

- **401** Update: Trends in AIDS Among Men Who Have Sex with Men — United States, 1989–1994
- 404 HIV Transmission in a Dialysis
- Center Colombia, 1991–1993 412 Update: Progress Toward Poliomyelitis Eradication — Socialist Republic of Vietnam, 1993–1994

MORBIDITY AND MORTALITY WEEKLY REPORT

415 Monthly Immunization Table

Update: Trends in AIDS Among Men Who Have Sex with Men — United States, 1989–1994

тм

During 1994, local, state, and territorial health departments reported to CDC 34,974 cases of acquired immunodeficiency syndrome (AIDS) among men whose only reported HIV exposure was sexual contact with other men. Although previous reports indicated progressively smaller annual increases in cases of AIDS among men who have sex with men (MSM) (1), male-to-male sexual contact continues to represent the most frequently reported mode of HIV transmission among persons with AIDS. This report summarizes trends during January 1989–June 1994 in the occurrence of AIDS among MSM aged ≥13 years.*

For this analysis, AIDS surveillance data were reported from the 50 states, the District of Columbia, and Puerto Rico for 6-month reporting periods (i.e., January-June and July–December). Because the AIDS surveillance case definition was expanded in 1993, trends in AIDS incidence are evaluated using the estimated incidence of AIDSdefining opportunistic illnesses (AIDS-OIs) (2). Estimated AIDS-OI incidence is the sum of the observed AIDS-OI incidence and the incidence based on estimated dates of AIDS-OI diagnosis for persons reported with AIDS based only on severe immunosuppression[†]; both incidences are adjusted for reporting delays and anticipated redistribution of cases initially reported with no identified risk. Because the estimated dates of AIDS-OI diagnosis are based on data from a longitudinal record review project of persons in care, these rates account for changes in AIDS-OI incidence reflecting the effects of antiretroviral therapy or prophylactic therapy for *Pneumocystis carinii* pneumonia (2). To calculate rates for 1989–1990, the denominators were derived from 1990 U.S. census population estimates; rates for 1991, from 1991 intercensal estimates; and rates for 1992–1994, from 1992 intercensal estimates. For analysis of data by metropolitan statistical area (MSA), denominators were derived from 1990 census data for the United States and Puerto Rico.

From January–June 1989 through January–June 1994, rates of AIDS-OI for MSM increased 31%, from 12.1 to 15.9 cases per 100,000 males aged \geq 13 years (Figure 1).

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

^{*}Single copies of this and the following report in this issue will be available free until June 1, 1996, from the CDC National AIDS Clearinghouse, P.O. Box 6003, Rockville, MD 20849-6003; telephone (800) 458-5231 or (301) 217-0023.

[†] CD4+ count <200 T-lymphocytes/µL or a CD4+ T-lymphocyte percentage of total lymphocytes of <14.

AIDS — Continued

Rates varied subtantially by geographic region[§]: in the Midwest and South, rates increased 51% (from 5.7 to 8.6) and 49% (from 11.6 to 17.3), respectively. Increases were smaller in the West (21%; mid-1994 rate: 21.7) and the Northeast (13%; mid-1994 rate: 15.0).

Increases also varied by race/ethnicity (Figure 1), and during January–June 1989 and January–June 1994, rates were highest among black men (20.8 and 37.3, respectively); the largest proportionate increase in rate (79%) during January 1989–June 1994 also occurred among black men. Rates also increased among Hispanic men (61%, from 14.0 in mid-1989 to 22.6 in mid-1994), American Indian/Alaskan Native men (77%, from 3.9 to 6.9), Asian/Pacific Islander men (55%, from 4.0 to 6.2), and white men (14%, from 10.7 to 12.2). Among males in the youngest age group (13–24 years), rates increased for blacks (31%, from 5.2 to 6.8) and Hispanics (39%, from 2.3 to 3.2) but decreased (31%, from 1.6 to 1.1) for whites.

By region, the largest race/ethnicity-specific increase in rate occurred among black men in the South (109%, from 16.0 to 33.4). The only decrease occurred among white

FIGURE 1. Estimated rate* of AIDS-defining opportunistic illnesses among men who have sex with men (MSM), by race/ethnicity and date of diagnosis — United States, 1989–1994[†]



Date of Diagnosis (6-Month Interval)

*Per 100,000 males aged ≥13 years.

[†]Data were reported in 6-month intervals.

[§]Northeast=Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; Midwest=Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; South=Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and West=Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

[§]May be of any race.

men in the Northeast (7%, from 10.0 to 9.3). Differences in rates between white men and black and Hispanic men increased in all regions during the 5-year period.

The increase in rates also varied substantially by size of MSA. Although rates during mid-1989 were lowest (2.6) in rural areas (i.e., population <50,000), the percentage increase in rate was highest in these areas (69%; mid-1994 rate: 4.4) and in MSAs with populations of 50,000–1 million (55%; mid-1994 rate: 10.2). In comparison, although rates during mid-1989 were highest (20.8) in the largest MSAs (i.e., population >2.5 million), these MSAs were characterized by the smallest 5-year percentage increase (19%; mid-1994 rate: 24.8).

Since June 1981, three MSAs (New York, Los Angeles, and San Francisco) have reported 27% of all AIDS cases among MSM. During the 5-year surveillance period, rates of AIDS-OI in these three MSAs increased 8%, 12%, and 7%, respectively, (mid-1994 rates: 44.4, 34.9, and 127.7, respectively). In all three MSAs, the rate for white men decreased (20%, 16%, and 3%, respectively), and the rate for black men increased (49%, 48%, and 53%, respectively).

Reported by: Local, state, and territorial health departments. Div of HIV/AIDS Prevention, National Center for Prevention Svcs, CDC.

Editorial Note: The findings in this report indicate a continuing increase in the occurrence of AIDS-OI diagnosed among MSM during January 1989–June 1994, although increases during this period were smaller than earlier in the epidemic. This decline in the level of increase in AIDS cases among MSM began during the late 1980s (1) and may reflect, in part, decreases in high-risk sexual behaviors and HIV incidence among MSM during the mid- to late 1980s (3). However, the occurrence of AIDS among MSM is high (151,994 new AIDS cases were reported among MSM during the 5-year period), and cases of new infections continue to occur, especially among young MSM. For example, during 1992–1993, HIV seroprevalence was 4.8% among MSM aged 18–23 years in San Francisco (4) and, during 1990–1991, 9% among MSM aged 18–24 years in New York City (5). During the same periods, the overall rates of new HIV infections among MSM in San Francisco and New York City were 1.2% and 2%, respectively (4,5).

