

MORBIDITY AND MORTALITY

WEEKLY REPORT

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Drug-Susceptible Tuberculosis Outbreak in a State Correctional Facility Housing HIV-Infected Inmates — South Carolina, 1999–2000

During 1999–2000, South Carolina's Department of Corrections (SCDC), Department of Health and Environmental Control (DHEC), and CDC investigated an outbreak of drugsusceptible tuberculosis (TB) that occurred in a state correctional facility housing human immunodeficiency virus (HIV)-infected inmates. All culture-confirmed case-patients have been linked by IS6110-based DNA fingerprinting of *Mycobacterium tuberculosis* isolates (1). This report describes the outbreak investigation and illustrates the need for increased vigilance for TB in settings in which HIV-infected persons congregate.

During 1998, SCDC began mandatory HIV testing upon incarceration of all inmates with negative or unknown HIV serostatus, and in November 1998, began segregating HIV-infected prisoners, placing them in three dormitories of one prison with each dormitory partitioned into right and left sides. On admission to the facility, all inmates were screened for TB infection and disease with a tuberculin skin test (TST)* and chest radiography. TST-negative inmates undergo a TST annually.

During mid-August 1999, the source case-patient, a HIV-infected man aged 34 years housed on the right side of one of the dormitories (dormitory A), was diagnosed at a community hospital with sputum acid-fast bacilli (AFB) smear-positive pulmonary TB. His CD4 lymphocyte count was 17 cells/µL (normal range: 359-1519 cells/µL)], and he was not receiving antiretroviral therapy. In 1984, he had a documented TST reaction of 15mm; however, two attempts to treat his latent TB infection (LTBI) with isoniazid were discontinued because of gastrointestinal side effects. In early July 1999, 6 weeks before his TB diagnosis, he was taken to the same hospital with a 2-week history of fever, abdominal pain, and cough. His chest radiograph was normal; sputum specimens were not obtained for AFB smear and culture, and he was not placed in respiratory isolation. He was returned to the prison in mid-July without a definitive diagnosis. In late August, corrections medical staff learned of a second case of sputum smear-positive pulmonary TB in a former dormitory A inmate who had been released in July 1999.

SCDC and DHEC began a contact investigation of dormitory A inmates in early September 1999. Inmates who had had contact with a case-patient and had signs and symptoms of active TB were transferred from dormitory A to respiratory isolation for

^{*}TST was defined as induration of \geq 5mm in contacts and HIV-infected inmates. A TST conversion was defined as an increase of \geq 5mm from the most recent TST.

Tuberculosis Outbreak — Continued

medical evaluation. The exposure period for identifying contacts was 6 weeks before signs of TB appeared in the source case-patient to the day the last sputum culture-positive case-patient left dormitory A (i.e., May 1–September 30, 1999). The exposed cohort comprised 323 men who had spent from 1 to 152 days (median: 135 days) in dormitory A during that period. Screening consisted of TST, chest radiograph, and symptom review for all dormitory A inmates; follow-up TST was conducted on remaining TST-negative inmates in December 1999 (Table 1).

As of November 2000, 31 current or former inmates had TB diagnosed (Figure 1). All case-patients were non-Hispanic black men born in the United States and HIV-infected. The median age was 36 years (range: 23–56 years); 19 cases were culture-confirmed and 19 isolates were tested by IS6110-based DNA fingerprinting and demon-strated a matching nine-band pattern. Of the 31 case-patients, 27 (87%) resided on the right side of dormitory A during the exposure period; four (13%) resided on the left. Five case-patients had TB diagnosed after being released from prison; all five were released before the source case-patient during the July hospitalization had sputum AFB smear-positive cavitary TB diagnosed in December; the DNA fingerprint of the student's isolate matched the outbreak pattern bringing the number of related cases to 32.

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Editorial Note: Persons infected with both HIV and *M. tuberculosis* are at high risk for developing TB disease and for an accelerated progression from TB infection to disease (2,3). Persons with HIV infection who are placed in settings such as prisons, hospital wards, group residences, and homeless shelters contribute to outbreaks of TB (4,5). In this report, the source case-patient was a longterm inmate who developed TB disease after a long period of LTBI and unsuccessful LTBI treatment. The outbreak demonstrates that rapid spread of *M. tuberculosis* to other inmates can be a consequence of segregated housing for HIV-infected inmates.

Because inmates transfer within and among correctional facilities and are released upon completion of their sentence regardless of medical status, correctional health and security records should display prisoners' *M. tuberculosis* infection, disease, and therapy status. Newly incarcerated inmates whose TST status is negative or unknown should be

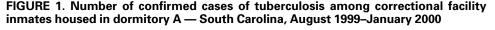
Results	Left side	Right side*
Results	Left side	Right side*
Previous positive	22	39
Screening incomplete	32	7
Screening complete	108	115
Negative	86	33
≥5mm or tuberculosis (TB) case	22	82
Percentage TST conversions or TB case [†]	20	71
Total exposed	162	161

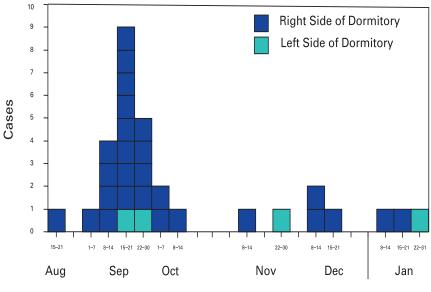
TABLE 1. Tuberculin skin test (TST) results among correctional facility inmateshoused in dormitory A — South Carolina, August 1999–January 2000

* Side of residence of source case-patient.

[†] Number of inmates newly infected with *Mycobacterium tuberculosis* (i.e., TST conversion or TB case) divided by number of inmates with screening completed.

Tuberculosis Outbreak — Continued





Week and Month of Diagnosis

screened for TB infection and disease with medical history and evaluation, TST, and chest radiography. Those with documented positive TST should undergo medical evaluation and chest radiography for signs and symptoms of TB. Medical personnel should attempt to confirm LTBI treatment completion, and treatment of LTBI in prison should be observed directly.

For new HIV-infected inmates, screening for TB infection and disease should be thorough; not all HIV-infected persons manifest a TST reaction in the presence of LTBI and may have atypical or negative findings of active disease on chest radiograph (6-8). Additional screening and control measures (e.g., sputum collection for AFB smear and culture and temporary respiratory isolation) may be necessary before the inmate can be housed with the prison population. Those with an undocumented history of LTBI treatment may need to complete a course of directly observed therapy with either a 9-month course of isoniazid or a 2-month course of a rifamycin and pyrazinamide (9).

The reasons cited by SCDC for segregating HIV-infected inmates included efforts to reduce the transmission of HIV to uninfected prisoners and to improve medical care for HIV-infected inmates. In 2000, the U.S. Supreme Court upheld a law that permits segregation of HIV-infected inmates in Alabama. As a result, more state correctional systems may adopt this practice (10); therefore, administrative and environmental controls should be strictly maintained. Unlike other acquired immunodeficiency syndrome-associated infections, *M. tuberculosis* is spread from person-to-person by aerosols and poses a risk for all exposed persons regardless of immune status. A diagnosis of infectious TB should be excluded promptly in all inmates with signs and/or symptoms compatible with TB, and

Tuberculosis Outbreak — Continued

respiratory isolation measures should be applied until infectious TB disease is excluded. For HIV-infected inmates with respiratory signs and symptoms, a diagnosis of infectious TB should be considered even in the presence of a negative chest radiograph. Correctional health-care providers need continuing education to maintain expertise in managing HIV and TB in settings where HIV-infected inmates are incarcerated.

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Update: West Nile Virus Activity — Eastern United States, 2000

Data reported to CDC through the West Nile Virus (WNV) Surveillance System have shown an increase in the geographic range of WNV activity in 2000 compared with 1999, the first year that WNV was reported in the Western Hemisphere (1). In response to this occurrence of WNV, 17 states along the Atlantic and Gulf coasts, New York City, and the District of Columbia conducted WNV surveillance, which included monitoring mosquitoes, sentinel chicken flocks, wild birds, and potentially susceptible mammals (e.g., horses and humans) (2). In 1999, WNV was detected in four states (Connecticut, Maryland, New Jersey, and New York) (3). In 2000, epizootic activity in birds and/or mosquitoes was reported from 12 states (Connecticut, Delaware, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, Vermont, and Virginia) and the District of Columbia. Of the 13 jurisdictions, seven also reported severe neurologic WNV infections in humans, horses, and/or other mammal species. This report presents surveillance data reported to CDC from January 1 through November 15.

