CENTERS FOR DISEASE CONTROL



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Recommendation of the Immunization Practices Advisory Committee (ACIP)

New Recommended Schedule for Active Immunization of Normal Infants and Children

Until now, the recommended schedule for active immunization of normal infants and children called for administering combined measles-mumps-rubella (MMR) vaccine at 15 months and giving the fourth dose of Diphtheria and Tetanus Toxoids and Pertussis Vaccine (DTP) and the third dose of oral poliovirus vaccine (OPV) at 18 months (1). Two visits have been needed to receive these vaccines in the second year of life because the safety and efficacy of administering all three simultaneously had not been proven.* A large, randomized, doubleblind trial has recently been completed (2), and sufficient data are now available to recommend the simultaneous administration of MMR, DTP, and OPV to all children 15 months old or older who are eligible to receive these vaccines (Table 1).

In this trial, serologic response and clinical reaction rates following primary immunization with MMR were compared in a test group of 405 children given MMR simultaneously with DTP and OPV and a control group of 410 children given MMR followed by doses of DTP and OPV vaccine 2 months later. Seroconversion rates to each MMR component exceeded 96% in both groups, and the geometric mean titers achieved against the other six antigens were also similar in both groups. Rates of most of the common vaccine-associated clinical reactions to DTP and MMR were not augmented by simultaneous administration of these two vaccines. Some minor side effects were reported more frequently in the simultaneous-administration group; however, these differences were judged to be related to artifacts of the study design rather than to differences in the safety of the two vaccine schedules.

Data from CDC's Monitoring System for Adverse Events Following Immunization (MSAEFI) have been reviewed, particularly the information from Idaho, Louisiana, and Tennessee, where policies to administer MMR, DTP, and OPV simultaneously have been in effect for periods ranging from several months to years. Although there are limitations to the use of the MSAEFI data set for this purpose, the evidence suggests no increased risk of reactions associated with the simultaneous administration of these antigens.

^{*}It should be noted that simultaneous administration of MMR, DTP, and OPV was previously recommended for children who were behind schedule in receiving their immunizations. This recommendation was based on the demonstrated safety and efficacy of other vaccine combinations (e.g., DTP and measles, or MMR and OPV).

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Although the overall implications of simultaneous administration have not been fully defined, it is anticipated that implementation of this new schedule will result in at least three benefits: (1) a decrease in the number of health-care-provider visits required for immunization during the second year of life, (2) an accompanying decrease in costs, and (3) an increase in the percentage of children who will be fully or partially immunized by 24 months of age.

Some health-care providers may continue to prefer administering MMR at 15 months followed by DTP and OPV at 18 months, especially for patients who are known to be compliant

Recommended age [†]	Vaccine (s) [§]	Comments
2 months	DTP-1 [¶] , OPV-1**	Can be given earlier in areas of high endemicity.
4 months	DTP-2, OPV-2	6-week to 2-month interval desired between OPV doses to avoid interference.
6 months	DTP-3	An additional dose of OPV at this time is optional for use in areas with a high risk of polio exposure.
15 months ^{††}	MMR, ^{§§} DTP-4, OPV-3	Completion of primary series of DTP and OPV.
24 months	ℍ⋻₽⋁ ^{¶¶}	Can be given at 18-23 months for children in groups who are thought to be at increased risk of disease, e.g., day-care-center attendees.
4-6 years***	DTP-5, OPV-4	Preferably at or before school entry.
14-16 years Td ^{†††}		Repeat every 10 years throughout life.

TABLE 1. New	recommended	schedule for	active	immunization	of normal	infants and
children*						

*See Reference 1 for the recommended immunization schedules for infants and children up to their seventh birthday not immunized at the recommended time in early infancy and for persons 7 years of age or older.

[†]These recommended ages should not be construed as absolute, i.e., 2 months can be 6-10 weeks, etc.

For all products used, consult manufacturer's package enclosure for instructions for storage, handling, and administration. Immunobiologics prepared by different manufacturers may vary, and those of the same manufacturer may change from time to time. The package insert should be followed for a specific product.

[¶]DTP-Diphtheria and Tetanus Toxoids and Pertussis Vaccine Adsorbed.

**OPV-Poliovirus Vaccine Live Oral; contains poliovirus strains Types 1, 2, and 3.

^{††}Provided at least 6 months have elapsed since DTP-3 or, if fewer than three DTPs have been received, at least 6 weeks since last previous dose of DTP or OPV. MMR vaccine should not be delayed just to allow simultaneous administration with DTP and OPV. Administering MMR at 15 months and DTP-4 and OPV-3 at 18 months continues to be an acceptable alternative.

§§MMR-Measles, Mumps, and Rubella Virus Vaccine, Live.

^{¶¶}Hemophilus b Polysaccharide Vaccine.

***Up to the seventh birthday.

^{†††}Td-Tetanus and Diphtheria Toxoids Adsorbed (For adult use)—contains the same dose of tetanus toxoid as DTP or DT and a reduced dose of diphtheria toxoid.

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with health-care recommendations or if other purposes are served by the additional visit. Such a schedule remains an acceptable alternative to the newly proposed schedule involving simultaneous administration of DTP, MMR, and OPV in a single visit.

References

- 1. ACIP: General recommendations on immunization. MMWR 1983;32:1-17.
- Deforest A, Long FF, Lischner HW, et al. Simultaneous administration of measles-mumps-rubella (MMR) with booster doses of diphtheria-tetanus-pertussis (DTP) and poliovirus (OPV) vaccines (unpublished data).

Epidemiologic Notes and Reports

Maternal Deaths Associated with Barbiturate Anesthetics – New York City

While reviewing pregnancy-related deaths in New York City since 1980, the New York City Bureau of Maternity Services and Family Planning noted that seven deaths were associated with the administration of an ultrashort-acting barbiturate anesthetic (Brevital®) for termination of pregnancy. All seven women suffered cardiorespiratory arrest either during induction or shortly thereafter on the operating room table or in the recovery room.

All seven women were black. Five were 21 years of age or younger. The mean gestational length was 13 weeks; cases included both first- and second-trimester termination procedures. Two procedures were performed in hospitals, four in free-standing clinics, and one in a private physician's office. The dose recommended for methohexital sodium (Brevital) is 1.5 mg/kg body weight, with an induction dose of 75-100 mg administered intravenously (IV) (1). The mean dose for six of the seven women reviewed was 2.4 mg/kg, with a range of 1.0 mg/kg to 4.5 mg/kg (Table 1).