Regardless of mode of transmission, the incidence of AIDS has been higher among black and Hispanic men than among white men (6). Factors potentially associated with the increased risk among racial/ethnic minorities include decreased access to HIV-prevention services, higher rates of sexually transmitted diseases (7), and culturally inappropriate HIV-prevention activities (8). This report documents the disproportionate occurrence of AIDS among black and Hispanic MSM compared with white MSM during January 1989–June 1994. This finding underscores the need for community planning groups to consider culturally appropriate prevention services when addressing the HIV-prevention needs of racial/ethnic minorities.

The use of rates to evaluate trends in estimated AIDS-OI incidence allows comparison of the impact of the epidemic among persons in different racial/ethnic groups, geographic regions, and age groups. However, rates calculated with denominators comprised of all men underestimate the impact of the epidemic among MSM because the true denominator of MSM at risk is substantially smaller than census counts of all men aged \geq 13 years. Geographic differences in rates of AIDS attributed to male-to-male sexual contact may reflect variations in the prevalence of homosexual behavior and in the prevalence of HIV infection in different communities. For example, when

AIDS — Continued

compared with men living in rural areas, the prevalence of men who self-identified as homosexual was seven times greater among men in the 12 largest central cities (9).

The AIDS epidemic among MSM should be viewed as a composite of multiple epidemics with different times of onset and patterns of spread. AIDS surveillance data collected by health departments should be used to characterize and track local epidemics and to assist community planning groups and providers in designing and implementing HIV-prevention programs at the community level (*10*).

References

- 1. Karon JM, Berkelman RL. The geographic and ethnic diversity of AIDS incidence in homosexual/bisexual men in the United States. J Acquir Immune Defic Syndr 1991;4:1179–89.
- 2. CDC. Update: trends in AIDS diagnosis and reporting under the expanded surveillance definition for adolescents and adults—United States, 1993. MMWR 1994;43:826–31.
- Winkelstein W, Wiley JA, Padian NS, et al. The San Francisco Men's Health Study: continued decline in HIV seroconversion rates among homosexual/bisexual men. Am J Public Health 1988;78:1472–4.
- 4. Osmond DH, Page K, Wiley J, et al. HIV infection in homosexual and bisexual men 18 to 29 years of age: the San Francisco young men's health study. Am J Public Health 1994; 84:1933–7.
- 5. Dean L, Meyer I. HIV prevalence and sexual behavior in a cohort of New York City gay men (aged 18–24). J Acquir Immune Defic Syndr 1995;8:208–11.
- 6. CDC. AIDS among racial/ethnic minorities—United States, 1993. MMWR 1994;43:644-7,653-5.
- 7. National Commission on AIDS. The challenge of HIV/AIDS in communities of color. Washington, DC: National Commission on AIDS, December 1992.
- 8. United States Conference of Mayors. Assessing the HIV-prevention needs of gay and bisexual men of color. Laurel, Maryland: Health Consultants International, December 1993.
- Laumann EO, Gagnon JH, Michaels S. Homosexuality. In: The social organization of sexuality: sexual practices in the United States. Chicago, Illinois: University of Chicago Press, 1994:283– 320.
- 10. Valdiserri RO, Aultman TV, Curran JW. Community planning: a national strategy to improve HIV prevention programs. J Community Health 1995;20:87–99.

HIV Transmission in a Dialysis Center — Colombia, 1991–1993

Although never reported in the United States, previous reports of possible patientto-patient transmission of human immunodeficiency virus (HIV) associated with hemodialysis (1,2) indicate the potential for this problem and the importance of infection-control measures in dialysis centers. In May 1994, CDC received a report of a cluster of HIV seroconversions among patients undergoing treatment at a dialysis center in Colombia. This report summarizes the findings of the epidemiologic and laboratory investigations of this cluster by the National Institute of Health in Colombia and CDC (3), which underscore the need for strict adherence to infection-control practices during dialysis (4,5).

In May 1993, blood specimens from three patients of the dialysis center in Colombia were HIV-antibody-positive. This finding prompted the subsequent testing of blood specimens from all dialysis center patients that had been stored during January 1988–December 1993 (study period) as part of an affiliated kidney transplant program. An epidemiologic investigation was initiated after these specimens were tested for HIV antibody by enzyme immunosorbent assay and confirmatory Western blot.

A retrospective cohort study was conducted among all patients who were dialyzed in the dialysis center from January 1992 (approximately 6 months before the first

HIV Transmission — Continued

seroconversion) through December 1993 (epidemic period). An HIV seroconverter was defined as any patient with a documented seroconversion from HIV-antibodynegative to positive during the epidemic period. An HIV seronegative patient was a patient whose most recent serum sample was HIV negative. To determine potential risk factors for HIV seroconversion, HIV seroconverters were compared with HIV seronegative patients. Medical, blood bank, and dialysis center records were reviewed, and confidential interviews were conducted with available patients or family members. Any potential exposures to HIV (e.g., surgical or dental procedures or behavioral risk factors) were included in the analysis if they had occurred ≤ 1 year before HIV seroconversion for seroconverters or ≤1 year before the epidemic period for HIV seronegative patients. In addition to the dialysis center, the endoscopy suite and dental clinic located within the hospital containing the dialysis center were inspected; infection-control practices in these settings were observed. Three isolates of HIV were analyzed from four seroconverters and four controls (controls included two HIVinfected persons from the same city but who had not been dialyzed at the dialysis center and two from a different city). Polymerase chain reaction was used to amplify a 480 nucleotide sequence of the HIV-1 gag gene, which encodes for p24 and p7; in addition, three isolates were analyzed for each HIV-infected person.