West Nile Virus Activity - Continued

During 2000, 18 (14 from New York and four from New Jersey) persons were hospitalized with severe central nervous system illnesses caused by WNV. Patients ranged in age from 36 to 87 years (mean: 62 years); 12 were men. Of the New York patients, 10 resided in Richmond County (Staten Island), two in Kings County (Brooklyn), one in Queens County, and one in New York County (Manhattan). Of the New Jersey patients, two resided in Hudson County, and one each in Bergen and Passaic counties. Epizootic activity in birds and/or mosquitoes preceded the onset of human illness in all of these counties. Diagnoses were confirmed either by ELISA for WNV-specific IgM in cerebrospinal fluid or by a four-fold rise in WNV-specific neutralizing antibody in paired serum samples. Dates of illness onset ranged from July 20 to September 13 (Figure 1). Of the 18 patients, one died (case fatality rate: 6%), and one is in a persistent vegetative state. In addition, WNV infection was documented in a mildly symptomatic woman residing in Fairfield County, Connecticut.

Veterinary surveillance has identified WNV infections in 65 horses with severe neurologic disease from 26 counties in seven states (27 horses in New Jersey; 24 in New York; seven in Connecticut; four in Delaware; and one each in Massachusetts, Pennsylvania, and Rhode Island). Illness onsets in these horses ranged from August 15 to October 29 (Figure 1). WNV infection has been confirmed in 26 other mammals; of these, 25 were from 10 counties in New York (14 bats, four rodents, three rabbits, two cats, two raccoons), and one was from Connecticut (skunk).

WNV was isolated from or WNV gene sequences were detected in 470 mosquito pools in 38 counties in five states (352 pools in New York, 54 in New Jersey, 46 in Pennsylvania, 14 in Connecticut, and four in Massachusetts). Of the 470 reported WNV-infected pools, *Culex* species accounted for 418, including 222 *Cx. pipiens/restuans*, 126 *Cx. pipiens*, 35 *Cx. salinarus*, 11 *Cx. restuans*, and 24 unspecified *Cx.* pools. *Ochlerotatus* species (formerly in *Aedes* genus) (4) accounted for 29 positive pools, including nine *Oc. japonicus*, nine *Oc. triseriatus*, eight *Oc. trivittatus*, and one each of three other *Oc.* species. *Aedes* species accounted for 18 positive pools, including

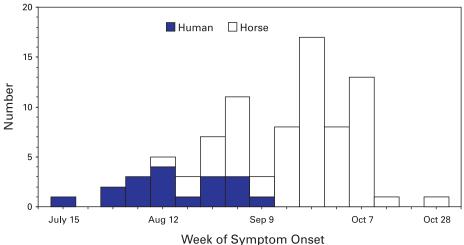


FIGURE 1. Number* of reported humans and horses with severe neurologic illness attributed to West Nile virus, by week of symptom onset — United States, 2000

^{*} N=18 humans and 65 horses.

West Nile Virus Activity — Continued

16 *Ae. vexans*, one *Ae. albopictus*, and one unspecified *Ae.* pool. In addition, WNV was detected in three pools of *Culiseta melanura*, one pool of *Psorophora ferox*, and one pool of *Anopheles punctipennis*.

A total of 4139 WNV-infected dead birds were reported from 133 counties in 12 states (New York reported 1263 birds; New Jersey, 1125; Connecticut, 1116; Massachusetts, 442; Rhode Island, 87; Maryland, 50; Pennsylvania, 34; New Hampshire, seven; Virginia, seven; Delaware, one; North Carolina, one; and Vermont, one) and the District of Columbia (five). Crows were the most frequently reported WNV-infected species. Since 1999, WNV has been identified in 76 avian species in the United States. WNV infection also was documented in specimens collected from six previously seronegative sentinel chickens in six counties in two states (New Jersey, four and New York, two).

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Editorial Note: Although the WNV epizootic has persisted in the four states originally affected in 1999 and expanded into eight additional states and the District of Columbia, only 18 humans with severe neurologic illness attributed to WNV were reported in 2000 compared with 62 in 1999 (5). However, severe neurologic illness occurs in <1% of infected persons, suggesting that approximately 2000 persons may have been infected during 2000. Although some decrease in severe human illness may be attributable to vector-control and other prevention activities, experience in Europe shows that the incidence of human illness can be variable and outbreaks sporadic ($\boldsymbol{6}$). Because widespread WNV epizootic activity probably will persist and expand in the United States, larger outbreaks of WNV infection and human illness are possible if adequate surveillance, prevention activities, and mosquito control are not established and maintained.

A major objective of WNV surveillance is to detect epizootic activity early so that intervention can occur before severe human illnesses. In 2000, all 18 persons with severe neurologic disease became ill after WNV-infected dead birds were identified in

West Nile Virus Activity — Continued

their county of residence, suggesting that avian surveillance data are a sensitive indicator of epizootic transmission that may portend human illness. However, of 133 counties reporting WNV-infected birds, only seven (5%) reported at least one person with severe neurologic illness. The presence of WNV-positive mosquito pools may indicate a greater potential for severe human illness as six (16%) of the 38 counties with positive pools reported at least one severely ill person. But these pools were identified before the onset of human illness in only five of these counties. Further analysis of 2000 surveillance data, including an assessment of the timing, number, and geographic location of WNV-infected birds, and an assessment of mosquito-trapping activities, infection rates, and species identified are required to further interpret these data.

As occurred in 1999, the number of reported WNV illnesses in horses peaked and persisted after human illnesses (7). Although more data are needed to determine the reasons for this relative delay, it appears that horses are not a sensitive sentinel for the prediction of human illness.

The continued geographic expansion of WNV indicates the need for expanded surveillance and prevention activities. Surveillance should include monitoring WNV infection in birds, humans, and veterinary species and in mosquitoes, particularly when WNV activity has been identified (5). Prevention should include programs that 1) eliminate mosquito-breeding habitats in public areas; 2) control mosquito larvae where these habitats cannot be eliminated; 3) promote the increased use of personal protection and the reduction of peridomestic conditions that support mosquito breeding; and 4) implement adult mosquito control when indicated by increasing WNV activity or the occurrence of human disease. In addition, because arbovirus infections are endemic in the continental United States, states should have a comprehensive plan and a functional arbovirus surveillance and response capacity that includes trained personnel with suitable laboratory support for identifying arbovirus activity, including WNV (5).

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Measles, Rubella, and Congenital Rubella Syndrome — United States and Mexico, 1997–1999

In 1996, the Immunization Working Group of the Mexico-United States Binational Commission was established to enhance coordination of disease surveillance, assure high vaccination coverage in both countries, and hasten the elimination of vaccine-preventable diseases. The United States and Mexico share the Pan American Health Organization (PAHO) goal of measles elimination by 2000 (1). The United States also established a goal of eliminating indigenous rubella and congenital rubella syndrome (CRS) by 2000 (2). This report summarizes the measles and rubella vaccination and surveillance data for the United States and Mexico for 1997–1999.

Measles in the United States

Measles epidemiology in the United States is monitored through the National Notifiable Diseases Surveillance System (NNDSS). Record low numbers of measles cases were reported in the United States for 1997 (138 cases), 1998 (100), and 1999 (100), corresponding to 0.5 cases per 100,000 population (Figure 1). Among these 338 cases, 116 (34%) were imported from other countries, 63 (19%) were epidemiologically linked to imported cases, and 39 (12%) showed virologic evidence of importation. The remaining 120 cases (36%) were not attributed to importation. None of the 338 cases reported during 1997–1999 was imported from Mexico. Surveillance quality indicators were implemented in 1996. In March 1999, a panel of experts concluded that measles was no longer endemic in the United States (*3*).

Measles vaccination levels among children aged 2 years increased from 61% in 1985 (CDC, unpublished data, 1998) to 91% in 1997 (4). As of the 1998–99 school year, state laws requiring a second dose for students in grades K-12 applied to 60% of U.S. students (CDC, unpublished data, 2000).

