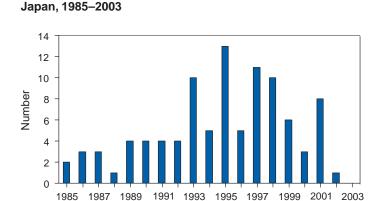
a periodic synchronous discharge pattern consistent with CJD. All 97 patients received dura mater grafts during 1978–1991 (Figure 2). Three patients received more than one dural graft during this period, including one patient reported previously (1). In all three cases, the first graft was considered to be the source of infection. Medical conditions leading to the use of dural grafts in these patients included tumor (n = 46), brain hemorrhage (n = 14), Jannetta procedure for facial palsy (n = 13) and for trigeminal neuralgia (n = six), intracranial aneurysm (n = eight), unspecified anomalies (n = five), hematoma (n = three), injury (n = one), and ossification of the spinal posterior longitudinal ligament (n = one).

physician-diagnosed CJD had an electroencephalogram with

FIGURE 2. Number of cases of Creutzfeldt-Jakob disease associated with dura mater grafts, by year of procedure — Japan, 1978–1991







Year

FIGURE 1. Number* of cases of Creutzfeldt-Jakob disease

associated with dura mater grafts, by year of illness onset -

^{*}Subsequently named the Ministry of Health, Labor, and Welfare.

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Latency periods ranged from 14 months (receipt in 1987 and onset in 1989) to 275 months (receipt in 1978 and onset in 2001). The median and mean latency periods were 122 and 125 months, respectively. A total of 93 patients received dural grafts during 1978–1987. In 1987, the manufacturer revised collection and processing procedures for the implicated product to reduce the risk for CID transmission. Four patients received grafts during 1988–1991. No cases have been reported among patients who received their first dural graft after 1991. A total of 86 (89%) patients were documented to have received LYODURA®; the brand name of dural graft was unknown for 11 patients. A total of 81 (84%) of the 97 patients received their dural grafts during 1983–1987, during which time an estimated 100,000 patients received LYODURA[®] grafts in Japan. All 81 patients died from CJD within 17 years after receipt of the grafts. Lot numbers of the dura mater grafts used for the 97 patients could not be identified. As of September 2003, five additional cases were under investigation in Japan for suspected dural graft-associated CJD.

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Editorial Note: Dural graft-associated CJD cases continue to be identified in Japan. The estimated minimum risk within 17 years after receipt of LYODURA® is approximately one case per 1,250 recipients. The precise number of dura mater grafts used in Japan is unknown, but an estimated 20,000 grafts per year might have been used during 1983–1987. The widespread use of LYODURA® during neurosurgical procedures in Japan is the most probable source of the unusually high number of dural graft-associated CJD cases in Japan (2). Dural graft recipients have symptom onset at a younger age compared with age at onset in sporadic cases of CJD in Japan. The identification of additional cases over time has resulted in an expected increase in the latency period between dural graft placement and symptom onset. The mean and range for this latency of CJD from contaminated grafts is unknown, but the upper limit now exceeds 22 years. The occurrence of new cases, the increase in the mean and range of the latency period, and the identification of suspected cases under investigation all suggest that this outbreak is ongoing.

No cases in Japan were reported to be related to receipt of a dural graft other than LYODURA[®]. For 11 cases, the manufacturer brand name was unknown. Although LYODURA[®], or in one case either LYODURA[®] or a dural graft from another manufacturer (Tutoplast[®] [Pfrimmer-Viggo GmbH & Co., Erlangen, Germany]), was suspected in these cases, documentation of a specific source was unavailable. Four patients received dural grafts after collection and processing procedures were revised by the manufacturer in 1987, but whether the implicated dural grafts were LYODURA[®] produced before 1987 is unknown. That all LYODURA[®]-associated CJD cases to date occurred among patients who received grafts before 1992 suggests that all implicated grafts likely were processed before 1987; the implicated product's expiration date is 5 years after processing.

LYODURA[®] never was produced by the manufacturer for distribution in the United States, and relatively few LYODURA[®] grafts were used in this country. In May 1987, after identification of the first dural graft–associated CJD case in a U.S. patient who had received the implicated product, the manufacturer revised its procedures for collecting and processing dura mater grafts to reduce the risk for CJD transmission (e.g., by discontinuing the commingling of dura and disinfecting them with sodium hydroxide) (3,4). Subsequently, numerous other dura mater graft–associated cases were identified worldwide; nearly all patients had received the implicated product, including one additional U.S. patient. In 1997, the report of 43 cases of dura mater graft–associated CJD in Japan represented the largest cluster of such cases in any one country (1).

In one of the CJD cases reported in Japan, the implicated graft was used in a spinal (not an intracranial) procedure. This case suggests that transmission from contaminated dura might occur in areas of the neuraxis outside of the cranial vault.

In 1997, the Food and Drug Administration's Transmissible Spongiform Encephalopathy Advisory Committee (TSEAC) recognized that the use of human dura mater in the United States carries an inherent risk for transmitting CJD. However, the committee recommended that the use of such grafts be left to the discretion of the treating neurosurgeon, provided that the human dura mater is procured and processed according to appropriate safety measures (5). In 1997, an estimated 4,500 dural grafts were distributed for use in the United States (6). After the TSEAC recommendations were issued, the number of dural grafts distributed for use in the United States declined to an estimated 900 grafts in 2002 (B.E. Buck, M.D., Miami Tissue Bank, personal communication, 2003).

The cases described in this report indicate that recipients of contaminated dura mater grafts might remain at risk for CJD for >22 years after receiving grafts. CDC continues to conduct surveillance for cases of CJD in the United States. Patients with a rapidly progressive dementia consistent with CJD and a history of dural graft implantation should be reported through local or state health departments to CDC, telephone 404-639-3091.

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Partner Counseling and Referral Services to Identify Persons with Undiagnosed HIV — North Carolina, 2001

Approximately one fourth of the 850,000–950,000 persons living with human immunodeficiency virus (HIV) in the United States are not aware of their infection and their risk for transmitting HIV (1). Identifying HIV-infected persons promptly after infection and directing them to medical care and prevention services is a national priority. Voluntary partner counseling and referral services (PCRS) help HIV-infected persons notify sex and needle-sharing partners of their need for HIV testing, enabling partners to receive early care and prevention counseling (2). To evaluate the success of these services in North Carolina, CDC analyzed PCRS data collected in 2001 by the North Carolina Department of Health and Human Services (NCDHHS). This report summarizes the results of that analysis, which determined that 125 (20.5%) of 610 tested partners of HIV index patients had HIV infections that were undiagnosed previously. These findings suggest that local and state health departments should consider PCRS an essential component of any comprehensive HIVprevention program.

In 1989, NCDHHS began offering PCRS to clients who tested HIV positive in confidential and anonymous testing venues. HIV infections were made reportable in 1990, and anonymous counseling and testing services were discontinued in 1997. PCRS in North Carolina is conducted by a disease intervention specialist (DIS), a trained health-care professional who 1) investigates health-care provider or laboratory reports of new HIV infections; 2) verifies that patients have not been reported as HIV positive previously; 3) contacts patients' health-care providers to initiate PCRS and obtain demographic and clinical information; 4) conducts voluntary, confidential interviews requesting information regarding all sex and needle-sharing partners during the preceding year; 5) assesses potential for partner violence; and 6) ensures that index patients receive HIV-prevention counseling, care, and case management.

After obtaining partner information, the DIS searches confidential public health records to identify partners reported previously with HIV infection and then contacts the remaining partners to inform them they might have been exposed to HIV. All notified partners receive risk-reduction counseling and appropriate referrals; partners are either referred to clinicbased HIV testing services or provided voluntary testing in the field. The DIS attempts to document that all locatable partners are notified and receive or decline HIV testing.

This analysis used data collected in 2001 regarding indexpatient demographics and partner notification and testing outcomes. Pearson chi square and Fisher's exact test were used to test associations between partner outcomes and the age, race/ethnicity, HIV-exposure category, and diagnosing clinic type (i.e., public or private) of index patients. For PCRS outcomes significant at the p<0.05 level, pairwise comparisons were performed by using a Bonferoni adjustment for multiple comparisons.

