

- 593 Human Granulocytic Ehrlichiosis New York, 1995
- 595 Injuries Associated with Self-Unloading Forage Wagons — New York, 1991–1994
- 603 Update: HIV-2 Infection Among Blood and Plasma Donors — United States, June 1992– June 1995

MORBIDITY AND MORTALITY WEEKLY REPORT

607 Monthly Immunization Table

Human Granulocytic Ehrlichiosis — New York, 1995

тм

Since 1986, two human tickborne diseases caused by *Ehrlichia* spp. have been recognized in the United States: human monocytic ehrlichiosis (HME), caused by *E. chaffeensis*, and human granulocytic ehrlichiosis (HGE), caused by an agent closely related to *E. equi* (1,2). In June 1995, the Westchester County (New York) Department of Health (WCDOH) received reports from physicians who were treating patients for suspected HGE. In response, the WCDOH sent information to all primary-care physicians in Westchester County describing the clinical and laboratory features of ehrlichiosis (fever, myalgia, headache, leukopenia, and thrombocytopenia) and requested that they voluntarily report suspected cases of ehrlichiosis. This report summarizes an investigation by the New York State Department of Health (NYSDOH) and the WCDOH of suspected ehrlichiosis cases and the clinical characteristics of confirmed and probable cases.

Hospitals and large group practices in Westchester County were asked to report current and past suspected cases, and the NYSDOH laboratory initiated free diagnostic testing for ehrlichiosis for New York state residents. Potential cases of ehrlichiosis were identified through reports submitted by health-care providers to their county health departments and from a review of NYSDOH laboratory records of serum specimens that were submitted for diagnostic testing for ehrlichiosis since 1994. Serum specimens from potential cases were tested for antibodies to *E. equi* and/or *E. chaffeensis*, and/or the presence of DNA of the HGE agent by polymerase chain reaction (PCR) assay. A confirmed case of HGE was defined as either a fourfold change in antibody titer to *E. equi* or identification of DNA sequences of the HGE agent by PCR assay. A probable case of HGE was defined as a single antibody titer \geq 64 by immunofluorescent assay to *E. equi* or the identification of organisms (morulae) in granulocytes on a peripheral blood smear from a patient with an acute illness characterized by fever, headache, myalgia, and/or malaise.

As of August 15, 1995, medical records and/or clinical information had been reviewed for 68 patients with suspected ehrlichiosis: 50 had onset in 1995; 17, in 1994; and one, in 1992. Serum specimens from 30 patients had been tested for antibodies to *E. equi* and/or *E. chaffeensis*; 20 patients had acute serum specimens tested by PCR analysis.

Illnesses in 29 patients met the case definition of either confirmed (23 patients) or probable (six patients) HGE, 20 from 1995 and nine from 1994; other potential cases

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES / Public Health Service

Human Granulocytic Ehrlichiosis — Continued

remain under investigation. Eighteen (62%) case-patients had onset of symptoms in June or July 1995. Twenty-five patients lived in Westchester County, two lived north of Westchester in adjacent Putnam County, and two lived on Long Island in Nassau and Suffolk counties. The mean age of patients with confirmed or probable HGE was 49 years (range: 21–90 years), and 15 (52%) were male. Fourteen (48%) of the 29 case-patients reported a tick bite \leq 21 days before onset of illness. Fever >101.0 F (>38.3 C) was noted in 27 patients. Reported symptoms included headache (22 patients), arthralgia (13), malaise (11), and myalgia (11). The lowest reported platelet count for 21 patients averaged 106,000 mm³ (range: 28,000–275,000 mm³; normal: 150,000–350,000 mm³), and the lowest reported white blood cell count for 26 patients had mild serum elevations of liver enzymes aspartase aminotransferase, alanine aminotransferase, and lactate dehydrogenase. Thirteen patients were hospitalized, and none died. Twenty-two patients received doxycycline during their acute illness.

Of the 23 confirmed cases, 11 had a fourfold rise in antibody titer to *E. equi* using a polyvalent antihuman conjugate, and 15 had HGE 16S ribosomal DNA detected from acute serum specimens (a positive PCR test). One confirmed case also had characteristic morulae observed in granulocytes on a peripheral blood smear. The six probable cases had single titers \geq 64 to *E. equi*. Five case-patients had serologic evidence of *E. chaffeensis* infection (titer \geq 64) but all had at least a 10-fold greater titer to *E. equi*.

Reported by: G Wormser, MD, D McKenna, M Aguero-Rosenfeld, MD, H Horowitz, MD, J Munoz, MD, J Nowakowski, MD, G Gerina, MD, Westchester County Medical Center, Valhalla; P Welch, MD, Mt. Kisco; H Moorjani, MD, T Rush, MD, Tarrytown; G Jacquette, MD, A Stankey, R Falco, PhD, M Rapoport, MD, Westchester County Dept of Health, Hawthorne; D Ackman, MD, J Talarico, DO, D White, PhD, L Friedlander, R Gallo, G Brady, M Mauer, DO, S Wong, PhD, R Duncan, L Kingsley, R Taylor, G Birkhead, MD, D Morse, MD, State Epidemiologist, New York State Dept of Health. JS Dumler, MD, Univ of Maryland Medical Center, Baltimore, Maryland. Viral and Rickettsial Zoonoses Br, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: HGE was first described in 1994 among patients in Minnesota and Wisconsin. In addition to these cases, reports have suggested that acquisition of HGE may have occurred in California, Florida, Maryland, Massachusetts, and New York (4,5). Approximately 400 cases of HME have been confirmed in 30 states, primarily in the southeastern and south central regions (3). *E. chaffeensis* has most commonly been identified in the Lone Star tick (*Amblyomma americanum*), while HGE has been identified in the deer (*Ixodes scapularis*) and dog (*Dermacentor variabilis*) ticks (2).

Physicians evaluating patients with an acute febrile illness should consider ehrlichiosis in the differential diagnosis, particularly if the patient is leukopenic or thrombocytopenic, and should solicit a history of known or possible exposure to ticks. Empiric therapy with doxycycline antibiotics should be considered if the diagnosis of ehrlichiosis is suspected because delayed treatment while awaiting laboratory confirmation may increase the risk for adverse outcomes. The diagnosis can be confirmed through antibody assays and/or PCR. The agent that causes HGE has not been identified in cell culture, but tests for antibody to *E. equi* have been used to confirm the diagnosis. The sensitivity, specificity, and cross-reactivity of serologic assays for the two species are not well established. Because the geographic distribution of HME and HGE overlap, physicians should consider obtaining serologic tests for both *E. equi*

Human Granulocytic Ehrlichiosis — Continued

and *E. chaffeensis*. PCR is a useful research tool but is not widely available for diagnostic purposes.