•Use of trade names is for identification only and does not imply endorsement by the U.S. Department of Health and Human Services or the Public Health Service.

Case no.	Age (years)	Race	Gestation (weeks)	Procedure*	Site [†]	Total dose (mg)	Patient weight (kg)	Dose mg/kg [§]
1	35	Black	10	Suction	Out	300	100	3.0
2	16	Black	13	D&E	In	100	50	2.0
3	20	Black	8-10	Suction	In	25x2	52	1.0
4	19	Black	10-11	D&C [¶]	Out	80	59	1.4
5	32	Black	6-8	Suction	Out	300	67	4.5
6	21	Black	18	D&E	Out	150	55	2.7
7	13	Black	21	D&E	Out	NR**	NR	NR
Mean	22.3		13			163	64	2.4

TABLE 1. Characteristics of anesthesia (Brevital)-related deaths associated with abortion procedures — New York City, January 1980-June 1985

*D&E=dilation and evacuation; D&C=dilation and curettage.

[†]In: in hospital; out: out of hospital.

§Recommended dosage=1.5 mg/kg body weight, with an induction dose of 75-100 mg IV.

[¶]Intended but not performed due to cardiac arrest during induction of anesthesia.

**Not recorded.

Maternal Deaths - Continued

An expert advisory panel, convened by the New York City Department of Health (NYCDH), reviewed charts, termination-of-pregnancy certificates, and autopsy reports. The panel concluded that these deaths were related to complications of anesthesia and that black women under 25 were overrepresented among the decedents, since they comprised only 26% of all women obtaining abortions in New York City during the same period (2). New York City's Commissioner of Health issued an alert (3) to physicians and administrators stipulating that standards set by the Joint Committee on the Accreditation of Hospitals (JCAH) (4), the American College of Obstetricians and Gynecologists (5), and the NYCDH (6) be met whenever general anesthesia is administered.

Because of concern by the NYCDH, abortion mortality data collected by CDC were reviewed to further describe the epidemiology of abortion risks in New York City compared with the United States as a whole. CDC has identified and investigated 193 legal-abortion-related deaths that occurred in the period 1972 through March 1985.

The overall abortion-related mortality rate in New York City between 1972 and 1981 was higher (though not statistically significantly) than in the other parts of the country for white women, for women of black and other races, and for women of all races combined. Mortality rates for 1982-1985 are not included because the total numbers of abortions for those years are not yet known.

Of the 193 legal-abortion-related deaths, 27 (14%) were attributed to complications of general anesthesia. The proportion of legal-abortion-related deaths attributed to complications of general anesthesia was significantly higher in New York City than in the remainder of the United States. This finding persisted throughout the period 1972-1985 (Table 2). Comparisons of women dying from complications of general anesthesia with women dying from other causes in New York City and in other places found the following: in New York City, both groups had similar distributions by age, race, marital status, and gravidity; in places other than New York City, a significantly higher proportion of blacks were among women dying from complications of general anesthesia; and in both comparisons, a significantly higher pro-

	General	anesthetic	Othe	r causes	PMR [†]
Area	No.	(%)	No.	(%)	(95% CL)
1972-1979		•			
New York City	8	(29.6)	19	(70.4)	4.4
Other United States	9	(6.8)	123	(93.2)	(1.9-9.9) [§]
1980-1985					
New York City	7	(63.6)	4	(36.4)	4.9
Other United States	3	(13.0)	20	(87.0)	(1.7-13.8)
1972-1985					
New York City	15	(39.5)	23	(60.5)	5.1
Other United States	12	(7.7)	143	(92.3)	(2.7-9.6) [§]
Total U.S.					
1972-1979	17	(10.7)	142	(89.3)	
1980-1985	10	(29.4)	24	(70.6)	
1972-1985	27	(14.0)	166	(86.0)	

TABLE 2. Legal-abortion-related deaths identified by CDC, by cause of death—New York City and other places, 1972-1985*

*The numbers of legal-abortion-related deaths for the period 1983-1985 are incomplete.

[†]Proportional mortality ratio; 95% confidence limits.

[§]Significant at p < 0.05.

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Maternal Deaths — Continued

portion of women dying from complications of general anesthesia died during the first trimester.

Regarding type of anesthetic, CDC data reveal that, among the 27 women whose deaths were attributed to complications of general anesthesia, the type of anesthetic used was known only in 23 cases. In 21 cases, short-acting barbiturates were used (Brevital in 16, Pentothal® in three, Surital® in one, and unspecified barbiturates in one). The dose employed was stated in only four cases (in addition to the above seven cases reported from New York City), but the women's weights were not stated.

Thus, a large percentage of deaths due to complications of general anesthesia was associated with the use of short-acting barbiturates. However, based on available information, a drug-specific mortality rate could not be estimated, nor could a general-anesthetic-specific mortality rate be calculated.

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Editorial Note: The higher overall legal-abortion-related mortality rate in New York City as compared with that in other parts of the United States between 1972 and 1981 may be due to the fact that women obtaining abortions in New York City during that period were in a higher risk group than women obtaining abortions in other parts of the United States. CDC abortion surveillance data show that, compared with women obtaining abortions in other parts of the United States, the New York City women were generally older, a higher proportion were of black and other races, and a higher proportion obtained their abortions during the second trimester. The significantly increased proportion of abortion-related deaths associated with general-anesthesia complications in New York City may be partially explained by the more frequent use of general anesthetics for performance of abortions in New York City than in the other parts of the country (7).

Previous studies have shown that, compared with local anesthetics, the use of general anesthesia for induced abortion during the first trimester was associated with a twofold to fourfold increased risk of death (\mathcal{B}). However, general anesthetics have been frequently used when abortions are performed. It is estimated that general anesthetics were used for approximately 46% of all abortions done in hospitals during 1971-1975 (\mathcal{B}) and approximately 27% of all abortions done in clinics during 1976-1977 (\mathcal{IO}).

The fact that most deaths due to general anesthesia occurred during the first trimester may be expected, since more than 85% of all abortions done in the United States between 1972 and 1981 were done during the first trimester (11) and since general anesthesia is more commonly employed during first-trimester procedures than second-trimester procedures. Data from the Joint Program for the Study of Abortion reveal that, between 1975 and 1978, 26% of first-trimester abortions were done under general anesthesia, compared with 13.6% of those done during the second trimester (12).