In 2001, a total of 1,603 persons were newly reported with HIV infection in North Carolina. DIS personnel were assigned to conduct PCRS with 1,580 (99%) of these index patients; 1,379 (87%) were located and interviewed. Through PCRS, 1,532 sex or needle-sharing partners were identified; the partner index (i.e., number of identified partners divided by number of index patients interviewed) was 1.1. Of the 1,532 named partners (Figure), 173 (11%) could not be notified, 592 (39%) had been tested previously for HIV, and 767 (50%) had not been tested previously for HIV. Among the 592 partners tested previously for HIV, 404 (68%) had tested HIV positive. Among the remaining 188 partners who had tested HIV negative previously and were notified, 122 (65%) were retested; 17 (14%) of those retested were HIV positive. Among the 767 partners not tested previously for HIV infection, 488 (64%) were tested after PCRS; 108 (22%) of those newly tested partners were HIV positive.

1,532 partners . identified 173 592 767 could not tested not tested be notified previously for HIV previously for HIV 404 188 tested tested HIV positive HIV negative previously previously 66 122 488 279 not tested retested tested not tested after after after after PCRS PCRS PCRS PCRS 105 tested 17 tested 108 tested 380 tested HIV negative HIV positive HIV positive HIV negative

Overall, one new HIV case was diagnosed for every 11 index patients interviewed through PCRS. Among the 1,128 partners (i.e., 1,532 identified partners minus the 404 known positives) not known to have tested HIV positive previously, 955 (85%) were notified and counseled; 610 (64%) of those 955 were tested or retested for HIV infection; 125 (20%) of the 610 tested positive for HIV infection. Among persons testing positive, 121 (97%) received their test results; four could not be contacted.

The proportion of index patients located and interviewed did not vary significantly by age, race/ethnicity (Table 1), or HIV-exposure category. Index patients whose HIV infections were diagnosed in private facilities were slightly less likely to be located and interviewed than those with infections diagnosed in public facilities (Table 2); however, in both venue types, the yield was high (>85%). Partners of index patients whose HIV infections were diagnosed in private facilities also were less likely to have tested HIV positive previously, to have been notified and counseled by a DIS, and to have received HIV testing after PCRS (Table 2). Partners of non-Hispanic white index patients were more likely than partners of non-Hispanic black and Hispanic index patients to be notified and counseled but less likely to have received HIV testing after PCRS (Table 1). The proportion of tested partners with newly diagnosed HIV did not vary by index patient age, race/ ethnicity, HIV-exposure category, or diagnosing clinic type.



FIGURE. Outcomes of partner counseling and referral services (PCRS) for sex and needle-sharing partners of HIV index patients — North Carolina, 2001

TABLE 1. Outcomes of partner counseling and referral services (PCRS) for sex and needle-sharing partners of HIV patients, by race/ ethnicity of index patient — North Carolina, 2001

	Index patient												
-	White, non	-Hispanic	Black, non-	Hispanic	His	panic	Ot	her*	Total [†]				
PCRS outcomes	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	p value§		
Index patients													
Assigned	291	_	1,117	_	104	_	21	_	1,580	_			
Interviewed	243/291	(84)	982/1,117	(88)	92/104	(88)	19/21	(90)	1,379/1,580	(87)	0.2		
Partners													
Elicited	242	_	1,168	_	63	_	31	_	1,532	_			
Partner index (PI) [¶]	242/243	PI = 1.0	1,168/982	PI = 1.2	63/92	PI = 0.7	31/19	PI = 1.6	1,532/1,379	PI = 1.1			
Previously HIV positive	54/242	(22)	310/1,168	(27)	24/63	(38)	11/31	(35)	404/1,532	(26)	<0.06		
Counseled/eligible**	170/188	(90)	720/858	(84) ^{††}	29/39	(74) ^{††}	17/20	(85)	955/1,128	(85)	< 0.04		
Tested	93/170	(55)	468/720	(65)††	27/29	(93) ^{††}	12/17	(71)	610/955	(64)	<0.001		
Found HIV positive	17/93	(18)	96/468	(21)	9/27	(33)	3/12	(25)	125/610	(20)	0.4		

* Includes 16 American Indian/Alaska Natives and five Asian/Pacific Islanders.

Includes 47 persons of unknown race/ethnicity.

⁹ Calculated for persons with known race/ethnicity.

[¶] Number of partners elicited / number of index patients interviewed.

** Eligible partners are those not previously testing HIV positive.

¹¹ Significant pairwise difference (reference = white, non-Hispanic) at the α <0.025 level (using Bonferoni adjustment for multiple comparisons).

TABLE 2. Outcomes of partner counseling and referral services (PCRS) for sex and needle-sharing partners of HIV patients, by clinic type at index patient's diagnosis — North Carolina, 2001

	Public	facility*	Private	facility	Tota	<u> </u>	
PCRS outcomes	No.	(%)	No.	(%)	No.	(%)	p value
Index patients							
Assigned	492	_	1,088	_	1,580	_	
Interviewed	443/492	(90)	936/1,088	(86)	1,379/1,580	(87)	0.03
Partners							
Elicited	584	_	948	_	1,532	_	
Partner index (PI) [†]	584/443	PI = 1.3	948/936	PI = 1.0	1,532/1,379	PI = 1.1	
Previously HIV positive	198/584	(34)	206/948	(22)	404/1,532	(26)	< 0.001
Counseled/eligible§	339/386	(88)	616/742	(83)	955/1,128	(85)	0.03
Tested	232/339	(68)	378/616	(61)	610/955	(64)	0.03
Found HIV positive	54/232	(23)	71/378	(19)	125/610	(20)	0.2

*North Carolina Department of Health and Human Services facilities (i.e., sexually transmitted disease clinics, HIV counseling and testing sites, and _prenatal clinics).

Number of partners elicited / number of index patients interviewed.

[§]Eligible partners are those not previously testing HIV positive.

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Editorial Note: After receiving an HIV-positive test result, patients often reduce or discontinue behaviors that might lead to further HIV transmission (*3*). The results of this analysis indicate that PCRS can effectively identify sex and needle-sharing partners with previously undiagnosed HIV infection. Among 610 partners tested or retested for HIV infection after PCRS, 125 (20.5%) tested positive for HIV. In contrast, of the 109,172 HIV tests performed in 2001 at HIV counseling and testing sites in North Carolina, only 764 (0.7%) were positive. Among the 1,359 partners who were notified and counseled, 767 (56.4%) had not been tested previously,

suggesting that PCRS can be effective in locating persons at risk for HIV infection who are not receiving HIV counseling and testing services through other programs.

Certain persons continue high-risk behaviors even after learning they are HIV positive or at risk for infection. Of the 1,532 partners identified, 404 (26.4%) had tested HIV positive previously, indicating that PCRS can locate HIV-positive persons who remain at high risk for transmitting infection and refer them to prevention case management and care. Through retesting, PCRS also identified 17 (13.9%) HIVpositive partners among 122 who had tested negative previously, suggesting that certain persons who test HIV negative continue to engage in high-risk behavior and need reassessment of HIV status and ongoing prevention services.

A new CDC initiative, Advancing HIV Prevention: New Strategies for a Changing Epidemic, is aimed at reducing

barriers to early diagnosis of HIV infection and increasing access to quality medical care, treatment, and ongoing prevention services (4). A key strategy in the initiative is preventing new infections by counseling HIV-positive persons and their partners. PCRS can be a cost-effective method for combating the spread of HIV infections (5–7). Successful programs will require 1) extensive work with the community and health-care providers to gain support for PCRS; 2) intensive DIS training, close supervision, and quality assurance; and 3) full integration of PCRS into a comprehensive program of HIV care and prevention services.

CDC helps fund comprehensive local and state programs aimed at reducing HIV transmission. Because PCRS is an effective counseling and testing strategy that targets persons at high risk for HIV, CDC requires funded health departments to include PCRS among their HIV-prevention services. Because PCRS cannot function effectively in isolation, health officials should work closely with community-based organizations and other service providers to develop strategies for integrating PCRS into a comprehensive counseling, testing, referral, and care program (8).