Of the 84 dialysis center patients dialyzed during the study period (January 1988– December 1993), blood specimens were available for 59 patients. Of these, 13 (22%) were HIV seropositive, including 10 who were HIV seroconverters (nine of whom seroconverted during the epidemic period [January 1992–December 1993]). All HIV seroconverters had undergone \geq 10 dialysis sessions. Of the nine who seroconverted during the epidemic period, seven were male, two had a history of paying for sex, and five had received blood products (screened for HIV) \leq 6 months before seroconversion; none reported intravenous or illicit drug use or receiving unscreened blood products, and none of the males reported having had sex with other men. None met clinical criteria for acquired immunodeficiency syndrome; four died following seroconversion, but none died because of HIV-related illness.

The first HIV seropositive patient dialyzed during the epidemic period (patient A) tested positive 20 days after beginning care at the dialysis center in May 1992. The risk for seroconversion among patients who received dialysis during the 4-month period (May–August 1992) when patient A was dialyzed was significantly higher than for those who were dialyzed only during other months (i.e., nine of 10 versus none of nine; relative risk=infinity; exact 95% confidence interval=3.0–infinity). The only patient who received dialysis during the same period as patient A but who did not seroconvert was recorded to have always used separate patient-care equipment designated for patients known to be infected with hepatitis B virus (HBV); all other patients dialyzed during this period were recorded to have used common equipment. Risk for HIV seroconversion was not associated with other factors, including history of transfusions ≤6 months before seroconversion, a kidney transplant, or dental or endoscopic procedures.

Nucleotide sequence comparison of HIV deoxyribonucleic acid indicated that isolates obtained from the four dialysis center seroconverters were genetically closer to each other (0.02%–0.05% variation) than to the four controls (0.06%–0.08% variation), suggesting a common source for infection in patients in the dialysis center (6). An HIV isolate from patient A, who died 4 months after beginning dialysis at the dialysis cen-

FIGURE I. Notifiable disease reports, comparison of 4-week totals ending May 27, 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 May 27, 1995 (21st Week)

	Cum. 1995		Cum. 1995
Anthrax Brucellosis Cholera Congenital rubella syndrome Diphtheria <i>Haemophilus influenzae*</i> Hansen Disease Plague Poliomyelitis, Paralytic	26 7 3 1 539 52 2	Psittacosis Rabies, human Rocky Mountain Spotted Fever Syphilis, congenital, age < 1 year [†] Tetanus Toxic shock syndrome Trichinosis Typhoid fever	23 1 56 - 9 84 18 119

*Of 525 cases of known age, 127 (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 œnter for Prevention Services. First quarter data not yet available.

-: no reported cases

Reporting Area	AIDS*	Gono	rrhea	l	A	E	3	C/N/	A,NB	Legionellosis		
	Cum. 1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	
UNITED STATES	24,401	140,480	148,661	9,785	8,824	3,639	4,756	1,585	1,714	517	578	
NEW ENGLAND	1,275	1,725	3,259	75 13	131	66	172 7	46	62	5 1	9	
N.H.	44	43	30	4	5	9	14	4	5	-	-	
vt. Mass.	13 593	18 1,054	11 1,194	33	1 60	1 27	5 110	42	6 40	- 4	- 5	
R.I. Conn.	91 511	21 559	184 1 <i>.</i> 802	2 20	12 41	1 26	3 33	-	11	- N	4 N	
MID. ATLANTIC	6,054	13,793	16,543	567	620	469	600	142	208	59	67	
Upstate N.Y. N.Y. City	690 3,084	2,612 4,571	3,699 6,289	145 260	207 217	146 124	149 136	68 1	92 1	17	18	
N.J. Pa	1,423 857	1,310 5,300	2,291	90 72	132 64	127 72	159 156	62 11	97 18	14 28	13 36	
E.N. CENTRAL	2,091	30,580	31,986	1,303	822	392	486	106	154	147	204	
Ohio Ind.	481 168	10,259 2,714	9,622 3,225	826 58	266 136	48 89	80 86	5	9 4	76 33	74 68	
III. Mich	891 426	8,202 7,372	9,453 6 854	193 154	242 104	76 163	136 147	22 79	42 99	11 14	15 29	
Wis.	125	2,033	2,832	72	74	16	37	-	-	13	18	
W.N. CENTRAL Minn.	565 120	7,621 1,198	8,314 1,298	571 64	422 81	209 20	265 28	40 2	30 6	47	39	
lowa Mo.	33 222	577 4.608	553 4.388	35 392	14 188	16 143	14 194	3 23	7	11 28	21 9	
N. Dak.	1	10	17	13	1	2	-	3	-	3	4	
Nebr.	51	-	485	9	68	9	14	3	5	3	3	
Kans. S. ATI ANTIC	6.573	41,899	1,493	46 445	55 439	18 516	953	5 128	б 248	2 80	∠ 150	
Del.	131	809	729	7	13	2	7	1	1	16	- 35	
D.C.	441	1,913	2,592	3	10	10	16	-	-	3	4	
va. W. Va.	453 31	4,411 224	5,070 285	80 10	54 4	37 29	47 10	4 21	17	5	3	
N.C. S.C.	311 321	9,973 4,748	10,045 4,836	52 14	47 12	116 21	123 17	26 7	27 3	14 16	10 6	
Ga. Fla	785 3 092	7,030	U 9 237	43 159	22 207	49 164	411 166	11 54	148 24	9 14	69 22	
E.S. CENTRAL	820	17,682	13,495	484	173	292	478	424	326	12	24	
Ky. Tenn.	80 349	1,844 5,080	1,778 5,301	22 387	88 59	32 208	46 399	8 414	12 307	2 6	4 13	
Ala. Miss.	233 158	7,414 3,344	6,416 U	51 24	26 U	52	33 U	2	7 U	3 1	7 U	
W.S. CENTRAL	2,233	13,217	17,241	1,114	1,139	525	495	230	160	5	13	
Ark. La.	88 352	1,591 4,776	2,698 4,905	102 35	22 66	20 71	9 75	2 54	3 43	2	4	
Okla. Tex.	101 1,692	950 5,900	1,453 8,185	211 766	103 948	155 279	124 287	162 12	87 27	2 1	8 1	
MOUNTAIN	793	3,116	3,917	1,736	1,723	315	242	189	178	98	40	
Idaho	22	32 52	38	174	144	9 39	9 37	8 24	44	2	-	
Wyo. Colo.	4 268	19 1,198	35 1,334	64 222	8 199	7 53	7 42	70 29	50 29	2 28	2 6	
N. Mex. Ariz.	71 201	345 1.175	423 1.230	332 497	440 653	108 53	79 26	26 20	31 7	3 44	1 1	
Utah	52 167	83 212	141	367	166 102	33 13	18 24	5	9	5	3 14	
PACIFIC	3,997	10,847	13,462	3,490	3,355	855	1,065	280	348	64	32	
Wash. Oreg.	420 158	995 202	1,198 354	228 639	467 332	62 37	101 62	80 21	111 16	5	7	
Calif. Alaska	3,279 38	9,095 318	11,267 342	2,544 16	2,449 89	744 5	875 7	169 1	217	54	23	
Hawaii	102	237	301	63	18	7	20	9	4	5	2	
Guam P.R.	- 865	23 216	58 220	1 41	10 27	- 307	- 131	- 189	- 52	-	2	
V.I. Amer. Samoa	19 -	4 8	10 14	- 5	- 4	2	1	-	-	-	-	
C.N.M.I.	-	12	21	14	3	6	-	-	-	-	-	