Short-acting barbiturates have an important place in the practice of anesthesiology. They are the IV anesthetics of choice for most anesthesiologists. They are used to induce general anesthesia and are commonly used for maintenance during procedures lasting 15-20 minutes (11). However, the frequency of using short-acting barbiturates for pregnancy termination procedures is not known.

The deaths due to complications of general anesthesia underscore the need for close and

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Maternal Deaths - Continued

continuous supervision of general-anesthesia administration by a qualified anesthesiologist, adequate recovery-room monitoring, and particular care in dose calculation using patient weight. Investigation of seven general anesthetic-related deaths by the New York City Bureau of Maternity Services and Family Planning revealed that four of six women were given overdoses of methohexital. Data to compare adverse reactions associated with the use of methohexital for other procedures are not available. The above analysis demonstrates an increase in the contribution of general-anesthesia complications to abortion-related deaths. While the overall abortion mortality rate based on deaths reported to CDC declined by 87% from 1972 to 1981 (*11*), the proportion of abortion-related deaths due to complications of general anesthesia increased from 11% between 1972 and 1979 to 29% between 1980 and 1985 (Table 2). Most of those deaths (24 of 27 [89%]) occurred during the first trimester. The increased risk of using a general anesthetic rather than a local anesthetic for first-trimester abortion has been documented (*8*). Clinicians should carefully review their use of general anesthetics for pregnancy-termination procedures, especially during the first trimester.

(Continued on page 587)

	3	37th Week End	ing	Cumul	ative, 37th Wee	ek Ending
Disease	Sept. 13, 1986	Sept. 14, 1985	Median 1981-1985	Sept. 13, 1986	Sept. 14, 1985	Median 1981-198
Acquired Immunodeficiency Syndrome (AIDS)	277	153	N	8,781	5,432	N
Aseptic meningitis	381	604	430	6,284	6,020	6,020
Encephalitis: Primary (arthropod-borne					-	-
& unspec.)	40	47	70	741	815	963
Post-infectious	3	1	2	79	98	71
Gonorrhea: Civilian	14,909	19,140	19,140	612.692	622.293	632.924
Military	264	531	531	11.684	15,122	17.270
Hepatitis: Type A	411	437	437	15.350	15,477	15.477
Type B	379	496	430	18,137	18.094	16,769
Non A, Non B	41	91	N	2,486	2.920	N
Unspecified	74	101	151	3,228	4,015	5.054
Legionellosis	38	19	N	477	506	N
Leprosy	4	4	4	182	269	177
Malaria	14	21	21	735	730	730
Measles: Total*	63	39	9	5,413	2,456	2,315
Indigenous	48	27	Ň	5,154	2,037	Ň
Imported	15	12	N	259	419	N
Meningococcal infections: Total	24	25	34	1,833	1,759	2.048
Civilian	24	25	34	1,831	1,753	2,044
Military				2	6	10
Mumps	34	35	35	3,481	2.229	2.443
Pertussis	96	118	37	2,183	2,116	1,620
Rubella (German measles)	5	5	5	407	548	774
Syphilis (Primary & Secondary): Civilian	447	503	618	18.283	18.832	21.518
Military	1 1	1	6	122	122	266
Toxic Shock syndrome	3	10	Ň	249	281	Ň
Tuberculosis	438	423	507	15.394	15.036	16,516
Tularemia	5	-23	6	103	127	188
Typhoid fever	6	12	11	204	253	283
Typhus fever, tick-borne (RMSF)	23	27	27	588	530	833
Rabies, animal	96	123	123	3,915	3.820	4,539

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

TABLE II. Notifiable diseases of low frequency, United States

	Cum 1986		Cum 1986
Anthrax		Leptospirosis	25
Botulism: Foodborne	6	Plague	7
Infant	37	Poliomyelitis, Paralytic (Calif. 1)	1
Other	1	Psittacosis (Upstate N.Y. 1)	75
Brucellosis (Fla. 1)	56	Rabies, human	-
Cholera (La. 1)	2	Tetanus (Tenn. 1, Tex. 1)	49
Congenital rubella syndrome	4	Trichinosis	21
Congenital syphilis, ages < 1 year	107	Typhus fever, flea-borne (endemic, murine) (Tex. 1)	35
Diphtheria	-		

*Eight of the 48 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.