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Public Health Dispatch

Tuberculosis Outbreak in a Homeless Population — Portland, Maine, 2002–2003

During June 2002–July 2003, seven men with active pulmonary tuberculosis (TB) disease in Portland, Maine, were reported to the Maine Bureau of Health (MBH). Six were linked through residence at homeless shelters; four had matching *Mycobacterium tuberculosis* genotypes. Prompt investigation and identification of approximately 1,100 contacts likely prevented further spread of TB. This report summarizes preliminary results of the ongoing investigation and MBH efforts to work with health-care providers statewide to improve early detection of TB among homeless persons.

The median age of patients was 51 years (range: 39–66 years); all were U.S.-born. Six were non-Hispanic white, and one was American Indian. Culture specimens from all seven patients were positive for *M. tuberculosis*, and all isolates were susceptible to first-line drugs. Three (43%) patients had cavitary pulmonary disease, an indication of increased infectiousness (1). Three (43%) were infected with hepatitis C virus, and one of these also was infected with human immunodeficiency virus. Six (86%) patients had a history of alcoholism.

During the year preceding their diagnoses, five (71%) TB patients resided at the same homeless shelter in Portland; six (86%) had been incarcerated in the county jail. During the contact investigation for patient 1 in June 2002, patient 3 was screened and determined to have a productive cough and history of latent TB infection (LTBI). Medical records showed evidence consistent with active TB disease, including chest radiograph abnormalities; however, TB was not diagnosed in patient 3 until 9 months after the contact investigation. Patient 6 also had LTBI diagnosed during patient 1's contact investigation but was not treated; patient 6 had active TB disease diagnosed 1 year later. Medical records corroborated by genotyping results suggest that delayed diagnosis in patient 3 resulted in prolonged infectiousness and contributed to TB transmission to patients 4, 5, and 6. In February 2003, patient 2 had active TB disease diagnosed while residing at the shelter with patients 1, 3, and 6; patients 3 and 6 were determined to be infectious at that time. Patient 7 had active TB disease diagnosed while incarcerated in the county jail in July 2003.

M. tuberculosis isolates from all seven patients were genotyped by using spoligotyping, mycobacterial interspersed repetitive units analysis, and IS6110–based restriction fragment length polymorphism analysis. Patients 1, 2, and 7 had unique genotypes. Patient 3 (the presumed source patient) and patients 4, 5, and 6 had matching genotypes.

As of November 20, 2003, the investigation had identified 1,069 contacts, 36 (3.4%) of whom reported having a positive tuberculin skin test (TST) result previously. Among the 1,033 persons eligible for a TST, 648 (62.7%) received at least one test, and 56 (8.6%) of these had a positive result; 15 (26.7%) of the 56 are receiving, and one completed, therapy for LTBI. A total of 163 (15.2%) contacts had chest radiographs; no additional active cases were detected.

Active TB case-finding for this investigation is ongoing. MBH continues to work with health-care providers to improve early detection of TB among homeless persons and other populations at high risk, and to increase treatment for LTBI.

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Notice to Readers

National Drunk and Drugged Driving Prevention Month — December 2003

December has been designated by presidential proclamation as National Drunk and Drugged Driving Prevention Month (3D Month) and is supported by hundreds of public and private sector organizations devoted to preventing impaired-driving crashes. During 2002, alcohol-related motorvehicle crashes resulted in 17,419 deaths in the United States, accounting for 41% of all traffic fatalities (1). During 1993– 2002, on the basis of data provided by the National Highway Traffic Safety Administration (NHTSA) (1,2) and the U.S. Census Bureau (3), the rate of fatalities in alcohol-related motor-vehicle crashes decreased 13%, from 6.9 to 6.0 per 100,000 persons (1–3). One of the national health objectives for 2010 is a target rate for alcohol-related traffic fatalities of no more than four per 100,000 persons (objective 26-1a) (4). To meet this objective, the annual rate of alcohol-related traffic fatalities must decline an additional 33%.

To achieve the national health objective, communities need comprehensive and effective strategies to prevent alcohol-impaired driving. CDC recently evaluated the effectiveness of mass media campaigns; such campaigns are effective when their messages are carefully researched and well-executed and the audience is given sufficient exposure to them (5). Five other interventions that have been reported previously to be effective are sobriety checkpoints, 0.08% blood alcohol concentration laws, minimum legal drinking age laws, zero tolerance laws for young or inexperienced drivers, and server intervention training programs (6). All six interventions have

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been recommended by the Task Force on Community Preventive Services, an independent, nonfederal panel of community health consultants. Comprehensive approaches that implement effective interventions simultaneously hold the greatest promise for further reductions in alcohol-impaired driving.

The 3D Month program planner, which contains sample public service announcements, media tool kits, and program guidance for conducting 3D Month activities, is available from NHTSA at http://www.stopimpaireddriving.org. Alcoholimpaired driving also is a global health issue. The World Health Organization (WHO) has declared Road Safety as the theme for World Health Day 2004, to be held on April 7, 2004. Information about World Health Day is available from WHO at http://www.who.int/world-health-day/2004/en.

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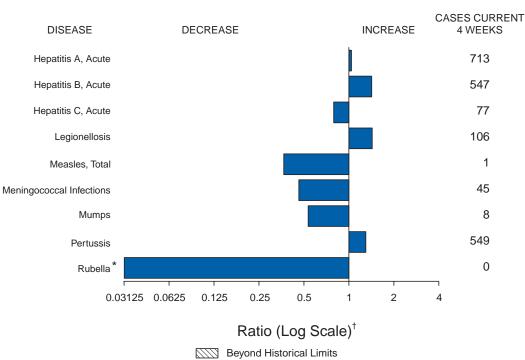
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Erratum: Vol. 52, No. 47

In the notice to readers, "Call for Abstracts: International Conference on Emerging Infectious Diseases," an error occurred on page 1161; the wrong year was printed in four references to the conference. The correct year is 2004, not 2000.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals November 29, 2003, with historical data



* No rubella cases were reported for the current 4-week period yielding a ratio for week 48 of zero (0). † Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TARLE I Summary of provisional access of calested petitishis diseases	United States, sumulative	week and ing Nevershar 20, 2002 (40th Week)*
TABLE I. Summary of provisional cases of selected notifiable diseases	, United States, cumulative	, week ending November 29, 2003 (46th week)

	Cum. 2003	Cum. 2002		Cum. 2003	Cum. 2002
Anthrax	-	2	Hansen disease (leprosy) [†]	49	79
Botulism:	-	-	Hantavirus pulmonary syndrome [†]	16	17
foodborne	11	26	Hemolytic uremic syndrome, postdiarrheal [†]	142	196
infant	58	62	HIV infection, pediatric ^{†§}	187	152
other (wound & unspecified)	27	18	Measles, total	44¶	39**
Brucellosis [†]	78	111	Mumps	184	244
Chancroid	43	64	Plague	1	1
Cholera	1	2	Poliomyelitis, paralytic	-	-
Cyclosporiasis [†]	61	156	Psittacosis [†]	14	16
Diphtheria	1	1	Q fever [†]	66	52
Ehrlichiosis:	-	-	Rabies, human	3	3
human granulocytic (HGE) [†]	323	294	Rubella	8	16
human monocytic (HME) [†]	183	186	Rubella, congenital	-	1
other and unspecified	41	22	Streptococcal toxic-shock syndrome [†]	131	104
Encephalitis/Meningitis:		-	Tetanus	13	21
California serogroup viral [†]	82	143	Toxic-shock syndrome	117	99
eastern equine [†]	10	7	Trichinosis	4	14
Powassan [†]	-	1	Tularemia ⁺	74	72
St. Louis [†]	31	20	Yellow fever	-	-
western equine [†]	2	-			

-: No reported cases.

Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date). t

Not notifiable in all states.

[§] Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update October 26, 2003.

Of 44 cases reported, 33 were indigenous, and 11 were imported from another country.

