CENTERS FOR DISEASE CONTROL

MNNR

MORBIDITY AND MORTALITY WEEKLY REPORT

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# Current Trends

## Recommendations for Assisting in the Prevention of Perinatal Transmission of Human T-Lymphotropic Virus Type III/Lymphadenopathy-Associated Virus and Acquired Immunodeficiency Syndrome

The information and recommendations in this document are intended to assist health-care providers and state and local health departments in developing procedures to prevent perinatal transmission of human T-lymphotropic virus type III/lymphadenopathy-associated virus (HTLV-III/LAV), the virus that causes acquired immunodeficiency syndrome (AIDS).

This document contains recommendations for providing counselling and, when indicated, testing for antibody to HTLV-III/LAV for women who are at increased risk of acquiring the virus and who are either pregnant or may become pregnant. It is important that these women know they are at risk, as well as know and understand their HTLV-III/LAV-antibody status, so they can make informed decisions to help prevent perinatally acquired HTLV-III/LAV.

Through counselling, uninfected women can learn how to avoid becoming infected, and infected women can choose to delay pregnancy until more is known about perinatal transmission of the virus. If already pregnant, infected women can be provided information for managing the pregnancy and caring for the child.

Currently available data indicate that most pediatric HTLV-III/LAV infections and AIDS are acquired perinatally from infected women, but additional studies are needed to better quantify the risk of transmission from an infected pregnant woman to the fetus or newborn.

The recommendations below pertain to women. However, men who are HTLV-III/LAVantibody positive should also be counselled regarding the risks of sexual and perinatal transmission, so they can refer for counselling and testing their sex partners who may be pregnant or considering pregnancy.

## BACKGROUND

**Pediatric AIDS Cases due to Perinatal Transmission**. As of December 1, 1985, 217 (1%) of the 15,172 AIDS cases reported to CDC occurred among children under 13 years of age. Sixty percent of these children are known to have died. These 217 cases represent only the more severe manifestations of HTLV-III/LAV infection. Less severe manifestations, often described as AIDS-related complex (ARC), are not reported to CDC, so the number of children with clinically significant illness attributable to HTLV-III/LAV infection is greater than the reported cases of pediatric AIDS. In addition, a number of infected children are probably asymptomatic.

### HTLV-III/LAV - Continued

Of the 217 reported pediatric AIDS patients, 165 (76%) have as their only known risk factor a mother belonging to a group with increased prevalence of HTLV-III/LAV infection. An additional 18% of the pediatric cases are attributable to transfusions of blood or blood products, while risk factor information is missing or incomplete on the remaining 6%. Of the 217 children with AIDS, 48% had mothers who were intravenous (IV) drug abusers; 17% had mothers who were born in Haiti; and 10% had mothers who were sex partners of either IV drug abusers or bisexual men.

Of the patients with perinatally acquired AIDS, 45% resided in New York City, while Florida and New Jersey accounted for an additional 32%.

**Mechanisms of Perinatal Transmission**. It is believed that HTLV-III/LAV is transmitted from infected women to their fetuses or offspring during pregnancy, during labor and delivery, or perhaps shortly after birth. Transmission of the virus during pregnancy or labor and delivery is demonstrated by two reported AIDS cases occurring in children who had no contact with their infected mothers after birth. One was delivered by Cesarean section (1,2).

Transmission of the virus after birth has been implicated in one case of HTLV-III/LAV infection in a child born to a mother reported to have acquired the infection from a postpartum blood transfusion. Since she breastfed the child for 6 weeks, the authors suggested breastfeeding as the possible mode of transmission (3). Recently, HTLV-III/LAV has been isolated from the breast milk of infected women (4).

**Risk of Perinatal Transmission from Infected Mothers**. The rate of perinatal transmission of HTLV-III/LAV from infected pregnant women is unknown; however, available data suggest a high rate. In one study of 20 infants born to infected mothers who had already delivered one infant with AIDS, 13 (65%) had serologic and/or clinical evidence of infection with HTLV-III/LAV several months after birth (5,6). Since these women were selected on the basis of having previously transmitted HTLV-III/LAV perinatally, this study may overestimate the average risk of transmission for all infected pregnant women.