												
	AIDS	Aseptic Menin-		Post-in-		orrhea vilian)		epatitis (V		pe Unspeci-	Legionel- losis	Leprosy
Reporting Area	C	gitis	Primary	fectious			A	В	NA,NB	fied	10515	
	Cum. 1986	1986	Cum 1986	Cum 1986	Cum. 1986	Cum. 1985	1986	1986	1986	1986	1986	Cum 1986
UNITED STATES	8,781	381	741	79	612,692	622,293	411	379	41	74	38	182
NEW ENGLAND Maine	385 14	16 4	18	3	15,934 640	16,193 794	13	28 2	3	6	6	6
N H Vt	10	-	2 3	2	398 184	405 231	1	2	-	-	1	-
Mass R I	212 22	4	4	-	6,320 1,203	6,268 1,323	5	16	2	6	5	6
Conn	123	5	9	1	7,189	7,172	7	8	-	-		-
MID ATLANTIC	3,399 337	56 22	80 30	7 4	103,688 12,306	89,423 12,111	14 12	25 13	1	11	8	12 1
Upstate N Y N Y City	2,296	4	16	-	59,701	44,683	-	4	-	10	8	10
N J Pa	532 234	14 16	10 24	3	13,681 18,000	13,462 19,167	2	8	1	-	-	1
E N CENTRAL	585 132	102 50	216 71	11 3	79,466 20,168	83,012 21,519	24 12	38 9	3	2	1	4
Ohio Ind	50	21	56	3	8,971	8,838	3	9	-	1	-	-
III Mich	274 104	31	41 38	4 1	21,796 25,556	21,279 23,307	- 9	19	3	1	1	3 1
Wis	25	-	10	-	2,975	8,069		1	-	-	-	-
W N CENTRAL Minn	168 60	20 4	41 17	9	26,616 3,809	28,998 4,289	12 2	11 3	-	1	1	2 1
lowa Mo	12	3	11	-	2,710	3,099	-	ĩ	-	-	-	-
N Dak	60 2	8	1	:	13,365 236	13,950 197	2	6	-	-	-	-
S Dak Nebr	1 8	1	9	ī	557 2,076	536 2,481	ī	-	-	-	:	-
Kans	25	4	2	8	3,863	4,446	ż	1		1	1	1
S ATLANTIC Del	1,220 18	59	100 6	27	160,649 2,614	162,755 3,059	59 1	94 1	10	14	16	2
Md	123	16	25	1	18,799	20,739	14	22	3	2	13	-
D C Va	151 108	12	29	1	11,947 13,071	10,890 13,420	3	2 20	2	6	-	1
W Va N C	7 47	2 7	25 13	1	1,611 24,982	1,848 25,404	1	1 6	2	2 2		-
S C Ga	29 197	1	-	1	13,915	15,642 32,607	1	13 8	-	-	1	-
Fla	540	10	2	22	27,037 46,673	39,146	26	21	3	2	2	1
E S CENTRAL Kv	111	25	47	4	49,954	53,026	17	29	!	-	-	1
Tenn	25 53	17 1	22 4	1	5,465 19,339	6,033 20,102	1	4 6	1	-	-	-
Ala Miss	19 14	7	20 1	2	14,271 10,879	16,188 10,703	2 14	16 3	:	:	-	1
WS CENTRAL	496	47	100	6	71,790	78,500	57	56	12	16	1	17
Ark La	22 114	3 4	5	2	6,854 13,101	7,597 15,043	2 1	5 7	1	2	1	1
Okla Tex	27 333	6 34	18 77	4	8,301 43,534	8,647 47,213	6 48	4 40	1 9	1 13	-	16
MOUNTAIN	211	31	26	1	18,337	19,205	53	19	2	4	-	11
Mont Idaho	4	:	2	1	505 584	537 600	5 2	1 5	ī		2	
Wyo Colo	4 97	- 8	2	-	406	432 5,661	10	1	-	2	-	-3
N Mex	14	7	3	-	4,768 1,812	2,216	28	-	1	-	-	
Ariz Utah	53 13	16	9 6	-	5,968 788	5,597 877	6	-	-	1	-	5 1
Nev	24	-	2	-	3,506	3,285	2	4	-	-	-	2
PACIFIC Wash	2,206 119	25 2	113 11	11	86,258 6,495	91,181 6,980	162 8	79 6	9	20	5 3	127 15
Oreg Calif	47 1,995	20	99	11	3,610 73,242	4,583 76,202	21 133	13 56	1 8	20	2	88
Alaska	11	-	3		1,966	2,134		4	-	-	-	-
Hawaii	34	3	-	•	945	1,282	-	-	-	-	-	24
Guam P R	76	-	5	:	135 1,692	148 2,350	1	2	:	-	:	1 7
VI Pac Trust Terr	3	:	-	:	178 334	337 655	2	2	2	-	-	- 39
Amer Samoa	-	•	-	-	31	-	3	-	-	-	-	2

TABLE III. Cases of specified notifiable diseases, United States, weeks ending September 13, 1986 and September 14, 1985 (37th Week)

N Not notifiable

U Unavailable

		Seb	tempe	r 13, 1	9868	ina se	ptember	14, 1	985 (;	37th \	Neek)				
Pagasting Arrow	Malaria	Indig	Mea: genous	sies (Rub Impo	eola) rted *	Total	Menin- gococcal Infections	Mu	mps		Pertussis			Rubella	
Reporting Area	Cum. 1986	1986	Cum. 1986	1986	Cum. 1986	Cum. 1985	Cum. 1986	1986	Cum. 1986	1986	Cum. 1986	Cum. 1985	1986	Cum. 1986	Cum. 1985
UNITED STATE	S 735	48	5,154	15	259	2,456	1,833	34	3,481	96	2,183	2,116	5	407	548
NEW ENGLANE Maine) 43 2	4 3	82 13	6	14	126		1	53	2	120	98	-	9	12
N.H. Vt.	2	-	42	2	-	1	23 6	ī	13	-	2 59	5 39	2	1	2
Mass.	1 24	1	24	6 †	§ 12	118	15 27	-	3 9	-	3 28	3 31	:	1	- 6
R.I. Conn.	5 9	-	2 1	:	2	- 7	17	-	9 19	2	-5 23	13		2	4
MID ATLANTIC	106	21	1,660	7	30	204		2	153	- 5	151	130		31	217
Upstate N.Y. N.Y. City	39 28	6 15	74 659	5 †	§ 24	85	98	-	55	4	98	67	-	23	17
N.J.	20	-	905	-	4	63 28	30	1	17 38	-	3 14	18 5	2	5 3	175 11
Pa	19	-	22	•	2	28	106	1	43	1	36	40	-	-	14
E.N. CENTRAL Ohio	46	12	1,021	:	17 10	527 54	255 103	14	2,379 100	4	274 117	494 53	•	39 1	29
Ind.	2 15	8 4	25 676	•	-	57	24	.1	32	2	24	147	-	-	1
III. Mich	13	-	58	-	4	297 60	68 54	11 2	1,791 253	1	30 27	47 35	:	28 8	12 15
Wis	3	-	262	-	3	59	6	-	203	-	76	212	-	2	1
W.N. CENTRAL Minn.	23	-	322	-	17	11	88	4	89	49	236	141	1	11	19
lowa	6 1	-	45 133	-	4	6	17 11	1	1 25	2	47 18	70	-	:	2
Mo. N. Dak	10	:	25 25	-	6	2	31	ż	17	6	18	5 27	:	1	1
S. Dak	-	-	25	-	1	2	4	:	3 1	-	4 14	9 2	:	1	2
Nebr Kans	4 2	-	94	-	- 5	1	10 15	ī	42	41	7	4 24	1	- 8	7
S. ATLANTIC	88	2	554	-	56	307	336	ż	161	11	627	413	1	11	, 50
Del. Md.	112	:	1 26	-	- 9	103	2	•	-	1	226	1		-	50
D.C.	1	-	-	-	2	20	44 4	2	17	2	139	246	:	-	6
Va. W. Va.	22	-	36 2	-	24	28 33	59	-	34	-	33	11		-	2
N.C.	4	1	3	-	1	33	3 56	:	39 14	:	23 58	4 21	-	-	9
S.C. Ga.	6 9		274 79	:	14	3 8	30 50	-	12 15		13	2	-	-	3
Fla	29	1	133	-	6	103	88	-	30	8	111 24	81 47	ī	11	29
E.S. CENTRAL	16 4	-	58	-	9	2	100	1	28	-	43	37	-	4	2
Ky. Tenn	1	-	55		6 1	5 1	24 36	:	6 17	-	5 15	6 16	-	4	2
Ala. Miss	7	:	1 2	-	1	. 1	28 12	1	4	-	23	11		-	:
W.S. CENTRAL	70							-	1	-	-	4	-	-	-
Ark	73	1	598 276	2	38 2	425	163 24	2	154 7	3 1	174	303	-	57	32
La. Okta.	14 9	-	4 37	-	2	42	23	-	2	2	12 13	12 11	:	-	1
Tex	50	1	281	2†	34	1 382	21 95	N 2	N 145	-	95 54	136 144	-	- 57	1 30
MOUNTAIN	30	1	300	-	26	529	91	1	209	10	217	150	_	23	5
Mont Idaho	1	-	1	-	8	137 137	8 3	-	5 7	1	14	8	-	2	-
Wyo. Colo.	-	-	-	-	-	-	2	-		-	33 4	10	:	1	1
N. Mex.	8 5	-	2 32	-	5 7	13	15 9	Ň	12 N	2	59	54	-	i	-
Ariz Utah	10 3	÷	252	-	6	236	19	ï	170	2	20 50	11 27	:	2	2 1
Nev	3	1	12 1	-	2	-	9 26	:	10 5	4	33 4	40	:	14 3	1
PACIFIC	310	7	559	-	52	320	382	9	255	12	341	350	3	222	182
Wash. Oreg.	22 15	:	158 4	:	25 4	72 5	54 31	- N	8 N	3	102	60	-	14	14
Calif.	272	1	370	-	22	222	284	9	223	8	10 219	40 204	3	1 202	1 118
Alaska Hawaii	ī	6	27	:	1	21	11 2	:	6 18	1	2	29	-	5	1 48
Guam	1	-	4	-	1	11	-	-	4	-		.,	-	3	
P.R. V.I.	4	-	33	:	2	54 10	2	5	31	-	13	10	-	60 60	2 25
Pac. Trust Terr	-	-	2	-	-	-	1	:	13 10	-	-	:	:	2	-
Amer, Samoa	-	-	2	-	-	-	-	-	4	-	-		-	1	-