** Of 39 cases reported, 24 were indigenous, and 15 were imported from another country.

(48th Week)*		AIDS							Encephalit	is/Meningitis
	Al Cum.	DS Cum.	Chla Cum.	mydia [†] Cum.	Coccidio Cum.	domycosis Cum.	Cryptosp Cum.	oridiosis Cum.	We Cum.	st Nile Cum.
Reporting area	2003§	2002	2003	2002	2003	2002	2003	2002	2003	2002
UNITED STATES	38,482	38,707	752,483	764,792	3,805	3,822	3,030	2,781	1,741	2,588
NEW ENGLAND Maine	1,277 49	1,486 28	24,877 1,600	25,585 1,587	N	- N	163 19	186 11	6	27
N.H.	34	35	1,037	1,435	-	-	11	29 33	-	-
Vt. Mass.	15 518	12 753	969 10,607	862 10,074	-	-	31 69	76	-	18
R.I. Conn.	90 571	97 561	2,717 7,947	2,555 9,072	N	N	16 17	21 16	- 6	- 9
MID. ATLANTIC	9,040	9,061	101,872	86,184	-	-	372	386	170	130
Upstate N.Y. N.Y. City	853 4,989	1,022 5,280	18,487 32,452	15,464 28,202	N -	N -	126 89	133 135	7	44 28
N.J. Pa.	1,356 1,842	1,306 1,453	11,103 39,830	13,123 29,395	N	- N	7 150	15 103	16 147	23 35
E.N. CENTRAL	3,556	4,216	128,019	140,964	7	22	905	924	117	1,479
Ohio Ind.	718 482	757 483	29,019 15,216	35,173 15,978	N	N	164 97	118 55	106 1	312 18
III. Mich.	1,609 581	2,092 706	40,661 28,553	44,602 29,491	-7	2 20	80 130	119 126	1 9	554 545
Wis.	166	178	14,570	15,720	-	-	434	506	-	50
W.N. CENTRAL Minn.	685 144	712 149	42,732 8,916	43,368 9,458	1 N	1 N	543 142	386 186	369 49	188 17
Iowa	72 319	81 335	3,344 16,480	5,328	N	N	118 47	43 38	78 34	107
Mo. N. Dak.	2	3	1,274	14,805 1,110	Ν	Ν	13	24	9	-
S. Dak. Nebr.¶	10 52	10 66	2,370 4,241	2,009 4,357	- 1	- 1	40 18	30 49	65 47	14 35
Kans.	86	68	6,107	6,301	N	N	165	16	87	15
S. ATLANTIC Del.	10,692 195	11,380 181	143,001 2,764	145,295 2,481	5 N	4 N	372 4	307 3	171 12	68
Md. D.C.	1,285 859	1,670 769	15,341 2,928	15,336 3,094	5	4	23 17	19 5	44	21
Va. W.Va.	819 79	811 79	15,945 2,392	17,070 2,287	- N	- N	44 4	24 2	17 1	- 2
N.C.	1,006	952	24,199	23,029	N	N	47	32	-	-
S.C. ¹ Ga.	719 1,667	777 1,543	14,425 28,171	13,535 29,927	-	-	8 120	6 117	1 46	1 21
Fla.	4,063	4,598	36,836	38,536	N	N	105	99	50	23
E.S. CENTRAL Ky.	1,704 175	1,829 287	47,608 7,381	48,180 8,124	N N	N N	114 24	115 8	44 11	274 42
Tenn. Ala.	738 390	745 389	18,566 11,046	14,852 14,608	N	N	38 42	53 45	17 16	8 34
Miss.	401	408	10,615	10,596	N	N	10	9	-	190
W.S. CENTRAL Ark.	4,110 165	3,834 224	93,110 7,107	99,522 6,796	4	12	87 17	61 8	480 22	419 11
La. Okla.	522 176	898 180	16,137 10,147	17,461 10,150	N N	N N	2 18	9 16	47 25	204
Tex.	3,247	2,532	59,719	65,115	4	12	50	28	386	204
MOUNTAIN Mont.	1,342 13	1,307 11	40,843 1,821	47,475 2,063	2,374 N	2,377 N	126 18	149 5	380 216	3 1
Idaho Wyo.	21 7	28 8	2,252 884	2,301 856	N 1	N	26 5	28 9	- 92	1
Colo.	328	283	9,872	13,156	N	Ň	34	55	-	-
N. Mex. Ariz.	103 584	81 551	6,284 11,660	6,825 13,596	8 2,312	7 2,315	10 6	18 16	68 1	- 1
Utah Nev.	60 226	62 283	3,229 4,841	3,176 5,502	18 35	11 44	19 8	14 4	1 2	-
PACIFIC	6,076	4,882	130,421	128,219	1,413	1,405	348	267	4	-
Wash. Oreg.	422 229	441 310	15,240 6,762	13,656 6,355	N -	N -	59 38	36 39	- 4	-
Calif. Alaska	5,321 15	3,993 30	101,664 3,304	100,645 3,394	1,413	1,405	250 1	189 1	-	-
Hawaii	89	108	3,451	4,169	-	-	-	2	-	-
Guam P.R.	6 944	2 1,042	- 1,761	598 2,336	N	- N	- N	- N	-	-
V.I. Amer. Samoa	31 U	70 U	208 U	125 U	U	U	U	U	- U	- U
C.N.M.I.	2	Ŭ	-	Ŭ	-	Ŭ	-	Ŭ	-	Ŭ

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending November 29, 2003, and November 30, 2002 (48th Week)*

N: Not notifiable.

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. * Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date). † Chlamydia refers to genital infections caused by *C. trachomatis.* § Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update October 26, 2003. ¶ Contains data reported through National Electronic Disease Surveillance System (NEDSS).

MMWR

(48th Week)*				, _				,,		
		Escher	<i>ichia coli</i> , Ente		<u>, , , , , , , , , , , , , , , , , , , </u>					
		57.117	-	n positive,	Shiga toxi		Cia	rdiacia		- who -
	Cum.	57:H7 Cum.	Cum.	o non-O157 Cum.	not sero Cum.	groupea Cum.	Cum.	rdiasis Cum.	Cum.	orrhea Cum.
Reporting area	2003	2002	2003	2002	2003	2002	2003	2002	2003	2002
UNITED STATES	2,392	3,488	251	180	123	50	16,681	19,182	286,681	324,771
NEW ENGLAND	152	254	53	46	16	6	1,311	1,650	6,578	7,181
Maine N.H.	10 12	37 33	3 2	8	1	-	172 22	194 41	162 76	126 115
Vt. Mass.	17 64	12 116	- 8	1 19	- 15	1 5	114 677	133 894	78 2,817	90 3,018
R.I.	1	12	-	1	-	-	106	145	867	843
Conn.	48	44	40	17	-	-	220	243	2,578	2,989
MID. ATLANTIC Upstate N.Y.	225 90	390 157	19 11	1 -	35 17	7	3,264 980	3,923 1,154	38,849 7,244	39,318 7,985
N.Y. City N.J.	5 20	18 59	- 1	-	-	- 1	1,045 314	1,347 454	12,794 6,292	11,787 7,207
Pa.	110	156	7	1	18	6	925	968	12,519	12,339
E.N. CENTRAL Ohio	541 127	820 151	23 17	31 11	22 21	6 5	2,732 855	3,354 874	57,535 16,046	68,847 20,227
Ind.	88	75	-	1	-	-	-	-	6,092	6,913
III. Mich.	111 85	181 132	-	6 3	-	- 1	700 675	954 870	18,380 12,267	22,405 13,472
Wis.	130	281	6	10	1	-	502	656	4,750	5,830
W.N. CENTRAL Minn.	420 132	496 157	54 23	30 25	20 1	6	1,882 735	1,960 744	15,122 2,541	16,734 2,863
Iowa	102	117	-	-	-	-	253	293	775	1,267
Mo. N. Dak.	84 13	68 18	18 4	-	1 8	2	471 35	471 31	7,864 72	8,225 70
S. Dak. Nebr.	28 33	40 65	4 4	2 3	-	-	82 110	74 170	208 1,414	253 1,452
Kans.	28	31	1	-	10	4	196	177	2,248	2,604
S. ATLANTIC Del.	143 11	348 9	67 N	34 N	9 N	1 N	2,593 46	2,743 53	71,042 1,045	82,483 1,486
Md.	11	27	-	-	-	-	111	107	7,276	8,431
D.C. Va.	1 37	- 66	- 11	- 10	-	-	49 335	43 305	2,335 7,310	2,472 9,643
W. Va. N.C.	5	9 130	- 29	-	-	1	40 N	57 N	786 13,956	901 14,694
S.C.	2	5	-	-	-	-	130	132	7,781	8,704
Ga. Fla.	30 42	43 59	4 23	8 16	- 9	-	859 1,023	856 1,190	14,196 16,357	16,466 19,686
E.S. CENTRAL	79	105	2	-	7	10	327	369	23,549	27,885
Ky. Tenn.	26 34	30 46	2	-	7	10	N 168	N 176	3,298 7,749	3,476 8,711
Ala.	13 6	18 11	-	-	-	-	159	193	7,037	9,444 6,254
Miss. W.S. CENTRAL	85	106	5	2	9	9	- 274	238	5,465 38,441	6,254 44,602
Ark.	12	11	-	-	-	-	138	160	3,612	4,294
La. Okla.	3 28	4 22	-	-	-	-	10 125	6 69	9,683 4,168	10,799 4,377
Tex.	42	69	5	2	9	9	1	3	20,978	25,132
MOUNTAIN Mont.	315 16	328 30	24	29	5	5	1,503 106	1,566 87	8,889 96	10,426 106
Idaho	79	42	15	18	-	-	181	122	67	87
Wyo. Colo.	4 71	14 97	1 3	2 6	5	5	21 418	29 537	40 2,377	55 3,249
N. Mex. Ariz.	10 39	12 33	4 N	3 N	N	N	48 245	140 189	1,007 3,201	1,371 3,396
Utah	73	72	-	-	-	-	351	310	342	335
Nev. PACIFIC	23 432	28 641	1 4	- 7	-	-	133 2,795	152 3,379	1,759 26,676	1,827 27,295
Wash.	108	139	1	-	-	-	322	414	2,517	2,686
Oreg. Calif.	97 215	203 256	3	7	-	-	372 1,937	416 2,357	901 21,935	822 22,529
Alaska Hawaii	4 8	7 36	-	-	-	-	82 82	108	495 828	571 687
Guam	o N	36 N	-	-	-	-	- 62	84 7	020	45
P.R.	-	1	-	-	36	-	129	81	188	323
V.I. Amer. Samoa	U	U	U	U	U	U	U	U	55 U	31 U
C.N.M.I.	-	U	-	U	-	U	-	U	-	U