The patients described in this report live in areas where *I. scapularis* is common. *I. scapularis* collected in Westchester and Suffolk counties have been found positive for the HGE agent by PCR assay (CDC, unpublished data, 1995). The geographic extent of HGE in New York is not known. Persons spending time outdoors in tick-infested areas should take precautions against tickborne diseases, including wearing lightcolored clothing, using insect repellent, and checking thoroughly for ticks after being outdoors. The NYSDOH has asked physicians in New York to report suspected cases to their local health departments. In addition, the NYSDOH is working with local health departments to provide information to the public and medical community and is offering serologic testing for HME and HGE through the NYSDOH laboratory. CDC provides serologic and PCR testing for HME and HGE of specimens sent through state health departments.

References

- 1. Dawson JE, Anderson BE, Fishbein DB, et al. Isolation and characterization of and *Ehrlichia* sp. from a patient diagnosed with human ehrlichiosis. J Clin Microbiol 1991;29:2741–5.
- 2. Bakken JS, Dumler JS, Chen SM, Eckman MR, Van Etta LL, Walker DH. Human granulocytic ehrlichiosis in the upper midwest United States. JAMA 1994;272:212–8.
- 3. Fishbein DB, Dawson JE, Robinson LE. Human ehrlichiosis in the United States, 1985–1990. Ann Intern Med 1994;120:736–43.
- 4. Dumler JS, Bakken JS. Ehrlichial diseases of humans: emerging tick-borne infections. Clin Infect Dis 1995;20:1102–10.
- 5. Telford SR, Lepore TJ, Snow P, Warner CK, Dawson JE. Human granulocytic ehrlichiosis in Massachusetts. Ann Intern Med 1995;123:277–9.

Injuries Associated with Self-Unloading Forage Wagons — New York, 1991–1994

In New York, an estimated 3600 injuries occur each year to farmers operating farm machines (1). In October 1993, the Occupational Health Nurses in Agricultural Communities (OHNAC)* program in the New York State Department of Health received a report of a man who sustained severe injuries when he became entangled in the power take-off (PTO) driveline to a self-unloading forage wagon[†]. Subsequent investigation by OHNAC identified four additional similar incidents in New York that occurred during September 1991–October 1994, including one fatality and one injury to a 9-year-old girl working on a family farm. This report summarizes the results of the investigation of these forage-wagon–related injuries and presents recommendations to reduce the risk for such injuries.

On October 1, 1993, a 66-year-old farmer was using a self-unloading forage wagon to unload chopped corn into a blower for transfer into a silo. To unload the corn, he

^{*} OHNAC is a national surveillance program conducted by CDC's National Institute for Occupational Safety and Health that has placed public health nurses in rural communities and hospitals in 10 states (California, Georgia, Iowa, Kentucky, Maine, Minnesota, New York, North Carolina, North Dakota, and Ohio) to conduct surveillance for agriculture-related illnesses and injuries that occur among farmers and their family members. These surveillance data are used to assist in reducing the risk for occupational illness and injury in agricultural populations.

[†]A forage wagon is used to transport and unload feed into a storage (e.g., silo) or feed area.

Forage-Wagon–Related Injuries — Continued

used a tractor to pull the loaded forage wagon next to the blower (which was attached to a second tractor). To reach the speed-control lever, he stepped over the rotating PTO driveline that connected his tractor to the wagon and supplied its power. As he stepped, his pants became entangled around the unprotected rotating driveline. A nearby worker witnessed the incident and turned off the driveline. The farmer's injuries included amputation of the genitalia and deep tissue damage to the buttocks, requiring extensive grafting. He was hospitalized for 2 weeks and unable to work for 1 month.

On investigation by OHNAC, with assistance from the Cooperative Extension Service, four other incidents were identified since 1991 involving forage wagons with unprotected drivelines. In September 1991, a 33-year-old farmer sustained multiple fractures of the right leg with amputation of the right foot when his shirt blew into a rotating driveline of a forage wagon while he was working between two drivelines on a windy day. In October 1992, a 41-year-old farm operator sustained avulsion of the entire scrotal area when his pants became entangled while he was stepping over the unprotected PTO driveline. In November 1992, a 9-year-old girl sustained bilateral above-the-knee amputations when her jacket became entangled while she was reaching over the unprotected rotating driveline to operate the speed control of the forage wagon she was unloading. Finally, in an unwitnessed incident in October 1994, a 19-year-old male farmer sustained fatal internal injuries after apparently stepping too close to the driveline of a forage wagon while unloading chopped corn.

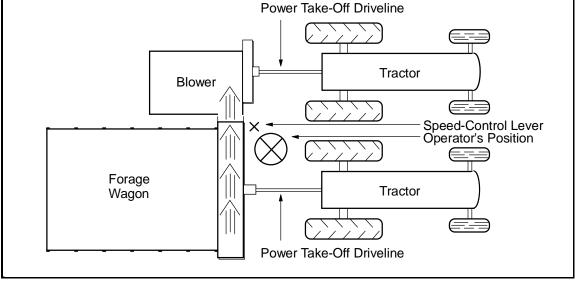
Reported by: S Roerig, J Melius, MD, J Pollock, MSP, M London, MS, G Casey, New York State Dept of Health. Div of Surveillance, Hazard Evaluations, and Field Studies, National Institute for Occupational Safety and Health, CDC.

Editorial Note: In the United States, farm machinery is a leading source of traumatic injuries to farmers, accounting for an estimated 34,000 lost-time work injuries to farmers nationally in 1993 (2). Mechanical devices are associated with approximately 30% of the work-related injuries on farms (2). Forage wagons are used most often on farms that raise large animals and grow their own feed grain. The fatal and severe nonfatal injuries described in this report were caused by a combination of factors. To unload feed grain, the forage wagon and silo blower must be in close proximity, which requires that the two tractors that power these machines also be in close proximity (Figure 1). The speed-control lever for the wagon is often located on the discharge side near the silo blower (i.e., between the two pieces of equipment). Many older tractors are small enough that, when the forage wagon and blower are thus positioned for proper operation, sufficient space remains between the adjacent rear tires of the two tractors to allow the operator to dismount from either tractor seat and walk between the two tractors directly to the forage wagon speed control without crossing over a revolving PTO driveline. However, as both silos and self-unloading forage wagons have increased in capacity, both the size and horsepower of the associated tractors have increased concomitantly. When these larger tractors are used, their rear wheels abut, blocking access between the tractors and requiring the operator to cross over a revolving driveline to operate the forage wagon.