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending September 13, 1986 and September 14, 1985 (37th Week)

For measles only, imported cases includes both out-of-state and international importations. U Unavailable

N Not notifiable

Reporting Area UNITED STATES NEW ENGLAND Maine N H. Vt	Syphilis (Primary & S Cum. 1986 18,283 337		Toxic⊢ shock Syndrome	Tubero	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne)	Rabies, Animal
NEW ENGLAND Maine N.H. Vt.	1986 18,283							(RMSF)	Animal
NEW ENGLAND Maine N.H. Vt			1986	Cum. 1986	Cum. 1985	Cum 1986	Cum 1986	Cum 1986	Cum 1986
Maine N.H. Vt.	337	18,832	3	15,394	15,036	103	204	588 +	23 3,915
N.H. Vt.	15	400 12	-	494 33	520 37	1	12	12+	2 5
	10	29 6	-	19 14	16 5	-	-	2 1	
Mass R I	182 18	191 12	-	256 40	315 38	1	10	4 1 3	- 3
Conn	104	150	-	132	109	-	2	3	2
MID ATLANTIC	2,653 120	2,500 181	-	3,133 457	2,776 486	1	16 3	27+ 17 2	2 471 62
NY City	1,517	1,533	-	1,629	1,330	-	7	5	-
N.J Pa	484 532	490 296	-	534 513	387 573	1	5 1	2 3	16 393
EN CENTRAL	696 95	738 106	-	1,859 329	1,837 326	-	17 4	51	98 9
Ohio Ind	86	67	-	195	226	-	2	46	14
III Mich	351 125	362 156	-	797 450	785 391	-	2 7	2 3	29 21
Wis	39	47	-	88	109	-	2	-	25
W N CENTRAL Minn	154 27	158 33	1	456 110	421 90	30	8 1	40+	1 626 90
lowa	6 82	17 78	:	39 229	44 207	1 23	- 6	1 20	143 65
Mo N Dak	3	2		6	8	-	-	1	132
S Dak Nebr	11	5	-	19 7	19 13	2 1	-	6 4	126 23
Kans	21	16	-	46	40	3	1	7)	47
S ATLANTIC Del	5,548 39	5,566 28	-	2,956 27	3,036 29	9	32 1	269 	-Ø 938
Md D C	307 212	324 245	-	230 101	266 118	2	10 4	28	459 26
Va	260	215	-	245	266	2	6	43 -	•) 135
W Va N C	18 357	15 481	-	88 406	81 382	1	3 4	7 95 5 62 2	. 32 7
S C Ga	469 1,072	582 975	•	390 453	368 512	- 3	-	62 Z 31)	47 151
Fla	2,814	2,701	•	1,016	1,014	•	4	2	81
ES CENTRAL Ky	1,234 56	1,426 47	:	1,359 321	1,335 320	8 3	2	17	- 3 255 70
Tenn Ala	451 397	452 451	•	395 428	377 405	4	1	35 2 14	- 97 86
Miss	330	476	-	215	233	-	1	11	2
W S CENTRAL Ark	3,588 173	4,305 224	-	1,934 255	1,851 204	46 34	15	103 t 8 <u>3</u>	7 565
La	624 98	750 123	-	320 185	264 184	1	1	د ہ 80 4	17
Okla Tex	2,693	3,208	•	1,174	1,199	7 4	13	15	365
MOUNTAIN	423 6	501 5	1	360	391 46	7	11	8 4	546 176
Mont Idaho	10 1	4	-	17	18	-	-	-	7
Wyo Colo	103	125	:	31	5 43	3	1	1 3	231 26
N Mex Ariz	51 169	95 232	-	69 173	70 172	1	- 6	-	6 90
Utah Nev	13 70	5 28	-	28 22	11 26	1	2	:	3
PACIFIC	3,650	3,238	1	2,843	2,869	,	91	1	411
Wash	110	84	-	134	164	-	3	-	5
Oreg Calif	3,437	67 3,035	1	97 2,441	93 2,405	-	84	1	398
Alaska Hawaii	1 25	2 50	1	37 134	71 136	1	1 3	:	8
Guam	1	2	-	34	31	-	1	-	-
P.R V.I.	629 1	569 2	-	240 1	243 1	:	5	-	35
Pac. Trust Terr. Amer. Samoa	196	92	-	52 5	44	-	45		-

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending September 13, 1986 and September 14, 1985 (37th Week)

