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MORBIDITY AND MORTALITY WEEKLY REPORT

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Infection with Mycobacterium abscessus Associated with Intramuscular Injection of Adrenal Cortex Extract — Colorado and Wyoming, 1995–1996

During March–April 1996, a physician in the Denver area administered intramuscular injections of a preparation labeled "adrenal cortex injection" to 69 patients in Colorado as part of a weight-loss regimen. As of August 7, a total of 47 (68%) of these persons were reported to have developed abscesses (diameters ranging from 0.5 cm to 4.0 cm) at the site of injection (either gluteal or deltoid muscle). An investigation of these episodes by the physician and the Colorado Department of Public Health and Environment identified *Mycobacterium abscessus* as the cause of the infections. This report summarizes preliminary findings of the ongoing investigation, which indicate that injection-site abscesses were associated with contaminated injectable preparations.

The 47 case-patients ranged in age from 20 to 63 years (median: 40 years); 46 were female. The interval from injection to presentation for medical care ranged from 10 to 114 days (median: 33 days). Seventeen persons (36%) required one or more incision and drainage procedures; two persons required subcutaneous excision.

In addition to these 47 cases, the physician reported five similar cases among patients he had treated who resided in Wyoming; these patients developed abscesses during August 1995–May 1996 following injection of the preparation. In July 1996, a second physician in the Denver area also reported two cases (one culture-confirmed) of *M. abscessus* infection following administration of the preparation in September 1995.

Specimens of abscess material were obtained from 11 Colorado patients: culture-confirmed *M. abscessus* was isolated from one culture, rapid-growing *Mycobacterium* consistent with *M. abscessus* was isolated from three cultures, and results are pending for the other cultures. In addition, rapid-growing *Mycobacterium* consistent with *M. abscessus* was isolated from one unopened and three opened vials of purported adrenal cortex extract. The vials were labeled "distributed by Hallmark Labs, Inc.," and did not have lot numbers or expiration dates. The label stated the product could be administered intramuscularly, intravenously, or subcutaneously. This product has not been approved by the Food and Drug Administration (FDA).

Mycobacterium abscessus — Continued

As a result of these and other episodes, CDC, FDA, and several state health departments are collaborating on a comprehensive investigation of this product. Reported by: L Miller, MD, E Mangione, MD, J Beebe, PhD, RE Hoffman, MD, State Epidemiologist, Colorado Dept of Public Health and Environment; P Levy, PhD, G Huitt, MD, National Jewish Center for Immunology and Respiratory Medicine, Denver. GL Miller, DVM, State Epidemiologist, Wyoming Dept of Health. Food and Drug Administration. Tuberculosis/ Mycobacteriology Br, Div of AIDS, STD, and TB Laboratory Research; Special Pathogens Section, Childhood and Respiratory Diseases Br, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: *M. abscessus* (formerly *M. chelonae* subspecies *abscessus*) is an acid-fast rod classified with *M. fortuitum* and *M. chelonae* as pathogenic "rapid growing" nontuberculous mycobacteria. Although these organisms are ubiquitous in the environment and have been found in municipal and well water, soil, and dust, they rarely cause disease in humans. *M. abscessus* has been associated with a variety of infections including skin and soft-tissue infections (following puncture wounds or inoculations), pulmonary infection, infections related to foreign material (e.g., porcine and prosthetic cardiac grafts, prosthetic joints, intravenous and dialysis catheters, tympanoplasty tubes, and augmentation mammoplasty), and postsurgical infections (e.g., sternal wound) (1). Bacteremia and disseminated infection, although rare, occur most commonly in immunocompromised hosts and result in high proportions of deaths (2).

Diagnosis of *M. abscessus* infection relies on culture and identification of the organism. Rapid-growing mycobacteria grow in common laboratory broths (e.g., Mueller-Hinton and tryptic soy broth) in 5–8 days without supplementation (1). However, more abundant growth occurs on broth and on agar-based media specific for the growth of mycobacteria. Isolates can be mistaken for "diphtheroids" unless acid-fast staining or further identification is performed. Species identification and susceptibility testing should be conducted in a reference laboratory. Treatment of *M. abscessus* infection involves removal of infected tissue or prosthetic material and antimicrobial therapy. Most isolates of *M. abscessus* are susceptible to clarithromycin, amikacin, and cefoxitin and demonstrate variable susceptibility to erythromycin (3,4). Combination chemotherapy with at least two antimicrobial agents to which the isolate is susceptible is advised because monotherapy has been shown to contribute to the development of resistance (5). Localized disease usually responds to 2–4 months of therapy in immunocompetent hosts, and disseminated infections can require >6 months of therapy (5).

This report illustrates the risks associated with use by patients and health-care providers of non-FDA approved products or products from unknown sources. Preliminary information suggests the product is distributed primarily to alternative-medicine providers. Adrenal cortex injections reportedly are used to enhance well-being in persons infected with human immunodeficiency virus. To identify infections secondary to injection of purported adrenal cortex extract, health-care providers should inquire about potential previous use in their patients who have cutaneous abscess and should obtain specimens for inoculation on culture media that will support the growth of *M. abscessus*. Cases of abscess following injection of purported adrenal cortex extract should be reported to local and state health departments.

Mycobacterium abscessus — Continued

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Economic Impact of Motor-Vehicle Crashes Involving Teenaged Drivers — Kentucky, 1994

Motor-vehicle crashes (MVCs) are the leading cause of death and disability for teenagers of driving age (16–19 years) in the United States (1). In addition, teenaged drivers account for a disproportionate number of MVCs compared with adult drivers (aged ≥20 years) (1). In Kentucky, teenagers are overrepresented in MVCs. To characterize the economic costs associated with MVCs involving teenaged drivers in Kentucky, the Kentucky Injury Prevention and Research Center conducted a cost analysis of data from MVCs involving such drivers for 1994. This report presents the findings of this analysis, which indicate that, during 1994, crashes involving at least one teenaged driver in Kentucky incurred costs of \$410 million.

Data were analyzed for all fatal and nonfatal MVCs and for MVCs involving property (vehicle) damage only (PDO) identified in the 1994 Kentucky Accident Reporting System maintained by the Kentucky State Police, Information Services Branch. Injury costs were based on the maximum injury sustained using the Abbreviated Injury Scale—a standardized system for categorizing injury type and quantifying severity based on immediate threat to life (2). Costs were estimated using a National Highway Traffic Safety Administration (NHTSA) report (3) and the CrashCost software program (4) designed to calculate cost estimates of MVCs in state or local jurisdictions.

In 1994, teenaged drivers represented 5.6% of licensed drivers in Kentucky but accounted for 26,905 (22%) of the state's 124,037 MVCs. Teenaged drivers were involved in 120 (17%) of 706 fatal MVCs, 8490 (25%) of 34,643 nonfatal injury MVCs, and 18,295 (21%) of 88,688 PDO crashes (5). Of the 142 persons killed in crashes involving a teenaged driver, 62 (44%) were the teenaged driver (5). Based on information from Kentucky Uniform Police Traffic Accident Report forms, alcohol was not a major contributing factor to MVCs involving teenaged drivers: 17 (14%) of the 120 fatal crashes involving a teenaged driver were alcohol-related; in comparison, 242 (41%) of 586 fatal crashes involving an adult driver were alcohol-related (5).

Teenaged drivers were more likely than adult drivers to be killed or injured in an MVC. The death rate for teenaged drivers (44 per 100,000 teenaged licensed drivers) was more than twice that for adult drivers (19 per 100,000 adult licensed drivers). The rate of nonfatal injury for teenaged drivers was approximately three times greater

than that for adult drivers. The rate of nonfatal injury was highest for 16-year-olds and decreased with increasing age.

Odds ratios (ORs) were calculated to estimate the relative risk for involvement in an MVC, for fatal and incapacitating injury, and for fatal injury for teenaged compared with adult drivers (Table 1). For all three outcomes, the crude ORs and the Mantel-Haenszel age-adjusted ORs were statistically significant at each age from 16 to 19 years. The age-adjusted OR for involvement in an MVC was greater for teenaged drivers (OR=3.30, 95% confidence interval [CI]=3.26–3.34), and the risk for sustaining a fatal or incapacitating injury was almost as high (OR=2.91, 95% CI=2.72–3.11). The age-adjusted risk for a teenaged driver sustaining a fatal injury was more than twice that for adult drivers (OR=2.30, 95% CI=1.77–2.99).