Measles in Mexico

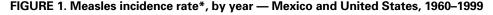
Measles epidemiology in Mexico was monitored through the Single Epidemiological Surveillance System (SUIVE) until 1993, when the Febrile Exanthematic Disease Surveillance System (FEDSS) was established to incorporate laboratory information to distinguish among viral causes of rash illnesses.

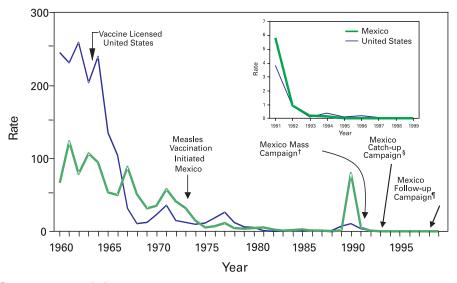
During 1997–1999, no confirmed cases of measles were reported (5). National surveillance indicator goals to evaluate the quality of FEDSS were established in 1993, and by 1999, most goals had been met.

After 1990, when 68,782 cases (80 per 100,000) and 5,899 deaths were attributed to measles (6), multiple strategies have resulted in high vaccination coverage in children (Figure 1). In May 1998, the National Immunization Council replaced measles-only childhood vaccination with measles-mumps-rubella (MMR) vaccine, moving the first dose from 9 to 12 months and keeping the second dose at age 6 years. National Health Weeks are conducted three times a year, during which unvaccinated preschool and first-grade children are vaccinated. During 1997, among children aged 1 to 4 years, first-dose coverage was 97%, a level that was maintained during 1998–1999.

Rubella and CRS in the United States

Rubella and CRS incidence is monitored through NNDSS and the National Congenital Rubella Syndrome Registry. Rubella vaccine was licensed in 1969, and since 1979, has been administered in combination as MMR; rubella coverage closely approximates measles coverage.





*Per 100,000 population.

[†] In 1991, measles vaccine was administered house-to-house to children aged 9 to 59 months throughout Mexico.

[§] In 1993, Mexico initiated the Pan American Health Organization measles elimination strategy to vaccinate children up to age 14 years regardless of vaccination or measles illness history.

¹ In 1998, Mexican children aged 1–4 years received measles vaccination irrespective of vaccination or measles illness history.

In the United States in 1997, 1998, and 1999, 172, 353, and 267 confirmed cases of rubella were reported, respectively, corresponding to <0.5 cases per 100,000 population (Figure 2). Most of these cases occurred among Hispanic men. Of the 788 cases for whom age was known, 676 (80.4%) were aged 15–44 years. Of the 790 case-patients for which sex was known, 507 (64.0%) were men. Of the 755 for whom ethnicity was reported, 587 (77.7%) were Hispanic; the percentage of reported rubella cases among Hispanics increased from 19.0% in 1991 to 77.6% in 1999. Since 1998, of the 340 outbreak-related cases with known country of origin, 273 (80.0%) occurred among persons who were non-U.S. born. Of the 661 cases for which importation status was known, 54 (8.2%) were internationally imported; of these, exposures occurred in Mexico, Central and South America, the Spanish-speaking Caribbean, Japan, and Russia.

Of 24 infants with laboratory-confirmed CRS born during 1997–1999, 20 (83.3%) were born to Hispanic mothers, 14 (58.3%) were born to non-U.S.–born mothers, and 10 (41.7%) had maternal exposure to rubella outside the United States and were considered imported cases.

Rubella and CRS in Mexico

Rubella epidemiology in Mexico has been monitored since 1978 as clinically diagnosed cases reported to SUIVE or, since 1993, as laboratory-confirmed cases evaluated by FEDSS; once confirmed as rubella, FEDSS also followed women infected during pregnancy to detect potential cases of CRS. In 1998, rubella vaccine was introduced into the childhood vaccination schedule as 2-dose MMR at age 1 and 6 years. Measles, Rubella, and Congenital Rubella Syndrome - Continued

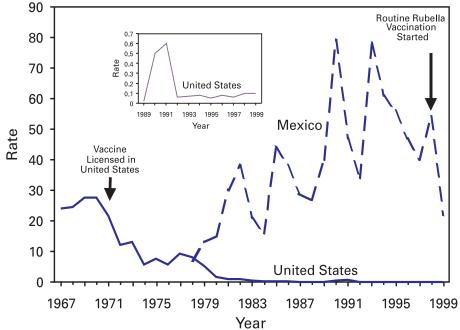


FIGURE 2. Rubella incidence rates*, by year — Mexico, 1978–1999, and United States, 1967–1999

* Per 100,000 population.

From 1978 through 1999, reported rubella cases peaked every 3–5 years, with the highest number of cases (65,591; rate: 79 per 100,000 population) reported in 1990. From 1997 to 1999, 38,042; 51,846; and 21,173 rubella cases, respectively, were reported to SUIVE (Figure 2). Compared with 1990, in 1999, reported rubella cases decreased 68%. During 1997–1999, 37,346 (33.6%) of the reported case-patients were aged 15–44 years. Of the 4650 cases of rash illness investigated by FEDSS during this time, 3277 (70.5%) were classified as rubella, and 1373 (29.5%) were classified as other rash illnesses. Surveillance among 266 pregnant women infected during rubella outbreaks from 1997 to 1999 detected 50 confirmed cases of CRS.

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Editorial Note: Since the measles epidemic during 1989–1991, substantial progress has been made in vaccination programs in Mexico and the United States, as evidenced by the control of measles in both countries. Mexico reported no cases during 1997–1999, despite enhanced surveillance for measles that includes investigating >1500 suspected cases each year. In the United States, the low number of reported cases, the

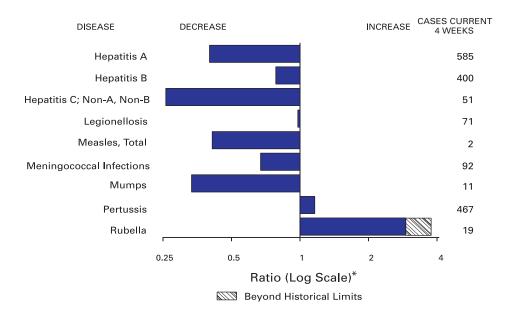


FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending November 18, 2000, with historical data

* 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.

		Cum. 2000		Cum. 2000
Anthrax		-	Poliomyelitis, paralytic	-
Brucellosis*		58	Psittacosis*	10
Cholera		2	Qfever*	21
Cyclosporiasis	s*	38	Rabies, human	1
Diphtheria	-	2	Rocky Mountain spotted fever (RMSF)	391
Ehrlichiosis:	human granulocytic (HGE)*	161	Rubella, congenital syndrome	6
	human monocytic (HME)*	92	Streptococcal disease, invasive, group A	2,466
Encephalitis:	California serogroup viral*	101	Streptococcal toxic-shock syndrome*	66
	eastern equine*	2	Syphilis, congenital ¹	175
	St. Louis*	3	Tetanus	24
	western equine*		Toxic-shock syndrome	120
Hansen diseas		55	Trichinosis	14
	Ilmonary syndrome**	27	Tularemia*	105
	mic syndrome, postdiarrheal*	171	Typhoid fever	292
HIV infection,		190	Yellow fever	
Plague	P	6		

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending November 18, 2000 (46th Week)

-: No reported cases.

*Not notifiable in all states.

⁺ Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID). ⁵Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update October 29, 2000.