Since the 1930s, PTO drivelines have been manufactured with shields. However, shields are often damaged or removed during operation or maintenance of the farm equipment. Of the estimated 29,000 self-unloading wagons in use on New York farms, 3000–5000 are believed to lack shields to protect workers adequately from a revolv-

Forage-Wagon–Related Injuries — Continued





*Equipment used to transport and unload feed into a storage (e.g., silo) or feed area.

ing PTO driveline (J. Pollock, Cornell University, personal communication, 1995). Entanglement in PTO drivelines, including entanglement in those equipped with intact U-shaped shields that leave one side (generally the underside) unguarded, previously has been recognized as a hazard in the agricultural industry (3-6).

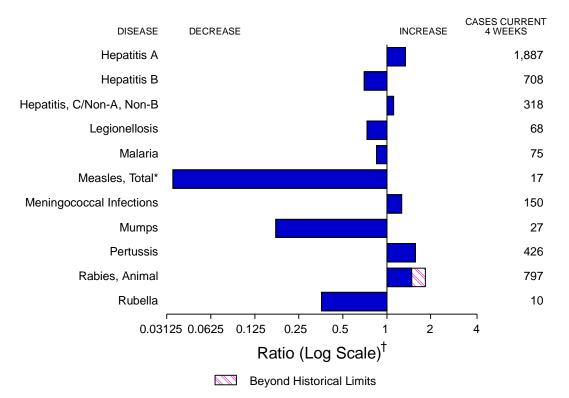
Drivelines should be equipped with proper functioning guards in any work situation,[§] especially when the worker must work between two operating PTO drivelines. Furthermore, workers must be trained in safe work practices, which include shutting off PTO drivelines whenever possible before dismounting tractors, maintaining warning decals, not wearing loose or bulky clothing around and avoiding close proximity to rotating PTO drivelines, and keeping bystanders—especially children—away from PTO-driven equipment (7). To assist in preventing injuries to children, farmers should recognize that farm equipment is designed for operation by adults; be aware of the physical, emotional, and mental characteristics and abilities of children; and select age-appropriate tasks for children (8). Because of the need for immediate response to serious injuries, workers should not work alone when using hazardous equipment; however, if persons do work alone, they should be monitored frequently to ensure immediate response in the event of injuries (7).

The National Institute for Farm Safety is reviewing approaches to reduce the risk for forage-wagon-related injuries. In addition to proper shielding of the drivelines, placement of the speed-control devices to enable operation of such devices from the tractor driver's seat or from another location on the wagon would eliminate the need for the operator to step over the driveline. Leading manufacturers of forage wagons

(Continued on page 603)

[§]29 CFR § 1928.57. Occupational Safety and Health Administration (OSHA) Standard for Safety for Agricultural Equipment. Family-run farms with no other employees are exempt from compliance with federal OSHA standards, and those with ≤10 employees are generally not subject to OSHA inspection.

FIGURE I. Notifiable disease reports, comparison of 4-week totals ending August 12, 1995, with historical data — United States



*The large apparent decrease in the number of reported cases of measles (total) reflects dramatic fluctuations in the historical baseline.

[†]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 specified notifiable diseases, United States, cumulative, week ending August 12, 1995 (32nd Week)

	Cum. 1995		Cum. 1995
Anthrax Brucellosis Cholera Congenital rubella syndrome Diphtheria <i>Haemophilus influenzae*</i> Hansen Disease Plague Poliomyelitis, Paralytic	54 8 4 761 85 5	Psittacosis Rabies, human Rocky Mountain Spotted Fever Syphilis, congenital, age < 1 year [†] Tetanus Toxic shock syndrome Trichinosis Typhoid fever	40 1 276 132 16 118 23 183

*Of 740 cases of known age, 178 (24%) were reported among children less than 5 years of age. [†]Updated quarterly from reports to the Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services. This total through first quarter 1995.