The economic costs of MVCs involving teenaged drivers were calculated for injury-and noninjury-related costs on a "unit" (i.e., per injured person or per damaged vehicle) basis (Table 2). Using NHTSA's CrashCost software (4), the estimated cost of a single MVC-related fatality was \$642,700. For fatal injuries, 80% of the cost was from lost productivity; insurance administration and legal/court costs accounted for 17%. The estimated cost of a single critical injury was \$563,000. For critical injuries, medical expenses accounted for 45% and productivity losses accounted for 33% of the total unit costs. Unit costs for all other levels of injury severity ranged from approximately \$5700 (minor injury) to approximately \$151,000 (severe injury). In general, estimated unit costs increased with increasing levels of injury severity.

To calculate the estimated total costs of MVCs involving teenaged drivers in 1994, unit costs were multiplied by the number of fatal and nonfatal injuries and the number of vehicles involved in crashes with PDO (Table 3). The software adjusts the number of crashes to account for unreported crashes. The total estimated cost of all 142 fatal injuries sustained in a crash involving a teenaged driver was \$91 million. For all MVCs in which at least one teenager was driving, the total estimated cost of all MVC-related injuries (regardless of severity level) and noninjury costs for all persons and for all crashes involving PDO was \$410 million.

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TABLE 1. Comparison of teenaged* drivers with all other licensed drivers in motor-vehicle crashes (MVCs) — Kentucky, 1994

	Involveme	nt in MVC		ıl and ting† injury	Fatal injury		
Age (yrs)	Crude OR§	(95% CI [¶])	Crude OR	(95% CI)	Crude OR	(95% CI)	
16	5.2	(5.0-5.3)	4.4	(3.8-5.0)	2.4	(1.2-4.7)	
17	3.6	(3.5-3.7)	2.8	(2.4-3.2)	2.6	(1.5–4.2)	
18	2.9	(2.8-3.0)	2.7	(2.4-3.1)	1.9	(1.1–3.2)	
19	2.6	(2.5–2.7)	2.4	(2.1–2.8)	2.5	(1.5–3.9)	
Age-adjusted	3.30	(3.26-3.34)	2.91	(2.72-3.11)	2.30	(1.77-2.99)	

^{*} Aged 16-19 years.

[†]Any injury other than a fatal injury that prevents injured persons from walking, driving, or normally continuing the activities they were capable of before the injury occurred.

[§]Odds ratio. Referent group was drivers aged ≥20 years.

[¶]Confidence interval.

TABLE 2. Estimated cost of motor-vehicle crashes involving teenaged* drivers per injured person or per damaged vehicle, by type of expense and injury severity level† — Kentucky, 1994§

Expense	PDO¶	Minor	Moderate	Serious	Severe	Critical	Fatal
Injury							
Medical	_	\$ 690	\$ 5,558	\$18,725	\$ 57,459	\$251,633	\$ 3,733
Premature funeral	_	_	_	_	_	_	2,767
Emergency							
services	\$ 22	124	275	413	940	957	861
Vocational							
rehabilitation	_	12	80	174	227	432	_
Market							
productivity	_	971	9,127	29,856	41,960	149,044	418,236
Household							
productivity	33	298	2,48	7,854	11,131	38,015	92,710
Insurance							
administration	117	390	1,592	5,206	10,669	41,056	44,769
Workplace costs	28	142	1,075	2,396	2,610	4,623	6,091
Legal/Court	_	274	1,981	9,364	18,622	70,438	65,700
Total**	200	2,901	22,177	73,989	143,618	556,198	634,866
Noninjury							
Travel delay	98	158	158	158	158	158	353
Property damage	1,072	2,665	2,741	4,715	6,823	6,549	7,464
Total**	1,169	2,823	2,899	4,872	6,981	6,707	7,816
Total**	\$1,369	\$5,724	\$25,076	\$78,861	\$150,599	\$562,905	\$642,683

^{*} Aged 16-19 years.

Editorial Note: Teenaged drivers are involved disproportionately in MVCs throughout the United States and other developed countries. Kentucky has ranked consistently among the 10 states with the highest death rate for teenagers in MVCs (6). Factors accounting for the high proportion of MVC costs associated with teenaged drivers when compared with adult drivers include 1) higher morbidity and death rates for teenagers; 2) greater risk among teenaged drivers for involvement in crashes resulting in serious injury or death; and 3) potentially greater lifetime productivity losses for younger drivers than some older age groups. Although teenagers may not provide financial support for their families, fatal or permanently disabling injuries from MVCs generate a substantial economic loss by removing these youth from society as potential producers and consumers.

Findings from the CrashCost software used to analyze the data for this report have at least four limitations. First, the software averages lost productivity costs across all age groups for each injury level, producing conservative estimates for costs associated with crashes involving teenaged drivers. Second, the software uses proportions derived from national estimates for the distribution of injury severity, driver age, crash-related costs, and crashes unreported to the police, then applies them to state

[†] Injury costs were computed based on the maximum injury sustained using the Abbreviated Injury Scale, a standardized system for categorizing injury type and quantifying severity based on immediate threat to life (3).

[§] Estimates were derived by using the National Highway Traffic Safety Administration's CrashCost software and were adjusted for locality (Kentucky) and year (1994).

[¶]Property damage only.

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

TABLE 3. Total costs of motor-vehicle crashes involving teenaged* drivers — Kentucky, 1994

Category	Unit cost§	Incidence [¶]	Total cost		
Injury level					
Minor	\$ 5,724	18,834	\$107,805,816		
Moderate	25,076	2,171	54,439,996		
Serious	78,861	698	55,044,978		
Severe	150,599	85	12,800,915		
Critical	562,905	45	25,330,725		
Fatal	642,683	142	91,260,986		
PDO	1,369	46,031	63,016,439		
Total			\$409,699,855		

^{*} Aged 16-19 years.

data. The national estimates may not reflect the actual distributions of these factors in Kentucky. Third, the software uses an assessment of injury severity made by the police, which is accurate for minor injury and fatal injury categories but accurate for less than half of those whose injuries were classified in other categories. Finally, the costs may be underestimated because they do not include intangible costs (e.g., "pain and suffering").

Strategies aimed at reducing the number of MVCs attributed to teenaged drivers should substantially decrease both the overall numbers of traffic-related injuries and deaths and the costs of these crashes. Use of graduated driver licensing (GDL) systems is an important approach for reducing the number and subsequent costs of crash-related deaths and injuries among teenagers, their passengers, and other drivers. The intent of GDL systems is to provide young, novice drivers an opportunity to gain driving experience in low-risk settings. The system consists of three licensing stages, named by the type of license possessed at each stage: learner's permit, intermediate or provisional license, and full or unrestricted license. The system is not intended to raise the age for drivers' licensing. GDL programs target the driving behaviors and crash characteristics of teenagers that increase their risk for crash involvement (e.g., inexperience; poor decision-making skills; and high risk-taking behavior such as speeding, alcohol use, and nonuse of safety belts [7]; and high-risk exposure such as nighttime driving and driving with young passengers). A recent evaluation of the GDL system implemented in New Zealand in 1987 indicated that, from 1987 to 1992, the number of serious motor-vehicle-related injuries among 15-19-year-olds declined 7%–23%. Because other types of injuries for this age group also declined during the same period, the reduction could not be attributed entirely to GDL (8). In the United States, states that have implemented components of GDL have reported small

[†]Injury costs were computed based on the maximum injury sustained using the Abbreviated Injury Scale, a standardized system for categorizing injury type and quantifying severity based on immediate threat to life (3).

[§]Cost per injured person or per damaged vehicle.

Many crashes are not reported to police and are missing in state records; however, these crashes constitute a large proportion of crash costs. The number of observed incident cases has been adjusted to account for the percentage of unreported crashes by applying the following national estimates for unreported crashes: minor, 23.7%; moderate, 16.5%; serious, 6.8%; severe, 0.7%; critical, 0; fatal, 0; and property (vehicle) damage only (PDO), 48.0%.

but statistically significant decreases in the number of traffic-related injuries and deaths (9,10).

In March 1996, the Kentucky Legislature passed the Graduate Drivers' Licensing for Youth bill, one of the most comprehensive GDL programs in the United States. Under this new legislation, a young, novice driver begins with a learner's permit and driving restrictions, including a period of supervised driving, a 6-month waiting period before applying for a license, a nighttime driving restriction, and a reduced point threshold for suspension of the license as a result of traffic citations. This program is expected to reduce the number of deaths, injuries, and economic costs associated with MVCs among teenagers in Kentucky.