TABLE II. Cases of selected notifiable diseases, United States, weeks endingMay 27, 1995, and May 28, 1994 (21st 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 April 27, 1995.

					Measles (Rubeola)					1				
Reporting Area	Ly: Dise	me ease	Malaria		Indig	enous	Impo	orted*	То	tal	Meningococcal Infections		Mu	mps
	Cum.	Cum. 1994	Cum.	Cum.	1995	Cum. 1995	1995	Cum.	Cum.	Cum. 1994	Cum.	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	1,631	1,999	350	380	4	156	2	8	164	644	1,413	1,367	351	643
NEW ENGLAND	171	188	14	25	-	4	-	-	4	20	71	59	3	11
Maine N H	2 10	- 6	1	1	-	-	-	-	-	4	5 15	12	2	3
Vt.	2	1	-	1	-	-	-	-	-	<u>i</u>	6	2	-	-
Mass. R.I.	43 28	27 23	4	10 4	-	2 2	-	-	2	5	23	24	-	- 1
Conn.	86	131	8	6	-	-	-	-	-	3	22	16	1	3
MID. ATLANTIC	1,205	1,348	85	57	-	1	2	2	3	177	164	137	52	58
N.Y. City	20	1,099	34	15	-	- 1	2	2	3	4	56 18	42 21	5	- 14
N.J.	136	138	22	16 10	-	-	-	-	-	152	42	33	5	11
FA. EN CENTRAL	20	160	35	10	- 1	- 5	-	- 1	-	75	40 181	200	20 60	33 164
Ohio	15	7	2	45 6	1	1	-	-	1	11	59	51	20	27
Ind.	3	3	2	10 17	-	-	-	-	-	1 45	27 52	38 66	1 19	6 102
Mich.	1	1	6	11	-	2	-	1	3	15	38	23	20	25
Wis.	-	141	2	1	-	2	-	-	2	3	5	22	-	4
W.N. CENTRAL Minn	20	28	8	19 5	-	1	-	-	1	161	85 16	91 9	21	29
lowa	1	1	1	4	-	-	-	-	-	-	16	12	6	7
Mo. N Dak	4	24	3	7	-	1	-	-	1	159	31	41	10	17 1
S. Dak.	-	-	-	-	-	-	-	-	-	-	4	6	-	-
Nebr. Kans	- 15	- 3	1	2	U	-	U	-	-	1	7 11	8 14	3	1
S. ATLANTIC	148	195	82	77	-	1	-	-	1	11	241	210	43	97
Del.	7	22	1	3	-	-	-	-	-	-	2	2	-	-
D.C.	97	58 1	20	34 7	-	-	-	-	-	2 -	14	2	-	- 22
Va.	11	22	15	9	-	-	-	-	-	2	30	35	13	24
N.C.	11	26	6	2	-	-	-	-	-	-	41	35	16	24
S.C.	5	2	- 11	2	-	-	-	-	-	- 2	31 55	9 49	6	6
Fla.	1	4	20	10	-	1	-	-	1	5	63	43 57	8	11
E.S. CENTRAL	9	15	7	10	-	-	-	-	-	28	75	86	14	3
Ky. Tenn	1	10 4	- 2	4	-	-	-	-	-	- 28	25 12	22	-	- 3
Ala.	1	1	5	2	-	-	-	-	-		23	42	4	-
Miss.	2	U	-	U	-	-	-	-	-	U	15	U	6	U
W.S. CENTRAL Ark	32	30	6	13	-	2	-	-	2	12	185 19	152 24	22	138
La.	-	-	1	1	-	-	-	-	-	1	26	20	6	13
Tex.	13	19	3	10	-	-	-	-	-	10	18	96	- 14	100
MOUNTAIN	2	1	25	16	3	42	-	1	43	125	114	102	19	23
Mont.	-	-	2	- 2	-	-	-	-	-	-	2	2	1	-
Wyo.	-	-	-	-	-	-	-	-	-	-	5	5	-	4
Colo.	1	-	14	6	3	3	-	-	3	18	25 25	15	1 N	1 N
Ariz.	-	-	2	1	-	10	-	-	10	-	41	39	5	4
Utah Nev	- 1	-	2	4	-	- 1	-	1	1	107	4	14 4	3	75
PACIFIC	24	34	88	118	-	100	_	4	104	35	, 297	330	117	120
Wash.	1	-	8	11	-	13	-	2	15	-	49	48	10	7
Oreg. Calif.	1 22	2 32	4 68	10 89	-	1 86	-	- 1	1 87	- 33	50 190	74 202	N 97	N 103
Alaska		-	1	-	-	-	-	-	-	-	6	2	8	2
nawali	-	-	/	8	-	-	-	1	Т	2 011	2	4	2	х С
P.R.	-	-	-	-	-	- 7	-	-	- 7	11	12	5	Z -	3 2
V.I. Amor Samoa	-	-	-	-	-	-	-	-	-	-	-	-	2	- 1
C.N.M.I.	-	-	-	- 1	U	-	U	-	-	26	-	-	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending
May 27, 1995, and May 28, 1994 (21st Week)