Perinatal transmission from an infected mother to her newborn is not inevitable. Of three children born to women who became infected with HTLV-III/LAV by artificial insemination from an infected donor, all were in good health and negative for antibody to the virus more than 1 year after birth (7). Another child, born to a woman who was already pregnant at the time of AIDS diagnosis and was demonstrated to be viremic, was seronegative, culture negative, and healthy at birth and at 4 months of age (8). In a retrospective study evaluating nine children under 5 years of age whose mothers were later diagnosed with AIDS, two (22%) had antibody to HTLV-III/LAV (9). The infection status of these women during pregnancy was unknown.

In these studies, the rate of transmission ranged from 0% (0/3) to 65% (13/20). Additional studies are needed to better define the rate of transmission and variables associated with it.

**Risk of Illness among Infected Pregnant Women**. Pregnancy is associated with suppression of cell-mediated immunity and increased susceptibility to some infections (10). The T-helper to T-suppressor ratio is decreased during normal pregnancy, being lowest in the third trimester, and returns to normal approximately 3 months postpartum (10). It is not known whether pregnancy increases an infected woman's risk of developing AIDS or ARC, but one study suggests it does (6). Fifteen infected women who were well at time of delivery were followed an average of 30 months after the births of their children. Five (33%) subsequently developed AIDS; seven (47%) developed AIDS-related conditions; and only three (20%) remained asymptomatic. These results may not apply to all infected pregnant women, but they do suggest an increased likelihood of developing disease when an HTLV-III/LAV infection occurs in association with pregnancy.

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## HTLV-III/LAV - Continued

**Prevalence of HTLV-III/LAV Infection**. Counselling and testing for antibody to HTLV-III/ LAV, when indicated, to reduce perinatal transmission of AIDS will be most beneficial in populations of women with increased prevalence of the virus (Table 1). These include: women who have used drugs intravenously for nonmedical purposes; women who were born in countries where heterosexual transmission is thought to play a major role (*11,12*); women who have engaged in prostitution; and women who are or have been sex partners of men who abuse IV drugs, are bisexual, have hemophilia, were born in countries where heterosexual transmission is thought to play a major role (*11,12*), or have evidence of HTLV-III/LAV infection.

The prevalence of antibody to HTLV-III/LAV in U.S. populations of men and women ranges from less than 0.01% in female blood donors to as high as 74% in men with hemophilia (13-15). Among heterosexual IV drug abusers, the prevalence of HTLV-III/LAV infection ranges from 2% to 59% in various geographic areas (16,17). Seroprevalence among the heterosexual partners of persons at increased risk for AIDS varies from 10% in female partners of asymptomatic, seropositive hemophilia patients to 71% in the female partners of men with AIDS or ARC (18-20). Among prostitutes, the HTLV-III/LAV antibody prevalence varies from 5% to 40%, depending on geographic area, with most of the women with positive tests relating histories of IV drug abuse (21). Among female blood donors in Atlanta, Georgia, who

Populations	Location	No. tested	Prevalence (%)
Intravenous drug	New York City	274	59
abusers (16,17)	$NJ^* < 5$ miles		
	from NYC <sup>†</sup>	204	56
	NJ 5-10 miles		
	from NYC	124	43
	NJ > 100 miles		
	from NYC	55	2
	San Francisco	53	9
Persons with hemophilia (13,14)			
Factor VIII concentrate recipients		234	74
Factor IX concentrate recipients		36	39
Cryoprecipitate only recipients		15	40
Female prostitutes (21)	Seattle, Washington	92	5
	Miami, Florida	25	40
Female sex partners			
of men with AIDS or ARC		7	71
(two separate studies) (19,20)		42	47
Female sex partners of men with			
asymptomatic HTLV-III/LAV infection (18)		21	10
Haitians (12)	New York City	97	4
	Miami, Florida	129	8
Female blood donors (15)	Atlanta, Georgia	28,354	0.01

TABLE 1. Prevalence of	HTLV-III/LAV	antibody in	heterosexual	populations -	United
States					

New Jersey.

<sup>†</sup>New York City.

### HTLV-III/LAV - Continued

denied belonging to high-risk groups, 0.01% had repeatedly reactive enzyme-linked immunosorbent assays (ELISAs) followed by reactive Western blot tests (15).