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Human Rabies — Florida, 1996

On February 8, 1996, a 26-year-old man died in a hospital in Naples, Florida, following progressive neurologic deterioration. Rabies had been clinically suspected on the day he was admitted (December 30, 1995) and was confirmed by CDC on January 10, 1996. This report summarizes the investigation of this case by the Florida Department of Health and Rehabilitative Services, Collier County Public Health Unit, which indicated a dog in Mexico as the probable source of exposure.

The patient was a citizen of Mexico who entered the United States on December 4, 1995. He sought care from a private physician in Immokalee, Florida, on December 29 because of anxiety, difficulty breathing while speaking, left lower-quadrant abdominal pain, left leg pain, lower back pain, and lethargy. Findings on physical examination included injected conjunctivae, a temperature of 96.3 F (35.7 C), pulse of

Human Rabies — Continued

112 beats per minute, and rebound tenderness to the abdomen. On referral from his physician, the patient was transported by ambulance to a regional hospital emergency department (ED). On arrival at the ED, bowel sounds were slightly increased, and a neurologic examination was within normal limits. Constipation was diagnosed, and he was treated with a tap water enema. Following a bowel movement, the patient reported that he felt better, and he was released.

On December 30, the patient was transported by ambulance to the ED after complaining of vague abdominal discomfort and an inability to eat during the preceding 3 days. Despite being hungry and thirsty, he had been unable to swallow. When offered water, he became anxious and hyperventilated.

Physical examination findings were normal except for an oral temperature of 100.3 F (37.9 C) and a rectal temperature of 102.0 F (38.9 C). Abnormal laboratory findings included a white blood cell count of 20,800/mm³ (normal: 5000/mm³–10,000/mm³), blood gas pCO₂ of 25 mm Hg (normal: 35 mm Hg–45 mm Hg), blood glucose of 142 mg/dL (normal: <140 mg/dL), and a total serum bilirubin of 1.8 mg/dL (normal: 0.3 mg/dL–1.0 mg/dL). Chest and pelvic radiographs and a computerized tomography of the brain were normal.

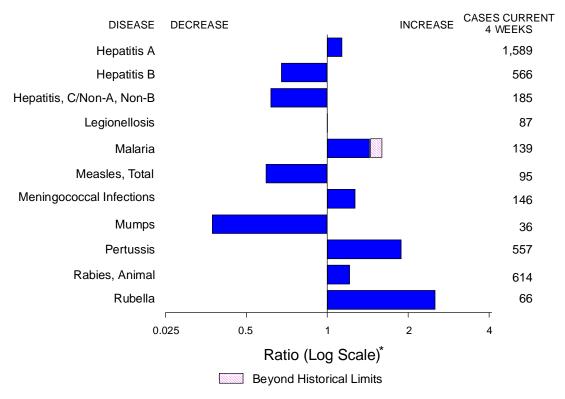
During the following 2–3 hours in the ED, the patient became disoriented and agitated. During a lumbar puncture procedure, he jumped off the stretcher and became violent. After being restrained, he continued to scream and spit. He was intubated, admitted to the intensive-care unit (ICU), and treated with midazolam and haloperidol. Rabies was suspected, and therapies of ceftriaxone, vancomycin, acyclovir, and piperacillin/tazobactam also were initiated. He was administered rabies and tetanus immunoglobulins and tetanus and diphtheria toxoids. Diagnostic tests of blood were negative for arsenic, mercury, lead, mushroom, and other toxins, and of cerebrospinal fluid for herpes simplex virus and bacteria.

On January 3, the patient was unresponsive to stimulation but did exhibit gagging-type movements. On January 4, after midazolam therapy was discontinued, he could only open his eyes and respond to facial tactile stimulation. On January 5, the patient was transferred to another hospital and admitted to the ICU where results of a magnetic resonance imaging of the lumbar spine were normal. On January 6, a full-thickness nuchal skin biopsy and a saliva sample were obtained and sent to CDC for rabies testing and, on January 10, results for both were reported as positive. Nucleotide sequence analysis conducted at CDC on January 11 of the isolate from salivary samples implicated a variant of rabies virus associated with rabid dogs near the Mexico/Guatemala border.

The patient remained on a mechanical ventilator from January 6 to February 8; additional supportive therapy included intravenous fluids and tube feedings. He was stable but unresponsive to all stimuli and exhibited cardiac arrythmias (primarily sinus tachycardia) regularly. He died on February 8. Four hospital personnel who were exposed to the patient's saliva received postexposure prophylaxis.

Although the patient denied a history of animal bites, a friend reported the patient had been bitten by a puppy in Chiapas, Mexico, during October 1995. The puppy was apparently a stray given as a gift by a neighbor and was in the household only for a few days before the bite. The patient killed the puppy at the time of the bite, and it was not tested for rabies. Further investigation by Mexican authorities could not confirm the bite incident but revealed the patient may have sustained a dog bite on his left

FIGURE I. Selected notifiable disease reports, comparison of 4-week totals ending August 17, 1996, with historical data — United States



^{*}Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE I. Summary — cases of selected notifiable diseases, United States, cumulative, week ending August 17, 1996 (33rd Week)

	Cum. 1996		Cum. 1996
Anthrax Brucellosis Cholera Congenital rubella syndrome Cryptosporidiosis* Diphtheria Encephalitis: California* eastern equine* St. Louis* western equine* Hansen Disease Hantavirus pulmonary syndrome*	56 2 1 1,120 1 19 2 - 68 9	HIV infection, pediatric* Plague Poliomyelitis, paralytic* Psittacosis Rabies, human Rocky Mountain spotted fever (RMSF) Streptococcal toxic-shock syndrome* Syphilis, congenital** Tetanus Toxic-shock syndrome Trichinosis Typhoid fever	170 - - 23 - 401 10 157 17 89 14 202

^{-:} no reported cases

^{*}Not notifiable in all states.

^{*}Not notifitable in all states.

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

§ Updated monthly to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention (NCHSTP), last update July 30, 1996.

¶ Three suspected cases of polio with onset in 1996 have been reported to date.

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

TABLE II. Cases of selected notifiable diseases, United States, weeks ending August 17, 1996, and August 19, 1995 (33rd Week)