¹Updated from reports to the Division of STD Prevention, NCHSTP.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending November 18, 2000, and November 20, 1999 (46th Week)

	5 enum	-							coli O157:H	
	All Cum.	DS Cum.	Chlam Cum.	nydia⁺ Cum.	Cryptos Cum.	ooridiosis Cum.	NET Cum.	rss Cum.	PH Cum.	LIS Cum.
Reporting Area	2000 ^s	1999	2000	1999	2000	1999	2000	1999	2000	1999
UNITED STATES	33,120 1,699	38,849	575,352 18.578	582,075	2,378 100	2,394 175	4,082 367	3,417 386	2,865 346	2,552 354
New ENGLAND Maine N.H. Vt.	1,699 28 29 32	1,998 68 46 16	18,578 1,300 885 476	18,814 916 875 429	20 21 26	175 27 17 35	367 31 35 33	380 36 32 32	346 26 34 33	354 - 33 20
Mass. R.I. Conn.	1,061 84 465	1,318 90 460	7,777 2,249 5,891	7,977 2,075 6,542	20 30 3	68 6 22	33 157 18 93	169 27 90	33 156 16 81	182 26 93
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	7,189 694 3,765 1,461 1,269	10,137 1,192 5,371 1,845 1,729	52,147 N 22,154 7,436 22,557	58,573 N 24,079 11,006 23,488	171 118 10 12 31	525 153 227 44 101	377 277 10 90 N	338 264 17 57 N	234 58 10 106 60	130 3 17 63 47
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	3,190 489 324 1,597 604 176	2,603 437 282 1,202 550 132	93,304 22,758 11,286 25,282 22,111 11,867	98,361 26,140 10,742 28,950 20,352 12,177	759 252 57 7 94 349	605 62 39 85 49 370	945 254 131 182 135 243	933 229 95 489 120 N	533 203 77 103 150	502 212 64 84 78 64
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak.	767 153 75 349 2 7	865 159 70 410 6 13	31,786 6,502 4,294 10,486 628 1,617	33,418 6,701 4,263 11,836 825 1,363	351 132 75 29 15 15	194 74 55 24 18 7	642 198 179 104 19 54	499 160 106 42 16 44	540 171 139 92 20 57	524 181 77 61 18 60
Nebr. Kans. S. ATLANTIC	65 116 9,203	58 149 10,705	3,084 5,175	3,057 5,373	76 9 438	14 2 347	62 26 349	101 30 309	45 16 258	112 15
S. ALANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	9,203 183 1,131 695 598 56 609 703 1,050 4,178	10,705 146 1,322 493 752 61 692 899 1,466 4,874	113,163 2,551 11,648 2,822 14,053 1,442 19,452 8,746 23,255 29,194	123,669 2,455 11,758 N 12,727 1,623 19,759 16,717 30,034 28,596	438 6 10 16 17 3 25 - 161 200	347 - 17 7 26 3 25 - 123 146	349 1 30 1 69 14 87 21 40 86	309 6 41 1 69 14 68 19 30 61	238 1 U 56 12 65 14 36 73	178 3 4 U 57 9 52 14 1 38
E.S. CENTRAL Ky. Tenn. Ala. Miss.	1,644 169 706 420 349	1,717 242 671 420 384	43,278 7,083 13,115 13,134 9,946	40,625 6,630 12,710 11,124 10,161	44 5 11 15 13	33 6 10 12 5	124 42 53 11 18	133 46 55 24 8	94 31 45 9 9	102 34 43 21 4
W.S. CENTRAL Ark. La. Okla. Tex.	3,413 159 606 291 2,357	4,086 185 744 125 3,032	88,847 5,153 16,177 8,083 59,434	82,461 5,414 14,746 7,290 55,011	122 13 10 17 82	83 2 24 10 47	178 57 9 19 93	135 15 14 36 70	223 38 46 14 125	142 14 14 27 87
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	1,232 12 19 9 291 126 403 117 255	1,512 13 20 11 289 79 743 128 229	32,990 1,221 1,665 700 8,441 4,237 11,402 2,029 3,295	29,326 1,393 1,558 670 5,698 4,392 10,908 1,910 2,797	170 10 23 5 71 20 11 26 4	91 10 8 1 12 39 12 N 9	412 30 70 158 23 49 52 13	309 24 63 15 111 12 32 35 17	233 - 9 104 16 37 67 -	236 43 16 88 6 21 47 15
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	4,783 445 146 4,072 21 99	5,226 304 185 4,631 13 93	101,259 11,202 4,361 80,884 2,150 2,662	96,828 10,695 5,359 76,249 1,673 2,852	223 N 19 204	341 N 91 250 -	688 219 152 274 28 15	375 144 67 150 1 13	404 173 111 108 1 11	384 173 68 131 1 1
Guam P.R. V.I. Amer. Samoa C.N.M.I.	15 1,134 31 -	12 1,174 35 -	3,481 U U U	432 U U U U	- - U U U	- - U U	N 6 U U U	N 5 U U U		
N: Not notifiable	-	- navailable		o reported			-		o bern Mariana	

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

¹ Chlamydia refers to genital infections caused by *C. trachomatis.* Totals reported to the Division of STD Prevention, NCHSTP.
 ⁵ 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 29, 2000.

			Hepatir	, and No.		20, 1		Lyme		
	Gono		Non-A,	Non-B	Legione	-	Listeriosis	Dise	ase	
Reporting Area	Cum. 2000 [§]	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 2000	Cum. 1999	
UNITED STATES	300,986	320,596	2,649	2,598	867	906	610	12,093	14,131	
NEW ENGLAND Maine	5,202 79	5,872 70	14 2	15 2	49 2	70 3	47 2	4,128	4,267 41	
N.H. Vt.	91 60	98 44	4	-7	2 5	8 14	2 3	59 29	20 23	
Mass. R.I.	2,117 568	2,210 522	3 5	3 3	15 8	25 9	25 1	1,089 530	750 464	
Conn.	2,287	2,928	-	-	17	11	14	2,421	2,969	
MID. ATLANTIC Upstate N.Y.	32,577 6,407	35,285 5,965	607 61	116 52	193 85	226 58	146 80	6,131 3,403	7,496 3,489	
N.Y. City N.J.	9,699 5,081	10,965 6,952	510	-	- 14	43 18	27 20	21 1,448	133 1,611	
Pa.	11,390	11,403	36	64	94	107	19	1,259	2,263	
E.N. CENTRAL Ohio	56,587 13,841	61,957 16,129	199 12	855 3	228 106	242 68	104 52	315 82	568 43	
Ind. III.	5,355 16,937	5,659 20,477	1 16	1 47	37 9	39 30	7 11	32 11	17 17	
Mich. Wis.	15,401 5,053	14,229 5,463	170	788 16	49 27	63 42	29 5	190	11 480	
W.N. CENTRAL Minn.	14,595 2,571	14,736 2,530	444 5	263 10	55 7	49 9	14 5	361 267	290 178	
lowa Mo.	1,031 7,138	1,068 7,340	2 421	249	13 24	12 17	3 5	30 41	22 63	
N. Dak. S. Dak.	39 260	7,340 74 164	421	1	- 24	2	1	1	1	
Nebr. Kans.	1,187 2,369	1,288 2,272	6 10	3	4 5	6	-	4 18	11 15	
S. ATLANTIC Del.	83,585 1,537	94,541 1,509	113	147	180 10	129 17	100 2	918 140	1,210 135	
Md. D.C.	8,094	8,982	- 18 3	21 1	63 5	32 4	22	503	837	
Va.	2,328 9,297	3,297 8,527	3	10	31	30	7	139	112	
W. Va. N.C.	465 15,964	510 17,567	14 17	17 33	N 15	N 14	4	29 44	17 67	
S.C. Ga.	10,737 15,161	13,104 20,616	3 3	22 1	4 7	11 1	9 21	9	6	
Fla. E.S. CENTRAL	20,002 31,245	20,429 32,421	52 391	42 286	45 31	20 46	35 19	46 46	32 96	
Ky.	3,132	3,005	34	21	18	18	3	11	17	
Tenn. Ala. Missa	10,404 10,227	10,222 9,841	88 8	108 1	10 3	22 4 2	12 4	28 6	55 20	
Miss. W.S. CENTRAL	7,482 46,970	9,353 47,300	261 423	156 507	- 16	2 30	- 15	1 44	4 54	
Ark. La.	2,812 11,972	2,965 11,788	9 291	27 285	6	1	1	4	4	
Okla. Tex.	3,619 28,567	3,600 28,947	8 115	15 180	3 7	3 18	6 8	1 36	9 7 34	
MOUNTAIN	9,037	8,561	293	192	44	42	33	30	16	
Mont. Idaho	45 77	48 78	53	5 7	1 5	2	-	3	- 3	
Wyo. Colo.	43 2,617	27 2,243	211 28	62 32	2 15	- 11	1 8	9 11	3 3 1	
N. Mex. Ariz.	953 3,790	874 3,924	13 18	32 40	1 8	1 6	2 13	-	1 2	
Utah Nev.	207 1,305	200 1,167	2 13	6 8	12	16 6	4 5	3 4	2 2 2	
PACIFIC Wash.	21,188 2,023	19,923 1,873	165 29	217 19	71 18	72 17	132 7	120 9	134 10	
Oreg.	652	773	27	19	N	N	5	15	12	
Calif. Alaska	17,866 305	16,600 268	107	179	53	53 1	117	94 2	112	
Hawaii Guam	342	409 48	2	- 1	-	1	3	N -	N -	
P.R. V.I.	596 U	300 U	1 U	U U	1 U	Ū	-	N U	N U	
Amer. Samoa C.N.M.I.	Ŭ U	Ŭ U	Ŭ	Ŭ	Ŭ	Ŭ	-	Ŭ	Ŭ	
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TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending November 18, 2000, and November 20, 1999 (46th Week)

N: Not notifiable.

