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Current Trends

Unintentional Poisoning Mortality - United States, 1980-1986

March 19–25, 1989, marks the 28th annual observance of National Poison Prevention Week (NPPW). NPPW is intended to alert the public to the problem of unintentional poisoning (the ingestion, injection, inhalation, or absorption of a chemical agent that results in unanticipated illness or death), the fifth leading cause of unintentional injury deaths in the United States. The traditional goal of NPPW is prevention of poisoning among children. Although childhood poisoning mortality has decreased in recent years, morbidity associated with poisoning in this age group remains a major public health problem. In 1987, 731,954 poisoning exposures among children <6 years of age were reported to the American Association of Poison Control Centers' National Data Collection System; 22 of these children died, and 107,844 others became ill (1). The number of exposures to household medicines and chemicals can be reduced by more widespread use of safety-packaged products by parents and other caretakers of children. The following report focuses on unintentional poisoning mortality among young adults, including poisonings from both the medical and nonmedical use of drugs.

Unintentional poisoning deaths in the United States were analyzed for 1980–1986 using final mortality data from CDC's National Center for Health Statistics (NCHS).* Age-adjusted mortality rates were directly standardized to the 1980 U.S. population.

From 1980 through 1986, the mortality rate of unintentional poisonings in the United States increased from 1.9 to 2.3 deaths/100,000 population (Figure 1). This 7-year trend appears to be explained by a 49% increase in the rate of deaths from drug poisoning, including drugs used for both medical and nonmedical purposes. Mortality rates of unintentional poisoning by other solids and liquids and by gases and vapors decreased by 15% and 25%, respectively, during 1980–1986. In 1986, the

^{*}NCHS codes the underlying cause of death according to the International Classification of Diseases (ICD). The ICD Ninth Revision (ICD-9) has been in use since the beginning of 1979. NCHS uses the ICD-9 codes E850–E858 for unintentional drug poisoning deaths, such as overdoses, regardless of whether the drug was administered for medical reasons. NCHS codes other drug-related deaths as deaths due to drug dependence (ICD-9 code 304), nondependent drug abuse (305.2–305.9), suicide by drugs (E950.0–E950.5), and poisoning by drugs in which the intentions of the decedent are undetermined (E980.0–E980.5).

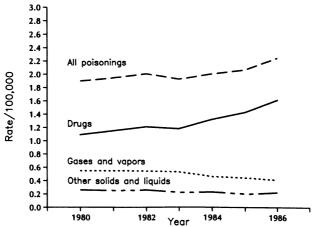
Unintentional Poisoning - Continued

most recent year for which NCHS mortality data are available, drug poisonings accounted for 1.6 deaths/100,000 persons and 73% of all unintentional poisoning deaths (Table 1).

In 1986, the leading causes of fatal unintentional drug poisonings were opiates and related narcotics and local anesthetics including cocaine (Table 2). Most of the fatal poisonings by other solids and liquids were due to alcohol ingestion (352 deaths). Exposure to motor vehicle exhaust (475 deaths) accounted for nearly half the deaths due to unintentional poisoning by gases and vapors.

The mortality rate of unintentional poisonings for males remained more than twice that for females during 1980–1986 (Table 3). The rates for blacks of both sexes were consistently higher than those for whites. In 1986, the rate for black males was 5.4 deaths/100,000 persons, and for white males, 3.2 deaths/100,000 persons.





*ICD-9 codes: drugs (E850–E858), other solids and liquids (E860–E866), gases and vapors (E867–E869).

TABLE 1. Number of deaths associated with unintentional poisoning	ngs, by type of
poisoning* and year – United States, 1980–1986	

		oning		
Year	Drugs	Other solids & liquids	Gases & vapors	Total
1980	2492	597	1242	4331
1981	2668	575	1280	4523
1982	2862	612	1259	4733
1983	2866	516	1251	4633
1984	3266	542	1103	4911
1985	3612	479	1079	5170
1986	4187	544	1009	5740

*ICD-9 codes corresponding to type of unintentional poisoning: drugs (E850–E858), other solids and liquids (E860–E866), gases and vapors (E867–E869).

Unintentional Poisoning - Continued

Type of drug	Deaths	ICD-9 code(s)
Opiates and related narcotics	930	E850.0
Local anesthetics including cocaine	624	E855.2
Nonnarcotic analgesics	349	E850.1-E850.9
Cardiovascular drugs	263	E858.3
Other psychotropic drugs	222	E851-E853, E854.1-E854.3
Antidepressants	154	E854.0
Antibiotics and other anti-infectives	69	E856, E857
Other drugs acting on the central		
and autonomic nervous systems	61	E855.0-E855.1, E855.3-E855.9
Other specified drugs	822	E858.0-E858.2, E858.4-E858.8
Unspecified drugs	693	E858.9
All	4187	E850-E858

TABLE 2. Number of deathsⁱ from unintentional drug poisonings, by type of drug – United States, 1986

TABLE 3. Unintentional poisoning deaths* and mortality rates per 100,000 population, by decedents' sex and age - United States, 1980-1986

Sex & age	19	80	19	82	19	84	19	86
group (yrs)	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Male								
04	63	0.8	57	0.6	60	0.7	51	0.6
5—9	13	0.2	10	0.1	10	0.1	14	0.2
10–19	217	1.1	161	0.8	145	0.8	175	1.0
20–29	930	4.5	1052	5.0	1002	4.7	1077	5.1
30–39	609	3.9	846	5.0	1074	5.9	1448	7.4
4049	346	3.1	363	3.2	382	3.1	535	4.2
5059	305	2.8	288	2.6	290	2.7	287	2.7
≥60	404	2.7	447	2.8	456	2.8	513	3.0
Total [↑]	2890	2.6	3224	2.9	3419	3.0	4105	3.5
Age-adjusted ^s		2.7		2.8		2.9		3.3
Female								
04	42	0.5	47	0.6	38	0.4	42	0.5
5–9	10	0.1	11	0.1	12	0.2	10	0.1
10–19	105	0.5	82	0.4	73	0.4	74	0.4
20–29	292	1.4	292	1.4	318	1.5	304	1.4
30–39	219	1.4	254	1.5	290	1.6	380	1.9
4049	171	1.5	205	1.7	183	1.4	207	1.5
5059	205	1.7	206	1.7	181	1.5	153	1.3
≥60	397	1.9	410	1.9	395	1.8	464	2.0
Total [†]	1441	1.2	1507	1.3	1490	1.2	1635	1.3
Age-adjusted⁵		1.2		1.2		1.2		1.2

*ICD-9 codes corresponding to unintentional poisonings are E850–E869.

[†]Includes decedents with unknown ages.

Standardized to the 1980 U.S. census population.

Unintentional Poisoning - Continued

The highest mortality rates of unintentional poisonings for both blacks and whites were for young adult men (20–39 years of age). Men in this age group accounted for 40% of all unintentional poisoning deaths and 46% of all unintentional drug poisoning deaths during 1980–1986. In 1986, among young adult men, unintentional drug poisonings were responsible for 2065 deaths or 5.1 deaths/100,000 persons, an 85% increase from 1980.