Commercially available tests to detect antibody to HTLV-III/LAV are ELISAs using antigens derived from whole disrupted HTLV-III/LAV. When the ELISA is reactive on initial testing, it is standard procedure to repeat the test on the same specimen. Repeatedly reactive tests are highly sensitive and specific for antibody to HTLV-III/LAV. However, when the ELISA is used to screen populations in which the prevalence of infection is very low (such as blood donors or women not in high-risk groups), the proportion of repeatedly reactive results that are falsely positive will be higher. For that reason, an additional test, such as a Western blot, is recommended following repeatedly reactive ELISA results, especially in low-prevalence populations. In populations with high prevalence of infection (e.g. homosexual men or IV drug abusers), most repeatedly reactive ELISAs are reactive by Western blot or another test. For example, among 109 IV drug abusers whose sera were repeatedly reactive by ELISA, over 85% were reactive by Western blot (*22*). In contrast, in a low-prevalence population of 69 female blood donors whose sera were repeatedly reactive by Western blot (*15*).

Due to the seriousness of the implications of HTLV-III/LAV-antibody reactivity, it is recommended that repeatedly reactive ELISAs be followed by an additional test, such as the Western blot. Women with sera repeatedly reactive by ELISA and reactive by Western blot should have a thorough medical evaluation. HTLV-III/LAV has been isolated from a single specimen in 67%-95% of persons with specific antibody (23,24). Because infection has been demonstrated in asymptomatic persons, the presence of specific antibody should be considered presumptive evidence of current infection and infectiousness.

### RECOMMENDATIONS

Women Who Should be Offered Counselling and Testing. Counselling services and testing for antibody to HTLV-III/LAV should be offered to pregnant women and women who may become pregnant in the following groups: (1) those who have evidence of HTLV-III/LAV infection; (2) those who have used drugs intravenously for nonmedical purposes; (3) those who were born in countries where heterosexual transmission is thought to play a major role (11,12); (4) those who have engaged in prostitution; (5) those who are or have been sex partners of: IV drug abusers, bisexual men, men with hemophilia, men who were born in countries where heterosexual transmission is thought to play a major role (11,12), or men who otherwise have evidence of HTLV-III/LAV infection. If data become available to show that HTLV-III/LAV-antibody prevalence is increased in other groups or settings, counselling and testing programs should be extended to include them. Routine counselling and testing of women who are not included in the above-mentioned groups is not recommended due to low prevalence of infection and concern about interpretation of test results in a low-prevalence population. However if a woman requests it, the service should be provided in accordance with these recommendations.

Settings for Offering Counselling and Testing. Counselling and testing for antibody to HTLV-III/LAV to prevent perinatal transmission is recommended in the setting of any medical service in which women at increased risk are commonly encountered. These include services for treating IV drug abuse (i.e., detoxification and methadone maintenance), comprehensive hemophilia treatment centers, sexually transmitted disease clinics, and clinics that serve female prostitutes. In addition, services related to reproduction, such as family planning and infertility services, gynecologic, premarital, or preconceptual examinations, and prenatal and

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### HTLV-III/LAV -- Continued

obstetric services should also consider offering counselling and testing if high-risk women are seen at these facilities. Testing for antibody to HTLV-III/LAV should be performed with the woman's consent after counselling is provided regarding risk factors for infection, the interpretation of test results, the risks of transmission, and the possible increased likelihood of disease among women infected with HTLV-III/LAV in association with pregnancy. The counselling and testing must be conducted in an environment in which confidentiality can be assured. In settings where confidential counselling and testing cannot be assured, information should be provided and referrals made to appropriate facilities.

**Frequency of Testing**. Detectable antibodies to HTLV-III/LAV may not develop until 2-4 months after exposure. This, and whether the woman is continuously exposed, should be taken into account when considering the need for, and frequency of, repeat testing. High-risk women should be offered counselling and testing before they become pregnant. During pregnancy, counselling and testing should be offered as soon as the woman is known to be pregnant. If the initial test is negative, repeat testing may be indicated near delivery to aid in the clinical management of the pregnant woman and newborn. If this final test is negative and the mother's risk of exposure no longer exists, she may safely consider breastfeeding the child, and management of the child need not include the same concerns that would be appropriate if the woman had had a positive test or if she were at high risk and had not been tested at all.