U: Unavailable.

- : No reported cases.

Salmonellosis* Salmonellosis* Reporting Area Curn: Curn: <th colspan="2" curn:<<="" th=""><th>weel</th><th>(s ending</th><th>Novemb</th><th>er 18, 20</th><th>υυ, and N</th><th>ovember</th><th>20, 1999 (</th><th></th><th>ek)</th></th>	<th>weel</th> <th>(s ending</th> <th>Novemb</th> <th>er 18, 20</th> <th>υυ, and N</th> <th>ovember</th> <th>20, 1999 (</th> <th></th> <th>ek)</th>		weel	(s ending	Novemb	er 18, 20	υυ, and N	ovember	20, 1999 (ek)
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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.		
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v.t. 3 4 55 86 104 87 109 79 R.L. 10 245 199 1.118 1.100 1.022 1.104 R.L. 10 34 249 245 199 1.118 1.000 1.022 1.004 Connt 10 34 249 224 3.681 4.803 2.044 4.865 MD. ATLANTC 16 35 2.179 1.816 1.365 1.377 1.118 1.026 1.126 N.Y. City 76 2.255 0 0 0 1.055 1.327 1.118 1.066 1.022 1.118 1.065 1.321 1.118 1.022 1.214 1.114 1.166 1.45 1.633 4.635 4.968 2.228 4.302 2.021 1.118 1.060 1.022 1.214 1.144 1.060 1.022 1.114 1.060 1.022 1.114 1.060 1.022 1.114 1.060 1.022 1.214 1.143 1.073 1.114 1.060 1.022 1.014	Maine	6	3	126	160	115	123	83	99		
H.I. 8 4 95 99 122 121 128 149 MID. ATLANTIC 216 383 947 1,192 3,888 4,089 3,775 4,729 NL. Cir(v 73 252 193 193 194 1075 1075 1075 1075 Pa. 30 41 118 184 942 1,213 1,144 1,144 1,107 E.N. CENTRAL 114 156 145 163 4,835 4,989 2,996 4,302 Ind. 6 20 - 13 557 484 513 433 Mich. 31 40 67 84 803 8223 841 905 Min. 31 40 67 84 803 823 829 261 611 Min. 21 107 146 363 822 812 802 811 803 823 823 812 803 823 812 803 812 803 812 803	Vt.	3	4	55	86	104	87	109	79		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Mass. R.I.					1,118 122			1,104 149		
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $				947 650							
Pa. 30 41 118 184 942 1.214 1.144 1,107 Dhio 20 156 145 163 1,553 1,195 2,996 4,002 Ohio 20 164 10 353 1,185 1,143 1 1,439 III. 46 70 22 10 1,303 1,441 1 1,439 Wis. 11 8 6 21 583 889 361 538 Win. 27 41 83 103 495 522 590 659 Iowa 3 13 72 145 338 232 291 211 Mo. 10 13 50 29 6444 683 812 906 Nebr. 7 1 2 4 202 177 91 156 Kans. 6 5 88 96 337 308 9.010 4,914 5.943 Not. 100 88 376 367 73	N.Y. City	76	225	U	U	855	1,327	816	1,366		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	N.J. Pa.	33 30									
						4,635		2,995			
$\begin{array}{l c c c c c c c c c c c c c c c c c c c$	Ind.	6	20	-	13	587	484		433		
Wis. 11 8 6 21 583 889 361 538 Win. CENTRAL 55 73 489 677 2,661 2,055 2,200 2,619 Mo. 10 13 50 29 644 683 812 808 N.Dak. 2 - 107 134 55 44 70 60 S.Dak. 1 - 87 167 90 89 97 113 Kans. 6 5 88 95 337 308 269 211 Kans. 6 5 89 97 113 166 144 Md. 100 88 376 377 738 782 673 823 D.C. 15 18 - - 60 70 01 944 W.A. 4 2 107 103 150 153 161 944									1,439 905		
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Nebr. 7 1 2 4 202 177 91 156 Kans. 6 5 88 95 337 308 269 211 S. ATLANTIC 298 307 2.162 1,950 7,363 8,010 4,914 5,943 Del. 50 102 153 126 141 Md. 100 88 37 20 730 782 673 821 VA. Va. 49 2 107 103 155 1,162 144 N.C. 34 26 517 403 1,010 1208 1,003 1,218 S.C. 2 15 142 132 666 608 502 477 Ga. 26 22 306 204 1,381 1,373 1,443 1,358 K.V. 18 7 20 35 353 374 230 263 S.C.	N. Dak.	2	-	107	134	55	44	70	60		
Kans.658896337308269211S. ATLANTIC2983072,1621,9507,3638,0104,9145,943Del.10088376367738782673823D.C.15186070UUUVa.49675205229151,162816944N.C.342651710315151591373144N.C.34265174031,0011,2081,0031,217Ga.26223062041,3811,5731,4531,540Fla.68681451682,3412,495204656E.S. CENTRAL44231912432,1271,9841,4841,388Ky.1872035353374230263Tenn.1189787554553521454Miss.11-25755288991W.S. CENTRAL1815724513,7103,4593,8542,557Lak.7103512,4311,7382,4051,451Mont.1464558770-1Uks.217-16706663756Colla. </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Kans.	6	5	88		337	308		211		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	S. ATLANTIC Del.					7,363 102					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Md.	100	88			738	782	673	823		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Va.	49	67			915	1,162	816	944		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	N.C.	34	26		403	1,010	1,208	1,003	1,218		
Fla. 63 68 145 168 2,341 2,495 204 656 E.S. CENTRAL 44 23 191 243 2,127 1,984 1,484 1,358 Ky. 18 7 20 35 353 374 230 263 Tenn. 11 8 97 87 584 529 644 550 Ala. 14 7 74 119 615 553 521 454 Miss. 1 1 - 2 575 528 89 91 W.S.CENTRAL 18 15 72 451 3,710 3,459 3,854 2,557 La. 7 10 - - 248 686 629 555 Okla. 8 2 52 96 360 417 233 325 Tex. - - 351 2,431 1,738 2,405 1,451 MOUNTAIN 47 42 233 201 2,582 2,742 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			68	145	168	2,341			656		
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Miss. 1 1 - 2 575 528 89 91 W.S. CENTRAL 18 15 72 451 3.710 3.459 3.854 2.557 Ark. 3 3 20 14 671 618 587 226 La. 7 10 - - 248 686 629 555 Okla. 8 2 52 86 360 417 233 325 Tex. - - 351 2.431 1,738 2,405 1,451 MOUNTAIN 47 42 233 201 2,582 2,742 1,932 2,365 Mont. 1 4 64 55 87 70 - 1 Idaho 3 9 - 110 112 - 97 Wyo. - 1 50 42 59 66 37 56 Colo.	Tenn.	11	8	97	87	584	529	644	550		
Ark.332014671618587226La.710248686629555Okla.825286360417233325Tex3512,4311,7382,4051,451MOUNTAIN47422332012,5822,7421,9322,365Mont.1464558770-1Idaho339-110112-97Wyo1504259663756Colo.2217-1670669609655N.Mex3199217348182277Ariz.967278737819673737Utah64108465476431493Nev.6498237182-49PACIFIC2482422783484,9614,9573,8974,477Wash.3124538601547768Oreg.392074286390330429Calif.1671852483373,8683,6022,7832,991Alaska-1237575323 <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>				-							
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	La.	7	10	-	-	248	686	629	555		
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$								1,932			
$\begin{array}{cccccc} colo. & 22 & 17 & - & 1 & 670 & 669 & 609 & 655 \\ N. Mex. & - & 3 & 19 & 9 & 217 & 348 & 182 & 277 \\ Ariz. & 9 & 6 & 72 & 78 & 737 & 819 & 673 & 737 \\ Utah & 6 & 4 & 10 & 8 & 465 & 476 & 431 & 493 \\ Nev. & 6 & 4 & 9 & 8 & 237 & 182 & - & 49 \\ PACIFIC & 248 & 242 & 278 & 348 & 4.961 & 4.957 & 3.897 & 4.477 \\ Wash. & 31 & 24 & - & - & 538 & 601 & 547 & 768 \\ Oreg. & 39 & 20 & 7 & 4 & 286 & 390 & 330 & 429 \\ Calif. & 167 & 185 & 248 & 337 & 3.868 & 3.602 & 2.783 & 2.991 \\ Alaska & - & 1 & 23 & 7 & 57 & 53 & 23 & 31 \\ Hawaii & 11 & 12 & - & - & 212 & 311 & 214 & 258 \\ Guam & - & - & - & - & - & 36 & U & U \\ P.R. & 4 & - & 76 & 68 & 501 & 556 & U & U \\ P.R. & U & U & U & U & U & U & U \\ Amer. Samoa & U & U & U & U & U & U & U \\ Amer.Samoa & U & U & U & U & U & U & U \\ C.N.M.I. & U & U & U & U & U & U & U & U \\ \end{array}$					55			-			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Wyo.	-	1			59	66		56		
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PACIFIC 248 242 278 348 4,961 4,957 3,897 4,477 Wash. 31 24 - - 538 601 547 768 Oreg. 39 20 7 4 286 390 330 429 Calif. 167 185 248 337 3,868 3,602 2,783 2,991 Alaska - 1 23 7 57 53 23 31 Hawaii 11 12 - - 217 311 214 258 Guam - - - 256 U	Utah	6	4	10	8	465	476		493		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								-			
Calif. 167 185 248 337 3,868 3,602 2,783 2,991 Alaska - 1 23 7 57 53 23 31 Hawaii 11 12 - - 212 311 214 258 Guam - - - - 36 U U P.R. 4 - 76 68 501 556 U U Amer. Samoa U U U U U U U U U C.N.M.I. U U U U U U U U U	Wash.		242 24	278				547			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Oreg.	39	20			286	390	330	429		
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P.R. 4 - 76 68 501 556 U U V.I. U U U U U U U U U Amer. Samoa U U U U U U U U U C.N.M.I. U U U U U U U U		11		-	-	212					
Ámer. Samoa Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú <u>C.N.M.I. U U U U U U U U</u>	P.R.	4	-				556	Ŭ	Ŭ		
	Amer. Samoa	U	Ŭ	U	Ŭ	Ū	U	U	Ŭ		
		-	-	-	-	U	U	U	U		