In 1986, the leading causes of fatal unintentional drug poisonings for young adult men were opiates and related narcotics (619 deaths) and local anesthetics including cocaine (436 deaths). By comparison, in 1980, among young adult men, 213 deaths resulted from poisoning by opiates and related narcotics, and 73 deaths, from poisoning by local anesthetics including cocaine. In 1980 and 1986, additional deaths occurred among young adult men from unintentional poisonings by drug combinations, and an unknown number of these deaths involved opiates or cocaine.[†]

The mortality rate for unintentional poisonings among children <15 years of age was 0.3 deaths/100,000 persons in 1986, a 10% decrease from 1980. In 1986, 147 such deaths occurred among children <15 years of age, including 62 deaths from gases and vapors and 54 from drugs.

Reported by: Biometrics Br and Program Development and Implementation Br, Div of Injury Epidemiology and Control, Center for Environmental Health and Injury Control, CDC.

Editorial Note: Unintentional poisoning mortality is predominantly a problem of young adults, particularly men 20–39 years of age. NCHS data indicate that the misuse of drugs, primarily opiates and related narcotics and cocaine, was responsible for a substantial increase in such deaths among men in this age group from 1980 through 1986. The impact of drug use on mortality is only partially conveyed by enumeration of unintentional poisoning deaths (2). The mortality rate for young adult men rose during 1980–1986 for deaths attributed to drug dependence, nondependent drug abuse, and poisoning by drugs in which the intentions of the decedent are undetermined. For suicide by drugs, the mortality rate in young adult men remained nearly constant (1.6 deaths/100,000 persons in 1986) (NCHS, unpublished data).

The National Institute on Drug Abuse (NIDA) has reported increases in morbidity and mortality associated with nonmedical use of both heroin/morphine and cocaine during 1985–1987 (3). Through its Drug Abuse Warning Network (DAWN), NIDA monitors emergency departments and medical examiners' offices in selected locations for drug-related emergency visits and deaths. In 1987, cocaine was the most frequently reported drug involved in emergency visits, and heroin/morphine and cocaine each were involved in more than one third of deaths reported to DAWN. According to DAWN data for 1987, persons 20–39 years of age accounted for 70% of all drug-abuse emergency visits and 65% of all drug-abuse deaths (4).

Reducing unintentional poisoning mortality among young adults requires prevention programs and treatment efforts that focus on the use of illicit drugs. Although medical complications of illicit drug use often emerge early in adulthood, initiation of drug use during adolescence is an important risk factor for later hazardous use. This suggests that deterring or even delaying initiation of drug use among adolescents is an appropriate goal of prevention (5). However, the recent increase in unintentional drug poisoning deaths among young adults underscores the need for drug education and treatment that focus on illicit drug users who are 20–39 years of age.

[†]The ICD-9 code for unintentional poisoning by drug combinations is E858.8.

Unintentional Poisoning - Continued

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Perspectives in Disease Prevention and Health Promotion

State-to-State Variation in Screening Mammograms for Women 50 Years of Age and Older – Behavioral Risk Factor Surveillance System, 1987

The National Cancer Institute and the American Cancer Society (ACS) recommend that women \geq 50 years old have an annual screening mammogram and that women aged 40–49 years have a mammogram every 1–2 years (1,2). Based on data from the 1987 Behavioral Risk Factor Surveillance System (BRFSS), the percentages of women \geq 50 years old who had had a screening mammogram in the preceding 12 months were estimated by state for the 33 participating states.

During 1987, all women who were interviewed for the BRFSS were asked a series of questions about mammograms. The percentage of women who reported having had a screening mammogram increased substantially during 1987 (3). To assess whether all states participated equally in the movement toward increased use of screening mammograms, the quarterly trend in the percentage of women screened during 1987 was determined by state of residence.

In the BRFSS, each participating health department administers monthly random digit-dialed telephone interviews to persons \geq 18 years old (4). Questionnaires are standardized to allow comparisons of results among states. Of the contacts made with eligible respondents, the median response rate for the 33 participating states was 83%.

The questions about mammography addressed knowledge of, experience with, and reasons for mammography. Since mammograms administered because of a breast problem or a personal history of breast cancer were not considered screening mammograms, women who had mammograms for these reasons were excluded from this analysis.

Screening Mammograms - Continued

Each woman was also asked about visits to a physician for routine preventive care. Because most mammograms are done in the context of routine preventive care provided by a physician, the results presented are limited to women who had seen a physician for a routine examination during the year preceding the interview. The data were weighted to account for the age and race distribution of women residing in each state and for the respondents' probability of selection. Therefore, the results are representative of the total population of women \geq 50 years old who reside in the 33 states surveyed.

Estimates of the percentages of women screened varied threefold, from 15% in Indiana to 46% in New Hampshire (median 30%). The 33 states were divided into terciles based on the percentage of women who reported having had a screening mammogram in the last year (Table 1).

When estimates of the percentages of women screened were examined by quarter of interview and tercile of the interviewee's state of residence, states in the third (lowest) tercile had the smallest absolute and relative increase in the percentage of women screened, whereas states in the first and second terciles of screening prevalences had greater increases in the percentages of women who reported being screened (Figure 1, Table 2). Thus, in 1987, the states in the third tercile appeared to be falling behind the states in the first and second terciles.

Reported by: The following state BRFSS coordinators: R Strickland, Alabama; T Hughes, Arizona; L Parker, California; M Rivo, District of Columbia; S Hoecherl, Florida; JD Smith, Georgia; E Tash, Hawaii; J Mitten, Idaho; B Steiner, Illinois; S Joseph, Indiana; K Bramblett, Kentucky; R Schwartz, Maine; A Weinstein, Maryland; L Koumijian Yandel, Massachusetts; N Salem, Minnesota; N Hudson, Missouri; R Moon, Montana; R Thurber, Nebraska; K Zaso, New Hampshire; L Pendley, New Mexico; H Bzduch, New York; C Washington, North Carolina; B Lee, North Dakota; E Capwell, Ohio; J Cataldo, Rhode Island; D Lackland, South Carolina; L Post, South Dakota; D Riding, Tennessee; J Fellows, Texas; C Chakley, Utah; K Tollestrup, Washington; R Anderson, West Virginia; R Miller, Wisconsin. Office of Surveillance and Analysis, Center for Chronic Disease Prevention and Health Promotion, CDC.