Reporting Area 1996		AID	OS*	Chlamydia	Esche coli O	richia 157:H7 PHLIS§	Gono	rrhea	Hepa C/N/	atitis A,NB	Legion	ellosis
NEW ENGLAND 1.589 2.206 10.943 193 45 4.637 4.737 73 82 27 18 Maline 29 75 547 16 - 29 58 - 1 1 5 N.H. 50 70 397 24 24 80 72 6 12 1 1 1 1 1 1 1 1	Reporting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Maline 29 75 547 16 - 29 58 - 1 1 5 N.H. 50 77 26 17 1 1 5 N.H. 50 77 24 180 77 24 180 77 25 17 1 1 1 5 N.H. 50 77 24 180 77 25 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UNITED STATES	39,982	45,285	209,685	1,321	643	178,933	246,654	2,161	2,498	503	761
N.H.												
NESS. 740 998 4.202 89 10 1.391 1.702 34 59 15 10 10 10 10 10 10 10 10 10 10 10 10 10												
R.I. 1133 165 1,272 88 - 3255 310 6 4 7 2 Conn. 643 876 4,525 43 - 2,775 2,561 N N N MIDATIANTIC 11,159 12,250 26,917 118 34 19,546 27,768 189 285 110 124 133 2 NY, City 6,277 6,532 12,837 7 - 6,455 11,235 1 1 1 5 3 3 NY, City 6,277 6,532 12,837 7 - 6,455 11,235 1 1 1 5 3 3 NY, City 6,277 6,532 12,837 7 - 6,455 11,235 1 1 1 5 3 3 NY, City 6,277 6,532 12,837 7 - 6,455 11,235 1 1 1 5 3 3 NY, City 6,277 6,276 13,292 11,598 N 17 6,531 8,304 34 26 5 4 79 N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			21	-	13					7		-
MID. ATLANTIC												
Upstate NY 1,378												
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Pa.	N.Y. City	6,277	6,532	12,837	7	-	6,455	11,235	1	1	5	3
EN. CENTRAL 3,225												
Incl.		3,225	3,397	27,011			26,554	49,763				
III.												
Wis. 171 230 5,444 N 19 25,75 4,208 - 9 24 WN. CENTRAL 935 1,070 14,890 284 175 7,399 12,717 84 5 50 Minn. 170 242 - 101 105 U 1,890 1 2 3 3 17 Mo. 469 473 7,900 41 - 5,193 7,343 24 15 6 13 N. Dak. 10 4 2 9 7 5,193 7,343 24 15 6 13 N. Dak. 10 4 4 2 9 7 7 900 41 5 5 122 - 1 2 2 5 Nebr. 65 75 903 25 3 161 71 71 12 Kans. 150 211 2,765 25 10 1,281 1,764 14 9 2 6 S.ATLANTIC 9,735 11,400 34,648 - 1 913 1,363 15 10 7 11 Kans. 150 211 2,765 25 10 1,281 1,764 14 9 2 6 S.ATLANTIC 9,735 11,400 34,648 - 1 913 1,363 15 10 7 11 Cel. 193 219 1,148 - 1 913 1,363 15 159 158 91 121 Del. 638 696 N - 2 2,2893 2,813 - 2 6 6 4 Va. 647 932 6,706 N 19 5,994 6,993 9 9 13 15 W.Va. 73 63 1 N 2 322 470 8 38 1 1 3 N. C. 539 588 - 21 9 1,784 6,993 9 1,783 19 15 4 21 S. C. 500 569 - 6 3 6,962 7,953 19 15 4 21 S. C. 500 569 - 6 3 6,962 7,953 19 15 4 21 E.S. CENTRAL 1311 1,449 18,904 35 29 2 33 3 8 Tenn. 4,575 5,260 15,141 18 - 11,832 12,974 91 37 33 15 E.S. CENTRAL 3,370 4,011 29,443 35 9 2 33 3 8 Tenn. 4,575 5,260 15,141 18 - 11,832 12,974 91 37 33 3 15 E.S. CENTRAL 1311 1,449 8,044 8,364 10,667 4 2 3 3 6 Miss. 237 300 U 4 - 1,607 3,423 71 U 11 10 W.S. CENTRAL 1311 1,449 8,044 66 5 3 4,846 7,564 10 7 12 2 3 3 8 Tenn. 497 561 8,347 16 22 7,268 8,597 30 86 695 16 21 Ark. 170 185 - 11 3 3 2,337 30 34 60 2 4,466 5 3 4,846 7,564 135 107 1 2 2 W.Va. 271 3,051 20,114 13 2 21,158 344 69 30 4 3 3 8 Tenn. 497 561 8,347 16 22 7,268 8,597 30,348 69 30 1 2 2 1 2 1 5 15 La. 923 400 4,466 5 3 4,846 7,564 135 107 1 2 2 W.Yo. 3 3 10 372 - 2 11 13 3 2 211,375 20,034 98 31 10 5 5 La. 472 2,769 8,508 37,563 157 11 3,375 20,034 98 31 10 5 5 W.Va. 114 123 U 5 7 8 8 3 3 8 846 10,667 4 2 3 3 6 W.W. 114 11 123 U 5 7 8 8 3 3 8 846 10,667 4 2 3 3 6 W.Yo. 3 3 10 372 - 2 1 19 36 122 121 3 8 W.Yo. 3 3 10 372 - 2 1 19 36 122 121 3 8 W.Yo. 3 3 10 372 - 2 1 11 3,375 20,034 98 31 10 5 5 W.Yo. 3 3 10 372 - 2 1 11 3,375 20,034 98 31 10 5 5 W.Yo. 3 3 10 372 - 2 1 11 3,375 20,034 98 31 10 5 5 W.Yo. 3 11 1,375 20,034 480 43 33 - 1 1 W.Yo. CENTRAL 131 11 1,49 80 44 13 10 10 13 35	III.	1,397	1,396	2,765	139	16	10,805	12,299	46	61	9	22
MAIN CENTRAL 935												
Nova		935	1,070		284	175		12,717			26	
Mo. 469 473 7,900 411 - 5,193 7,343 24 15 6 13 3 5.0ak 10 4 - 689 9 - 95 122 - 1 2 2 - 1 2 2 - 1 2 2 - 1 2 2 - 1 2 2 - 1 2 2 2 - 1 2 2 2 2 2 2 2 2 2				- 2 631								- 17
S. Dak. 8	Mo.	469	473	7,900	41	-	5,193	7,343		15		13
Nebr									-			3
S. ATLANTIC	Nebr.	65	75	903	25	3	161	713		10	7	
Del. 193 219 1,148 - 1 913 1,363 1 - 8 2												
D.C. 638 696 N 2,893 2,813 6 4 4 Va. 8 647 932 6,706 N 19 5,994 2,813 6 4 4 Va. W. Va. 73 63 1 N. 2 322 470 8 38 1 3 15 W. Va. 73 63 1 N. 2 322 470 8 38 1 3 15 N.C. 539 588 21 9 11,785 15,553 30 38 6 25 S.C. 500 569 7,626 6 3 6,962 7,953 19 15 4 21 Ga. 1,421 1,459 7,626 22 - 12,708 12,626 U 15 3 14 Fla. 4,575 5,260 15,141 18 - 11,832 12,974 91 37 33 15 E.S. CENTRAL 1,311 1,449 18,904 35 29 20,328 25,641 400 710 33 45 Ky. 212 179 4,200 7 4 2,607 2,944 20 23 3 8 8 Tenn. 497 561 8,347 16 22 7,268 8,587 305 665 16 21 Ala. 365 409 5,459 8 3 8,846 10,667 4 2 3 3 6 Miss. 237 300 U 4 - 1,607 3,423 71 U 11 10 W.S. CENTRAL 3,970 4,011 29,443 35 9 21,580 34,294 305 172 15 15 La. 923 602 4,466 5 3 4,846 7,564 135 107 1 2 Okla. 165 173 4,863 6 1 3,022 3,478 69 30 4 3 3 Tex. 2,712 3,051 20,114 13 2 11,375 20,034 98 31 10 5 MOUNTAINN 1,198 1,425 9,876 106 49 4,555 5,770 377 296 28 87 Mont. 22 16 - 13 - 22 11,375 20,034 98 31 10 5 MOUNTAIN 1,198 1,425 9,876 106 49 4,555 5,770 377 296 28 87 Mont. 122 16 - 13 - 2 11,375 20,034 98 31 10 5 MOUNTAIN 1,198 1,425 9,876 106 49 4,555 5,770 377 296 28 87 Mont. 122 16 - 13 - 2 11,375 20,034 98 31 10 5 MOUNTAIN 1,198 1,425 9,876 106 49 4,555 5,770 377 296 28 87 Mont. 124 123 U 5 - 551 657 42 36 1 4 4 Idaho 25 37 898 944 13 - 197 146 21 10 1 4 Idaho 25 37 898 944 13 - 197 146 21 10 1 4 Idaho 17 98 964 13 - 197 146 21 10 2 12 New. 240 299 1,087 10 8 332 N. Mex. 114 123 U 5 - 551 657 42 36 1 4 2 17 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 Vash. 447 659 5,989 34 42 1,307 1,627 37 143 3 17 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 Vash. 447 659 5,989 34 42 1,307 1,627 37 143 3 17 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 Vash. 447 659 5,989 34 42 1,307 1,627 37 143 3 17 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 Vash. 447 659 5,989 34 42 1,307 1,627 37 143 3 17 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 Vash. 447 659 5,989 34 42 1,307					-							
Va. 647 932 6,706 N 19 5,994 6,953 9 9 13 15 W. Va. 73 63 1 N 2 322 470 8 38 1 3 N.C. 539 588 - 21 9 11,785 15,553 30 38 6 25 S.C. 500 569 - 6 3 6,962 7,953 19 15 4 21 Ga. 1,421 1,459 7,626 22 - 12,708 12,626 U 15 4 21 Fla. 4,575 5,260 15,141 18 - 11,832 12,974 91 37 33 15 Ky. 212 179 4,200 7 4 2,607 2,964 20 23 3 8 Ky. 212 179 4,200 7 4 2,607 <					N	6		7,846 2,813	1			
N.C. 539 588 - 21 9 11,785 15,553 30 38 6 25 S.C. 500 569 - 6 3 6,925 19 15 4 21 Ga. 1,421 1,459 7,626 22 - 12,708 12,626 U 15 3 14 Fla. 4,575 5,260 15,141 18 - 11,832 12,974 91 37 33 15 E.S. CENTRAL 1,311 1,449 18,904 35 29 20,232 20 23 3 8 Tenn. 497 561 8,347 16 22 7,268 8,587 305 685 16 21 Ala. 365 409 5,459 8 3 8,846 10,667 4 2 3 6 Miss. 237 300 U 4 - 1,607 3,423	Va.	647	932	6,706			5,994	6,953		9	13	15