-: no reported cases

		August	-								
Reporting Area	AIDS*	Gonor	rhea	А		В		C/N/	A,NB	Legion	ellosis
noporting / tou	Cum. 1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	42,294	214,754	243,363	16,232	14,199	6,073	6,998	2,634	2,473	759	917
NEW ENGLAND	2,116	2,834	4,862	164	195	127	232	75	97	15	20
Maine N.H.	74 61	52 72	56 67	17 6	20 15	6 13	11 16	- 11	- 8	4 1	2
Vt. Mass.	18 937	34 1,762	17 1,842	4 68	5 79	1 53	6 140	1 59	7 63	- 9	- 10
R.I.	147	304	290	20	15	8	6	4	19	1	8
Conn. MID. ATLANTIC	879 10,897	610 21,464	2,590 27,354	49 918	61 1,040	46 712	53 940	- 241	- 296	N 109	N 144
Upstate N.Y.	1,293	3,846	6,225	238	388	233	250	128	138	30	27
N.Y. City N.J.	5,641 2,567	7,375 2,224	10,224 3,165	416 129	358 197	207 155	194 254	1 86	1 130	1 15	29
Pa.	1,396	8,019	7,740	135	97	117	242	26	27	63	88
E.N. CENTRAL Ohio	3,311 673	45,961 14,017	48,674 13,477	1,828 1,166	1,392 473	611 78	735 103	169 7	216 14	198 99	268 124
Ind.	338	4,944	5,216	100	241	148	136	1	8	46	28
III. Mich.	1,408 675	12,465 10,992	14,740 10,677	217 230	353 175	94 253	196 243	33 128	60 134	13 21	25 52
Wis.	217	3,543	4,564	115	150	38	57	-	-	19	39
W.N. CENTRAL Minn.	982 219	11,836 1,724	13,550 1,964	1,141 118	687 148	399 33	410 41	66 2	56 11	75	65 2
lowa Mo.	54 427	798 6,724	858 7,625	48 813	32 311	29 288	18 306	8 37	7 14	16 41	25 21
N. Dak.	5	19	27	20	3	4	-	4	1	4	4
S. Dak. Nebr.	9 75	110 697	113 863	33 33	21 93	2 20	23	1 6	- 10	- 9	10
Kans.	193	1,764	2,100	76	79	23	22	8	13	5	3
S. ATLANTIC Del.	10,753 192	62,746 1,303	64,388 1,163	757 7	699 16	889 2	1,340 10	201 1	299 1	135 2	225 23
Md.	1,429	7,471	11,632	132	102	160 14	215	2	17	22 4	54
D.C. Va.	640 885	2,732 6,211	4,479 8,056	15 120	16 95	65	35 74	9	18	10	5 5
W. Va. N.C.	47 586	471 14,920	472 16,265	12 73	7 70	32 193	25 177	34 36	22 40	3 25	1 13
S.C.	569	7,488	7,985	27	28	33	23	16	6	22	9
Ga. Fla.	1,443 4,962	9,617 12,533	U 14,336	54 317	23 342	63 327	496 285	15 88	163 32	23 24	87 28
E.S. CENTRAL	1,397	26,943	28,502	975	335	550	668	681	536	31	64
Ky. Tenn.	178 562	2,942 8,373	2,987 8,873	26 840	103 137	43 433	58 562	13 666	18 509	4 21	8 32
Ala. Miss.	378 279	11,305 4,323	10,180 6,462	55 54	53 42	74	48	2	9	5 1	9 15
W.S. CENTRAL	3,729	21,351	29,511	2,149	1,791	934	693	413	173	9	27
Ark. La.	166 609	1,966 7,465	4,277 7,692	274 61	50 96	33 117	16 108	3 105	5 95	1 2	6 8
Okla.	174	1,456	2,918	484	166	281	80	275	38	3	9
Tex. MOUNTAIN	2,780 1,328	10,464 5,324	14,624 6,113	1,330 2,582	1,479 2,738	503 515	489 398	30 285	35 266	3 88	4 64
Mont.	15	43	52	68	15	16	15	10	5	4	14
ldaho Wyo.	31 7	70 31	53 50	218 88	214 16	56 17	61 17	33 122	60 81	2 7	1 3
Colo. N. Mex.	453 111	1,795 636	2,053 610	335 545	320 690	78 195	67 126	41 36	48 37	37 3	14 3
Ariz.	351	1,856	2,004	732	1,030	80	35	22	12	7	4
Utah Nev.	87 273	131 762	176 1,115	499 97	298 155	48 25	42 35	8 13	11 12	13 15	6 19
PACIFIC	7,781	16,295	20,409	5,718	5,322	1,336	1,582	503	534	99	40
Wash. Oreg.	581 256	1,579 212	1,794 588	495 1,173	679 602	118 54	141 91	133 29	149 23	15	8
Calif.	6,733	13,663	17,009	3,914	3,860	1,143	1,316	331	358	79	30
Alaska Hawaii	50 161	444 397	560 458	29 107	149 32	9 12	10 24	1 9	4	- 5	2
Guam	-	51	78	2	13	1	4	-	-	1	1
P.R. V.I.	1,635 25	325 6	312 15	66 -	40 2	488 2	215 6	227	111 1	-	-
Amer. Samoa C.N.M.I.	-	15 20	20 31	5 15	6 4	-7	- 1	-	-	-	-
N: Not notifiable	-	navailable		orted cases					- rthern Ma		-

TABLE II. Cases of selected notifiable diseases, United States, weeks ending August 12, 1995, and August 13, 1994 (32nd Week)

N: Not notifiable U: Unavailable -: no reported cases C.N.M.I.: Commonwealth of Northern Mariana Islands *Updated monthly to the Division of HIV/AIDS Prevention, National Center for Prevention Services, last update July 27, 1995.

Measles (Rubeola) Meningococcal Lyme Mumps Indigenous Disease Malaria Imported* Total Infections **Reporting Area** Cum. 1995 Cum. 1995 Cum. 1994 Cum. 1995 Cum. Cum. Cum. Cum. Cum. Cum. Cum. Cum. UNITED STATES 4,008 2,018 1,858 6,328 NEW ENGLAND 1,199 1,656 _ 7 Maine 3 N.H. Vt. Mass. 23 7 ---R.I. --Conn. 1,274 MID. ATLANTIC 2,119 3,578 Upstate N.Y. 1,107 2,285 32 N.Y. City 21 173 65 13 801 2 2 N.J. Pa. --E.N. CENTRAL -Ohio --3 17 32 71 93 28 67 Ind. --III. --Mich. 8 -2 Wis. W.N. CENTRAL Minn. lowa Mo. --N. Dak. --_ 7 S. Dak. --. 1 Nebr. 17 3 1 --Kans. S. ATLANTIC . Del. --Md. D.C. -Va. _ -W. Va. ---_ _ 7 7 N.C -. ---S.C. --Ga. -_ 5 Fla. E.S. CENTRAL Ky. --Ténn. -Ala. 2 --Miss. -_ --_ W.S. CENTRAL --Ark. 2 -39 8 -La. Okla. --Tex. --MOUNTAIN -Mont. Idaho Wyo. Colo. -N. Mex. 45 -46 Ν N 11 Ariz. 5 2 -Utah --Nev. 3 PACIFIC 3 3 Wash. Oreg. Ν Ν Calif -Alaska 4 -Hawaii -Guam U U З -. P.R. 3 -U U V.I. Amer. Samoa Ũ U C.N.M.I. U U

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending August 12, 1995, and August 13, 1994 (32nd Week)