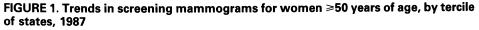
First tercile		Second tercil	e	Third tercile		
State	%	State	%	State	%	
New Hampshire	46	Alabama	31	Maryland	28	
District of Columbia	39	Maine	31	Idaho	27	
Massachusetts	37	North Carolina	31	South Carolina	26	
Wisconsin	36	South Dakota	30	Kentucky	25	
California	36	Illinois	30	Tennessee	24	
Minnesota	36	Montana	30	Missouri	23	
Florida	36	Hawaii	30	New Mexico	23	
Washington	35	Georgia	30	Ohio	21	
Utah	32	Arizona	29	Nebraska	20	
Rhode Island	32	New York	29	West Virginia	19	
North Dakota	32	Texas	29	Indiana	15	

TABLE 1. Percentage of women aged \geq 50 years who saw a physician for a routine examination and had a screening mammogram in the last year, by state – Behavioral Risk Factor Surveillance System, 1987

Screening Mammograms - Continued

Editorial Note: Explanations for the wide state-to-state variation in the percentage of women \geq 50 years old who reported having had a screening mammogram in the last year may reflect several factors, including differences in physician practices concerning preventive care, the proportions of women who have insurance coverage for screening mammograms, the socioeconomic status of the populations of the states surveyed, the impact of media events during 1987 (*3*), and state programs' efforts to increase public awareness about screening for breast cancer and use of specific campaigns to promote mammography. For example, in 1987, the Rhode Island Department of Health implemented a broad-based effort to promote the use of screening mammograms (*5*). In the District of Columbia, with funding from ACS and the cooperation of the Commission of Public Health and several local hospitals, a free cancer screening and mammogram campaign was conducted during 1986. Subsequently, six hospitals and radiology centers now offer screening mammograms for \leq \$50.00; two offer screening for only \$25.00 (*6*).

The increases in the percentages of women screened during 1987 are encouraging. Based on the quarterly trends, however, states in the lowest tercile also had the smallest increases in screening activity. Continued use of the BRFSS to monitor these



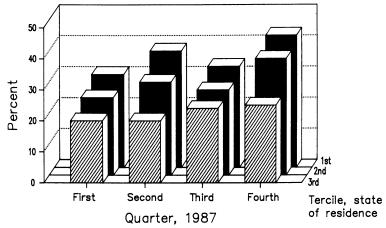


TABLE 2. Quarterly trends in the percentage of women aged ≥50 years who had a
screening mammogram in the last year, by tercile of state of residence – Behavioral
Risk Factor Surveillance System, 1987

		Percentage by quarter (Q	Percentage increase			
Tercile of states	Q1 (n = 1998)	Q2 (n=2100)	Q3 (n = 2149)	Q4 (n = 2155)	Absolute (Q4-Q1)	Relative ([Q4-Q1]/Q1)
First	30	38	33	43	13	43
Second	24	30	27	38	14	58
Third	20	20	24	25	5	25
All states	24	30	28	35	11	46

Screening Mammograms - Continued

trends may help identify programs of state health agencies that successfully promote the use of screening mammograms, and knowledge about their programs can then be used to promote screening mammograms on a broader scale. *References*

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	10	th Week End	ing	Cumulati	ve, 10th We	ek Ending
Disease	Mar. 11, 1989	Mar. 12, 1988	Median 1984-1988	Mar. 11, 1989	Mar. 12, 1988	Median 1984-1988
Acquired Immunodeficiency Syndrome (AIDS) Aseptic meningitis Encephalitis: Primary (arthropod-borne	212 96	U* 95	196 90	5,725 783	5,882 790	2,106 823
& unspec) Post-infectious	10	15	13 1	101 14	139 13	148 13
Gonorrhea: Civilian Military	12,150 103	12,442 165	15,316 358	125,831 1,949	132,641 2,409	156,799 3,294
Hepatitis: Type Á Type B	750 392	497 413	460 530	6,418	4,576	4,407 4,525
Non A, Non B Unspecified	51 50	49	74	3,670 430	3,719 447	592 814
Legionellosis	18	56 13	88 1 <u>3</u>	509 166	402 158	134
Leprosy Malaria	16	12	7 14	24 185	25 128	44 128
Measles: Total [†] Indigenous	244 238	64 53	71 57	1,007 957	382 349	443 367
Imported Meningococcal infections	6 72	11 75	9 83	50 623	33 704	52 657
Mumps Pertussis	116 28	185 94	98 39	994 325	985 386	696 346
Rubella (German measles) Syphilis (Primary & Secondary): Civilian	2 755	3 835	8 535	40 7,596	45 6.908	51 5,477
Toxic Shock syndrome Military	11	15 5	3	59 56	50 55	46 55
Tuberculosis	367	381	460	3,218	3,265	3,381 16
Tularemia Typhoid Fever	10	7	27	10 59	19 64	45
Typhus fever, tick-borne (RMSF) Rabies, animal	1 66	1 77	1 77	19 685	14 557	10 757

TABLE I. Summary - cases of specified notifiable diseases, United States

TABLE II. Notifiable diseases of low frequency, United States

	Cum. 1989		Cum. 1989
Anthrax Botulism: Foodborne (Upstate N.Y. 3, Calif. 1) Infant Other Brucellosis Cholera Congenital rubella syndrome Congenital syphilis, ages <1 year Diphtheria	6 2 2 5 - 1 -	Leptospirosis Plague Poliomyelitis, Paralytic Psittacosis (N.C. 1, Fla. 1, Upstate N.Y. 1, Calif. 1) Rabies, human Tetanus Trichinosis (Mass. 1)	22 - 17 - 8 2

*Because AIDS cases are not received weekly from all reporting areas, comparison of weekly figures may be misleading. *Six of the 244 reported cases for this week were imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