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending November 29, 2003, and November 30, 2002 (48th Week)*

		Haemophilus influenzae, invasive†												
	All a	ges			Age <	j years			(viral, acu	te), by type				
	All sero		Serot		Non-sei		Unknown		_	A				
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002				
UNITED STATES	1,519	1,527	20	28	84	128	169	141	6,672	8,196				
NEW ENGLAND	113	113	1	-	5	10	5	2	303	282				
Maine N.H.	4 11	1 10	- 1	-	-	-	1	-	16 11	8 11				
Vt.	9	7	-	-	-	-	-	-	6	1				
Mass. R.I.	50 9	43 10	-	-	5	4	3 1	2	186 15	140 30				
Conn.	30	42	-	-	-	6	-	-	69	92				
MID. ATLANTIC	333	279	-	2	2	15	46	22	1,616	1,058				
Upstate N.Y. N.Y. City	122 56	107 66	-	2	2	4	13 10	8 9	136 405	173 425				
N.J.	55	52	-	-	-	-	7	5	137	177				
Pa.	100	54	-	-	-	11	16	-	938	283				
E.N. CENTRAL Ohio	220 65	294 75	4	3	11 -	12 1	32 11	42 9	651 158	997 287				
Ind.	45	38	1	1	7	7	-	-	71	46				
III. Mich.	69 21	116 15	- 3	2	- 4	- 4	15 1	20	184 195	258 213				
Wis.	20	50	-	-	-	-	5	13	43	193				
W.N. CENTRAL	113	69	2	1	7	2	15	6	183	275				
Minn. Iowa	47	45 1	2	1	7	2	2	4	45 28	39 64				
Mo.	40	13	-	-	-	-	12	2	68	80				
N. Dak. S. Dak.	3 1	4 1	-	-	-	-	-	-	1	3 3				
Nebr.	3	-	-	-	-	-	-	-	12	17				
Kans.	19	5	-	-	-	-	1	-	29	69				
S. ATLANTIC Del.	354	335	3	5	15	16	21	27	1,680 7	2,257 15				
Md.	84	84	1	2	7	4	1	1	165	292				
D.C. Va.	52	31	-	-	-	-	- 6	- 5	43 99	74 138				
W.Va. N.C.	15 36	17 31	-	-	- 3	1 3	- 2	1	15 104	20 202				
S.C.	4	12	-	-	-	-	1	2	36	60				
Ga. Fla.	59 104	77 83	- 2	- 3	- 5	- 8	5 6	12 6	817 394	463 993				
E.S. CENTRAL	73	65	1	1	2	5	10	13	245	255				
Ky.	6	7	-	-	2	1	-	2	31	41				
Tenn. Ala.	45 20	32 16	- 1	- 1	-	1 3	6 3	7 1	184 15	114 38				
Miss.	20	10	-	-	-	-	1	3	15	62				
W.S. CENTRAL	66	58	2	2	8	11	5	3	362	985				
Ark. La.	7 12	1 9	-	-	1	-	- 5	- 3	19 53	68 81				
Okla.	43	46	-	-	7	11	-	-	21	48				
Tex.	4	2	2	2	-	-	-	-	269	788				
MOUNTAIN Mont.	152	178	4	6	19 -	39	21	15	462 8	507 13				
Idaho	4	2	-	-	-	-	1	1	16	29 3				
Wyo. Colo.	2 36	2 32	-	-	-	-	-7	- 3	1 68	3 72				
N. Mex.	15	25	-	-	4	6	1	1	20	28				
Ariz. Utah	72 13	88 17	4	4	6 5	27 4	8 4	6 1	257 43	261 52				
Nev.	10	12	-	1	4	2	-	3	49	49				
PACIFIC	95	136	3	8	15	18	14	11	1,170	1,580				
Wash. Oreg.	11 41	3 53	-	2	7	1 -	3 4	- 3	62 56	145 59				
Calif.	20	43	3	6	8	17	4	4	1,032	1,341				
Alaska Hawaii	1 22	1 36	-	-	-	-	1 2	1 3	9 11	10 25				
Guam	-	-	-	-	-	-	-	-	-	1				
P.R.	-	1	-	-	-	-	-	-	50	220				
V.I. Amer. Samoa	U	U	U	U	U	U	U	U	U	U				
C.N.M.I. N: Not notifiable	- U: Unavailable	Ū	orted cases	Ŭ	-	Ū	-	Ū	-	Ū				

 TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 29, 2003, and November 30, 2002

 (48th Week)*

N: Not notifiable. U: Unavailable. -: No reported cases. * Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date). * Non-serotype b: nontypeable and type other than b; Unknown serotype: type unknown or not reported. Previously, cases reported without type information were counted as non-serotype b.