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

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

Reporting Area		Pertussis		Rubella			Sypl (Prima Secon	ary &	Tuberc	ulosis	Rabies, Animal	
	1995	Cum. 1995	Cum. 1994	1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	101	1,864	2,246	-	98	200	9,293	13,240	11,501	13,141	4,358	4,569
NEW ENGLAND	2	255	225	-	22	126	107	144	297	276	988	1,135
Maine N.H.	-	22 21	2 46	-	1 1	-	2 1	4 3	12 9	- 13	22 109	111
Vt.	2	35	28	-	-	-	-	-	3	4	122	97
Mass.	-	166	125	-	6	123	39	59	162	140	314	429
R.I. Conn.	-	1 10	5 19	-	- 14	2 1	2 63	12 66	28 83	32 87	195 226	5 493
MID. ATLANTIC	6	140	343	-	11	6	534	865	2,400	2,590	845	1,151
Upstate N.Y.	6	79	132	-	4	5	43	108	2,400	344	332	857
N.Y. City	-	14	67	-	7	-	243	387	1,274	1,580	-	-
N.J. Pa.	-	5 42	11 133	-	-	1	114 134	135 235	449 391	465 201	236 277	184 110
E.N. CENTRAL	30	183	367	-	3	9	1,584	1,953	1,088	1,258	42	35
Ohio	27	79	104	-	-	9	546	748	1,088	201	42 5	
Ind.	-	13	46	-	-	-	164	161	43	105	8	9
III. Mich.	2 1	42 37	74 29	-	1 2	1 8	594 177	656 176	606 231	631 284	3 22	10 9
Wis.	-	12	114	-	-	0 -	103	212	46	204 37	4	9 7
W.N. CENTRAL	16	113	95	-	-	2	486	768	364	329	211	141
Minn.	15	43	39	-	-	-	28	26	87	71	6	14
lowa	1	6	6	-	-	-	28	38	44	28	82	56
Mo. N. Dak.	-	24 6	27 4	-	-	2	412	657 1	136 3	149 6	19 23	13 9
S. Dak.	-	8	3	-	-	-	-	1	13	17	49	23
Nebr.	-	6	7 9	-	-	-	9	11	17	16	4	-
Kans.	-	20			-	-	9	34	64	42	28	26
S. ATLANTIC Del.	17	206 9	222 1	-	26	13	2,352 8	3,429 18	2,088 12	2,448 26	1,324 33	1,251 35
Md.	-	18	57	-	-	-	137	169	241	198	265	352
D.C.	-	4	5	-	-	-	73	149	65	77	10	2
Va. W. Va.	-	10	23 3	-	-	-	369 8	509 8	146 51	207 53	253 74	237 51
N.C.	5	81	58	-	1	-	709	1,072	255	278	304	105
S.C.	-	16 17	11 22	-	1	-1	371	474	203	228	92	117
Ga. Fla.	1 11	51	42	-	1 23	12	443 234	531 499	323 792	464 917	171 122	250 102
E.S. CENTRAL	4	92	106				2,405	2,311	877	886	165	121
Ky.	-	8	55	-	-	-	130	131	238	201	15	12
Tenn.	4	54	18	-	-	-	507	627	262	265	56	34
Ala. Miss.	-	30	22 11	N	N	N	403 1,365	408 1,145	247 130	254 166	90 4	72 3
W.S. CENTRAL	8	152	89		6	12	1,280	2,959	1,325	1,712	495	454
Ark.	1	23	14	-	-	-	92	314	113	156	21	19
La.	1	11	9	-	-	-	657	1,111	6	11	23	47
Okla. Tex.	6	22 96	22 44	-	- 6	4 8	49 482	100 1,434	128 1,078	153 1,392	29 422	24 364
MOUNTAIN	13	332	309	-	4	4	175	190	377	325	90	92
Mont.	-	332	4	-	-	-	4	2	10	9	30	10
Idaho	-	77	33	-	-	-	-	1	9	11	1	2
Wyo. Colo.	- 8	1 32	- 157	-	-	-	4 85	- 97	1 22	4 36	20	14 9
N. Mex.	2	59	17	-	-	-	31	18	56	43	3	2
Ariz.	3	138	82	-	3	-	19	37	194	133	26	42
Utah Nev.	-	17 5	14 2	-	1	3 1	4 28	9 26	19 66	29 60	7 3	8 5
PACIFIC	5	391	490	-	26	28	370	621	2,685	3,317	198	189
Wash.	3	96	64	-	1	-	10	25	164	170	2	6
Oreg.	2	17	65	-	1	4	6	24	25	90	-	7
Calif. Alaska	-	242	349	-	21	21	353 1	567 3	2,347 47	2,862 37	192 4	145 31
Hawaii	-	36	12	-	3	3	-	2	102	158	-	-
Guam	U	-	2	U	-	1	3	3	33	45	-	-
P.R.	-	6	2	-	-	-	160	197	123	116	25	55
V.I. Amer. Samoa	U U	-	- 1	U U	-	-	2	22 1	- 3	- 3	-	-
	U	-	-	U	-	-	3	1	13	16	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending
August 12, 1995, and August 13, 1994 (32nd Week)