		Aseptic			C		н	epatitis	(Viral), by	type	Lanianst	
Reporting Area	AIDS	Menin- gitis	Primary	Post-in- fectious	Gono (Civi	rrhea lian)	A	В	NA,NB	Unspeci- fied	Legionel- Iosis	Leprosy
	Cum. 1989	Cum. 1989	Cum. 1989	Cum. 1989	Cum. 1989	Cum. 1988	Cum. 1989	Cum. 1989	Cum. 1989	Cum. 1989	Cum. 1989	Cum. 1989
UNITED STATES	5,725	783	101	14	125,831	132,641	6,418	3,670	430	509	166	24
NEW ENGLAND	274	35	3	-	3,504	3,965	134	232	26	19	13	2
Maine	18	1	1	-	57	96	4	11	3	-	2	-
N.H. Vt.	7	1	-	-	39 17	69 36	25 3	16 5	5 2	1	-	-
Mass.	131	14	1		1,386	1,334	49	146	10	15	9	2
R.I. Conn.	16	12	-	-	304	335	1	23	2	1	2	-
	100	7	1	-	1,701	2,095	52	31	4	2	-	-
MID. ATLANTIC Upstate N.Y.	1,530 189	117 37	10 6	1 1	18,699 3,058	19,288 2,315	951 232	586 145	42 14	51 2	46 16	1
N.Y. City	732	20	ĭ	-	8,250	8,350	68	145	9	38	1	-
N.J. Pa.	467	-	3	-	2,818	3,108	104	96	11	5	4	-
	142	60	-	-	4,573	5,515	547	198	8	6	25	1
E.N. CENTRAL Ohio	594 95	112 29	35 11	-	22,115 5,915	22,108 5.122	336 80	435 120	41 6	15 1	45 26	-
Ind.	140	36	9	-	1,420	1,978	12	74	1	1	10	-
HI.	234	4	2	-	7,206	6,256	130	55	3	7	-	-
Mich. Wis.	97	38	10	-	6,428	7,019	87	141	21	6	5	-
	28	5	3		1,146	1,733	27	45	10	•	4	-
W.N. CENTRAL Minn.	147 32	27 4	3	1	5,300 556	5,156 685	137 11	88 24	12 1	3 2	5 2	-
lowa	19	7	2	-	454	383	16	11	4	-	1	-
Mo.	81	7	-	-	3,196	2,910	63	38	2	1	-	-
N. Dak. S. Dak.	1 3	2	- 1	-	21 48	40 110	1	3 3	2 3	-		-
Nebr.	2	2	-	-	307	316	27	4	-	-	2	-
Kans.	9	5	-	-	718	712	19	5	-	-	•	-
S. ATLANTIC	1,309	172	14	3	35,164	35,797	479	776	59	85	22	-
Del.	25	5	-	-	518	540	15	33	-	1	3	-
Md. D.C.	181 80	16 3	3	-	3,263 2,292	3,685 2,348	111	145 1	11	12	8	-
Va.	135	37	5	-	3,151	2,643	31	60	10	44	1	-
W. Va.	8	2	2	-	285	298	6	18	1	1	:	-
N.C. S.C.	103 56	25 6	1	1	5,295 3.300	5,572 2,490	93 7	220 89	25	3	7	-
Ga.	216	13		-	6,693	6,987	86	75	3	4	1	-
Fla.	505	65	3	2	10,367	11,234	130	135	8	20	2	-
E.S. CENTRAL	136	80	9	1	10,472	10,087	57	271	39	1	5	-
Ky. Tenn.	26 44	21 10	2	1	954	873 3,133	25 13	69 142	14 9	-	1 3	-
Ala.	41	40	7	-	3,475 3,195	3,592	12	54	15	1	1	-
Miss.	25	9	-	-	2,848	2,489	7	6	1	-	-	-
W.S. CENTRAL	478	38	7	-	13,982	15,613	634	254	25	111	7	5
Ark.	18	3	-	-	1,434	1,328	29	10 30	1	-	•	-
La. Okla.	85	3 7	1 3	-	2,861 1,299	3,759 1,310	44 93	30	27	5	6	-
Tex.	375	25	3	-	8,388	9,216	468	175	15	106	ī	5
MOUNTAIN	199	30	4	-	2,583	2,789	1,069	239	49	50	10	1
Mont.	-	-	-	-	44	76	11	14	1	-	2	1
ldaho Wyo.	2 5	-	-	-	42 28	72 41	51 6	19 1	3	2	-	-
Colo.	63	7	1	-	488	721	144	35	16	25	1	-
N. Mex.	11	4	-	-	265	282	107	45	8	1	2	-
Ariz. Utah	48 15	14 4	2 1	-	983 100	890 130	594 69	76 15	9 7	18 3	5 2	:
Nev.	55	1	-	-	633	577	87	34	5	ĩ	-	-
PACIFIC	1,058	172	16	8	14,012	17,838	2.621	789	137	174	13	15
Wash.	104			-	1,087	1,365	528	112	29	9	1	-
Oreg. Calif.	47 .904	160	14	- 8	535 12,098	600 15,446	445 1,395	66 600	13 92	1 162	12	13
Alaska	.904	100	14	-	203	237	222	10	3	2		-
Hawaii	ĩ	12	-	-	89	190	31	1	-		-	2
Guam	-	-	-	-	-	30	-	-	-	-	-	-
P.R.	255	27	1	-	176	321	13	55	4	4		3
V.I. Amer. Samoa	15	-	-	:	111	68 12	-	3	-	-		-
C.N.M.I.	-	-	-	-		13	-					

TABLE III. Cases of specified notifiable diseases, United States, weeks ending March 11, 1989 and March 12, 1988 (10th Week)

N: Not notifiable

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•	r		Mone	les (Rub			Menin-					T			
Reporting Area	Malaria	India	enous	Impo		Total	gococcal Infections	Mu	mps	1	Pertussi	8		Rubella	1
Reporting Area	Cum. 1989	1989	Cum. 1989	1989	Cum. 1989	Cum. 1988	Cum. 1989	1989	Cum. 1989	1989	Cum. 1989	Cum. 1988	1989	Cum. 1989	Cum. 1988
UNITED STATES	185	238	957	6	50	382	623	116	994	28	325	386	2	40	45
NEW ENGLAND	13	3	16	:	5	1	50	-	8	-	12	50	-	-	-
Maine N.H.	1		-	-	-	-	8 9	:	6	-	4 5	11 16	-	-	-
Vt. Mass.	- 9	:	:	-	3	1	3 17	•	1	-	1	16	-	-	:
R.I.	2	1	14	-	2	-	1	-	-	-	2		-	-	-
Conn.	1	2	2	-	-	-	12	•	1	-	-	7	-	-	•
MID. ATLANTIC Upstate N.Y.	25 8	2	44 3	4 4†	20 6	81	65 26	4	41 12	1	30 12	14 6	:	2	1
N.Y. City	11	2	6	-	13	8	15	-	-	-	-	-	-	1	:
N.J. Pa.	3 3	:	26 9	-	1	73	7 17	2	11 18	1	14 4	2 6	-	-	1
E.N. CENTRAL	11	13	76	-	2	20	70	24	101	2	17	42	2	4	20
Ohio Ind.	4	:	44	•	1	-	38 6	7	8	-	1	8	-	-	-
III.	3	13	32	-	-	9	9	14	10 38	2	6	15 3	2	3	16
Mich. Wis.	1 2	:	-	:	1	11	11 6	3	37 8	-	4	7	-	1	4
W.N. CENTRAL	3	-	62		1		13	2	216	-	6 7	9 29	-	'	
Minn.	2	•	-	•	-	•	4	-	-		-	29	-	-	-
lowa Mo.	- 1	:	- 60	-	:	-	1	2	7 31	-	6	13 3	-	-	:
N. Dak. S. Dak.	•	•	-	-	•	-	-	-	-	-	-	6	-	-	-
Nebr.	-	-	:	-	:	:	2 5	:	1	-	-	2	-	-	-
Kans.	-	-	2	•	1	-	1	-	177	-	1	2	-	-	-
S. ATLANTIC Del.	37 1	2	89	1	4	78	102	6	134	3	24	36	-	-	-
Md.	10	-	3	11	2	2	20	:	- 59	-	2	2 6	-	:	
D.C. Va.	3 4	:	:	:	2	- 22	6 10	- 4	29	-	-	-	-	-	-
W. Va.	1	:		-	-	2	2	4	30 3	-	3 1	2	2	-	-
N.C. S.C.	9	2	86	:	:	1	15 9	1	6 4	-	10	16	-	-	:
Ga.	3	•	-	-	-		14	i	1	3	4	7	-		-
Fla.	6	•	-	•	•	51	26	•	2	•	4	3	-	· -	•
E.S. CENTRAL Ky.	3	:	2 1	:	:	2	24 15	7	50 9	4	19	8	:	:	:
Tenn.	:	•	-	•	-	•	-	-	13	-	5	6	-	•	-
Ala. Miss.	2 1	:	1	-	:	2	7 2	1 N	4 N	4	14	2	-	:	
W.S. CENTRAL	6	173	433	-	9	8	52	53	316	_	4	11		5	1
Ark. La.	-	-	-	-	2		1	3	40	-	1	2	-	•	1
Okia.	1	5	15	-	:	8	9 5	:	92 58	:	3	2 7	:	:	-
Tex.	5	168	418	-	7	•	37	50	126	•	•	•	-	5	-
MOUNTAIN Mont.	10	:	13 12	-	3 1	109	17	7	33	11	159	127	-	1	2
Idaho	2	-	-	-	i	:	1	:	1 2	2	10	115	-	•	•
Wyo. Colo.	1	:	:	:	1	- 109	-	•	- 3	•	- 6	1 2	:	:	1
N. Mex.	i	•	-	-	-	-	1	N	Ň	1	2	-	-	-	:
Ariz. Utah	2	:	1	:	:	-	8	6 1	24 1	6 2	137 3	1	:		-
Nev.	3	•	-	-	-	-	-		2		1	1		1	1
PACIFIC	77	45	222	1	6	83	230	13	95	7	53	69	-	28	21
Wash. Oreg.	1 2	:	-	-	1	1	17 15	- N	9 N	3	8 1	11	-	-	-
Calif. Alaska	73	45	221	1†	2	80	196	13	81	3	44	37	•	28	18
Hawaii	1	-	1	-	3	2	2	-	- 5	-	2	2 19	-		3
Guam	-	υ	-	υ	-	1	-	υ	-	υ	-		U	:	1
P.R. V.I.	-	15	87	-	•	23	2	-	1	-	2	1	1	2	-
Amer. Samoa	-	U	-	U	-	-	-	Ū	2	Ū	-	-	U	-	-
C.N.M.I.	-	U	•	U	-	-	-	U	•	U	-	-	U		