U Unavailable

TABLE IV. Deaths in 121 U.S. cities.* week ending

September	13, 19	B6 (37th	Week)
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		All Caus	es, By A	ge (Year	s)					All Cause	is, By Ag	e (Years	s)		
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I" Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I** Total
NEW ENGLAND	570	381	116	41	16	16	37	S. ATLANTIC	1,178	706	270	124	40	36	44
Boston, Mass §	154	91	38	12	5	8	14	Atlanta, Ga	160	87	42	21	7	3	2
Bridgeport, Conn	45 25	29 16	9 7	2	з	2	2	Baltimore, Md	44	30	5	8	1	-	3
Cambridge, Mass Fall River, Mass	33	24	4	2	ī	-	4	Charlotte, N.C.	73	42	26	3	1	1	2
Hartford, Conn.	68	45	16	5	i	1	2	Jacksonville, Fla. Miami, Fla.	139 99	80 52	36 30	9 13	7	7	9
Lowell, Mass	12	8	2	2	-		ĩ	Norfolk, Va	71	43	13	7	3	5	4
Lynn, Mass	13	6	4	2	-	1	-	Richmond, Va.	86	50	25	8	ž	ĭ	7
New Bedford, Mas		18	5	:	-	-	2	Savannah, Ga	45	33	9	1	1	1	1
New Haven, Conn.	38 27	27 20	5 5	4	1	1	2	St. Petersburg, Fla.	157	130	16	6	2	3	7
Providence, R.I. Somerville, Mass.	- 5	5	5		-	1	2	Tampa, Fla. Washington, D.C.	63 203	33 98	15	.9	2	3	5
Springfield, Mass.	48	33	7	4	2	2	1	Washington, D.C. Wilmington, Del.	203	28	47	37 2	10 2	11	4
Waterbury, Conn.	27	20	4	1	2	-	3	winnington, Der		20		4	2	-	-
Worcester, Mass	52	39	7	5	1	-	4	E.S. CENTRAL	708	465	147	49	25	22	23
	2,698	1,705	573	293	53	73	122	Birmingham, Ala.	116	72	25	10	1	8	3
MID ATLANTIC Albany, N.Y.	56	33	19	1	55	3	122	Chattanooga, Tenr	43	31 49	9 10	2 10	1	-	4
Allentown Pa	15	12	3	-	-	-		Knoxville, Tenn Louisville, Ky	95	49 64	20		2 4	3	-
Buffalo, N.Y	81	54	19	4	2	2	6	Memphis, Tenn §	164	108	35		5	6	7
Camden, N.J	34	15	9	4	2	4	1	Mobile, Ala.	52	31	13		4	š	ś
Elizabeth, N.J.	23 47	17 31	5	1	-	-	-	Montgomery, Ala	34	24	6		2	-	-
Erie, Pat	38	19	10 10	3 6	2 2	1	1	Nashville, Tenn	133	86	29	10	6	2	6
Jersey City, N.J. N.Y. City, N.Y	1.436	907	274	191	31	33	2 50	W.C. CONTRAL							
Newark, N.J	82	38	23	14	3	4	4	W.S. CENTRAL Austin, Tex	1,333	799	289		54	52	56
Paterson, N.J. §	28	18	6	4	-	-	2	Baton Rouge, La	39	25			1	1	-
Philadelphia, Pa	409	260	92	35	6	16	32	Corpus Christi, Tex	44 56	22 38	10		3	4	-
Pittsburgh, Pa.†	55	32	13	5	1	4	2	Dallas, Tex	191	104	1:		.1	-	-
Reading, Pa	33 121	24	7	1	1	-	2	El Paso, Tex.	47	30		B 6	11	6	
Rochester, N.Y	30	85 25	25 5	8	-	3	8	Fort Worth, Tex.	101	62	2		5	2 9	6
Schenectady, N.Y Scranton, Pa.†	26	24	2	-	-	-	3 1	Houston, Tex	241	140	6			6	
Svracuse, NY	116	73	зō	8	2	2	6	Little Rock, Ark New Orleans, La	111	74	1	7 9		ž	
Trenton, N.J.	29	15	11	2	ĩ	•		San Antonio, Tex.	151	84	3			7	-
Utica, N.Y.	17	12	3	2	-	-	-	Shreveport, La.	180 103	105 70	4			5	
Yonkers, N.Y.	22	11	7	4	-	-	2	Tulsa, Okla	69	45	1		1	3 2	8 6
	2,312	1,494	508	168	67	75	74	MOUNTAIN	617	388	12	7 57	29	16	
Akron, Ohio	74	43	16	6	6	3	:	Albuquerque, N.Me	x 82	42				1	23
Canton, Ohio Chicago, III §	42 564	31 362	7 125	1 45	2	1	2	Colo. Springs, Colo	32	20		7 3	-	2	2
Cincinnati, Ohio	146	82	31	45 10	10 8	22 15	16 6	Denver, Colo	107	69	2		6	2	2
Cleveland, Ohio	160	103	37	12	ž	1	1	Las Vegas, Nev Ogden, Utah	83	52	1		1	1	2
Columbus, Ohio	126	82	32	8	ż	ż	2	Phoenix, Ariz	32	28		4 -	-	-	1
Dayton, Ohio	95	57	26	4	5	3	4	Pueblo, Colo	120 17	78 12	14		11	6	5
Detroit, Mich.	248	139	61	28	12	8	4	Salt Lake City, Utal		21	1		2 3	2	-
Evansville, Ind	36	28	6	1	1	-	1	Tucson, Ariz	96	66	1		4	2	11
Fort Wayne, Ind. Gary, Ind.	75 24	52 19	14	6 1	-	3	4	D4 OUT IO	• • • • •			-		-	
Grand Rapids, Micl		40	11		2	3	3	PACIFIC Berkeley, Calif.	2,104	1,318	41		86	50	112
Indianapolis, Ind.	186	124	44	10	5	3	5	Fresno, Calif	100	12 53	2		- 8	-	1
Madison, Wis	34	23	5	4	-	2	4	Glendale, Calif	35	28			8	3	13
Milwaukee, Wis.	139	95	28	9	2	5	8	Honolulu, Hawaii	79	52	19		1	5	1
Peoria, III.	44	31	10	1	2	-	2	Long Beach, Calif.	94	66	1		5	4	9
Rockford, III.	45	40	2	2	1	-	5	Los Angeles, Calif.	681	404	141	99	29	5	19
South Bend, Ind. Toledo, Ohio	58 98	41 65	12 20	4 9	2	1	5 2	Oakland, Calif.	68	41	11		-	3	5
Youngstown, Ohio		37	17	5	~	1	2	Pasadena, Calif. Portland, Oreg.	37	32			3	-	1
-					-			Sacramento, Calif	125 134	74 91	29 21		9	7	.4
W.N. CENTRAL	736	505	145	38	23	25	32	San Diego, Calif.	165	100	2		4 8	7	15
Des Moines, Iowa	71	44	19	5	2	1	1	San Francisco, Cali	f. 140	84	3		9	3	16 2
Duluth, Minn.	54	36	14	2	2	2	-	San Jose, Calif.	185	106			9	6	11
Kansas City, Kans.	26 115	15	4 23	1 3	3	3		Seattle, Wash	128	88	1		ĕ	6	4
Kansas City, Mo. Lincoln, Nebr	31	78 22	23	3	6 1	5	4	Spokane, Wash	63	44	1	97	3	-	6
Minneapolis, Minn.	62	43	9	3	1	6	5	Tacoma, Wash.	53	43		72	-	1	ĩ
Omaha, Nebr	85	58	22	ž	3		4	TOTAL	12,256	7,761	2 50				
St. Louis, Mo.	139	100	20	13	-	6	10		12,200	1,101	2,59	3 1,138	393	365	523
St. Paul, Minn.	69	55	7	3	3	1	2								
Wichita, Kans.	84	54	21	5	2	2	6								