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

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

Reporting Area				Rubella		Sypl (Prima Secon	hilis ary & idary)	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	60	1,203	1,422	1	35	152	6,236	8,121	6,687	7,634	2,463	2,908
NEW ENGLAND	8	149	150	-	5	102	81	86	112	148	618	773
N.H.	- 1	18	2 37	-	- 1	-	2	4 1	- 5	6	83	89
Vt. Mass	- 7	2 109	21 76	-	- 1	- 101	- 32	- 32	1 71	2	97 254	68 293
R.I.	-	-	3	-	-	101	-	6	2	16	26	5
Conn.	-	7	11	-	3	-	46	43	33	56	158	318
Upstate N.Y.	8	59	98	-	3 1	5 5	354 24	72	1,439	207	594 224	475
N.Y. City	2	22	54 9	1	2	-	187 73	288 96	788 270	913 267	-	133
Pa.	2	19	110	-	-	-	70	95	228	122	220	87
E.N. CENTRAL	1	117	235	-	-	11	1,075	1,277	715	421	6	14
Ind.	-	6	33	-	-	-	91	103	21	78	-	2
III. Mich	- 1	23 38	50 22	-	-	6 5	415 120	431 141	411 153	23 188	2	3
Wis.	-	12	66	-	-	-	67	131	22	23	1	4
W.N. CENTRAL	1	60	49 20	-	-	1	311	529	243	207	123	75
lowa	-	1	4	-	-	-	26	21	33	15	43	29
Mo. N. Dak	-	5 5	13 3	-	-	1	258	450 1	91 1	105 2	14 14	8
S. Dak.	-	7	-		-	-	-	-	18	9	22	11
Nebr. Kans.	1	3 11	3 6	-	-	-	9	30 30	6 41	28	26	16
S. ATLANTIC	2	106	158	-	5	8	1,481	2,273	1,180	1,581	852	764
Del. Md.	-	5 10	- 52	-	-	-	7 24	12 96	- 175	12 132	33 166	16 235
D.C.	-	2	3	-	-	-	51	105	42	41	7	2
W. Va.	-	-	2	-	-	-	1	299	42	38	41	33
N.C. S.C.	1	50 11	44 8	-	-	-	486 276	752 297	117 124	196 174	167 53	82 73
Ga.	-	1	11	-	-	-	191	357	235	295	123	154
FIA. ES CENITRAI	-	20	23 76	-	5	° -	1 7 2 8	347 783	364 440	552 447	75	3 85
Ky.	-	-	52	-	-	-	89	92	53	130	8	5
Ienn. Ala.	-	2 20	13 11	-	-	-	316 261	402 289	162 160	148 169	11 56	34 46
Miss.	-	-	U	-	-	U	1,062	U	65	U	-	U
W.S. CENTRAL	9	58	38 6	-	2	7	903 181	2,079 213	768 75	871 83	37 11	329 14
La.	2	3	5	-	-	-	440	780	-	-	9	41
Okia. Tex.	4	42	20	-	2	4	251	57 1,029	692	97 691	17	258
MOUNTAIN	17	414	154	-	4	2	101	137	240	208	44	49
Mont. Idaho	-	3 72	3 23	-	-	-	3	1	3 6	9 6	17	7
Wyo.	-	-	-	-	-	-	2	-	1	1	13	10
N. Mex.	2 5	24	84 7	-	-	-	63 7	6	4 40	27	2	- 1
Ariz. Utah	9 1	298 10	27 10	-	3 1	- 2	16 3	32 7	115 10	94	10 1	30
Nev.	-	4	-	-	-	-	7	21	61	52	1	1
PACIFIC	10	175	291	-	16	16	202	406	1,550	2,242	114	124
Oreg.	-	30	36 41	-	1	-	6	20 16	23	92 45	-	-
Calif. Alaska	8	122	210	-	13	15	188 1	367 2	1,327 29	1,974 29	110	93 31
Hawaii	2	16	4	-	1	1	-	1	68	102	-	-
Guam	U	-	-	U	-	1	1	3	4	18	-	-
r.n. V.I.	-	ю -	2 -	-	-	-	1	21	00	62	8۱ -	40
Amer. Samoa C.N.M.I.	U U	-	1	U U	-	-	- 2	- 1	2 13	2 15	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks endingMay 27, 1995, and May 28, 1994 (21st Week)