S.C. 500 569 - 6 3 6,962 7,953 19 15 4 21 Ga. 1,421 1,459 7,626 22 - 12,708 12,626 U 15 3 14 Fla. 4,575 5,260 15,141 18 - 11,832 12,974 91 37 33 15 E.S. CENTRAL 1,311 1,449 18,904 35 29 20,328 25,641 400 710 33 45 Ky. 212 179 4,200 7 4 2,607 2,964 20 23 3 8 Tenn. 497 561 8,347 16 22 7,268 8,587 305 685 16 21 Ala. 365 409 5,459 8 3 8,846 10,667 4 2 3 6 Miss. 237 300 U 4 - 1,607 3,423 71 U 11 10 W.S. CENTRAL 3,970 4,011 29,443 35 9 21,580 34,294 305 172 15 15 Ark. 170 185 - 11 3 2,337 3,218 3 4 - 5 La. 923 602 4,466 5 3 4,863 6 1 3,022 3,478 69 30 4 3 Tex. 2,712 3,051 20,114 13 2 11,375 20,034 98 31 10 5 MOUNTAIN 1,198 1,425 9,876 106 49 4,555 5,770 377 296 28 87 Mont. 22 16 - 13 - 24 43 12 10 1 4 Idaho 25 37 978 24 5 68 92 91 37 - 22 Wyo. 3 10 372 - 2 19 36 122 121 3 8 Colo. 335 492 - 41 21 1,077 1,837 35 43 7 33 N. Mex. 114 123 U 5 - 551 657 42 36 1 4 Ariz. 342 350 3,934 N 13 2,287 2,106 45 25 12 7 PACIFIC 6,859 8,078 37,053 177 10 8 13 24 13 24 10 1 2 10 New. 240 299 1,087 10 8 332 853 9 14 2 17 PACIFIC 6,859 8,078 37,053 177 17 1 2,342 17,143 276 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 PACIFIC 6,859 8,078 37,053 177 17 1 5 2 1 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 Wash. 447 659 5,989 34 42 13,07 1,627 37 143 3 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 325 1,692 N 13 U 185 380 69 156 - 15 - 14 Oreg. 311 275 U 50 31 344 480 4 33 - 17 Oreg. 311 275 U 50 31 34 4 480 4 33 - 17 Oreg. 311 275				1								3 25
FIB. 4,575 5,260 15,141 18 - 11,832 12,974 91 37 33 15 E.S. CENTRAL 1,311 1,449 18,904 35 29 20,328 25,641 400 710 33 45 Ky. 212 179 4,200 7 4 2,607 2,964 20 23 3 8 Tenn. 497 561 8,347 16 22 7,268 8,587 305 685 16 21 Ala. 365 409 5,459 8 3 8,846 10,667 4 2 3 3 6 Miss. 237 300 U 4 - 1,607 3,423 71 U 11 10 W.S. CENTRAL 3,970 4,011 29,443 35 9 21,580 34,294 305 172 15 15 Ark. 170 185 - 11 3 2,337 3,218 3 4 - 5 Ark. 170 185 - 11 3 2,337 3,218 3 4 - 5 Cokla. 165 173 4,863 6 1 3,022 3,478 69 30 4 3 Tex. 2,712 3,051 20,114 13 2 11,375 20,034 98 31 10 5 MOUNTAIN 1,198 1,425 9,876 106 49 4,555 5,770 377 296 28 87 Mont. 22 16 - 13 - 24 43 12 10 1 4 Halaho 25 37 978 824 5 68 92 91 37 - 2 Wyo. 3 10 372 - 2 19 36 122 121 3 8 Colo. 335 492 - 41 21 1,077 1,837 35 43 7 33 N. Mex. 114 123 U 5 - 551 657 42 36 1 4 Ariz. 342 350 3,934 N 13 2,287 35 43 7 33 N. Mex. 114 123 U 5 - 551 657 42 36 1 4 Ariz. 342 350 3,934 N 13 2,287 2,106 45 25 12 7 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 PACIFIC 6,859 8,078 37,053 157 117 12,342 14,340 48 43 3 - 1 Colo. 311 275 U 50 31 344 48 48 4 3 3 - 1 Colidin 5,964 6,912 26,194 70 36 10,182 14,490 101 355 30 57 Alaska 16 50 715 N N U - 31 177 1 5 5 2 1 P.R. 1,352 1,692 N 13 U 185 380 69 156 - 2 L. Column 4 4 - 168 N - 31 177 1 5 5 2 1 Rem. 1,352 1,692 N 13 U 185 380 69 156 - 2 L. Column 4 4 - 168 N - 31 177 1 5 5 2 1 Rem. 1,352 1,692 N 13 U 185 380 69 156 - 2 Rem. 1,352 1,692 N 13 U 185 380 69 156 - 2 L. Column 4 4 - 168 N - 31 177 1 5 5 2 1 Rem. 1,352 1,692 N 13 U 185 380 69 156 - 2 Rem. 2,000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S.C.	500	569	7.707	6	3	6,962	7,953	19	15	4	21
Ky. 212 179 4,200 7 4 2,607 2,964 20 23 3 8 Tenn. 497 561 8,347 16 22 7,268 8,587 305 685 16 21 Ala. 365 409 5,459 8 3 8,846 10,667 4 2 3 6 Miss. 237 300 U 4 - 1,607 3,423 71 U 11 10 W.S. CENTRAL 3,970 4,011 29,443 35 9 21,580 34,294 305 172 15 15 La. 923 602 4,466 5 3 4,846 7,564 135 107 1 2 La. 923 602 4,466 5 3 4,846 7,564 135 107 1 2 La. 2,712 3,051 20,114 13 2												
Ténn. 497 561 8,347 16 22 7,268 8,587 305 685 16 21 Ala. 365 409 5,459 8 3 8,846 10,667 4 2 3 6 Miss. 237 300 U 4 - 1,607 3,423 71 U 11 10 W.S. CENTRAL 3,970 4,011 29,443 35 9 21,580 34,294 305 172 15 15 Ark. 170 185 - 11 3 2,337 3,218 3 4 - 5 La. 923 602 4,466 5 3 3,4846 7,564 135 107 1 2 Okla. 165 173 4,863 6 1 3,022 3,478 69 30 4 3 TWOUNTAIN 1,198 1,425 9,876 106 49												
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Ark. 170 185 4 - 11 3 2,337 3,218 3 4 - 5 La. 923 602 4,466 5 3 4,846 7,564 135 107 1 2 Okla. 165 173 4,863 6 1 3,022 3,478 69 30 4 3 Tex. 2,712 3,051 20,114 13 2 11,375 20,034 98 31 10 5 MOUNTAIN 1,198 1,425 9,876 106 49 4,555 5,770 377 296 28 87 Mont. 22 16 - 13 - 24 43 12 10 1 4 Idaho 25 37 978 24 5 68 92 91 37 - 2 2 Wyo. 3 10 372 - 2 19 36 122 121 3 8 Colo. 335 492 -												
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Tex. 2,712 3,051 20,114 13 2 11,375 20,034 98 31 10 5 MOUNTAIN 1,198 1,425 9,876 106 49 4,555 5,770 377 296 28 87 Mont. 22 16 - 13 - 24 43 12 10 1 4 Idaho 25 37 978 24 5 68 92 91 37 - 2 Wyo. 3 10 372 - 2 19 36 122 121 3 8 Colo. 335 492 - 41 21 1,077 1,837 35 43 7 33 N.Mex. 114 123 U 5 - 551 657 42 36 1 4 Ariz. 342 350 3,934 N 13 2,287 2,106<												
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Idaho 25 37 978 24 5 68 92 91 37 - 2 Wyo. 3 10 372 - 2 19 36 122 121 3 8 Colo. 335 492 - 41 21 1,077 1,837 35 43 7 33 N. Mex. 114 123 U 5 - 551 657 42 36 1 4 Ariz. 342 350 3,934 N 13 2,287 2,106 45 25 12 7 Utah 117 98 964 13 - 197 146 21 10 2 12 7 Nev. 240 299 1,087 10 8 3322 853 9 14 2 17 PACIFIC 6,859 8,078 37,053 157 117 12,342				9,876		49						
Colo. 335 492 - 41 21 1,077 1,837 35 43 7 33 N. Mex. 114 123 U 5 - 551 657 42 36 1 4 Ariz. 342 350 3,934 N 13 2,287 2,106 45 25 12 7 Utah 117 98 964 13 - 197 146 21 10 2 12 Nev. 240 299 1,087 10 8 332 853 9 14 2 17 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 Wash. 447 659 5,989 34 42 1,307 1,627 37 143 3 17 Oreg. 311 275 U 50 31 344	Idaho		37			5	68	92	91	37	-	2
N. Mex. 114 123 U 5 - 551 657 42 36 1 4 Ariz. 342 350 3,934 N 13 2,287 2,106 45 25 12 7 Utah 117 98 964 13 - 197 146 21 10 2 12 Nev. 240 299 1,087 10 8 332 853 9 14 2 17 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 Wash. 447 659 5,989 34 42 1,307 1,627 37 143 3 17 Oreg. 311 275 U 50 31 344 480 4 33 - C Calif. 5,964 6,912 26,194 70 36 10,182 14,490 101 355 30 57 Alaska 16 50 715 3 2 271 438 2 1 1 1 - Hawaii 121 182 817 N 6 238 378 132 12 2 5 Guam 4 - 168 N - 31 77 1 55 2 1 P.R. 1,352 1,692 N 13 U 185 380 69 156 - C V. Amer. Samoa N U - 18				372	41						3 7	
Utah 117 98 964 13 - 197 146 21 10 2 12 Nev. 240 299 1,087 10 8 332 853 9 14 2 17 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 Wash. 447 659 5,989 34 42 1,307 1,627 37 143 3 17 Oreg. 311 275 U 50 31 344 480 4 33 -	N. Mex.	114	123		5	-	551	657	42	36	1	4
Nev. 240 299 1,087 10 8 332 853 9 14 2 17 PACIFIC 6,859 8,078 37,053 157 117 12,342 17,413 276 544 36 79 Wash. 447 659 5,989 34 42 1,307 1,627 37 143 3 17 Oreg. 311 275 U 50 31 344 480 4 33 -												
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Oreg. 311 275 U 50 31 344 480 4 33 - - - Calif. 5,964 6,912 26,194 70 36 10,182 14,490 101 355 30 57 Alaska 16 50 715 3 2 271 438 2 1 1 - Hawaii 121 182 817 N 6 238 378 132 12 2 5 Guam 4 - 168 N - 31 77 1 5 2 1 P.R. 1,352 1,692 N 13 U 185 380 69 156 - - V.I. 16 27 N N U - - - - - - - - - - - - - - - -							12,342 1.307					79 17
Alaska 16 50 715 3 2 271 438 2 1 1 - Hawaii 121 182 817 N 6 238 378 132 12 2 5 Guam 4 - 168 N - 31 77 1 5 2 1 P.R. 1,352 1,692 N 13 U 185 380 69 156 - - VI. 16 27 N N U - - - - - - Amer. Samoa - - - N U - 18 - - - -	Oreg.	311	275	U	50	31	344	480	4	33	-	-
Hawaii 121 182 817 N 6 238 378 132 12 2 5 Guam 4 - 168 N - 31 77 1 5 2 1 P.R. 1,352 1,692 N 13 U 185 380 69 156 - - VI. 16 27 N N U - - - - - - Amer. Samoa - - - N U - 18 - - - -												5/
P.R. 1,352 1,692 N 13 U 185 380 69 156 VI. 16 27 N N U	Hawaii	121		817	N		238	378	132		2	
V.I. 16 27 N N U Amer. Samoa N U - 18			- 1 692			- U					2	1
The state of the s	V.I.	16	27	N	N	U	-	-	-	-	-	-
			-						-		-	-