* 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

¹⁴ Pneumonia and influenza
 ¹⁴ Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
 ¹⁴ Total includes unknown ages.
 § Data not available. Figures are estimates based on average of past 4 weeks.

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Maternal Deaths – Continued References

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Tuberculosis and Acquired Immunodeficiency Syndrome - Florida

In 1985, 1,425 tuberculosis cases were reported in Florida, an increase of almost 7% over the 1,335 cases reported in 1984. Concern about a possible association between human Tlymphotropic virus type III/lymphadenopathy-associated virus (HTLV-III/LAV)* infection and increased tuberculosis morbidity (1,2) led to an evaluation of data on acquired immunodeficiency syndrome (AIDS) and tuberculosis. Four subgroups of persons were identified and their characteristics compared: (1) AIDS patients with and without tuberculosis (AIDS/TB and AIDS/non-TB, respectively), and (2) tuberculosis patients with and without AIDS (TB/AIDS and TB/non-AIDS, respectively). The overlapping subgroups of AIDS/TB and TB/AIDS are listed separately only because their characteristics were analyzed from two discrete data bases.

AIDS PATIENTS WITH AND WITHOUT TUBERCULOSIS

Of the 1,094 persons meeting the CDC surveillance definition of AIDS (*3*) reported from Florida in the period 1981-1985, 109 (10%) were also diagnosed in the period 1978-1985 as having tuberculosis.[†] The number of AIDS patients with tuberculosis by year of AIDS diagnosis rose progressively from zero in 1981 to a peak of 55 in 1984; this number fell to 26 in

^{*}Subcommittee of the International Committee for the Taxonomy of Viruses has proposed that HTLV-III/ LAV be officially designated as "Human Immunodeficiency Virus" or HIV.

[†]These time intervals were chosen because AIDS was first recognized nationally in 1981 and because it was noted that the diagnosis of tuberculosis often preceded the diagnosis of AIDS by months or years.

Tuberculosis and AIDS - Continued

1985. The interval between report of tuberculosis and diagnosis of AIDS ranged from 7 years before to 15 months after AIDS was diagnosed (median interval, 3 months before AIDS diagnosis). Sixty-two (57%) of the patients were reported to have tuberculosis more than 1 month before they were diagnosed as having AIDS; 30 (28%), within a month before or after they were diagnosed as having AIDS; and 17 (16%), more than a month after they were diagnosed as having AIDS.

AIDS/TB patients were similar to AIDS/non-TB patients with respect to age and sex (Table 3). However, AIDS/TB patients were more frequently black (81%) than were AIDS/non-TB patients (37%), were more frequently foreign born (60% versus 25%), and were less frequently homosexual or bisexual men (21% versus 62%).

TUBERCULOSIS PATIENTS WITH AND WITHOUT AIDS

Of the 7,241 persons in Florida reported to have tuberculosis in the period 1981-1985, 105 $(2\%)^{\$}$ also had AIDS. The number and proportion has generally continued to rise, e.g., in 1981, five (less than 1%) of 1,553; in 1984, 33 (3%) of 1,335; the number fell to 23 (2%) of 1,425 in 1985. Of the 105 TB/AIDS patients, 65 (60%) were reported to have tuberculosis while residing in Dade County; and 23 (22%), while residing in Palm Beach County. Compared with TB/non-AIDS patients, TB/AIDS patients were younger (median 30 years versus 49

	AIDS/TB	AIDS/non-TB	
Characteristic	$\frac{(n = 109)}{No. (\%)}$	<u>(n = 985)</u> No. (%)	Statistical significance
Age			
Median	30	34	
Mean	33.6	34.6	Not significant
Race/ethnicity			•
Black	88 (80.7)	363 (36.9)	
White	12 (11.0)	495 (50.3)	p < 0.001
Hispanic	9 (8.3)	122 (12.4)	
Other	0 (0.0)	5 (0.5)	
Sex			
Female	18 (16.5)	110 (11.2)	
Male	91 (83.5)	875 (88.8)	Not significant
Country of origin			
U.S.	44 (40.4)	737 (74.8)	
Foreign	65 (59.6)	248 (25.2)	p < 0.001
AIDS risk factors			
Homosexual/			
bisexual men	23 (21.1)	609 (61.8)	
IV drug abuse	20 (18.3)	128 (13.0)	p < 0.001
Born NIR ctry [†]	55 (50.5)	127 (12.9)	
Other/none	11 (10.1)	121 (12.3)	

TABLE 3. Characteristics of acquired immunodeficiency syndrome (AIDS) cases with and without tuberculosis (TB)—Florida, 1981-1985*

*Because only aggregate data were available for certain characteristics, no adjustments were made in the analysis.

[†]No identified risk country—country in which heterosexual transmission of human T-lymphotropic virus type III/lymphadenopathy-associated virus is thought to play a major role.

[§]The other four of the 109 mentioned earlier in this report had been reported to have tuberculosis before 1981, when no detailed information on individual cases was available; they were therefore excluded from this analysis.