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending March 11, 1989 and March 12, 1988 (10th Week)

*For measles only, imported cases includes both out-of-state and international importations. N: Not notifiable U: Unavailable ¹International [§]Out-of-state

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Reporting Area		: (Civilian) : Secondary)	Toxic- shock Syndrome	Tuberc	ulosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Anima
	Cum. 1989	Cum. 1988	Cum. 1989	Cum. 1989	Cum. 1988	Cum. 1989	Cum. 1989	Cum. 1989	Cum. 1989
UNITED STATES	7,596	6,908	56	3,218	3,265	10	59	19	685
NEW ENGLAND	302	206	1	71	55	-	9	-	1
Maine N.H.	-	2 2	1	1 4	2	-	-	-	:
Vt.	-	-	-	1	-	-	•	-	-
Mass. R.I.	103 9	76 7	-	29 14	31 7	-	4 4	-	-
Conn.	190	119	-	22	15		1	-	1
MID. ATLANTIC	1,495	1,317	11	639	715	1	11	3	95
Upstate N.Y.	121	78	1	19	122	-	1	1	-
N.Y. City N.J.	807 270	888 145	1 4	439 79	347 113	-	9	-	-
Pa.	297	206	5	102	133	1	1	2	95
E.N. CENTRAL	293	217	10	393	386	1	4	-	9
Ohio	21	18	6	69	78	-	-	-	•
Ind. III.	11 145	17 110	3	26 166	32 160		1 1	-	2
Mich.	111	66	1	118	94	-	2	-	1
Wis.	5	6	-	14	22	1	-	-	6
W.N. CENTRAL	67	32	11	84	85	2	2	1	64
Minn. Iowa	6 11	3 3	3 3	22 12	16 9	-	2	1	27
Mo.	32	17	ĭ	25	34	2	-	-	3
N. Dak. S. Dak.	-	1	1	2 6	2 11	-	-	-	5 20
Nebr.	10	4	3	5	4	-		-	20
Kans.	8	4	-	12	9	-	-	-	3
S. ATLANTIC	2,864	2,419	4	688	708	1	5	11	239
Del.	34	34	-	4	7	-	•	-	2
Md. D.C.	155 171	116 108	-	57 40	56 34	-	2	1	46 1
Va.	115	76	-	66	87	1	-	-	58
W. Va. N.C.	3	1	Ā	17 62	17 40	-	2	10	17
S.C.	165 141	164 111	4	77	79	-	-	-	38
Ga.	623	376	-	75	112	-	:	-	39
Fla.	1,457	1,433	-	290	276	•	1	-	38
E.S. CENTRAL Ky.	464	405	1	257 72	259 83	1	1	2 2	56 29
Tenn.	13 151	12 162	-	58	48	-		-	29
Ala.	182	131	1	98	86	-	•	-	18
Miss.	118	100	-	29	42	•	•	•	-
W.S. CENTRAL Ark.	1,017	738	2	342 42	341 33	1	4	1	109 10
La.	88 212	22 127	1	50	50		1	-	-
Okla.	14	34	1	21	39	1		1	9
Tex.	703	555	-	229	219	-	3	-	90
MOUNTAIN Mont.	155	129	3	82 4	56	1	•	1	24 14
Idaho	-	2	1	3		-	-	-	
Wyo.	1		-	-	-	1	•	:	1
Colo. N. Mex.	8 4	24 13	1	14	12 15	-		1	6
Ariz.	39	28	i	47	18	-		-	2
Utah Nev.	5	6	-	14	11	-	-	-	1
	98	56					-	-	
PACIFIC Wash.	939 27	1,445 45	13	662 37	660 34	2	23	-	88
Oreg.	51	45 51	-	22	25	-	-	-	-
Calif. Alaska	856	1,342	12	565	560	2	23	-	47 41
Hawaii	1	1 6	1	8 30	8 33	-	-	-	41
Guam	•	-	-	-	-	-	-	-	-
P.R.	83	106	-	37	33	-	-	-	8
V.I. Amer. Samoa	1	1	-	-	2 2	-	-	-	-
	_	-	-	-	2	-	-	-	-

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending March 11, 1989 and March 12, 1988 (10th Week)