U: Unavailable -: no reported cases

	4	All Cau	ses, By	Age (Y	'ears)		P&I [†]		All Causes, By Age (Years)			'ears)		P&I [†]	
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total	Total Reporting Area		≥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.	530 122 31 19 27 33 21 11 5. 30 51 7 44 51 7 47 24	349 73 10 20 16 13 8 25 32 41 6 29 18	106 28 7 4 13 4 1 5 5 2 10 5	51 14 6 2 3 2 4 1 - 3 6 1 6	10 3 - 1 - 1 - - - - 1	14 4 1 - - 4 2 - 1	30 5 2 · · · 3 · · 4 5 · 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.	1,069 153 147 U 101 128 59 86 41 58 147 145 4	676 92 99 0 68 71 39 54 19 45 97 90 2	207 34 21 19 33 10 18 12 5 23 31 1	127 20 18 U 89 5 9 6 15 20 1	43 5 6 U 5 4 2 5 3 2 7 4 -	14 2 3 U 1 3 - 1 4 -	44 5 6 U 10 1 1 6 7 7 7
Waterbury, Com. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§	24 63 2,395 50 23 114 32 24 51	1,572 1,572 35 17 82 16 17 40	5 15 466 12 5 17 10 5 8	2 259 1 1 13 - 3	3 46 1 2 2 2	1 52 1 - 4 -	5 109 2 - 2 - 1	E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	738 162 77 92 71 190 93 44 9	459 99 50 61 43 103 59 37 7	160 40 18 22 22 37 18 2 1	78 14 8 4 5 30 13 3 1	21 3 1 3 - 11 3 -	19 5 2 1 9 - 2	73 6 9 15 5 9 5 9
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.	55 1,276 61 24 294 57 12 106 24 20 113 41 8 U	34 803 18 13 203 45 85 17 17 82 26 14 U	10 252 23 67 5 3 7 2 3 14 7 3 U	8 164 15 4 19 6 1 1 4 - 13 5 1 U	28 3 1 4 - 1 1 - 1 - 1 U	3 29 2 3 1 1 - 2 - 4 2 - 4 2 - U	42 435 4 5 - 6 8 U	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.	1,594 74 50 214 55 101 443 69 140 233 69 107	989 46 35 23 120 38 67 273 44 77 150 44 72	332 13 10 10 48 11 15 93 15 26 50 19 22	172 9 2 31 4 10 56 2 20 17 5 13	49 1 2 11 1 6 10 5 2 9 1	51 52 1 4 1 2 11 3 15 7	99 1 5 2 6 4 11 30 3 - 22 9 6
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Garand Rapids, Mich Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo. Ohio	2,235 700 23 498 1700 165 161 102 197 43 52 22 169 49 130 38 50 57 124	1,365 400 19 200 120 94 110 74 106 30 41 109 35 99 32 32 32 32 32 39 91	399 23 22 24 40 25 16 40 10 11 7 8 28 6 23 4 10 5 26	2700 6 1 1111 177 95 33 - 5 4 17 5 1 1 5 105	130 90 6 3 5 1 7 - 1 2 8 2 2 1 - 1	71 1 15 4 11 4 2 9 - 1 2 7 1 5 1 2 3 1	132 2 31 15 3 7 8 7 1 4 5 2 3 9 2 2 5 1	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. Pasadena, Calif. Pasadena, Calif. Portland, Oreg.	810 100 50 141 19 146 83 140 1,870 1,870 14 95 24 42 73 649 20 147	548 72 38 63 90 19 96 21 53 96 1,256 68 22 30 53 421 18 103	151 16 7 23 34 27 5 16 23 317 3 15 1 7 14 104 25	70 10 4 9 12 6 11 201 5 4 1 4 5 92 92	28 1 2 4 6 3 5 6 5 1 1 22 6	13 1 3 1 3 4 25 3 - - 6	50 5 8 7 9 1 4 9 157 1 10 3 4 12 32 3 8
Ioledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kans. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	124 63 663 46 20 112 52 174 99 115 45 U	91 50 478 32 17 U 80 41 122 71 76 39 U	26 9 33 6 1 10 5 25 22 19 5 U	5 2 50 4 2 U 7 5 18 3 11 U	1 - - - - - - - - - - - - - - - - - - -	1 2 17 4 - U 3 - 6 - 3 1 U	11 5 54 5 3 U 3 7 18 0 3 5 U	Sacramento, Čalif. San Diego, Calif. San Francisco, Calif San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	U 152 f. 147 173 37 146 49 102 11,904 [¶]	U 95 86 126 32 90 31 75 7,692	U 32 29 2 35 10 16 2,231	U 15 21 15 1 16 6 7 1,278	U 6 1 3 2 - 394	U 4 1 2 4 276	U 22 17 17 7 2 12 748

TABLE III. Deaths in 121 U.S. cities,* week ending May 27, 1995 (21st 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

HIV Transmission — Continued

ter, was not available for testing. Isolates from three of the four dialysis center seroconverters were 100% homologous at the amino acid level. This amino acid homology was not found for isolates from seroconverters compared with controls.

The dialysis center had no written policies about reprocessing patient access needles, dialyzers, or blood lines. Interviews with staff nurses indicated that all dialyzers and blood lines were labeled appropriately and individually reprocessed with 5% formaldehyde while still attached to the machine, placed in separate labeled containers, and stored for reuse only on the same patient. In contrast, patient access needles were reprocessed through the use of a 0.16% solution of benzalkonium chloride; in this procedure, the pairs of access needles for two to four patients were placed unlabeled in a common soaking pan for disinfection, and the disinfectant was changed every 7 days.

As a result of the investigation, changes in procedures implemented at the dialysis center included cessation of reprocessing patient-care equipment and providing HIV counseling to all infected patients. National surveillance was initiated for HIV infection among patients undergoing dialysis, and the Ministry of Health has banned the use of quaternary ammonium compounds for disinfecting intravascular devices.

Reported by: M Velandia, MD, J Boshell, MD, A Iglesias, MD, G Ramírez, MD, National Institute of Health, Advanced Training Program in Applied Epidemiology, Ministry of Health, Bogatá, Colombia. B Rengifo, MD, M Essex, DVM, Dept of Cancer Biology, Harvard School of Public Health, Boston, Massachusetts. V Cárdenas, MD, Field Epidemiology Training Program, International Br, Div of Field Epidemiology, Epidemiology Program Office; Hospital Infections Program, National Center for Infectious Diseases, CDC.

Editorial Note: The epidemiologic and laboratory findings from the investigation described in this report indicate that transmission of HIV in the dialysis center was associated with a common exposure or patient-to-patient transmission. In particular, the investigation implicated receipt of dialysis after an HIV-seropositive patient began dialysis as the most likely risk exposure for infection and suggested that crosscontaminated, inadequately disinfected patient access needles may have been inadvertently shared among HIV-infected and noninfected patients. Benzalkonium chloride, the disinfectant used for reprocessing the needles, is a chemical germicide with low-level activity and is not recommended in the United States for disinfection of intravascular devices (e.g., dialysis access needles) (7).

Previous reports of possible patient-to-patient transmission indicate that potential routes for transmission of HIV in other health-care settings include inadequate reprocessing or inadvertent reuse of hypodermic needles and breaks in universal precautions (8,9). The outbreak in Colombia suggests that, in dialysis centers worldwide, reprocessing of patient-care equipment must conform to established infection-control practices (4,5,7).

The global implementation of dialysis and other advanced medical technologies must be accompanied by rigorous adherence to infection-control practices. Standards and recommendations outlined by the Association for the Advancement of Medical Instrumentation (*10*) and CDC (*4,5,7*), including sterilization before reuse of all intravascular patient-care items (i.e., intravascular access devices), are essential for preventing transmission of bloodborne pathogens such as HBV and HIV.