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending November 18, 2000, and November 20, 1999 (46th Week)

N: Not notifiable. U: Unavailable. -: No reported cases. * Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

weel	<u>s ending</u>	<u>Novemb</u>	<u>er 18, 20</u>	<u>00, and N</u>	<u>ovember</u>	20, 1999	<u>(46th Wee</u>	ek)
			llosis*			philis	_ .	
	NET Cum.	Cum.	Cum.	HLIS Cum.	(Primary 8 Cum.	& Secondary) Cum.	Cum.	rculosis Cum.
Reporting Area	2000	1999	2000	1999	2000	1999	2000	1999
UNITED STATES	18,753	14,807	9,427	8,938	5,317	5,917	10,800	13,555
NEW ENGLAND Maine	362 10	803 5	332 12	782	67 1	54	354 12	378 16
N.H.	6	16	8	16	2	1	16	13
Vt. Mass.	4 250	6 691	220	4 674	42	3 32	4 217	3 207
R.I. Conn.	26 66	23 62	28 64	23 65	4 18	2 16	28 77	39 100
MID. ATLANTIC	1,862	966	1,141	675	242	262	1,980	2,298
Upstate N.Y. N.Y. City	708 675	252 319	180 457	68 220	13 109	18 112	257 1,078	291 1,184
N.J. Pa.	296	226 169	313	213	42 78	62 70	482	469
Fa. E.N. CENTRAL	183 3,566	2,843	191 1,015	174 1,541	1,038	1,094	163 1,138	354 1,420
Ohio	366	382	271	133	67	84	205	225
Ind. III.	1,456 913	295 1,157	139 2	99 867	330 303	389 373	102 577	118 701
Mich. Wis.	618 213	434 575	549 54	377 65	295 43	208 40	182 72	287 89
W.N. CENTRAL	2,185	1,083	1,726	718	57	117	401	466
Minn. Iowa	679 504	207 59	750 297	225 49	13 11	9 9	128 32	177 40
Mo. N. Dak.	613 42	662 3	431 49	326 2	25	83	164 2	164 6
S. Dak.	7 125	13 78	4 84	10 61	- 2	- 6	16	17 16
Nebr. Kans.	215	61	111	45	6	10	22 37	46
S. ATLANTIC Del.	2,733 21	2,235 14	1,040 20	503 10	1,772 8	1,900	2,244 14	2,663 25
Md.	191	147	104	52	254	328	212	239
D.C. Va.	72 428	51 122	U 323	U 61	46 121	43 142	29 247	49 247
W. Va. N.C.	4 352	8 193	3 249	5 88	2 435	5 428	27 269	37 424
S.C.	123 239	115 211	82 164	61 80	196 351	237 390	109 469	218 530
Ga. Fla.	1,303	1,374	95	146	359	319	868	894
E.S. CENTRAL Ky.	1,047 450	1,098 224	485 96	634 145	792 78	1,028 94	789 110	913 164
Tenn.	331	622	334	420	475	580	280	311
Ala. Miss.	87 179	110 142	49 6	59 10	110 129	194 160	270 129	274 164
W.S. CENTRAL Ark.	2,709 193	2,414 73	2,563 52	1,061 26	742 89	939 75	887 156	1,695 147
La.	134	196	156	116	195	277	74	208
Okla. Tex.	116 2,266	503 1,642	35 2,320	154 765	118 340	165 422	123 534	161 1,179
MOUNTAIN	1,190	1,031	659	700	218	204	424	459
Mont. Idaho	7 44	9 24	-	12	1	1 1	17 11	13 12
Wyo. Colo.	5 254	3 184	2 170	1 148	1 11	- 2	4 68	3 66
N. Mex. Ariz.	156 532	125 540	99 311	93 377	21 178	11 183	36 176	52 190
Utah	76	58	77	63	1	2	41 71	37
Nev. PACIFIC	116 3,099	88 2,334	466	6 2,324	5 389	4 319	2,583	86 3,263
Wash.	418	105	339	103	60	64	213	223
Oreg. Calif.	157 2,480	87 2,111	95	81 2,107	6 322	6 245	25 2,139	99 2,726
Alaska Hawaii	8 36	3 28	3 29	3 30	- 1	1 3	90 116	51 164
Guam	-	17	U	U	-	-	-	62
P.R. V.I.	26 U	131 U	U U	U U	154 U	137 U	238 U	172 U
Amer. Samoa C.N.M.I.	U U	U U	U U	U U	U U	U U	U U	U U
N: Not notifiable	-	vailable	_	orted cases	-	-	-	-

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending November 18, 2000, and November 20, 1999 (46th Week)