U: Unavailable -: no reported cases

	ļ	All Cau	ises, By	/ Age (Y	'ears)		P&I [†]		All Causes, By Age (Years)						P&l [†]
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. New Bedford, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§ Jersey City, N.J.	565 171 24 26 62 22 13 5. 19 41 50 2,439 37 22 98 27 33 38 29 27 33 38	389 99 20 11 22 43 20 11 16 28 3 25 14 32 1,590 24 20 66 21 19 27 26	34 3 3 2 10 2 1 8 8 1 5 3 12 477 7 1 4 4 5 5	52 21 - 2 8 - 3 2 4 - 5 5 267 4 1 1 0 3 2 2 1 4	16 9 1 - 1 - 1 3 - 47 - 47 - 1	16 8 - - - - 2 2 2 - - - - - - - - - - - -	24 4 - 1 1 1 1 5 6 1 3 87 - 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 Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	199 169 5 712 84 52 110 59 172 70 32 133	725 85 91 34 766 60 25 49 40 44 138 80 3 447 51 37 70 28 113 44 26 78	262 43 20 18 21 36 11 13 11 6 9 34 151 22 9 23 15 35 15 35 31 33	145 25 22 5 12 22 12 22 12 8 2 11 7 19 7 7 7 5 11 3 18 10 1 17	41 35 33 4 33 2 4 92 21 31 3 36 31 1	45 34 34 1 - 27 - 13 1 32 - 21 4	6476692345354 50236553154 15
New York City, N.J. New York City, N.Y. 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.		820 39 10 196 33 17 90 41 29 53 20 15 24	273 20 5 62 4 7 20 17 2 16 2 2	170 10 7 33 1 4 6 1 4 2 1	27 2 3 1 2 2 2 1 - 1 -	27 2 5 1 - 4 - 5 1 -	32 1 18 12 6 1 6 1 3	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.	208 64 82 312 75 160 209 62 120	912 29 33 31 121 40 51 186 49 102 150 41 79	282 12 8 42 17 15 62 18 27 31 13 29	142 4 2 26 5 8 48 4 19 17 4 3	46 1 10 2 5 8 6 7 1 5	43 2 - 9 - 3 8 4 6 4 3 4	63 4 2 3 4 4 5 7 2 - 15 6 1
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Garand Rapids, Micl Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn.	263 U 119 38 52 72 110 49 762 65 333 33 92 28	$\begin{array}{c} 1,329\\ 39\\ 25\\ 203\\ 61\\ 110\\ 104\\ 72\\ 110\\ 22\\ 44\\ 33\\ 184\\ 0\\ 29\\ 31\\ 59\\ 72\\ 37\\ 529\\ 45\\ 25\\ 18\\ 50\\ 177\\ 109\\ 70\\ 91\\ 45\\ 59\end{array}$	$\begin{array}{c} 7 \\ 4 \\ 70 \\ 24 \\ 283 \\ 266 \\ 590 \\ 114 \\ 7 \\ 9 \\ 44 \\ U \\ 22 \\ 5 \\ 14 \\ 8 \\ 22 \\ 8 \\ 127 \\ 10 \\ 5 \\ 8 \\ 20 \\ 4 \\ 28 \\ 129 \\ 9 \end{array}$	$\begin{array}{c} 194\\3\\2\\37\\120\\12\\7\\3\\5\\3\\4\\3\\21\\0\\7\\3\\1\\3\\11\\3\\62\\5\\1\\4\\14\\5\\7\\6\\4\end{array}$	61 3 1 15 2 5 4 2 7 - 3 - 2 7 U 2 1 4 2 1 - 25 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	57 2 - 9 1 9 6 3 6 - 3 6 - 3 6 - 3 6 - 3 7 U 2 - 2 - 4 1 11 3 3 3 1 2 2 - 3 1 2 2 2	140 222 12 4 20 9 7 2 7 3 4 4 14 U 11 3 6 6 6 1 37 6 1 1 8 1 3 4 5 5 3	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. Dasadena, Calif. Pasadena, Calif. Pasadena, Calif. San Francisco, Calif. San Francisco, Calif. San Francisco, Calif. Santa Cruz, Calif. Santa Cruz, Calif. Seattle, Wash. Tacoma, Wash. TOTAL	132 165 144 189 15 93 120 1,764 23 90 30 77 69 560 21 U U 165 560 21 31	562 64 39 100 100 13 555 88 1,132 13 49 25 55 40 347 15 U 117 79 3 70 118 22 79 43 46 7,615	168 16 14 23 32 4 36 1 21 338 4 20 4 12 138 4 20 4 12 138 114 4 21 34 21 338 114 21 338 12 138 12 138 21 21 338 12 12 138 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 338 21 21 21 34 21 21 34 21 21 21 21 34 21 21 21 21 21 21 21 21 21 21	98 10 3 21 11 33 12 7 212 6 15 - 4 11 73 1 U 18 12 23 19 2 21 3 4 1,244	27 4 2 4 3 8 - 3 3 49 - 4 1 2 5 15 1 U 3 2 1 4 - 6 3 2 333	21 3 3 12 2 1 31 2 3 3 10 0 0 3 3 2 2 8 8 - 2 290	48 4 8 5 1 4 2 5 5 122 - 8 3 2 9 6 7 U 7 U 7 0 1 4 3 2 4 4 6 3 5 6 3 5 0 6 7 0 7 0 7 0 7 0 7 0 8 3 2 9 6 7 0 7 0 7 0 1 1 1 3 2 4 8 5 1 1 1 2 5 5 7 0 8 5 1 1 2 5 5 7 0 8 5 1 1 2 5 5 7 0 7 0 1 1 1 2 5 5 7 0 1 1 2 5 5 7 0 1 1 1 2 5 5 7 0 1 1 1 1 2 5 5 7 0 1 1 1 1 2 5 5 7 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TABLE III. Deaths in 121 U.S. cities,* week ending August 12, 1995 (32nd Week)

*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.
 ¹Pneumonia and influenza.
 ⁵Because 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.
 ¹Total includes unknown ages.
 U: Unavailable -: no reported cases

Forage-Wagon-Related Injuries — Continued

have designed conveyor extensions that allow for an increase in the space between the two tractors; the extension can be supplied with new equipment or used to retrofit some older equipment. An informal survey of forage wagon equipment indicated that conveyor extensions are available for all seven wagons selected in a nonrandom sample; costs for the retrofits ranged from \$35 to \$600 each. Although these extensions are marketed to promote productivity, not safety, manufacturers and dealers should be made aware that these extensions can contribute to safer operation of the equipment, and farmers should be encouraged to use them to enhance safety as well as increase productivity.

In New York, OHNAC, in collaboration with farm groups, have alerted farmers about the hazards associated with PTO drivelines—especially on forage wagons through educational presentations and articles in regional agricultural publications.

References

- 1. Pollock J. Perspectives of New York farm safety: workplace injuries and worker opinions [Thesis]. Ithaca, New York: Cornell University, 1990. 68 p.
- NIOSH. Traumatic injury surveillance of farmers: annual statistical abstract, 1993. Morgantown, West Virginia: US Department of Health and Human Services, Public Health Service, CDC, NIOSH, 1995 (in press).
- 3. Cogbill TH, Steenlage ES, Landercasper J, Strutt PJ. Death and disability from agricultural injuries in Wisconsin: a 12-year experience with 739 patients. J Trauma 1991;31:1632–7.
- 4. Heeg M, ten Duis HJ, Klasen HJ. Power take-off injuries. British Journal of Accident Surgery 1986;17:28–30.
- 5. Roerig S. Scalping accidents with shielded PTO units: four case reports. American Association of Occupational Health Nursing Journal 1993;41:437–9.
- 6. CDC. Scalping incidents involving hay balers-New York. MMWR 1992;41:489-91.
- Demmin D, Hallman E. Cornell Cooperative Extension rural health and safety fact sheet: power take-off (PTO) safety. Ithaca, New York: Cornell University, 1995; publication no. 123FSF56.
- 8. Bean TL, Wojtowicz J. Farm safety for children: what job is right for my child? Columbus, Ohio: Ohio State University, 1992; publication no. AEX-991.1.