References

- 1. Dyer E. Argentinian doctors accused of spreading AIDS. Br Med J 1993;307:584.
- 2. Marcus R, Favero MS, Banerjee S, et al. Prevalence and incidence of human immunodeficiency virus among patients undergoing long-term hemodialysis. Am J Med 1991;90:614–9.

HIV Transmission — Continued

- 3. Velandia M, Fridkin SK, V Cárdenas, et al. Transmission of HIV in a dialysis centre. Lancet 1995;345:1417–22.
- 4. Favero MS. Precautions for dialyzing human immunodeficiency virus-infected patients. In: Monkhouse PM, ed. Aspects of renal care. London: Balliere Tindall, 1989:55–61.
- 5. CDC. Recommendations for prevention of HIV transmission in health care settings. MMWR 1987;36 (no. 2S).
- 6. Myers G. Molecular investigation of HIV transmission [Editorial]. Ann Intern Med 1994; 121:889–90.
- 7. CDC. Guidelines for handwashing and hospital environmental control. Atlanta: US Department of Health and Human Services, Public Health Service, 1985.
- 8. Hersh BS, Popovici F, Apetrei RC, et al. Acquired immunodeficiency syndrome in Romania. Lancet 1991;338:645–9.
- 9. Chant K, Lowe D, Rubin G, et al. Patient-to-patient transmission of HIV in private surgical consulting rooms. Lancet 1994;342:1548–9.
- Association for the Advancement of Medical Instrumentation, ed. Recommended practice for reuse of hemodialyzers. Arlington, Virginia: Association for the Advancement of Medical Instrumentation, 1993.

Update: Progress Toward Poliomyelitis Eradication — Socialist Republic of Vietnam, 1993–1994

In 1988, the Western Pacific Region (WPR) of the World Health Organization (WHO) adopted a resolution to eradicate poliomyelitis from the region by the end of 1995. In 1993, the Socialist Republic of Vietnam (1993 population: 70.9 million) accounted for 452 (40%) of the 1147 cases of confirmed polio reported to WPR-WHO. Efforts to eradicate polio in Vietnam were initiated in 1991 using supplementary vaccination activities with oral poliovirus vaccine (OPV). National Immunization Days (NIDs)* were first conducted during November–December 1993. This report updates these efforts and describes the impact of the first NIDs in 1993 (*1*).

National Immunization Days

The first NIDs were conducted during November 13–15 and December 18–20, 1993, targeting children aged <5 years. Two doses of OPV were administered to each of 9.7 million children. An estimated 10%–15% of vaccinated children were aged \geq 5 years; coverage of children aged <5 years with two doses of OPV was 83%–88%. NIDs were repeated during November 12–14 and December 17–19, 1994; two doses of OPV were administered to each of 10.0 million children. An estimated 5%–10% of vaccinated children were aged \geq 5 years; coverage of children were aged \geq 5 years; coverage of children to each of 10.0 million children. An estimated 5%–10% of vaccinated children were aged \geq 5 years; coverage of children aged <5 years with two doses of OPV was 89%–94%. The third NIDs in Vietnam are scheduled for November 11–13 and December 16–18, 1995.

Surveillance for Polio

A surveillance system implemented in Vietnam in 1991 defines a suspected case of polio as acute flaccid paralysis (AFP) in a person aged <15 years. Two stool specimens are collected from each person suspected to have polio at an interval of 24–48 hours to detect the presence of wild poliovirus. Each suspected case is investigated after 60 days to assess for residual paralysis.

^{*}Mass campaigns over a short period (days to weeks) in which two doses of OPV are administered to all children in the target group regardless of prior vaccination history, with an interval of 4–6 weeks between doses.

Vol. 44 / No. 21

MMWR

Poliomyelitis Eradication — Continued

Of 607 persons with AFP reported in 1993, at least one stool specimen was collected for 381 (63%), and polio was confirmed[†] in 452 (74%); wild polioviruses were isolated from 152 persons in 74 (13%) of 560 districts, including 21 in the northern region (Red River Delta), five in the central region, two in the Highlands region, and 46 in the southern region (Mekong Delta). The last person with wild poliovirus isolated in the northern region had onset on November 8, 1993. Of 152 persons with wild poliovirus isolated, 50 (33%) were children aged 0–23 months, and 127 (84%) were children aged <5 years. Of 97 persons aged 1–4 years from whom wild poliovirus was isolated and for whom vaccination status was known, 63 (65%) had received no previous dose or one dose of OPV.

Of 353 persons with AFP reported in 1994, at least one stool specimen was collected for 262 (74%), two stool specimens were collected for 207 (59%), and one stool specimen was collected within 0–14 days of onset of paralysis for 228 (65%); polio was confirmed in 124 (35%) (Figure 1). Wild polioviruses were isolated from 31 persons in 25 districts, including one in the Highlands region and 24 in the southern region (Mekong Delta). The last person with wild poliovirus isolated in the southern region had onset on December 14, 1994. No wild poliovirus was isolated from 164 AFP patients in the northern region and from 22 AFP patients in the central region, of which 132 (80%) and 11 (50%), respectively, had at least one stool specimen collected. A total of 229 AFP cases were determined not to be polio, or 0.8 AFP cases per 100,000 children aged <15 years (a reference rate of \geq 1.0 per 100,000 children aged <15 years is used to define a sensitive AFP surveillance system).

Reported by: Dang D Trach, MD, Tran V Tien, MD, Do S Hien, MD, Phan VD Hang, PhD, Nguyen V Cuong, MD, Nguyen T Yen, MD, Thanh K Dung, MD, Nguyen TH Thanh, PhD, Pham TN Oanh, MD, Expanded Program on Immunization, National Institute of Hygiene and Epidemiology, Hanoi; Le D Hinh, MD, Bach Mai Hospital, Hanoi; Nguyen V Man, MD, Poliomyelitis Vaccine Research and Production Center, Hanoi; Doan T Tam, MD, National Center for Vaccine Quality Control, Hanoi; Ha B Khiem, MD, Pham K Sac, MD, Nguyen TT Thuy, MD, Van TT Binh, MD, Nguyen M Phuong, MD, Vu Q Ai, MD, Phan V Tu, MD, Nguyen T Long, MD, Pasteur Institute, Ho Chi Minh City; Vo C Khanh, MD, Center for Tropical Diseases, Ho Chi Minh City; Nguyen TT Tram, MD, Pasteur Institute, Nha Trang; Nguyen A Phuong, MD, Institute of Hygiene and Epidemiology, Ban Me Thuot, Socialist Republic of Vietnam. Expanded Program on Immunization Unit, Western Pacific Regional Office, World Health Organization, Manila, Philippines. Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Polio Eradication Activity, National Immunization Program, CDC.