N: Not notifiable. U: Unavailable. -: No reported cases. *Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

and November 20, 1999 (46th Week)												
		uenzae,		epatitis (Vi		ре				es (Rubec		
		asive	A		B	0	Indiger		Impo		Total	0
Reporting Area	Cum. 2000 [†]	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	2000	Cum. 2000	2000	Cum. 2000	Cum. 2000	Cum. 1999
UNITED STATES	1,069	1,047	11,148	14,578	5,924	6,128	1	59	-	18	77	92
NEW ENGLAND	93	86	329	314	86	136	-	3	-	4	7	11
Maine N.H.	1 12	7 17	21 18	12 17	5 15	1 15	Ū	2	Ū	- 1	- 3	- 1
Vt. Mass.	7	5 35	10 114	19 126	6 12	4	-	-	-	3	3	8
R.I.	4	5	23	21	20	33	-	-	-	-	-	-
Conn.	33	17	143	119	28	41	-	-	-	-	-	2
MID. ATLANTIC Upstate N.Y.	164 91	180 73	1,003 214	1,076 242	780 127	780 162	-	14 9	2	5	19 9	5 2
N.Y. City N.J.	33 30	55 47	320 100	359 140	390 57	238 121	-	5	-	4	9	3
Pa.	10	4/ 5	369	335	206	259	-	-	-	1	1	-
E.N. CENTRAL	134	172	1,297	2,657	640	634	1	9	-	-	9	4
Ohio Ind.	49 27	54 22	242 114	598 96	96 44	84 35	-	2	-	-	2	2
III. Mich.	48 7	70 19	486 442	719 1,173	110 389	52 434	- 1	4 3	-	-	4 3	1 1
Wis.	3	7	13	71	1	29	-	-	-	-	-	-
W.N. CENTRAL	62	68 43	675	845 94	502	307	-	3	-	1	4 1	1
Minn. Iowa	35 1	43 2	177 65	132	35 34	49 38	-	2	-	1	2	1 -
Mo. N. Dak.	16 2	10 1	297 3	514 3	372 2	185 2	-	-	-	-	-	-
S. Dak. Nebr.	1 3	2 4	2 33	9 48	1 37	1 19	-	-	-	-	-	-
Kans.	3 4	4 6	33 98	48 45	21	19	Ū	- 1	Ū	-	1	-
S. ATLANTIC	275	214	1,363	1,655	1,186	998	-	4	-	-	4	20
Del. Md.	- 74	56	200	2 268	111	1 136	-	-	-	-	-	-
D.C. Va.	37	5 18	24 142	54 164	29 147	25 86	-	- 2	-	-	2	- 18
W. Va. N.C.	9 23	7	53 129	39 148	14 219	22 211	U	-	U	-		-
S.C.	15	5	72	43	21	63	-	-	-	-	-	-
Ga. Fla.	64 53	55 37	280 463	440 497	218 427	149 305	-	2	-	-	2	2
E.S. CENTRAL	46	59	359	370	405	438	-	-	-	-	-	2
Ky. Tenn.	12 22	7 33	45 129	64 145	65 199	45 205	-	-	2	-	-	2
Ala. Miss.	11 1	16 3	52 133	53 108	49 92	79 109	-	-	-	-	-	-
W.S. CENTRAL	57	59	2,122	2,798	688	1,033		_	_	-	_	12
Ark. La.	2 11	2 14	107	61 203	75 87	76 161	-	-	-	-	-	5
Okla.	42	39	243	460	145	129	-	-	-	-	-	-
Tex.	2	4	1,716	2,074	381	667	-	-	-	-	-	7
MOUNTAIN Mont.	103 1	98 3	899 7	1,142 17	490 6	520 17	-	12		1 -	13	2
ldaho Wyo.	4 1	1	30 39	40 8	6 25	27 13	-	-	-	-	-	-
Colo.	17	14	189	207	101	91	-	2	-	1	3	-
N. Mex. Ariz.	21 44	18 50	68 439	47 631	97 188	166 125	-	-		-	-	- 1
Utah Nev.	11 4	8 3	57 70	56 136	24 43	31 50	Ū	3 7	Ū	-	3 7	- 1
PACIFIC	135	111	3,101	3,721	1,147	1,282		14		7	21	35
Wash.	7 29	6 37	258 168	308 224	107 107	65 102	-	2	-	1	3	5 12
Oreg. Calif.	32	51	2,651	3,156	913	1,084	-	11	-	3	14	12
Alaska Hawaii	44 23	9 8	11 13	11 22	9 11	16 15	-	1 -	-	- 3	1 3	- 1
Guam	-	-	-	1	-	4	U	-	U	-	-	1
P.R. V.I.	4 U	2 U	202 U	306 U	219 U	221 U	Ū	Ū	Ū	Ū	Ū	Ū
Amer. Samoa	Ŭ	Ŭ U	Ŭ	Ŭ	Ŭ U	Ŭ	Ŭ U	Ŭ	Ŭ U	Ŭ	Ŭ U	Ŭ
C.N.M.I. N: Not potifiable	-	U Uavaila	-	-	U Dorted case	-	U	U	U	U	U	0

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending November 18, 2000, and November 20, 1999 (46th Week)

N: Not notifiable. U: Unavailable. - : No reported cases. *For imported measles, cases include only those resulting from importation from other countries. *Of 225 cases among children aged <5 years, serotype was reported for 95 and of those, 22 were type b.

		and	Nove	mber 2	0, 199	9 (46tl	h Week)			
	Dise	jococcal ease		Mumps			Pertussis			Rubella	
Reporting Area	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999
UNITED STATES	1,843	2,111	4	291	328	93	5,836	5,750	-	148	244
NEW ENGLAND	120	101	-	4	8	13	1,420	753	-	13	7
Maine N.H.	8 12	5 12	Ū	-	- 1	Ū	41 116	91	Ū	2	-
Vt. Mass.	3 70	5 58	-	- 1	1 4	9	219 982	67 533	-	- 9	-7
R.I.	9	6	-	1	2	1	17	33	-	1	-
Conn.	18	15 208	-	2 23	- 40	3 16	45 586	29 897	-	1 9	- 34
MID. ATLANTIC Upstate N.Y.	174 61	64	-	10	10	16	295	667	-	2	20
N.Y. City N.J.	33 38	53 48	-	4 3	12 1	-	51 35	54 26	-	7	7 4
Pa.	42	43	-	6	17	2	205	150	-	-	3
E.N. CENTRAL Ohio	327 85	376 126	-	30 7	44 17	4	651 312	514 190	-	1	2
Ind.	44	57	-	1	4	-	93	71	-	-	1
III. Mich.	72 100	99 59	-	6 16	11 8	2 2	74 91	85 60	-	1	1
Wis.	26	35	-	-	4	-	81	108	-	-	-
W.N. CENTRAL Minn.	158 20	211 47	-	18	13 1	12	532 317	430 188	-	3 1	128 5
lowa	33	37	-	7	7	3	53	82	-	-	30
Mo. N. Dak.	83 2	82 4	-	4	1 1	9	79 6	71 18	-	1 -	2
S. Dak. Nebr.	5 7	11 10	-	- 4	-	-	7 31	6	-	- 1	90
Kans.	8	20	U	3	3	U	39	56	U	-	1
S. ATLANTIC	280	358	-	42	47	9	452	402	-	92	35
Del. Md.	1 26	10 50	-	10	6	-	8 106	5 113	-	1 -	1
D.C. Va.	- 38	4 50	-	- 9	2 10	- 8	3 106	1 50	-		-
W. Va. N.C.	12 36	8 42	U	- 7	- 8	U	1 98	3 93	U	- 82	- 34
S.C.	21	43	-	10	4	-	29	17	-	7	-
Ga. Fla.	43 103	59 92	-	2 4	4 13	- 1	38 63	40 80	-	2	-
E.S. CENTRAL	122	147	-	7	14	3	104	93	-	5	2
Ky. Tenn.	26 52	30 60	-	1 2	-	3	53 31	29 40	-	1 1	-
Ala. Miss.	32 12	35 22	-	22	10 4	-	19 1	21 3	-	3	2
WISS. W.S. CENTRAL	12	198	- 3	30	4 39	- 4	327	207	-	6	- 15
Ark.	13	32	3	5	-	1	34	24	-	-	5
La. Okla.	35 26	62 33	-	4	10 1	-	12 40	9 40	-	1	- 1
Tex.	51	71	-	21	28	3	241	134	-	5	9
MOUNTAIN Mont.	140 4	128 4	-	21 1	26	11	721 35	709 2	-	2	16
Idaho	7	9 4	-	2	3	2	59 6	144 2	-	-	-
Wyo. Colo.	34	33	-	1	6	7	424	268	-	- 1	1
N. Mex. Ariz.	10 75	14 41	-	1 4	N 8	2	82 79	129 99	-	- 1	- 13
Utah Nev.	7	15 8	Ū	6 6	4 5	Ū	24 12	56 9	Ū	-	1
PACIFIC	3 397	8 384	1	116	97	21	1,043	9 1,745	0	17	5
Wash.	54	61	-	10	2	13	376	628	-	7	-
Oreg. Calif.	70 257	72 238	N 1	N 85	N 80	- 8	113 501	56 1,009	-	10	- 5
Alaska Hawaii	8 8	7 6	-	7 14	2 13	-	22 31	5 47	-	-	-
Guam	-	1	U	-	3	U	-	4/ 2	U	-	-
P.R. V.I.	9 U	12 U	Ū	Ū	Ū	6 U	12 U	23 U	Ū	Ū	Ū
Amer. Samoa	Ŭ	U	U	U	Ŭ	U	U	U	Ŭ	U	U
C.N.M.I.	U	U	U	U	U	U	U	U	U	U	U

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending November 18, 2000, and November 20, 1999 (46th Week)

N: Not notifiable.