U: Unavailable

							1	All Causes, By Age (Years)					r		
Reporting Area						P&I** Reporting Area							P&I**		
	Ages	≥65	45-64	25-44	1-24	<1	Total	, ,	Ages	≥65	45-64	25-44	1-24	<1	Total
NEW ENGLAND	745	524	133	58	15	15	69	S. ATLANTIC	1,469	926	292	152	49	49	77
Boston, Mass.	207	131	43	19	7	7	35	Atlanta, Ga.	156	81	42	19	8	6	6
Bridgeport, Conn.§ Cambridge, Mass.	37 30	29 22	5 5	2 2	i	-	2 1	Baltimore, Md. Charlotte, N.C.	345 64	235 41	61 15	28 5	13 2	8 1	16 7
Fall River, Mass.	25	22	3	-	-	-	2	Jacksonville, Fla.	131	81	25	19	4	2	6
Hartford, Conn. Lowell, Mass.	73 25	42 16	15 6	12 2	2 1	2	3 2	Miami, Fla.	147	73	33 9	30 4	3 4	8 2	- 5
Lynn, Mass.	12	11	-	1	-	-	1	Norfolk, Va. Richmond, Va.	58 99	38 66	19	4	4	8	15
New Bedford, Mass.	31	27	4	2	:	-	2	Savannah, Ga.	54	39	11	3	-	1	3
New Haven, Conn. Providence, R.I.	56 57	41 41	7 13	5 2	2	1	12 1	St. Petersburg, Fla. Tampa, Fla.	88 74	74 50	12 16	- 3	1 4	1	7 5
Somerville, Mass.	6	3	1	2	-	-	-	Washington, D.C.	241	144	45	35	7	10	7
Springfield, Mass.	67 39	49 30	13 6	2 3	1	2	2 2	Wilmington, Del.	12	4	4	2	1	1	-
Waterbury, Conn. Worcester, Mass.	80	60	12	6	-	2	4	E.S. CENTRAL	929	615	205	59	20	30	78
MID. ATLANTIC	2,901	1,929	557	288	66	59	213	Birmingham, Ala.	142 57	89 39	25 17	9 1	7	12	777
Albany, N.Y.	62	42	10	3	3	4	5	Chattanooga, Tenn. Knoxville, Tenn.	81	39 57	17	4	2	1	11
Allentown, Pa.	27 105	23 69	3 25	1 8	1	-	2	Louisville, Ky.	128	90	26	9	2	1	12
Buffalo, N.Y. Camden, N.J.	51	39	25	ŝ	3	1	11 3	Memphis, Tenn. Mobile, Ala.	263 60	171 42	59 11	20 2	8 1	5 4	21 5
Elizabeth, N.J.	48	30	12	4	1	1	8	Montgomery, Ala.	61	40	14	4	-	3	-
Erie, Pa.† Jersey City, N.J.	52 71	44 56	4 8	2 5	1	1 2	6	Nashville, Tenn.	137	87	36	10	-	4	15
N.Y. City, N.Y.	1,525	947	313	200	40	25	85	W.S. CENTRAL	1,807	1,124		176	58	65	80
Newark, N.J.	62	34	11	12	1	3	4	Austin, Tex. Baton Rouge, La.	58 35	39 22	7 9	8 2	2 2	2	2 4
Paterson, N.J. Philadelphia, Pa.	30 400	15 265	7 90	5 25	10	3 10	3 22	Corpus Christi, Tex.§		37	10	1	-	-	1
Pittsburgh, Pa.†	57	49	5	1	1	1	4	Dallas, Tex.	203	112	54	20	5	12	11
Reading, Pa.	29 130	24 94	3 22	1	1	-	5	El Paso, Tex. Fort Worth, Tex	56 91	39 66	9 9	4 5	1	3 9	76
Rochester, N.Y. Schenectady, N.Y.	29	26	22	9	2	3	18 4	Houston, Tex.§	734	436	169	89	24	16	18
Scranton, Pa.†	32	23	7	2	-	-	7	Little Rock, Ark.	84	53	17	5	4	5	6
Syracuse, N.Y. Trenton, N.J.	91 43	68 32	16 9	5 1	1	1	8 6	New Orleans, La. San Antonio, Tex.	188 195	117 122	37 42	25 11	6 10	3 10	13
Utica, N.Y.	19	16	2	-	1	-	1	Shreveport, La.	31	24	4 2		-	1	4
Yonkers, N.Y.	38	33	4	1	-	-	8	Tulsa, Okla.	84	57	15	6	2	4	8
E.N. CENTRAL	2,341	1,573	480	160	57	71	129	MOUNTAIN Albuquerque, N. Me	765	498	157	51	38	20 1	37 4
Akron, Ohio Canton, Ohio	44 46	32 34	8 9	2	1	3	- 6	Colo. Springs, Colo.	x. 90 46	49 32	13 8	7	19 3	-	8
Chicago, III.§	564	362	125	45	10	22	16	Denver, Colo.	126	84	26	9	-	7	3
Cincinnati, Ohio	157	113	23	13	6	2	20	Las Vegas, Nev. Ogden, Utah	120 10	67 7	38	9	4	2	9 2
Cleveland, Ohio Columbus, Ohio	152 116	91 73	46 28	6 4	4	5 4	2	Phoenix, Ariz.	165	112	3 26	12	7	8	3
Dayton, Ohio	109	76	27	5	-	1	12	Pueblo, Colo.	31	25	6	-	-	-	1
Detroit, Mich.	280	165	51	39	13	12	11	Salt Lake City, Utah Tucson, Ariz.	47 130	32 90	8 29	3 8	2 3	2	4 3
Evansville, Ind. Fort Wayne, Ind.	53 72	43 50	9 14	4	1	3	3	PACIFIC				-		57	211
Gary, Ind.	20	11	3	4	2	-	ĭ	Berkeley, Calif.	2,306 21	1,607 19	371 2	198	64	57	-
Grand Rapids, Mich.	62 167	39 116	11 32	.7	2 1	3 7	9 4	Fresno, Calif.	93	65	15	8	-	5	2
Indianapolis, Ind. Madison, Wis.	30	24	32	11 3	1	1	4	Glendale, Calif.	26 80	21	4	1	-	1	2 13
Milwaukee, Wis.	159	122	28	5	ż	2	11	Honolulu, Hawaii Long Beach, Calif.§	121	58 89	14 18	4 8	3 3		21
Peoria, III.	41	25	12	2	•	2	5	Los Angeles Calif.	617	422	104	53	24	3 7	47
Rockford, III. South Bend, Ind.	32 58	21 44	10 11	1	1	1	4	Oakland, Calif. Pasadena, Calif.	116 35	69	23	11	5	8	5 4
Toledo, Ohio	103	72	20	5	4	2	8	Portland, Oreg.	160	25 119	5 23	4	1 5	7	11
Youngstown, Ohio	76	60	12	3	•	1	3	Sacramento, Calif.	154	108	26	8	5	7	26
W.N. CENTRAL	873	646	144	43	17	23	64	San Diego, Calif.	204 217	145	28	23	3 3	5 3	24 15
Des Moines, Iowa	67 27	47 19	15 2	3 4	2	2	6 3	San Francisco, Calif. San Jose, Calif.	188	133 131	38 33	40 14	3	2	25
Duluth, Minn. Kansas City, Kans.	34	21	6	4	-	3	2	Seattle, Wash.§	155	110	25	13	3	4	2
Kansas City, Mo.	147	106	23	8	4	6	16	Spokane, Wash. Tacoma, Wash.	62 57	52 41	6 7	3 2	1	1	9 5
Lincoln, Nebr. Minneapolis, Minn.	26 234	20 171	6 43	12	- 4	4	1 21								958
Omaha, Nebr.	104	82	15	3	ī	3	10	TOTAL	14,136*1	9,442	2,723	1,185	384	389	300
St. Louis, Mo.	135	102	18	7	3	5	2								
St. Paul, Minn.	74 25	59 19	11 5	1	3	:	3								
Wichita, Kans.§	20	13	5	'	-	-	-								

TABLE IV. Deaths in 121 U.S. cities,* week ending March 11, 1989 (10th 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.

**Pneumonia and influenza.

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Theorem units and information of the current week.
 TBecause 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.
 those unknown ages.

SData not available. Figures are estimates based on average of past available 4 weeks.