Editorial Note: The findings in this report suggest that the first NIDs in Vietnam in 1993 were highly effective in reducing circulating wild poliovirus to low levels, particularly in the northern and central regions of Vietnam. Before the NIDs, wild poliovirus was documented in 74 (13%) of 560 districts. Since implementation of the first NIDs, wild poliovirus has been detected in 25 (4%) districts, including 24 in the southern Mekong Delta region in which the incidence has been the highest. Confirmed cases declined dramatically in all age groups, including among children aged \geq 5 years not targeted during NIDs, indicating that supplemental vaccination with OPV in children aged <5 years may be sufficient to interrupt wild poliovirus circulation in older age groups.

[†]A confirmed case of polio is defined as AFP and at least one of the following: 1) laboratoryconfirmed wild poliovirus infection, 2) residual paralysis at 60 days, 3) death, or 4) lost to follow-up investigation at 60 days. Cases in 1990–1991 were reported by clinicians as confirmed polio before the standard WHO criteria were in use.

Poliomyelitis Eradication — Continued

FIGURE 1. Confirmed cases of poliomyelitis* and supplemental doses of oral poliovirus vaccine (OPV) administered, 1990–1994 and cases of laboratory-confirmed wild poliovirus infection, 1993–1994 — Socialist Republic of Vietnam



*Confirmed cases met the standard World Health Organization (WHO) definition (first applied in Vietnam in 1992) of acute flaccid paralysis and at least one of the following: 1) laboratoryconfirmed wild poliovirus infection, 2) residual paralysis at 60 days, 3) death, or 4) lost to follow-up investigation at 60 days. Cases in 1990–1991 were reported by clinicians as confirmed polio before the standard WHO criteria were in use.

Reported cases of polio and the number of cases of wild poliovirus have declined despite improvement in the sensitivity of surveillance.

The progress toward eradication of polio in Vietnam reflects the collaborative efforts of many organizations, including WHO, Rotary International, United Nations Children's Fund (UNICEF), and government agencies including Japan International Cooperation Agency (JICA), Japan National Institutes of Health, the Australia Agency for International Development (AusAID), CDC, and the government of Luxembourg. Continued progress toward the goal will require successful implementation of at least five strategies: 1) improving the reporting of AFP patients to achieve a rate of \geq 1.0 per 100,000 children aged <15 years in every province (2); 2) increasing to 80% in every province the percentage of AFP patients for whom two stool specimens are obtained within 0-14 days of onset of paralysis; 3) intensifying surveillance and supplemental vaccination in areas with documented or suspected circulation of wild poliovirus (i.e., the Mekong Delta region); 4) using a more specific surveillance case definition based on virologic confirmation of AFP cases; and 5) preventing reimportation of wild poliovirus into Vietnam from neighboring polio-endemic countries (the first NIDs in Cambodia were conducted during February–March 1995). The effectiveness of these strategies to rapidly reduce the circulation of wild poliovirus is indicated by the suc-

Poliomyelitis Eradication — Continued

cessful eradication of wild poliovirus in the Americas (3), the experience in China (4), and the current progress in Vietnam.

References

- 1. CDC. Progress toward poliomyelitis eradication—Socialist Republic of Vietnam, 1991–1993. MMWR 1994;43:387–91.
- Hull HF, Ward NA, Hull BP, Milstien JB, de Quadros C. Paralytic poliomyelitis: seasoned strategies, disappearing disease. Lancet 1994;343:1331–7.
- 3. CDC. Certification of poliomyelitis eradication—the Americas, 1994. MMWR 1994;43:720-2.
- 4. CDC. Progress toward poliomyelitis eradication—People's Republic of China, 1990–1994. MMWR 1994;43:857–9.

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 derived from CDC's National Notifiable Diseases Surveillance System.

	No. cases <i>.</i>	Total Januar	cases ry–April	No. cases among children aged <5 years [†] January–April			
Disease	April 1995	1994	1995	1994	1995		
Congenital rubella syndrome	1	2	3	2	3		
Diphtheria	0	1	1 [§]	1	0		
Haemophilus influenzae [¶]	125	380	453	104	105		
Hepatitis B**	973	3842	2905	48	25		
Measles	22	347	150	61	54		
Mumps	78	503	257	56	53		
Pertussis	274	1185	1001	600	509		
Poliomyelitis, paralytic ^{††}	0	0	0	0	0		
Rubella	10	140	25	10	4		
Tetanus	3	12	8	0	0		

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

*Data for 1994 and 1995 are provisional.

[†]For 1994 and 1995, age data were available for ≥90% or more cases, except for 1995 age data for measles, which were available for 88% of cases.

[§]This person had onset during October 1994.

[¶]Invasive disease; *H. influenzae* serotype is not routinely reported to the National Notifiable Diseases Surveillance System. Of 105 cases among children aged <5 years, serotype was reported for 24 cases, and of those, 15 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 of 1993 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.

Director, Centers for Disease Control and Prevention	Editor, <i>MMWR</i> Series Richard A. Goodman, M.D., M.P.H.
David Satcher, M.D., Ph.D.	Managing Editor, MMWR (weekly)
Deputy Director, Centers for Disease Control	Karen L. Foster, M.A.
and Prevention	Writers-Editors, MMWR (weekly)
Claire V. Broome, M.D.	David C. Johnson
Director, Epidemiology Program Office	Darlene D. Rumph-Person
Stephen B. Thacker, M.D., M.Sc.	Caran R. Wilbanks

☆U.S. Government Printing Office: 1995-633-175/05074 Region IV