**Counselling Women with Positive Results**. Women with virologic or serologic evidence of HTLV-III/LAV infection should be counselled regarding their own risk of AIDS and the risk of perinatal and sexual transmission of HTLV-III/LAV. Infected women should be counselled to refer their sex partners for counselling and testing. If the partners of these women are not infected, both members of the couple should be counselled on how they may modify their sexual practices to reduce the risk of HTLV-III/LAV transmission to the uninfected partner. In addition, the couple should be told not to donate blood, organs, or sperm and should be discouraged from using IV drugs and advised against sharing needles and syringes. When seeking medical or dental care for intercurrent illness, they should inform those responsible for their care of their positive antibody status so appropriate evaluation can be undertaken. Recommendations for providing information and advice to individuals infected with HTLV-III/LAV have been published (*25*).

Infected women should be advised to consider delaying pregnancy until more is known about perinatal transmission of the virus. Pregnant infected women may require additional medical and social support services due to an enhanced risk of opportunistic infections and psychosocial difficulties during and after pregnancy. Obstetric-care providers should be alert to signs and symptoms of HTLV-III/LAV and related opportunistic infections in these pregnant women and to the need for specialized medical care.

HTLV-III/LAV-infected women should be advised against breastfeeding to avoid postnatal transmission to a child who may not yet be infected. The child should receive follow-up pediatric evaluations to determine whether he/she has HTLV-III/LAV infection, and to diagnose and treat promptly any diseases that may be secondary to HTLV-III/LAV infection. Recommendations for educating and providing foster care for infected children have been published (*26*).

Counselling Women with Negative Test Results. A negative ELISA for HTLV-III/LAV antibody in women who have no clinical or laboratory evidence of HTLV-III/LAV infection is evidence that they have probably not been infected. However, uninfected women who have sex

### HTLV-III/LAV -- Continued

partners with evidence of HTLV-III/LAV infection or with an increased risk of becoming infected should be informed that sexual intercourse increases their risk of infection. These women should be informed of the risks associated with pregnancy if they become infected and advised to consider delaying pregnancy until more is known about perinatal transmission of the virus or until they are no longer considered to be at risk for acquiring the virus. In addition to preventing pregnancy, the consistent and proper use of condoms can offer some protection against HTLV-III/LAV infection.

High-risk women, even if seronegative, should be told not to donate blood or organs. To decrease their risk of becoming infected, IV drug abusers should be encouraged to seek treatment for their drug abuse. Persons counselling IV drug abusers should know that IV drug abuse is often strongly ingrained and compulsive. Despite educational efforts and encouragement for treatment, some addicts will continue to abuse drugs or relapse after treatment. If drug abuse continues, they should be advised not to share needles or syringes and to use only sterile equipment.

(Continued on page 731)

	4	8th Week Endi	ng	Cumulat	ive, 48th Week	Ending
Disease	Nov. 30, 1985	Dec. 1, 1984	Median 1980-1984	Nov. 30, 1985	Dec. 1 1984	Median 1980-1984
Acquired Immunodeficiency Syndrome (AIDS)	111	138	N	7,316	3.911	N
Aseptic meningitis	158	227	222	9,467	7,655	8.954
Encephalitis: Primary (arthropod-borne						-,
& unspec)	7	22	23	1,173	1.098	1.430
Post-infectious	1	3	2	109	106	83
Gonorrhea: Civilian	10,908	15,535	16,913	775.020	777.626	882.338
Military	125	240	263	16,719	19,545	24,044
Hepatitis: Type A	497	455	476	21.040	19,907	21,145
Туре В	505	550	486	24,188	23,993	20,172
Non A, Non B	58	80	N	3,721	3,520	N
Unspecified	105	103	168	5,286	4,746	7,986
Legionellosis	16	17	N	615	641	N
Leprosy	4	7	7	332	217	217
Malaria	12	10	21	935	921	985
Measles; Total*	14	15	15	2.628	2,516	2.516
Indigenous	14	12	N	2,191	2,222	N
Imported	-	3	N	437	294	N
Meningococcal infections: Total	38	55	49	2,165	2,461	2,508
Civilian	38	55	49	2,161	2,457	2,493
Military			-	4	4	14
Mumps	39	67	81	2,655	2,722	4.267
Pertussis	55	36	36	3,039	2,150	1,624
Rubella (German measles)	3	11	21	590	707	1,966
Syphilis (Primary & Secondary): Civilian	320	511	521	23,485	25,709	28,595
Military	3	3	5	132	271	351
Toxic Shock syndrome	6	5	N	324	436	N
Tuberculosis	320	499	515	19.621	19,558	23.485
Tularemia	2	4	4	156	276	260
Typhoid fever	6	4	8	350	345	428
Typhus fever, tick-borne (RMSF)	4	9	5	675	821	1.087
Rabies, animal	58	90	90	4,896	5,009	5,831