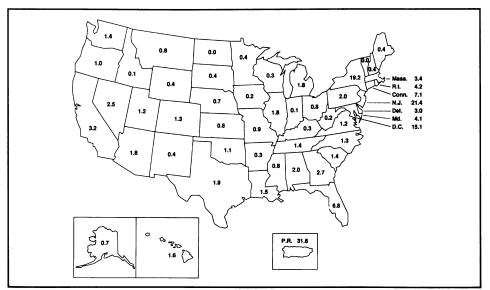
Current Trends

Update: Acquired Immunodeficiency Syndrome Associated with Intravenous-Drug Use – United States, 1988

In 1988, health departments of the 50 states and the District of Columbia reported 9752 cases, and U.S. territories reported 995 cases, of acquired immunodeficiency syndrome (AIDS) in intravenous-drug users (IVDUs), their sex partners, and children born to mothers who were IVDUs or sex partners of IVDUs. These IVDU-associated AIDS cases represented 33.3% of the 32.311 AIDS cases reported in 1988 and included 5789 (53.9%) male heterosexual IVDUs, 1742 (16.2%) female IVDUs, 2055 (19.1%) male homosexual/bisexual IVDUs, 227 (2.1%) men whose heterosexual partners were IVDUs, 620 (5.8%) women whose heterosexual partners were IVDUs, 231 (2.1%) children whose mothers were IVDUs, and 83 (0.8%) children whose mothers were sex partners of IVDUs. The 847 persons who were heterosexual partners of IVDUs accounted for 55.0% of the total 1541 cases associated with presumed heterosexual transmission of human immunodeficiency virus (HIV) (379 [54.6%] of the 694 other such cases occurred in persons born in countries where heterosexual contact is the predominant mode of HIV transmission). The 314 children whose mothers were IVDUs or sex partners of IVDUs accounted for 70.2% of the 447 cases associated with perinatal HIV transmission reported in 1988.

In 1988, 4.3 cases of IVDU-associated AIDS per 100,000 population were reported by the 50 states, District of Columbia, and U.S. territories combined. Rates for IVDU-associated AIDS varied widely by area; rates in Puerto Rico, New Jersey, New York, and the District of Columbia were >10/100,000 population; in 22 states, rates were <1/100,000 population (Figure 1). Rates were higher in the Northeast census

FIGURE 1. Reported rates of IVDU-associated AIDS cases per 100,000 population – United States, 1988



region than in other regions (Table 1), and 54.5% of IVDU-associated cases were reported from the Northeast*, which represents 19.7% of the population of the United States and its territories. In 1988, IVDU-associated cases accounted for 50.7% of all AIDS cases reported from the Northeast; 23.5%, from the South; 19.8%, from the Midwest; and 15.8%, from the West. Excluding states and territories with <10 reported cases in 1988, three states and one territory had more cases in heterosexual IVDUs than in homosexual/bisexual men who were not IVDUs (Table 2).

The rate of IVDU-associated AIDS continues to be higher for blacks and Hispanics than for whites (Table 1). Except for the West, where rates for whites and Hispanics were similar, this difference by race/ethnicity was observed for all regions of the country and was greatest in the Northeast (Table 1). IVDU-associated AIDS cases represented 16.3% of all AIDS cases in whites, 52.7% in blacks, 55.5% in Hispanics, 6.3% in Asians/Pacific Islanders, and 29.0% in American Indians/Alaskan Natives.

Although homosexual/bisexual male IVDUs represented approximately one fifth of all IVDU-associated cases, this proportion varied widely by region of the country. Male homosexual/bisexual IVDUs constituted 7.7% of IVDU-associated cases in the Northeast, 26.3% in the Midwest, 29.1% in the South, and 56.8% in the West. Similarities between homosexual/bisexual male IVDUs and other men with AIDS varied by demographic and disease characteristics (Table 3).

In August 1987, the CDC surveillance case definition for AIDS was expanded to include additional AIDS-indicator diseases (e.g., HIV dementia, wasting syndrome,

					No. ca	ses (rate))			
Race/ethnicity	Northeast		Midwest		South		West		Total*	
White [†]	1203	(2.9)	217	(0.4)	687	(1.2)	719	(2.2)	2826	(1.6)
Black [†]	2929	(62.0)	294	(5.5)	1318	(9.5)	277	(12.5)	4818	(18.4)
Hispanic	1699	(65.2)	69	(5.4)	135	(3.0)	159	(2.5)	2062	(14.1)
Asian/Pacific Islander	6	(1.1)	0	(0.0)	0	(0.0)	6	(0.3)	12	(0.3)
American Indian/ Alaskan Native	1	(1.2)	2	(0.8)	0	(0.0)	6	(0.8)	9	(0.6)
Unspecified	23		0		0		2		25	
Total	5861	(11.9)	582	(1.0)	2140	(2.8)	1169	(2.7)	9752	(4.3)

TABLE 1. Number and rate per 100,000 population of AIDS cases associated with IV-drug use, by census region and race/ethnicity — United States, 1988

*Total cases and total rates exclude territories. Rates are based on the 1980 U.S. census. Total cases and rates in text and Figure 1 include territories and are based on 1988 intercensal population estimates.

[†]Non-Hispanic.

^{*}The Northeast census region includes states in the New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont) and Middle Atlantic (New Jersey, New York, Pennsylvania) districts; the Midwest includes the East North Central (Illinois, Indiana, Michigan, Ohio, Wisconsin) and West North Central (Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota) districts; the South includes the South Atlantic (Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia), East South Central (Alabama, Kentucky, Mississippi, Tennessee), and West South Central (Arkansas, Louisiana, Oklahoma, Texas) districts; and the West includes the Mountain (Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming) and Pacific (Alaska, California, Hawaii, Oregon, Washington) districts. Territories are not included in tabulations by region.

	Reported AIDS cases				
State/territory	Male & female heterosexual IVDUs	Homosexual/ bisexual male non-IVDUs			
Connecticut	164	156			
New Jersey	1359	603			
New York	2920	2727			
Puerto Rico	757	189			

TABLE 2. States/territories where number of reported AIDS cases in heterosexual IVDUs exceeds cases in non-IVDU homosexual men – United States, 1988

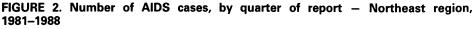
TABLE 3. Characteristics of homosexual/bisexual and heterosexual men with IVDUassociated AIDS and homosexual/bisexual male non-IVDUs with AIDS – United States and U.S. territories, 1988

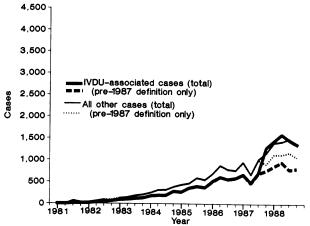
	Men with AIDS								
Characteristic	Homosexual/ bisexual IVDUs (%) (N = 2055)	Heterosexual IVDUs (%) (N = 5789)	Homosexual/ bisexual non-IVDUs (%) (N = 17,993)						
Race/ethnicity									
White*	53.6	19.6	71.6						
Black*	27.4	46.2	16.8						
Hispanic	18.7	33.9	10.5						
Asian/Pacific Islander	0.1	0.0	0.7						
American Indian/ Alaskan Native	0.1	0.1	0.1						
Not specified	0.2	0.3	0.3						
Total	100.0	100.0	100.0						
Mean age (yrs) (SD)	34.4 (7.4)	36.4 (7.3)	36.9 (9.2)						
Opportunistic disease									
Pneumocystis carinii pneumonia [†]	49.8	48.5	58.1						
Kaposi's sarcoma ⁺	12.9	2.5	15.9						
Region									
Northeast	22.0	63.1	25.0						
Midwest	7.4	5.0	11.2						
South	30.3	15.3	31.6						
West	32.3	5.9	31.2						
Territories	8.0	10.7	1.1						
Total	100.0	100.0	100.0						

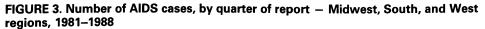
*Non-Hispanic.