Update: HIV-2 Infection Among Blood and Plasma Donors — United States, June 1992–June 1995

Human immunodeficiency virus type 1 (HIV-1) and type 2 (HIV-2) both cause acquired immunodeficiency syndrome (AIDS). Following the licensure of combination HIV-1/HIV-2 screening enzyme immunoassays (EIA), the Food and Drug Administration (FDA) recommended that beginning in June 1992 all donated whole blood, blood components, and source plasma be screened for antibody to HIV-2 because not all persons infected with HIV-2 can be detected by HIV-1 testing (*1,2*). This report describes the first two cases of HIV-2 infection detected among potential blood donors since the implementation of recommended HIV-2 screening and summarizes national data about persons known to be infected with HIV-2 during December 1987–June 1995.*

^{*}Single copies of this report will be available until August 18, 1996, from the CDC National AIDS Clearinghouse, P.O. Box 6003, Rockville, MD 20849-6003; telephone (800) 458-5231 or (301) 217-0023.

HIV-2 Infection — Continued

Donor 1

In June 1994, a blood donation was discarded after it tested positive by combination HIV-1/HIV-2 EIA and indeterminate by HIV-1 Western blot assay (WB). The donor was notified about the test results and consented to an interview and repeat testing. Testing at CDC indicated the specimen was positive by HIV-1 EIA, HIV-1 WB, HIV-2 EIA, and HIV-2 WB for research use only (RUO). Results of RUO synthetic peptide tests indicated cross-reactivity to HIV-1 and were interpreted as HIV-2 infection.

The donor was born and resided in the United States. She previously had not donated blood or plasma. She reported no symptoms related to HIV infection and denied injecting-drug use, receipt of transfusions, and travel outside the United States. Since 1982, she had had four male sex partners; all were born in the United States. The HIV status of her partners is unknown, and she was unaware of any HIV-infection risks among them. She has no children. She received HIV counseling—including instructions to refrain from donating blood, blood components, and tissues or organs—and referral to a health-care provider.

Donor 2

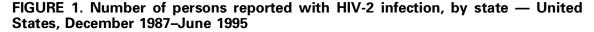
In November 1994, a plasma donation was destroyed after the serum tested positive by combination HIV-1/HIV-2 EIA and RUO HIV-2 WB. Attempts by the plasma center to notify the donor were unsuccessful. However, the donor independently sought HIV testing 2 weeks later at a counseling and testing site (CTS). The CTS laboratory results were HIV-1 EIA positive with an atypical HIV-1 WB indeterminate band pattern suggestive of HIV-2 infection. Subsequent testing at CDC indicated the specimen was HIV-1 EIA positive, HIV-1 WB indeterminate, HIV-2 EIA positive, and HIV-2 WB positive. RUO synthetic peptide EIA and dot blots were also positive for HIV-2. These results were interpreted as confirmed HIV-2 infection.

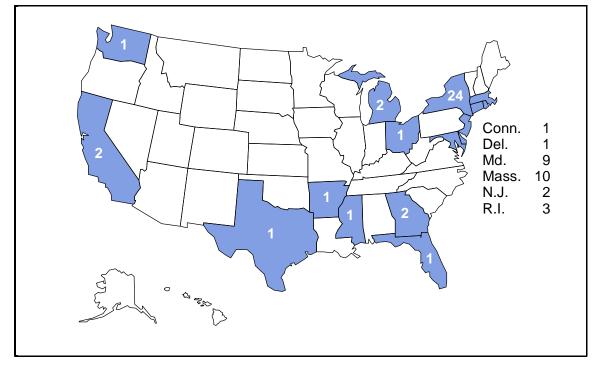
During the follow-up interview, the male donor reported no symptoms of HIV infection. He had not previously donated blood or plasma. He was born in France and had lived in several countries in western Africa during 1979–1985 before moving to the United States. While in western Africa, he was vaccinated on two occasions with needles that were wiped with cotton and reused between patients. He also received several tattoos in Africa. Of his estimated 35 lifetime sex partners, most were African. The donor denied having had sex with men, injecting-drug use, and receipt of transfusions. He received HIV counseling—including instructions to refrain from donating blood, blood components, and tissues or organs—and referral to a health-care provider.

U.S. Reports of HIV-2 Infection

As of June 30, 1995, a total of 62 persons in the United States were reported with HIV-2 infection (Figure 1). Of 58 persons for whom sex data were available, 38 (66%) were male. At least 11 of the 62 persons had an AIDS-defining condition at the time of report, and five are known to have died. Of these 62 persons, 42 (68%) were born in western Africa and two in Europe; for nine, the region of origin was unknown although four had malaria antibody profiles consistent with previous residence in western Africa. Of the nine persons with HIV-2 infection born in the United States, six were adults of whom four had either traveled to or had a sex partner from western Africa, and three were infants born to mothers of unknown national origin.

HIV-2 Infection — Continued





Reported by: MD Herr, HIV/AIDS Epidemiology; AL Hathcock, PhD, State Epidemiologist, Delaware Div of Public Health. DW Hamaker, JM Schulte, DO, D Hoehns, BE Mitchell, MPH, Bur of HIV and STD Prevention; DM Simpson, MD, State Epidemiologist, Texas Dept of Health. Local and state health depts. Office of Blood Research and Review; Div of Transfusion Transmitted Diseases, Center for Biologics Evaluation and Research, Food and Drug Administration. Div of HIV/AIDS, National Center for Infectious Diseases; Div of HIV/AIDS Prevention, National Center for Prevention Svcs, CDC.

Editorial Note: In the United States, HIV-2 infection among blood donors is extremely rare. Since the implementation of combination HIV-1/HIV-2 EIA screening of blood and plasma donations, an estimated 74 million donations have been tested for HIV. Including the two cases described in this report, three cases of HIV-2 infection have been detected among blood and plasma donors in the United States; the first case was detected by HIV-1 screening in 1986 (*3*). These findings are consistent with previous surveys of approximately 20 million U.S. blood donations during 1987–1989 in which no blood-donor specimens with HIV-2 antibody were detected (*4,5*).

The national blood supply is protected from HIV primarily through two methods: 1) interviewing donors about risk behaviors for HIV infection and 2) laboratory screening donations for HIV (*6*,7). All donations detected with HIV are excluded from any clinical use,[†] and donors are deferred from further donations[§]. For both donors described in this report, although no HIV risk factors were identified during the interview preceding blood donation, laboratory screening of their blood and plasma donations detected HIV infection. Subsequent testing revealed HIV-2 cross-reactivity resulting in

HIV-2 Infection — Continued

a positive HIV-1 EIA (which would have led to exclusion even in the absence of HIV-2 testing) and a positive or indeterminate HIV-1 WB.