^{*}Updated monthly to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention, last update July 30, 1996. National Electronic Telecommunications System for Surveillance. Public Health Laboratory Information System.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending August 17, 1996, and August 19, 1995 (33rd Week)

	Lyr				Mening			hilis			.	
	Dise Cum.	ease Cum.	Mal Cum.	aria Cum.	Dise Cum.	ase Cum.	(Primary & Cum.	Secondary) Cum.	Cum.	culosis Cum.	Rabies Cum.	, Animal Cum.
Reporting Area	1996	1995	1996	1995	1996	1995	1996	1995	1996	1995	1996	1995
UNITED STATES	6,028	6,624	834	742	2,266	2,101	6,869	10,366	11,669	12,875	3,741	5,000
NEW ENGLAND Maine	2,157 17	1,304 14	34 6	30 3	96 12	98 6	109	241 2	248 4	313 11	446 61	1,017 21
N.H. Vt.	21 9	19 7	1 2	1 1	3	16 6	1	1	8 1	9 2	44 108	113 125
Mass. R.I.	135 272	77 208	12 5	10 3	36 10	35 4	50 1	41 2	116 24	175 28	67 31	322 201
Conn.	1,703	979	8	12	32	31	57	195	95	88	135	235
MID. ATLANTIC Upstate N.Y.	3,271 2,180	4,351 2,153	186 53	196 39	198 59	273 74	278 47	540 54	2,090 253	2,730 302	448 241	1,299 762
N.Y. City	184	297	95 28	98 45	30	38	88 77	233	1,113	1,582	84	239
N.J. Pa.	211 696	1,190 711	10	14	53 56	68 93	66	114 139	433 291	462 384	123	239 298
E.N. CENTRAL Ohio	43 29	273 21	87 9	106 6	305 117	301 87	866 313	1,787 570	1,251 194	1,247 178	45 8	56 5
Ind.	13	11	9	13	48 79	43	146	209	115	112	1 9	10
III. Mich.	1 . .	13 5	35 24	57 13	31	80 55	289 U	693 179	699 175	640 264	16	9 22
Wis. W.N. CENTRAL	U 85	223 68	10 28	17 18	30 184	36 124	118 225	136 510	68 305	53 384	11 356	10 245
Minn.	18	5 7	9	3	23	21 23	27	29 31	70 43	95	18	11
lowa Mo.	16 22	35	2	2 6	78	46	13 162	431	131	44 144	173 16	88 24
N. Dak. S. Dak.	-	-	1 -	1 1	3 9	1 5	-	-	3 14	3 15	46 81	22 68
Nebr. Kans.	2 27	4 17	3 5	3 2	16 19	11 17	6 17	10 9	13 31	17 66	3 19	4 28
S. ATLANTIC	295	434	193	144	497	343	2,403	2,609	2,161	2,264	1,739	1,355
Del. Md.	36 147	31 291	3 45	1 40	2 49	5 29	23 398	8 278	20 193	37 253	45 408	72 273
D.C. Va.	2 27	2 33	7 25	11 32	9 36	4 45	99 283	74 404	86 178	67 146	8 367	10 259
W. Va. N.C.	9 49	18 38	3 17	1 13	11 59	8 58	1 652	8 733	41 309	52 271	69 442	78 316
S.C. Ga.	3 1	9	9 16	16	44 114	44 66	265 428	380 489	230 417	212 417	57 197	96 182
Fla.	21	3	68	30	173	84	254	235	687	809	146	69
E.S. CENTRAL Ky.	44 9	42 10	20 3	12 1	128 20	138 36	1,519 87	2,094 117	872 155	874 191	135 32	188 20
Tenn. Ala.	16 6	18	10	4 5	16 52	48 29	541 381	540 409	285 280	291 255	45 56	66 97
Miss.	13	8	4	2	40	25	510	1,028	152	137	2	5
W.S. CENTRAL Ark.	73 20	74 6	21	17 2	255 28	253 26	1,068 113	2,057 317	1,497 121	1,692 146	261 14	496 33
La. Okla.	1 7	3 30	3	- 2 1	46 23	39 26	351 127	668 122	59 121	158 129	13 17	22 27
Tex.	45	35	18	12	158	162	477	950	1,196	1,259	Ü	414
MOUNTAIN Mont.	6	6	35 5	41 3	127 4	155 2	92 -	151 4	383 14	411 10	87 15	91 30
Idaho Wyo.	2	3	3	1	19 3	7 6	4 2	-	6 3	8 1	20	- 21
Colo.	-	-	16	18	25	40	23	86 5	53	38	25 3	-
N. Mex. Ariz.	1	1 -	1	4 7	21 33	29 45	1 56	24	52 158	56 206	18	3 27
Utah Nev.	2 1	2	4 2	5 3	12 10	13 13	2 4	4 28	39 58	19 73	3 3	7 3
PACIFIC Wash	54	72	230	178	476	416	309	377 10	2,862	2,960	224	253
Wash. Oreg.	5 9	4 11	14 15	14 11	69 82	69 74	10	10 18	149 58	173 80	-	6
Calif. Alaska	39 -	57 -	191 3	142 1	317 5	263 6	294 -	348 1	2,508 43	2,545 48	216 8	239 7
Hawaii	1	-	7	10	3	4	1	-	104	114	-	-
Guam P.R.	-	-	-	1 1	1 4	2 18	3 91	8 177	35 63	73 120	31	33
V.I. Amer. Samoa	-	-	-	2	-	-	-	-	-	3	-	-
C.N.M.I.	-	-	-	1	-	-	1	1	-	24	-	-