Tuberculosis and AIDS - Continued

years) and were more often black (79% versus 51%), male (83% versus 71%), and foreign born (60% versus 21%). TB/AIDS patients were also more likely to have extrapulmonary tuberculosis (38% versus 11%), particularly lymphatic and miliary forms, while pleural tuberculosis was extremely rare (Table 4).

Reported by CH Cole, MD, JJ Witte, MD, WJ Bigler, PhD, BJ Sayer, DJ Garrity, Florida Dept of Health and Rehabilitative Svcs; AIDS Program, Center for Infectious Diseases, Div of Tuberculosis Control, Center for Prevention Svcs, CDC.

Editorial Note: The total number of AIDS patients in the United States meeting the CDC surveillance case definition represents only a fraction of the number of persons with HTLV-III/ LAV infection. It has been estimated that, in 1985, for every case of AIDS, there were 50-100 persons with HTLV-III/LAV infection (4). The number of tuberculosis patients with HTLV-III/ LAV infection but without AIDS may also exceed the number who have overt AIDS. The fact that tuberculosis did not decline in the nation as a whole in 1985 and the increase in the incidence of tuberculosis in certain areas may be partly explained by the infection with HTLV-III/ LAV of persons who already had tuberculous infection (2). There are an estimated 10 million persons with latent tuberculous infection in the United States and as many as 1.5 million persons with HTLV-III/LAV infection (4). The degree to which these two infected populations overlap may be a factor in the number of tuberculosis cases that develop.

The fact that 10% of AIDS patients from Florida have been diagnosed as having tuberculosis suggests an association between AIDS and tuberculosis. Most of the tuberculosis among the AIDS patients may represent reactivation of latent tuberculous infection acquired in years past rather than progression from recently acquired infection. Immunodeficiency caused by HTLV-III/LAV infection probably allows latent tuberculous infection to progress to clinical

Characteristic	TB/AIDS (n = 105)		TB/non-AIDS (n = 7,136)		Statistical
	No.		No.		significance
Age					
Median	30		49		p < 0.001
Mean	33.2		48.7		
Race					
Black	83	(79.0)	3,613	(50.5)	
White	22	(21.0)	3,380	(47.4)	p < 0.001
Other	0	(0.0)	143	(2.0)	
Ethnicity					
Hispanic	11	(10.5)	685	(9.6)	
Non-Hispanic	94	(89.5)	6,451	(90.4)	Not significant
Sex					
Female	18	(17.1)	2,084	(29.2)	
Male	87	(82.9)	5,052	(70.8)	0.001 < p < 0.01
Country of origin					
U.S.	42	(40.0)	5,610	(78.6)	
Foreign	63	(60.0)	1,526	(21.4)	p < 0.001
Form of TB					
Pulmonary	65	(61.9)	6,331	(88.7)	
Pleural	1	(0.1)	216	(3.0)	
Lymphatic	20	(19.0)	167	(2.3)	р < 0.001
Miliary	10	(9.5)	96	(1.3)	
Other	9	(8.6)	326	(4.6)	

TABLE 4. Characteristics of tuberculosis (TB) cases with and without acquired immunodeficiency syndrome (AIDS)—Florida, 1981-1985

Tuberculosis and AIDS – Continued

tuberculosis. However, radiographically, the presentation of tuberculosis in AIDS patients is often indistinguishable from primary forms of the disease as seen in patients without AIDS (5). Thus, recently acquired tuberculous infection in this population cannot be ruled out.

The risk that persons with latent tuberculous infection who acquire AIDS (or HTLV-III/LAV infection without AIDS) will develop clinically active tuberculosis cannot be quantified from currently available data. However, the 10% incidence of clinically overt tuberculosis is substantially higher than would be expected for any other group, including tuberculin-positive contacts of tuberculosis cases (6).

The reason for the decreased number of TB/AIDS patients reported from Florida in 1985 is unknown. It may represent reporting artifact or a decline in the number of susceptible individuals at risk.

Other health departments may wish to determine the degree to which tuberculosis morbidity is associated with AIDS and the prevalence of HTLV-III/LAV infection in tuberculosis patients. As recommended in recently published guidelines, as part of the evaluation of patients with tuberculosis, risk factors for HTLV-III/LAV should be identified (7). Voluntary testing of all persons with these risk factors is also recommended. In addition, testing for HTLV-III/LAV antibody should be considered for patients of all ages who have severe or unusual manifestations of tuberculosis. Such additional studies would help to determine the magnitude of the AIDS/TB problem in other areas and further define the population characteristics of persons with both tuberculosis and HTLV-III/LAV infection (with and without AIDS).

Treatment of tuberculosis patients who also have AIDS or HTLV-III/LAV infection should be instituted in accordance with recently published guidelines (7). Prevention of tuberculosis among persons with HTLV-III/LAV infection will require the identification of both HTLV-III/LAV and tuberculous infection and the administration of isoniazid preventive therapy as currently recommended (7). Counseling of persons being tested for HTLV-III/LAV infection should be provided in accordance with current recommendations to prevent the transmission of HTLV-III/LAV (8).

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Notice to Readers

Availability of Proposed National Strategies for the Prevention of Leading Work-Related Diseases and Injuries, Part I

In May 1985, the Association of Schools of Public Health, in cooperation with the National Institute for Occupational Safety and Health (NIOSH), convened the first National Symposium on Prevention of Leading Work-Related Diseases and Injuries in Atlanta, Georgia. Strategies proposed by NIOSH for the prevention of occupational lung diseases, musculoskeletal injuries, occupational cancers, severe occupational traumatic injuries, and cardiovascular diseases were discussed by professionals from all sectors of the occupational safety and health community. The publication from this symposium, *Proposed National Strategies for the Prevention of Leading Work-Related Diseases and Injuries, Part I*, is available from the Association of Schools of Public Health, 1015 Fifteenth Street N.W., Suite 404, Washington, D.C., telephone (202) 842-4812 (price: \$12).

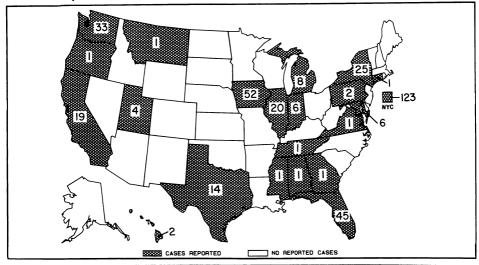


FIGURE I. Reported measles cases - United States, weeks 33-36, 1986

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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: ATTN: Editor, *Morbidity and Mortality Weekly Report*, Centers for Disease Control, Atlanta, Georgia 30333.

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