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(48th Week)*	,				,	,				
		epatitis (vira B	I, acute), by ty	rpe C	Legio	nellosis	Lister	riosis	Lvme	disease
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	6,560	6,828	1,761	1,670	1,846	1,181	572	606	16,442	20,827
NEW ENGLAND	238	278	6	20	96	109	43	59	3,214	6,816
Maine N.H.	1 11	12 21	-	-	2 6	4 7	7 3	5 4	212 95	102 243
Vt.	4	6	6	13	6	35	1	3	43	33
Mass. R.I.	182 18	146 28	-	6 1	40 15	43 5	14	33 1	1,064 564	1,791 335
Conn.	22	65	U	U	27	15	18	13	1,236	4,312
MID. ATLANTIC Upstate N.Y.	816 122	1,435 113	155 40	103 44	524 146	335 97	111 33	180 54	10,668 4,289	10,702 4,687
N.Y. City	271 165	703 307	-	- 5	48 62	61 32	19 15	39 34	5	58
N.J. Pa.	258	307	115	5 54	268	32 145	44	34 53	1,786 4,588	2,276 3,681
E.N. CENTRAL	376	644	148	112	366	277	68	84	788	1,240
Ohio Ind.	131 34	98 51	10 8	2	215 24	116 20	24 9	23 11	77 21	72 20
III.	1	141	17	22	3	26	8	21	33	47
Mich. Wis.	179 31	309 45	113	84 4	107 17	79 36	19 8	21 8	10 647	26 1,075
W.N. CENTRAL	311	214	252	626	61	64	21	17	418	368
Minn. Iowa	32 11	30 20	8 1	2 1	3 9	15 12	11	2 2	298 47	271 42
Mo. N. Dak.	223	109	241	607	32 1	19 1	5	9 1	59	39 1
S. Dak.	2 2	5 2	-	-	2	4	-	1	-	2
Nebr. Kans.	24 17	26 22	2	15	4 10	13	4 1	1 1	2 11	6 7
S. ATLANTIC	1,996	1,603	150	196	496	205	125	80	1,086	1,361
Del. Md.	7 124	13 121	- 17	- 12	27 127	10 47	N 26	N 19	175 600	184 710
D.C.	12	21	-	-	19	6	-	-	15	22
Va. W. Va.	180 37	189 18	7 4	15 3	90 17	30	8 6	7	86 22	202 17
N.C. S.C.	150 146	216 112	11 24	26 5	37 7	11 9	17 5	6 8	105 13	127 24
Ga.	740	429	5	63	32	19	32	14	16	2
Fla.	600	484	82	72	140	73	31	26	54	73
E.S. CENTRAL Ky.	402 71	362 51	78 17	129 4	89 41	47 21	30 8	21 4	60 15	69 22
Tenn. Ala.	186 57	129 96	18 7	26 10	32 13	18 8	8 12	12 4	16 5	25 11
Miss.	88	86	36	89	3	-	2	1	24	11
W.S. CENTRAL	1,057	976	799	326	60	33	42	35	77	138
Ark. La.	59 107	107 125	3 108	10 94	2 1	- 4	1 3	4	6	3 5
Okla. Tex.	41 850	69 675	2 686	5 217	7 50	3 26	3 35	9 22	- 71	- 130
MOUNTAIN	575	559	52	49	70	48	30	29	19	17
Mont. Idaho	16 8	9 7	2 1	1 1	4 3	3 1	2 2	- 2	- 3	- 4
Wyo.	29	17	-	5	2	2	-	-	2	2
Colo. N. Mex.	79 32	74 144	17	6 2	15 3	8 2	10 2	6 3	4	1 1
Ariz.	274	199	7	4	11	12	10	14	3	3
Utah Nev.	58 79	48 61	25	4 26	22 10	14 6	- 4	3 1	3 3	5 1
PACIFIC	789	757	121	109	84	63	102	101	112	116
Wash. Oreg.	64 101	67 120	15 14	24 12	10 N	5 N	5 5	8 9	3 16	10 12
Calif.	590	551	82	72	74	55	87	76	90	91
Alaska Hawaii	11 23	8 11	1 9	- 1	-	2 1	5	- 8	3 N	3 N
Guam	-	1	-	-	-	-	-	-	-	-
P.R. V.I.	81	173	-	-	-	-	-	2	N -	N
Amer. Samoa C.N.M.I.	U	U U	U	U U	U	U U	U	U U	U	U U
0.11.111.	-	0	-	U	-	0	-	U	-	U

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending November 29, 2003, and November 30, 2002 (48th Week)*

(48th Week)*							-		Rocky Mountain	
	Mal	aria		ococcal ease	Pert	ussis	Rabies	s, animal		lountain d fever
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	1,060	1,303	1,423	1,646	7,366	7,783	5,180	7,215	847	991
NEW ENGLAND	41	74	67	89	1,000	770	538	872	-	7
Maine N.H.	3 4	5 7	6 3	5 14	12 60	17 20	63 13	57 46	-	-
Vt. Mass.	2 11	4 33	3 42	4 47	61 826	144 547	35 206	89 291	-	- 3
R.I.	2	7	2	5	20	13	57	72	-	4
Conn.	19	18 353	11 174	14 193	21 914	29	164 868	317	-	- 57
MID. ATLANTIC Upstate N.Y.	265 57	43	48	47	581	489 327	399	1,228 668	36 2	-
N.Y. City N.J.	129 37	224 40	33 22	35 27	- 65	21 2	6 62	19 176	13 10	10 16
Pa.	42	46	71	84	268	139	401	365	11	31
E.N. CENTRAL Ohio	84 22	156 23	198 52	254 73	649 272	913 406	156 53	161 39	16 10	32 13
Ind.	3	14	41	32	67	129	28	31	1	4
III. Mich.	26 23	61 45	43 41	56 44	- 106	160 60	24 44	31 46	- 5	12 3
Wis.	10	13	21	49	204	158	7	14	-	-
W.N. CENTRAL Minn.	46 22	57 17	125 26	143 35	410 141	683 341	520 38	454 37	70 1	104
Iowa	6	4	25	24	124	126	100	74	2	3
Mo. N. Dak.	5 1	15 1	53 1	48 3	82 6	136 7	51 52	50 52	54	96
S. Dak. Nebr.	3	2 5	1 8	2 23	5 12	6 8	67 58	90	5 3	1 4
Kans.	9	13	11	8	40	59	154	151	5	-
S. ATLANTIC Del.	296 3	306 5	247 8	266 7	638 8	393 3	2,355 59	2,520 53	521 1	472 1
Md.	68	103	26	8	79	61	256	374	104	40
D.C. Va.	14 37	20 32	- 24	41	3 90	2 133	- 477	- 554	1 30	2 40
W. Va. N.C.	4 21	3 22	6 35	4 32	24 118	31 43	81 738	167 672	5 262	2 283
S.C.	3	8	21	29	179	44	224	138	33	71
Ga. Fla.	64 82	49 64	30 97	30 115	32 105	27 49	346 174	389 173	72 13	19 14
E.S. CENTRAL	20	19	79	91	136	246	170	211	107	129
Ky. Tenn.	9 5	7 3	19 26	15 36	45 69	94 110	37 99	26 108	3 63	5 81
Ala. Miss.	3 3	4 5	15 19	21 19	16 6	33 9	33 1	73 4	12 29	16 27
W.S. CENTRAL	75	77	167	200	891	1,526	210	1,179	86	171
Ark. La.	4	3	13 34	23 43	37	488	25	94	33	97
Okla.	4	10	17	21	87	35	185	114	42	61
Tex. MOUNTAIN	63 48	60 48	103 71	113 89	761 893	996 1,158	- 165	971 303	11 10	13 14
Mont.	-	40	5	2	5	6	20	19	1	14
Idaho Wyo.	1 1	-	7 2	4	71 125	127 11	15 6	38 18	2 2	- 5
Colo. N. Mex.	22 3	23 3	22 10	24 4	340 65	413 186	38 5	59 10	2 1	2
Ariz.	14	12	15	30	126	269	63	135	-	-
Utah Nev.	5 2	5 3	2 8	5 20	126 35	99 47	14 4	13 11	2	- 5
PACIFIC	185	213	295	321	1,835	1,605	198	287	1	5
Wash. Oreg.	25 10	24 9	30 54	61 46	662 420	421 171	- 6	- 14	-	- 3
Calif.	142	171	198	202	735	980	184	247	1	2
Alaska Hawaii	1 7	2 7	3 10	4 8	7 11	5 28	8	26	-	-
Guam	-	-	-	1	-	2	-	-	-	-
P.R. V.I.	1 -	1 -	5	7	1 -	3	68 -	85	N -	N -
Amer. Samoa C.N.M.I.	U -	U U	U -	U U	U	U U	U	U U	U -	U U

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending November 29, 2003, and November 30, 2002