N: Not notifiable

U: Unavailable

TABLE III. Cases of selected notifiable diseases preventable by vaccination, United States, weeks ending August 17, 1996, and August 19, 1995 (33rd Week)

	enzae,		Hepatitis (vir	al), by type	7 tugue		Measles	(Rubeola	a)	
	inva: Cum.	sive Cum.	Cum.	A Cum.	Cum.	Cum.	Ind	igenous Cum.	lmp	cum.
Reporting Area	1996*	1995	1996	1995	1996	1995	1996	1996	1996	1996
UNITED STATES	771	761	16,845	17,809	5,934	6,320	8	375	1	30
NEW ENGLAND Maine	20	31 3	207 13	169 17	111 2	153 6	-	8	-	4
N.H.	8	7	10	8	9	16	-	-	-	-
Vt. Mass.	1 10	2 10	4 109	4 71	10 36	2 56	-	1 6	-	1 3
R.I. Conn.	1	3	9 62	20 49	7 47	8 65	-	1	-	-
MID. ATLANTIC	120	108	997	1,103	878	894	1	20	-	5
Upstate N.Y. N.Y. City	37 22	27 26	273 384	262 538	232 407	239 288	-	9	-	3
N.J.	36	13	205	150	155	227	U	-	Ū	-
Pa.	25	42	135	153	84	140	1	11	-	2
E.N. CENTRAL Ohio	119 72	133 68	1,410 547	2,108 1,193	626 86	724 79	-	6 2	-	3
Ind. III.	7 28	17 30	209 280	108 432	105 149	141 192	-	2	-	- 1
Mich.	7	16	273	240	246	262	-	1	-	2
Wis.	5	2	101	135	40	50	-	1	-	-
W.N. CENTRAL Minn.	33 20	55 28	1,371 77	1,236 126	270 35	430 36	-	17 14	-	2 2
Iowa Mo.	5 5	3 17	241 657	61 879	61 130	33 310	-	2	-	-
N. Dak.	-	-	28	19	-	4	-	-	-	-
S. Dak. Nebr.	1 1	1 3	39 148	36 31	2 18	2 20	-	-	-	-
Kans.	1	3	181	84	24	25	-	1	-	-
S. ATLANTIC Del.	181 2	151	805 10	716 8	939 6	829 6	-	6 1	1	6
Md.	43	53	131	134	196	165	-	2	-	1
D.C. Va.	5 6	20	20 99	16 122	27 91	14 67	-	-	-	2
W. Va.	6 20	6 24	12	12 74	16	34 193	-	3	-	- 1
N.C. S.C.	4	1	92 40	31	231 50	33	-	- -	-	-
Ga. Fla.	73 22	43 4	86 315	50 269	8 314	62 255	-	-	1	2
E.S. CENTRAL	21	8	944	1,046	516	576	_	-	-	-
Ky. Tenn.	4 8	2	20 639	33 853	36 293	51 451	-	-	-	-
Ala.	8	5	130	57	41	74	-	-	-	-
Miss.	1	1	155	103	146	750	-	-	-	-
W.S. CENTRAL Ark.	31	39 5	3,523 319	2,209 291	802 51	758 37	1	24	-	2
La. Okla.	3 25	1 20	106 1,459	66 559	77 59	125 100	-	-	-	-
Tex.	3	13	1,639	1,293	615	496	1	24	-	2
MOUNTAIN Mont.	78	85	2,690 81	2,694 71	685 6	547 19	3	148	-	5
Idaho	1	2 5	149	232	67	66	-	1	-	-
Wyo. Colo.	35 11	5 10	26 285	83 336	29 85	17 80	-	4	-	3
N. Mex.	9 9	12	272	554	227	200	3	13	-	-
Ariz. Utah	7	21 9	1,099 619	782 496	171 69	85 46	-	8 117	-	2
Nev.	6	26	159	140	31	34	-	5	-	-
PACIFIC Wash.	168 2	151 8	4,898 323	6,528 511	1,107 60	1,409 119	3	146 45	-	3
Oreg.	22	20	573	1,676	42	86	- 2	4	-	- 2
Calif. Alaska	141 1	119 -	3,921 31	4,201 27	988 9	1,182 10	3	33 63	-	2
Hawaii	2	4	50	113	8	12	-	1	-	1
Guam P.R.	- 1	3	2 62	6 61	239	4 398	U -	- 7	U -	-
V.I. Amer. Samoa	-	-	-	6		12	U U	-	U U	-
C.N.M.I.	10	11	1	21	5	10	Ü	-	Ü	-

N: Not notifiable

U: Unavailable

-: no reported cases

 $^{^{\}star}$ Of 179 cases among children aged <5 years, serotype was reported for 38 and of those, 10 were type b. † For imported measles, cases include only those resulting from importation from other countries.

TABLE III. (Cont'd.) Cases of selected notifiable diseases preventable by vaccination, United States, weeks ending August 17, 1996, and August 19, 1995 (33rd Week)

	Measles (Rub		9 7 10	Mump			Pertussi			Rubella		
Reporting Area	Cum. 1996	Cum. 1995	1996	Cum. 1996	Cum. 1995	1996	Cum. 1996	Cum. 1995	1996	Cum. 1996	Cum. 1995	
UNITED STATES	405	261	11	413	565	149	2,444	2,284	2	188	103	
NEW ENGLAND	12	8	-	_	10	18	490	313	-	24	44	
Maine N.H.	-	-	-	-	4 1	- 4	18 44	19 23	-	-	- 1	
Vt.	2	-	-	-	-	2	15	45	-	2	-	
Mass. R.I.	9	2 5	-	-	2	12	408	212 1	-	20	7	
Conn.	1	1	-	-	3	-	5	13	-	2	36	
MID. ATLANTIC	25	12	-	57	84	19	189	174	-	8	12	
Upstate N.Y. N.Y. City	- 12	1 5	-	18 13	21 9	11 -	100 22	82 27	-	4 2	3 7	
N.J. Pa.	- 13	6	U	2 24	13 41	U 8	5 62	13 52	U	2	2	
E.N. CENTRAL	9	14	1	75	95	25	250	273	-	3	3	
Ohio	2	1	1	33	29	14	124	82	-	-	-	
Ind. III.	3	2	-	5 18	7 28	2 9	21 78	18 47	-	1	-	
Mich.	3	5	-	18	31	-	22	49	-	2	3	
Wis.	1	6	-	1	-	-	5	77	-	-	-	
W.N. CENTRAL Minn.	19 16	2	-	9 3	33 2	9 9	136 98	126 42	-	1 -	-	
lowa	-	-	-	1	8	-	4	6	-	1	-	
Mo. N. Dak.	2	1 -	-	2 2	19 -	-	20 1	37 6	-	-	-	
S. Dak. Nebr.	-	-	-	-	4	-	3 6	8 8	-	-	-	
Kans.	1	1	-	1	-	-	4	19	-	-	-	
S. ATLANTIC	12	11	6	71	85	48	327	177	2	91	8	
Del. Md.	1 3	- 1	- 1	20	- 27	- 15	11 121	9 24	-	-	- 1	
D.C.	-	-	-	-	-	-	-	4	-	1	-	
Va. W. Va.	2	-	-	10 -	16 -	-	26 2	10	-	2	-	
N.C.	4	-	3	17	16	6	55	81	2	77	1	
S.C. Ga.	2	2	-	5 2	7 6	1 3	23 16	16 13	-	1	-	
Fla.	-	8	2	17	13	23	73	20	-	10	6	
E.S. CENTRAL Ky.	-	-	1	19	7	1	63 26	193 13	-	2	1	
Tenn.	-	-	-	1	-	-	17	148	-	-	1	
Ala. Miss.	-	-	- 1	3 15	4 3	- 1	12 8	31 1	N	2 N	- N	
W.S. CENTRAL	26	20	2	18	38	4	63	173	-	2	7	
Ark.		2	-	-	5	-	4	28	-	-	-	
La. Okla.	-	18 -	-	11 -	8	-	6 8	11 17	-	1	-	
Tex.	26	-	2	7	25	4	45	117	-	1	7	
MOUNTAIN Mont.	153	68	-	22	25 1	7	254 12	427 3	-	6	4	
ldaho	1	-	-	-	2	6	90	85	-	2	-	
Wyo. Colo.	- 7	26	-	2	-	-	3 64	1 64	-	2	-	
N. Mex.	13	31	N	N	N	-	37	66	-	-	-	
Ariz. Utah	8 119	10	-	1 2	2 11	1 -	15 11	146 18	-	1	3 1	
Nev.	5	1	-	17	9	-	22	44	-	1	-	
PACIFIC Wash.	149 45	126 19	1	142 18	188 10	18 2	672 237	428 99	-	51 1	24 1	
Oreg.	4	1	-	-	-	-	29	28	-	ί	-	
Calif. Alaska	35 63	104 -	1	102 2	160 12	15 -	389 2	263	-	46	18	
Hawaii	2	2	-	20	6	1	15	38	-	3	5	
Guam		-	U	5	3	U	1	2	U	-	1	
P.R. V.I.	7	3	Ū	1	2 3	- U	1	1	- U	-	-	
Amer. Samoa	-	-	U	-	-	U	-	-	U	-	-	
C.N.M.I.	-	-	U	-	-	U	-	-	U	-	-	