U: Unavailable.

-: No reported cases.

				1401	/enir	Jei	10, 2	000 (40LII W	EEK)						
	Å	All Cau	ses, By	Age (Y	ears)		P&I⁺			All Cau	ses, By	Age (Y	ears)		P&I⁺
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn Cambridge, Mass Fall River, Mass. Hartford, Conn.	. 17 30 48	349 U 38 13 25 28	6 2 4 11	25 U 3 1 3 2	8 U 1 - 1	7 U - 1 - 3	33 U 4 1 2 1	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla Miami, Fla.	113	814 98 99 63 108 80	259 38 46 24 33 21	120 10 22 5 17 12	21 3 2 1	24 5 1 2 4	87 8 19 5 14 10
Lowell, Mass. Lynn, Mass. New Bedford, Ma New Haven, Conn Providence, R.I. Somerville, Mass. Springfield, Mass	. 47 . 79 . 7	9 8 22 32 56 5 25	3 3 7 18	2 - 2 3 4 1 3	- 1 - 3 1 -	- - 2 - 1	2 1 2 3 - 6	Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, F Tampa, Fla. Washington, D.(Wilmington, De	177 C. 102	28 29 34 59 123 78 15	8 19 10 16 29 15	5 12 - 4 18 7 8	1 4 - 3 5 -	2 3 3 2 2	2 5 4 7 11 2
Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y.	32 72 2,028 54	27 61 1,458 42	4 9 376 6	1 1 133 2	1 31 3	- - 29 1	1 10 125 8	E.S. CENTRAL Birmingham, Ala Chattanooga, Te Knoxville, Tenn.	926 a. 156	612 99 69 86	211 38 27 22	64 11 7 13	24 3 1 5	15 5 2 1	61 9 6 9
Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§	25 U 41 20 59	22 U 26 16 42	1 U 8 1 12	1 U 4 3 4	1 U 1 -	U 2 1	2 U 4 1 7	Lexington, Ky. Memphis, Tenn Mobile, Ala. Montgomery, A Nashville, Tenn.	102	51 131 70 23 83	18 32 25 12 37	4 14 3 9	2 5 3 5	2 1 - 4	3 14 5 4 11
Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa.	U 28 163 61 19	26 845 U 12 95 42 16	5 222 U 11 45 12 1	3 74 U 3 15 4	1 11 U 1 5 1	1 14 U 1 3 2	- 58 U - 6 1	W.S. CENTRAL Austin, Tex. Baton Rouge, La Corpus Christi, T Dallas, Tex. El Paso, Tex.		1,015 59 53 33 106 75 74	322 25 18 11 46 30 26	131 6 3 20 7 2	42 1 2 3 3	32 1 - 8 1	103 4 3 5 16 1 3
Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	141 26 30 115 25 18 U	110 20 19 92 18 15 U	20 4 7 14 5 2 U	8 1 3 2 1 U	1 - 4 - U	2 - 2 - U	7 4 16 2 1 U	Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La San Antonio, Te Shreveport, La. Tulsa, Okla.	405 95 . U	251 66 U 162 14 122	20 77 14 U 49 5 21	52 10 17 2 6	18 2 U 8 1 4	2 7 3 U 3 2 4	3 29 6 U 23 1 12
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio	2,140 63 41 353 141 140 156 138	1,502 46 31 229 103 90 114 110	386 11 4 68 21 41 28 16	139 3 30 10 3 7 6	61 - 17 3 4 4 3	52 3 1 9 4 2 3 3	130 5 - 8 15 7 5	MOUNTAIN Albuquerque, N Boise, Idaho Colo. Springs, C Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz.	43	745 102 28 40 57 142 36 126	231 26 11 10 25 62 3 46	91 18 1 5 8 16 1 13	20 4 1 3 4 - 1	25 2 2 7 - 7	53 8 1 - 6 10 2 10
Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Mic	248 28 59 24	145 21 46 11 36	57 57 9 9 7	26 1 2 3 3	11 1 2 - 1	9 - - 1 1	3 18 3 6 1 9	Pueblo, Colo. Salt Lake City, U Tucson, Ariz. PACIFIC	167 2,093	24 73 117 1,503	9 15 24 385	11 18 126	- 1 5 49	1 3 3 28	2 9 5 158
Indianapolis, Ind. Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohi	218 34 100 61 50 53 111	30 141 30 72 46 43 43 89 56	43 3 17 6 4 8 17 12	3 21 3 4 1 4 5	6 - 3 2 2 1 1	7 - 5 3 - - 1	5 16 1 7 8 5 - 4 7	Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawa Long Beach, Cal Los Angeles, Cal Pasadena, Calif. Portland, Oreg.	if. 67 lif. 584 20 149	13 70 26 59 50 414 16 106 113	2 19 6 18 12 100 4 29 38	2 5 - 10 45 - 9 10	- 1 1 - 16 - 5	- 1 - 2 1 9 -	1 11 4 16 27 1 9
W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans Kansas City, Mo. Lincoln, Nebr. Minneapolis, Min	762 U 27 . 29 108 45 n. 207	554 U 19 17 66 40 154	121 U 4 19 4 35	53 U 4 3 14 1 14	15 U 1 5 1	19 U - 4 - 3	59 U 3 4 6 4 21	Sacramento, Ĉaj San Diego, Calif San Francisco, C San Jose, Calif. Santa Cruz, Calif Seattle, Wash. Spokane, Wash. Tacoma, Wash.	. 233 Calif. 102 198 f. 31 129	113 170 69 149 26 88 67 67	38 37 26 31 5 28 12 18	10 15 5 6 - 7 3 5	5 7 - 7 - 4 - 2	3 2 5 - 2 2 1	11 18 13 13 2 11 14 6
Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	63 114 84 85	49 80 72 57	9 18 8 16	2 4 3 8	2 4 - 2	1 8 1 2	5 9 3 4	TOTAL	12,314	8,552	2,372	882	271	231	809

TABLE IV. Deaths in 122 U.S. cities,* week ending November 18, 2000 (46th Week)

U: Unavailable. -: No reported cases.

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

¹Because 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. ¹Total includes unknown ages.

Measles, Rubella, and Congenital Rubella Syndrome - Continued

preponderance of importation-related cases, the geographic isolation of each case, and the lack of a recurring viral measles strain indicate that measles is no longer endemic in the United States (3). The consistent detection of imported measles cases is evidence of the sensitivity of U.S. measles surveillance. The benefit of concurrent improvements in measles control is demonstrated by the absence of imported cases from Mexico into the United States during 1997–1999.

The United States is on the verge of eliminating indigenous rubella and CRS. However, rubella outbreaks continue to occur, primarily among Hispanics from countries where no national routine rubella vaccination program exists or where a program has been implemented only recently. Because universal rubella vaccination in Mexico was introduced in 1998, ongoing rubella and CRS surveillance will be important to document the impact of the new program. After successfully implementing measles-rubella (MR) vaccination among health-care personnel, Mexico implemented MR vaccination campaigns among at-risk adolescents and adults, including junior and senior high school students and teachers in October 2000. Mass vaccination of adolescents and adults will accelerate the decline in rubella and CRS cases and prevent the re-entry of measles.

Measles remains a leading cause of morbidity and mortality worldwide. The United States and Mexico have achieved the PAHO goal of eliminating endemic transmission of measles. For countries undertaking measles elimination, integrating rubella control into measles elimination activities is a preferred strategy because of the similar surveillance activities and intervention target groups for MR/MMR vaccine (7). In countries where the health burden from rubella has been documented and where immunity among women of childbearing age can be assured, implementing a universal childhood rubella vaccination program with >80% coverage will lead to a decline in rubella and CRS (7).

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