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(48th Week)*							Stre	ptococcus pne	<i>umoniae</i> , inv	asive
	Salmo	onellosis	Shia	ellosis	Streptococc invasive,		Drug re all a	sistant, ges	Age <	5 years
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	37,751	40,368	20,142	19,848	4,844	4,200	1,885	2,232	407	342
NEW ENGLAND	1,927	2,086	302	324	349	302	40	106	8	3
Maine N.H.	126 100	138 129	6 5	8 11	26 21	20 35	-	-	N	N
Vt.	67	73	7	1	19	10	6	5	4	2
Mass. R.I.	1,139 125	1,165 163	199 20	197 17	166 15	100 15	N 10	N 13	N 4	N 1
Conn.	370	418	65	90	102	122	24	88	U	U
MID. ATLANTIC Upstate N.Y.	4,199 1,068	5,444 1,447	2,091 519	1,686 302	841 338	663 260	119 67	108 82	89 70	79 65
N.Y. City	1,196	1,311	361	466	120	149	U	U	U	U
N.J. Pa.	483 1,452	1,000 1,686	240 971	587 331	134 249	141 113	N 52	N 26	N 19	N 14
E.N. CENTRAL	4,945	5,213	1,586	2,057	980	906	395	221	166	141
Ohio Ind.	1,268	1,298	281 174	595 104	277	195	254	70	91	23 60
III.	554 1,575	519 1,712	794	1,002	101 182	48 264	141	149 2	47	- 00
Mich. Wis.	716 832	826 858	225 112	177 179	336 84	282 117	N N	N N	N 28	N 58
W.N. CENTRAL	2,379	2,438	764	1,003	311	232	149	425	57	57
Minn.	528	521	100	207	155	114	-	292	47	53
Iowa Mo.	364 933	472 781	83 357	119 177	N 68	N 42	N 13	N 5	N 3	N 1
N. Dak. S. Dak.	37 115	41 109	5 16	18 157	14 21	3 13	3 1	1 1	7	3
Nebr.	135	177	101	235	25	23	-	26	N	N
Kans.	267	337	102	90	28	37	132	100	N	N
S. ATLANTIC Del.	10,314 89	10,626 99	6,715 154	6,659 344	839 6	681 2	967 1	1,024 3	18 N	33 N
Md.	803	881	549	1,121	251	113	-	-	-	23
D.C. Va.	50 1,020	75 1,159	71 408	60 922	14 94	8 73	2 N	N	7 N	3 N
W.Va. N.C.	118 1,263	146 1,452	- 927	12 419	33 100	19 112	67 N	43 N	11 U	7 U
S.C.	770	797	477	122	36	37	132	182	N	N
Ga. Fla.	2,067 4,134	1,845 4,172	1,549 2,580	1,616 2,043	111 194	123 194	225 540	256 540	N N	N N
E.S. CENTRAL	2,508	3,091	870	1,416	194	110	130	124	-	-
Ky. Tenn.	368 704	365 784	124 340	185 134	43 151	19 91	17 113	17 107	N N	N N
Ala.	498	814	242	763	-	-	-	-	N	N
Miss.	938	1,128	164	334	-	-	-	-	-	-
W.S. CENTRAL Ark.	4,541 750	4,447 1,020	4,293 95	3,043 191	325 5	273 7	58 8	177 9	64	25
La.	507	771	294	468	1 82	1	50	168 N	8	9
Okla. Tex.	445 2,839	479 2,177	799 3,105	550 1,834	237	42 223	N N	N N	36 20	4 12
MOUNTAIN	2,113	2,089	1,155	863	428	517	24	47	5	4
Mont. Idaho	108 162	86 141	2 29	4 13	2 18	- 9	N	N	N	N
Wyo.	73	104	8	8	2	7	7	13	-	-
Colo. N. Mex.	443 254	571 293	277 232	194 212	126 104	114 101	- 17	33	-	-
Ariz. Utah	696 209	515 174	497 48	352 32	163 11	256 30	-	-	N 5	N 4
Nev.	168	205	62	48	2	-	-	1	-	-
PACIFIC	4,825	4,934	2,366	2,797	577	516	3	-	-	-
Wash. Oreg.	513 390	483 323	148 207	167 103	70 N	60 N	N	N	N N	N N
Calif.	3,614	3,798	1,959	2,455	384	370	N	N	N	N
Alaska Hawaii	95 213	79 251	10 42	5 67	123	86	3	-	N	N -
Guam	-	40	-	35	-	-	-	4	-	-
P.R. V.I.	325	518	8	30	N	N	N	N	N	N
Amer. Samoa	U	U	U	U	U	U	U	U	U	U
C.N.M.I.	-	U	-	U	-	U	-	U	-	U

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 29, 2003, and November 30, 2002

(48th Week)*		Syp	hilis						Varicella
	Primary &	secondary		enital	Tube	rculosis	Typho	id fever	(Chickenpox)
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003
UNITED STATES	6,159	6,191	331	397	10,104	11,795	290	303	13,295
NEW ENGLAND	182	133	1	1	291	396	23	13	1,650
Maine N.H.	7 14	2 6	1	-	5 7	20 15	- 2	-	773
Vt.	1	1	-	-	7	6	-	-	721
Mass. R.I.	123 16	90 7	-	1	194 28	215 48	12 2	7	151 5
Conn.	21	27	-	-	50	92	7	6	-
MID. ATLANTIC	786	679	55	64	1,961	2,034	49	75	36
Upstate N.Y. N.Y. City	43 454	31 399	9 31	4 25	263 1,049	290 981	11 18	9 40	N
N.J.	142	153	15	34	359	457	14	18	-
Pa.	147	96	-	1	290	306	6	8	36
E.N. CENTRAL Ohio	792 190	1,116 149	67 3	63 3	1,046 182	1,193 210	23 2	32 6	5,287 1,090
Ind.	47	56	11	3	123	114	4	2	-
III. Mich.	314 229	439 448	20 33	37 20	500 189	560 248	7 10	16 4	- 3,348
Wis.	12	24	-	-	52	61	-	4	849
W.N. CENTRAL	133	118	4	2	433	481	4	9	71
Minn. Iowa	41 7	57 3	-	1	175 25	207 30	- 2	3	N N
Mo.	50	32	4	1	103	121	1	2	-
N. Dak. S. Dak.	2	-	-	-	4 16	6 11	-	-	71
Nebr.	8	6	-	-	18	25	1	4	-
Kans.	23	20	-	-	92	81	-	-	-
S. ATLANTIC Del.	1,645 6	1,592 11	65	84	2,053 23	2,416 19	50	41	1,947 28
Md.	266	198	10	15	216	264	8	8	-
D.C. Va.	52 70	52 63	- 1	1 1	- 233	- 247	- 12	- 7	28 478
W.Va.	2	2	-	-	20	28	-	-	1,176
N.C. S.C.	142 88	265 125	19 6	18 12	281 152	321 146	9	2	N 237
Ga.	434	347	11	13	337	484	7	5	-
Fla.	585	529	18	24	791	907	14	19	N
E.S. CENTRAL Ky.	294 32	432 85	11 1	30 3	609 113	693 122	6 1	4 4	2 N
Tenn.	124	157	3	11	198	266	3	-	N
Ala. Miss.	106 32	145 45	5 2	10 6	210 88	190 115	2	-	- 2
W.S. CENTRAL	871	783	61	83	1,398	1,701	33	30	3,665
Ark.	49	31	-	11	87	118	-	-	-
La. Okla.	156 59	144 60	- 1	- 2	- 133	- 151	- 1	- 2	12 N
Tex.	607	548	60	70	1,178	1,432	32	28	3,653
MOUNTAIN	275	298	22	16	335	390	5	9	637
Mont. Idaho	- 12	- 8	-	-	5 8	6 14	-	-	N N
Wyo.	-	-	-	-	4	3	-	-	80
Colo. N. Mex.	24 57	61 36	3 1	2	62 6	86 34	3	4 1	- 3
Ariz.	165	172	18	14	193	204	2	-	4
Utah Nev.	7 10	6 15	-	-	35 22	29 14	-	2 2	550
PACIFIC	1,181	1,040	45	54	1,978	2,491	97	90	-
Wash.	74	57	-	1	220	223	3	6	-
Oreg. Calif.	42 1,063	22 953	- 45	- 52	95 1,548	103 1,990	5 88	2 77	-
Alaska	-	-	-	-	53	45	-	-	-
Hawaii	2	8	-	1	62	130	1	5	-
Guam P.R.	- 183	6 268	- 1	- 21	- 86	64 104	-	-	402
V.I.	1	1	-	-	-	-	-	-	-
Amer. Samoa C.N.M.I.	U	U U	U	U U	U	U U	U	U U	U

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending November 29, 2003, and November 30, 2002 (48th Week)*

TABLE III. Deaths in 122 U.S. cities,* week ending November 29, 2003 (48th Week)