HIV-1 is distributed worldwide and is prevalent in the United States; however, HIV-2 is endemic in western Africa with limited distribution to other regions of the world. Of the 62 persons reported with HIV-2 infection in the United States, at least 48 (77%) were born in, had traveled to, and/or had a sex partner from western Africa.

In addition to detection of HIV-2 cases through blood and plasma donor screening, epidemiologic data about HIV-2 cases are collected through the CDC-supported national HIV/AIDS surveillance system and serosurveys (8,9). Because not all persons who are infected with HIV-2 donate blood or are otherwise tested for HIV-2, the number of persons reported with HIV-2 infection probably is underestimated. Nonetheless, the data from these sources indicate that HIV-2 is uncommon in the United States.

Blood centers detecting a repeatedly reactive specimen by combination HIV-1/HIV-2 EIA should follow the recommended CDC/FDA testing algorithm (1). Specimens suspected of being HIV-2 positive may be referred to state health department laboratories or to CDC for confirmatory HIV-2 testing. Cases of HIV-2 infection should be reported to state and local health departments as allowed by law and/or regulation. Periodic updates about the number of persons known to be infected with HIV-2 in the United States are available from the CDC National AIDS Clearinghouse.

References

- 1. CDC. Testing for antibodies to human immunodeficiency virus type 2 in the United States. MMWR 1992;41(no. RR-12).
- George JR, Rayfield MA, Phillips S, et al. Efficacies of US Food and Drug Administrationlicensed HIV-1-screening enzyme immunoassays for detecting antibodies to HIV-2. AIDS 1990;4:321–6.
- 3. O'Brien TR, Polon C, Schable CA, et al. HIV-2 infection in an American. AIDS 1991;5:85-8.
- 4. CDC. Surveillance for HIV-2 infection in blood donors—United States, 1987–1989. MMWR 1990;39:829–31.
- 5. CDC. AIDS due to HIV-2 infection-New Jersey. MMWR 1988;37:33-5.
- 6. Food and Drug Administration. Revised recommendations for the prevention of human immunodeficiency virus (HIV) transmission by blood and blood products [Memorandum to all registered blood establishments]. Bethesda, Maryland: US Department of Health and Human Services, Public Health Service, Food and Drug Administration, Center for Biologics Evaluation and Research, 1992.
- 7. Food and Drug Administration. Recommendations for donor screening with a licensed test for HIV-1 antigen [Memorandum to all registered blood and plasma establishments]. Rockville, Maryland: US Department of Health and Human Services, Public Health Service, Food and Drug Administration, Center for Biologics Evaluation and Research, 1995.
- 8. CDC. HIV/AIDS surveillance report. Atlanta, Georgia: US Department of Health and Human Services, Public Health Service, 1995:36–7. (Vol 6, no. 2).
- 9. O'Brien TR, George JR, Holmberg SD. Human immunodeficiency virus type 2 infection in the United States. JAMA 1992;267:2775–9.

[†]21 CFR § 610.45(c).

^{§21} CFR § 606.160(e).

Monthly Immunization Table

To track progress toward achieving the goals of the Childhood Immunization Initiative (CII), CDC publishes monthly a tabular summary of the number of cases of all diseases preventable by routine childhood vaccination reported during the previous month and year-to-date (provisional data). In addition, the table compares provisional data with final data for the previous year and highlights the number of reported cases among children aged <5 years, who are the primary focus of CII. Data in the table are reported through the National Electronic Telecommunications System for Surveillance.

	No. cases.		l cases y–June	No. cases among children aged <5 years [†] January–June			
Disease	June 1995	1994	1995	1994	1995		
Congenital rubella							
syndrome (CRS)	1	2	4	2	4		
Diphtheria	0	2	0	1	0		
Haemophilus influenzae [§]	65	597	623	175	150		
Hepatitis B¶	797	5502	4753	61	40		
Measles	27	747	205	182	78		
Mumps	80	703	463	97	90		
Pertussis	173	1690	1208	960	713		
Poliomyelitis, paralytic**	0	0	0	0	0		
Rubella	26	171	64	13	12		
Tetanus	2	18	11	0	1		

Number of reported cases of diseases preventable by routine childhood vaccination — United States, June 1995 and 1994–1995*

*Data for 1994 and 1995 are provisional.

[†]For 1994 and 1995, age data were available for ≥92% of cases.

[§]Invasive disease; *H. influenzae* serotype is not routinely reported through the National Electronic Telecommunications System for Surveillance. Of 150 cases among children aged <5 years, serotype was reported for 38 cases, and of those, 20 were type b, the only serotype of *H. influenzae* preventable by vaccination.

[¶]Because most hepatitis B virus infections among infants and children aged <5 years are asymptomatic (although likely to become chronic), acute disease surveillance does not reflect the incidence of this problem in this age group or the effectiveness of hepatitis B vaccination in infants.

**One case with onset in July 1994 has been confirmed; this case was vaccine-associated. An additional six suspected cases are under investigation. In 1993, three of 10 suspected cases were confirmed; two of the confirmed cases were vaccine-associated, and one was imported. The imported case occurred in a 2-year-old Nigerian child brought to the United States for care of his paralytic illness; no poliovirus was isolated from the child.

The Morbidity and Mortality Weekly Report (MMWR) Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available free of charge in electronic format and on a paid subscription basis for paper copy. To receive an electronic copy on Friday of each week, send an e-mail message to *lists@list.cdc.gov*. The body content should read *subscribe mmwr-toc*. Electronic copy also is available from CDC's World-Wide Web server at http://www.cdc.gov/ or from CDC's file transfer protocol server at *ftp.cdc.gov*. To subscribe for paper copy, contact Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone (202) 783-3238.

Data in the weekly *MMWR* are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the following Friday. Address inquiries about the *MMWR* Series, including material to be considered for publication, to: Editor, *MMWR* Series, Mailstop C-08, CDC, 1600 Clifton Rd., N.E., Atlanta, GA 30333; telephone (404) 332-4555.

All material in the *MMWR* Series is in the public domain and may be used and reprinted without permission; citation as to source, however, is appreciated.

Editor, <i>MMWR</i> Series Richard A. Goodman, M.D., M.P.H.
Managing Editor, MMWR (weekly)
Karen L. Foster, M.A.
Writers-Editors, MMWR (weekly)
David C. Johnson
Darlene D. Rumph-Person
Caran R. Wilbanks

☆U.S. Government Printing Office: 1995-633-175/27006 Region IV