N: Not notifiable

TABLE IV. Deaths in 121 U.S. cities,* week ending August 17, 1996 (33rd Week)

	All Causes, By Age (Years)						P&I [†]		,	All Cau	ises, 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. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn.	28 55 5 43 26	347 97 15 16 28 U 10 11 21 18 45 4 27	90 41 7 1 5 U 2 3 4 3 6	32 16 2 - 3 U - 1 2 2 1 3 2	14 6 U 4 3 1	11 6 1 - - U - 1 2	32 7 1 3 2 U - 5 1	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del. E.S. CENTRAL	1,257 163 188 84 122 110 49 83 37 58 157 190 16	764 93 107 63 81 65 34 53 22 41 97 100 8	274 28 38 16 19 27 10 17 8 9 48 49 5	161 29 36 3 19 14 1 8 6 3 10 29 3	38 7 6 2 2 4 1 1 1 8	20 6 1 1 2 1 4 1 4 1 4	67 5 14 - 1 3 9 5 4 21 5
Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§	2,380 49 13 81 35 14 41	34 1,587 32 11 54 22 6 30	470 9 1 16 6 4	222 1 1 8 1 2	57 5 - 2 4 -	40 2 1 2 2	108 2 - 3 1	Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	107	62 36 51 50 86 68 31 75	27 8 15 5 26 17 14 28	9 2 5 1 10 5 3	4 - 4 - 5 3 2 4	4 1 1 - - 4 - 2	3 5 4 5 11
Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa. Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa. Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	34	24 745 30 16 346 53 75 19 16 55 15	7 233 16 11 91 10 2 22 5 2 8 9 3 6	2 117 13 9 42 5 - 8 1 - 5 5	24 1 14 3 - 2 - 1	1 16 3 1 7 3 - 1 - 1	3 35 7 26 3 1 9 2	W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	1,403 77 38	852 43 24 35 101 45 65 188 55 64 127 37	300 16 8 9 48 15 12 94 16 17 42 12	168 13 4 3 23 7 10 55 8 17 17	45 3 2 10 1 2 12 2 8 5	38 2 6 5 2 2 7 8	61 2 2 1 2 4 4 26 1
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Gary, Ind. Grand Rapids, Mict Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL	1,906 47 34 415 108 126 177 132 208 37 48 U U 115 37 41 48 117 72	1,289 36 26 259 72 82 125 90 124 26 42 U 0 65 524 32 40 91 56	355 3 7 78 26 27 28 26 46 4 5 18 U 32 9 6 4 18 10	150 5 - 47 6 8 14 9 20 2 2 U 2 9 U 14 1 1 2 1 4 4 4 4	53 2 21 2 5 2 10 - - - - - - - - - - - - - - - - - -	57 11 847 55 81 - U16 U32 - 131 16	106 3 27 10 2 11 3 5 2 6 0 6 0 6 1 2 7 13 2 7 10 6 10 10 10 10 10 10 10 10 10 10 10 10 10	MOUNTAIN Albuquerque, N.M. Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif.	. 38 104 185 25 25 152 31 97 115 1,599 17 66 29 70 82 468 29 126 U 145 15	569 71 19 66 121 16 104 24 64 84 1,043 13 422 25 56 60 280 17 81 U 82 77	167 11 10 22 56 3 22 3 19 21 306 3 10 2 6 12 100 6 26 U	70 9 5 14 6 31 5 12 8 8 15 1 1 1 5 1 3 7 4 9 5 14 U 15 15 16 16 17 17 18 18 19 19 19 19 19 19 19 19 19 19	22 2 2 1 8 2 4 1 58 5 3 1 24 1 3 0 6 4	13 1 2 2 3 - 2 1 41 2 2 15 - 2 U 3 3 3	48 3 2 6 6 3 1 5 6 5 1 1 1 1 6 0 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	73 29 26 114 31	52 23 17 68 23 120 51 70 40 54	13 5 4 26 6	1 1 1 6 2 13 6 4 2 7	1 3 3 6 2 4 2 4	1 1 2 - 3 1 3 2 2	9 2 1 9 10 5 2 6	San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	164 28 127 45 71 11,320 [¶]	118 19 89 36 48 7,428	29 6 23 5 14 2,235	8 3 9 1 7 1,046	6 3 1 1 334	3 3 2 1 248	11 3 5 3 5 616

U: Unavailable -: no reported cases

*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

*Pneumonia and influenza.

*Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

*Total includes unknown ages.

Human Rabies — Continued

hand in January 1995. Because canine rabies is endemic in this region of Mexico, a dog bite was considered the most likely source of exposure.

Reported by: CS Forszpaniak, MD, KS Harbourne, MD, JF Nolan, MD, J Puerto, MD, AM De La Rivaherrerra, MD, M Rubin, MD, K Taylor, MD, CW Liebert, MD, M Neumann, PhD, Naples Community Hospital, Naples; M Crowley, MS, M Laliberte, M Burton, J Polkowski, MD, Collier County Public Health Unit; G Hlady, MD, R Hopkins, MD, State Epidemiologist, Florida Dept of Health and Rehabilitative Svcs. Pan American Health Organization, Washington, DC. Director General of Preventive Medicine, Secretary of Health, Mexico. Viral and Rickettsial Zoonoses Br, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Div of Applied Public Health Training (proposed), Epidemiology Program Office, CDC.

Editorial Note: This report describes the 29th case of human rabies reported in the United States, and the second from Florida, since 1980. Eleven (38%) of the 29 cases, including this case, are presumed to have been acquired outside the United States; all were associated with exposure to dogs.

In this case, the length of time between initial presentation and death (42 days) was substantially longer than other human rabies cases since 1980 (mean=16.2 days, standard deviation [SD]=6.8). It is unclear whether the prolonged clinical course was influenced by supportive therapies or exposure factors. Antiviral and immunoglobulin therapies have not proved efficacious in treating clinical rabies (1,2), and data do not suggest longer clinical courses in canine-associated infections.

The epidemiologic investigation of this case included the extensive use of bilingual public health investigators and medical personnel and coordination between local, state, and federal authorities. Information regarding the probable exposure history was elicited from friends and health authorities in Mexico and the Pan American Health Organization.

The number of persons receiving postexposure prophylaxis as a result of this case was substantially lower than for most other cases since 1980 (mean=64.6 treatments per case, SD=40.8), probably reflecting the patient's small number of social contacts and family members in the United States, the early suspicion of rabies as a diagnosis, and the prompt initiation and maintenance of protective barrier techniques during presentation and hospitalization.

Canine rabies remains a prevalent public health threat in many developing nations, and most human cases resulting from exposures outside the United States are associated with dog variant rabies viruses. Persons who are bitten or scratched by any animal should thoroughly wash all wounds with soap and water and seek immediate medical attention to evaluate the need for postexposure prophylaxis.

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