TABLE III. Deaths				y age (ye		JOI 20	, 2000 (All	causes, b	y age (ye	ears)		
Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&I [†] Total	Reporting Area	All Ages	<u>></u> 65	45-64	25-44	1-24	<1	P&I [†] Total
NEW ENGLAND	398	270	55	21	7	8	41	S. ATLANTIC	925	555	218	90	31	31	44
Boston, Mass.	123	69	9	4	-	4	16	Atlanta, Ga.	122	65	32	16	5	4	2
Bridgeport, Conn.	40	29	6	4	-	1	3	Baltimore, Md.	204	129	51	19	5	-	17
Cambridge, Mass.	14	10	2	1	1	-	2	Charlotte, N.C.	69	44	14	7	3	1	6
Fall River, Mass. Hartford, Conn.	18 U	14 U	4 U	Ū	U	- U	1 U	Jacksonville, Fla. Miami, Fla.	94 78	60 48	23 17	8 10	2 2	1 1	1 3
Lowell, Mass.	14	12	2	-	-	0	1	Norfolk, Va.	39	40 25	8	2	2	2	2
Lynn, Mass.	6	6	-	-	_	-	-	Richmond, Va.	34	23	8	1	3	-	2
New Bedford, Mass.	24	19	1	2	2	-	-	Savannah, Ga.	34	17	9	5	2	1	4
New Haven, Conn.	U	U	U	U	U	U	U	St. Petersburg, Fla.	56	39	8	5	3	1	1
Providence, R.I.	32	21	6	2	1	2	4	Tampa, Fla.	81	50	23	6	1	1	3
Somerville, Mass.	4	4	-	-	-	-	-	Washington, D.C.	102	45	24	11	3	19	2
Springfield, Mass.	53	37	9	4	2	1	6	Wilmington, Del.	12	11	1	-	-	-	1
Waterbury, Conn. Worcester, Mass.	23 47	16 33	6 10	1 3	1	-	1 7	E.S. CENTRAL	588	391	124	39	17	15	40
								Birmingham, Ala.	130	85	23	12	3	5	15
MID. ATLANTIC	2,266	1,588	452	144	46	32	115	Chattanooga, Tenn.	60	38	16	4	1	1	2
Albany, N.Y.	53	40	11	2	-	-	5	Knoxville, Tenn.	72	53	13	3	3	- 1	1
Allentown, Pa. Buffalo, N.Y.	13 96	9 71	2 14	1 7	1 1	3	1 9	Lexington, Ky. Memphis, Tenn.	45 136	36 87	4 34	1 8	3 2	5	5 6
Camden, N.J.	13	8	1	4	-	-	-	Mobile, Ala.	38	24	10	2	-	2	3
Elizabeth, N.J.	13	8	3	-	1	1	-	Montgomery, Ala.	13	8	3	2	-	-	2
Erie, Pa.	48	39	5	2	2	-	2	Nashville, Tenn.	94	60	21	7	5	1	6
Jersey City, N.J.	38	25	9	4	-	-	-	W.S. CENTRAL	1,183	754	271	94	39	25	63
New York City, N.Y.	1,337	917	283	79	32	22	66	Austin. Tex.	64	40	17	94 5	- 39	25	3
Newark, N.J.	43	18	17	5	2	1	-	Baton Rouge, La.	52	34	13	3	1	1	1
Paterson, N.J.	14	5	5	1	3	-	1	Corpus Christi, Tex.	38	24	10	1	2	1	2
Philadelphia, Pa.	300 23	224 17	54 5	18 1	3	1	12	Dallas, Tex.	116	70	31	6	4	5	5
Pittsburgh, Pa.§ Reading, Pa.	23 17	13	2	2	-	-	-	El Paso, Tex.	90	71	15	3	1	-	7
Rochester, N.Y.	104	79	18	6	-	1	7	Ft. Worth, Tex.	62	32	21	3	5	1	-
Schenectady, N.Y.	18	13	3	2	-	-	1	Houston, Tex.	394	228	92	47	18	9	27
Scranton, Pa.	23	17	1	3	-	2	-	Little Rock, Ark.	46	35	6 8	4	1	-	3
Syracuse, N.Y.	56	37	14	3	1	1	9	New Orleans, La. San Antonio, Tex.	26 174	18 113	8 36	- 14	7	4	- 8
Trenton, N.J.	14	12	1	1	-	-	-	Shreveport, La.	51	33	14	3	-	1	5
Utica, N.Y. Yonkers, N.Y.	21 22	17 19	2 2	2 1	-	-	1 1	Tulsa, Okla.	70	56	8	5	-	1	2
E.N. CENTRAL	1,603	1,066	346	119	36	34	99	MOUNTAIN	896	647	149	56	29	15	68
Akron, Ohio	33	26	5	-	-	2	2	Albuquerque, N.M. Boise, Idaho	73 44	54 38	13 5	4	2	- 1	9 7
Canton, Ohio	45	32	9	3	-	1	1	Colo. Springs, Colo.	75	50 52	14	5	3	1	2
Chicago, III.	270	151	72	25	12	8	16	Denver, Colo.	144	74	25	20	15	10	8
Cincinnati, Ohio	56	36	14	4	1	1	5	Las Vegas, Nev.	216	151	50	11	4	-	19
Cleveland, Ohio Columbus, Ohio	217 150	149 100	51 34	12 14	4 1	1 1	12 12	Ogden, Utah	26	21	4	-	1	-	1
Dayton, Ohio	80	51	22	5	-	2	3	Phoenix, Ariz.	57	57	-	-	-	-	1
Detroit, Mich.	128	78	23	20	3	4	8	Pueblo, Colo.	18	11	6	1	-	-	1
Evansville, Ind.	34	25	3	4	1	1	1	Salt Lake City, Utah	102	75	15	9	2	1	14
Fort Wayne, Ind.	51	31	14	4	-	2	5	Tucson, Ariz.	141	114	17	6	2	2	6
Gary, Ind.	10	9	1	-	-	-	-	PACIFIC	1,403	995	267	85	33	23	130
Grand Rapids, Mich.	38	28	6	1	1	2	2	Berkeley, Calif.	8	3	3	2	-	-	1
Indianapolis, Ind.	157	109	32	10	3	3	14	Fresno, Calif.	100	72	15	10	-	3	8
Lansing, Mich. Milwaukee, Wis.	31 66	23 49	4 9	4	2 1	1 3	7	Glendale, Calif. Honolulu, Hawaii	18 76	11 54	4 18	2 2	1	-	3 7
Peoria, III.	42	29	10	2	1	-	1	Long Beach, Calif.	52	33	15	3	-	1	6
Rockford, III.	42	27	10	4	-	1	3	Los Angeles, Calif.	278	188	54	24	7	5	18
South Bend, Ind.	37	26	.0	1	1	-	3	Pasadena, Calif.	28	19	9		-	-	2
Toledo, Ohio	72	52	11	3	5	1	4	Portland, Oreg.	124	83	25	11	2	3	10
Youngstown, Ohio	44	35	7	2	-	-	-	Sacramento, Calif.	242	183	37	9	10	3	28
W.N. CENTRAL	458	309	88	38	14	9	31	San Diego, Calif.	110	75	24	4	5	2	10
Des Moines, Iowa	1	1	-	-	-	-	-	San Francisco, Calif.	U	U	U	U	U	U	U
Duluth, Minn.	25	14	9	1	-	1	1	San Jose, Calif.	176	135	31	5	4	1	21
Kansas City, Kans.	40	24	11	4	1	-	3	Santa Cruz, Calif.	14 60	11 42	3 9	- 6	-	- 2	2
Kansas City, Mo.	85	53	18	7	3	4	4	Seattle, Wash. Spokane, Wash.	60 45	42 32	9	6 4	-	2	3 2
Lincoln, Nebr.	30	23	4	2	1	-	3	Tacoma, Wash.	72	54	11	3	2	2	9
Minneapolis, Minn.	60	42	11	5	2	-	2								
Omaha, Nebr.	80 U	60	9 U	7 U	2 U	2 U	11	TOTAL	9,720¶	6,575	1,970	686	252	192	631
St. Louis, Mo. St. Paul, Minn.	43	U 27	12	3	1	U	U								
Wichita, Kans.	43 94	27 65	12	3 9	4	2	7								
	J-			5	Ŧ	~	1	1							

U: Unavailable. -: No reported cases.

* Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of ≥100,000. A death is reported by the place of its

¹ Total includes unknown ages.

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