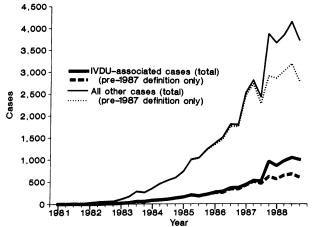
[†]Categories are not mutually exclusive and include presumptive and confirmed diagnoses.

extrapulmonary tuberculosis) and to accept presumptive diagnoses of some other indicator diseases (e.g., *Pneumocystis carinii* pneumonia, Kaposi's sarcoma, esophageal candidiasis) when tests for HIV infection are positive (1). Of IVDU-associated AIDS cases reported in 1988, 4682 (43.6%) met the case definition solely on the basis of criteria added in the 1987 revision of the case definition. Of these persons, 2616 (55.9%) had a presumptively diagnosed indicator disease, 1572 (33.6%) had wasting syndrome, and 501 (10.7%) had HIV dementia (diagnostic groups not mutually exclusive). In contrast, diagnoses of 23.3% of all other AIDS cases meeting the case definition were based on the additional 1987 revision criteria. Of all 1988 AIDS cases based on the new criteria, 48.2% were IVDU-associated.









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MMWR

AIDS and IVDUs -- Continued

Throughout the course of the HIV epidemic, the proportion of IVDU-associated AIDS cases has been higher in the Northeast than in other regions (Figures 2 and 3). The 1987 revision of the AIDS surveillance definition was associated with an increase in reported cases beginning in the last quarter of 1987, particularly for IVDU-associated cases in the Northeast, where total IVDU-associated cases surpassed the number of all other AIDS cases.

Reported by: Local, state, and territorial health departments. AIDS Program, Center for Infectious Diseases, CDC.

Editorial Note: AIDS cases occurring in association with IV-drug use involve not only IVDUs themselves but also their sex partners and children born to IVDUs or their sex partners. IVDU-associated AIDS accounts for most AIDS cases in heterosexual men, women, and children. Compared with the incidence in whites, the higher incidence of IVDU-associated AIDS in blacks and Hispanics contributes to their overall higher incidence of AIDS (*2*). This is most evident in the Northeast, where 1988 case rates for IVDU-associated AIDS were dramatically higher in blacks and Hispanics than in whites and where IVDU-associated AIDS cases exceeded all other AIDS cases.

Approximately one fifth of IVDU-associated AIDS cases are in homosexual/bisexual men. These cases may reflect HIV transmission through individual drug use or sexual activity.

The 1987 revision of the AIDS case definition appears to have increased the number of IVDU-associated cases reported in 1988. The new criteria may have resulted in the identification of some persons earlier in the course of their disease (e.g., persons who eventually would progress to meet the previous definition) or of persons who never would have met the previous definition. The latter is particularly important for IVDUs who may use health-care services for HIV-related illness later or less often than other persons with AIDS and may be more likely to have presumptive rather than definitive diagnoses of their HIV-related diseases. In addition, some states collected surveillance data on cases that met the new criteria before the criteria were implemented and later reported those cases. For these reasons, a temporary surge in reported cases may be expected until trends reach a new equilibrium. A longer period of observation and improved understanding of the course of disease in persons with cases diagnosed under new definition criteria are needed to assess the full impact of the revision on trends.

In addition to illnesses included in the AIDS case definition, there is increasing recognition of an even broader spectrum of severe HIV-associated disease, particularly among IVDUs. For example, studies in New York City indicate that deaths due to infections such as pneumonia, endocarditis, and pulmonary tuberculosis occur more frequently among IVDUs with HIV infection than among IVDUs without HIV infection and that the increased number of pneumonia-related deaths among IVDUs has paralleled the HIV epidemic (3,4). In addition, pneumonia-associated deaths have recently increased among young adults in other cities that have a high incidence of AIDS among IVDUs (5).

Rates of IVDU-associated AIDS presented here are based on the total population, not on numbers of drug users. Consequently, these rates reflect the combined effect of both the prevalence of IV-drug use and the prevalence of HIV infection among IVDUs in different groups or geographic areas. Geographic variations in the rate of IVDU-associated AIDS cases also reflect differences in HIV seroprevalence rates among IVDUs; for IVDUs enrolled in drug-treatment programs, HIV seroprevalence

rates have ranged from 50%–60% in areas such as New York City, northern New Jersey, and Puerto Rico to <5% in most other areas (6). The observation that the number of cases in IVDUs exceeds those in homosexual men in several Northeastern states and Puerto Rico highlights the magnitude of the problem of IVDU-associated AIDS. In addition, the lower HIV seroprevalence rates in most other parts of the country, where IVDU-associated cases constitute a smaller proportion of the HIV epidemic, emphasize the need to prevent extension of the epidemic of IVDU-associated HIV infection and AIDS.

The changing epidemiology of IV-drug use challenges efforts to prevent and control HIV infection and AIDS among IVDUs. Data on IVDUs suggest that most persons who use IV heroin began use in the mid-1960s to mid-1970s (7); many of the current AIDS cases among IVDUs may reflect the HIV epidemic among this cohort of heroin users. Increasingly, cocaine and other drugs are being used intravenously (8). Prevention of HIV infection in IV-cocaine users is further complicated because those persons engage in more frequent injection and needle sharing than do other IVDUs and because, unlike methadone for treatment of heroin dependence, there is no specific therapy for treating cocaine dependence (9,10). Controlling the epidemic of HIV infections and AIDS among IVDUs will require intense efforts to prevent and reduce IV-drug use and measures to prevent HIV transmission among IVDUs. In addition, the association between use of illicit drugs and recent increases in syphilis and between non-IV use of cocaine (e.g., "crack") and sexual activity links illicit drug use to an increased potential for sexual HIV transmission (11,12). *References*

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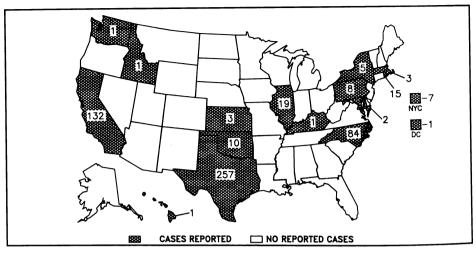


FIGURE I. Reported measles cases - United States, Weeks 6-9, 1989

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The data in this report 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 succeeding Friday. The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Such reports and any other matters pertaining to editorial or other textual considerations should be addressed to: Editor, *Morbidity and Mortality Weekly Report*, Centers for Disease Control, Atlanta, Georgia 30333; telephone (404) 332-4555.

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