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

### TABLE II. Notifiable diseases of low frequency, United States

	Cum 1985		Cum 1985
Anthrax	-	Leptospirosis	33
Botulism: Foodborne (Alaska 8)	51	Plague	16
Infant (Idaho 1)	60	Poliomyelitis: Total	5
Other	1	Paralytic	5
Brucellosis	125	Psittacosis (Ariz. 1)	102
Cholera	3	Rabies, human	1
Congenital rubella syndrome		Tetanus (Pa. 1)	67
Congenital syphilis, ages < 1 year	149	Trichinosis (Upstate N.Y. 1)	56
Diphtheria	2	Typhus fever, flea-borne (endemic, murine)	25

\*There were no cases of internationally imported measles reported for this week.

		Aseptic	Encer	phalitis			н	lepatitis (\	/iral), by ty	pe		
Reporting Area	AIDS	Menin- gitis	Primary	Post-in- fectious		orrhea ilian)	A	В	NA,NB	Unspeci- fied	Legionel- losis	Leprosy
, , , , , , , , , , , , , , , , , , , ,	Cum. 1985	1985	Cum. 1985	Cum. 1985	Cum. 1985	Cum. 1984	1985	1985	1985	1985	1985	Cum. 1985
UNITED STATES	7,316	158	1,173	109	775,020	777,626	497	505	58	105	16	332
NEW ENGLAND Maine N.H.	251 11 3	13	33 7	-	20,879 1,067 523	21,022 927 682	12	25	1	6	-	7
Vt.	2		-	-	307	356			-	-	-	-
Mass. R.I.	149 12	6	18	-	8,636 1,724	8.924 1.531	11	12 3	1	5	2	7
Conn.	74	7	8	-	8,622	8,602	1	10	-	1	-	-
MID ATLANTIC Upstate N.Y. N.Y. City	2,801 300 1,925	22 12 1	144 45 16	11 4	117,363 16,772 56,466	104,459 16,753 40,502	44 34	47 18	4	3 1	-	36 1 31
N.J. Pa	415 161	9	28 55	7	17,856 26,269	18,596 28,608	4 6	20 9	2	1	-	4
E.N. CENTRAL	-								-		2	
Ohio	333 52	17 12	342 139	20 4	107.001 29.345	110,884 28,815	17 9	43 24	4 1	5	2	21 3
Ind. III	24 177	2	66 53	2 8	11,479 25,109	12.011 25,950	3	6 1	-	2	-	16
Mich. Wis.	56	3	63	-	30,751	31,929	4	12	3	3	-	2
	24	-	21	6	10,317	12,179	-	-	-	-	-	-
W.N. CENTRAL Minn.	106 35	7	75 36	4	38,249 5,649	38,164 5,748	9 3	15 7	1	1	-	2 1
lowa Mo.	12	2	28	-	4,114	4,197	-	3	-	1	-	-
N. Dak	43 1	2	-	1	18,473 254	18,446 362	-	4	-	-	-	1
S. Dak. Nebr	1 3	-	- 5	-	736 3,258	920 2,759	5	-	-	-	-	-
Kans	11	1	6	2	5,765	5,732	1	1	-	-	-	-
S. ATLANTIC	1.157	30	134	44	172,409	196,517	29	83	12	2	2	8
Del. Md.	10 132	1	8 28	1	4,125 27,216	3,748 22,237	3	10	2	-	-	1
D.C. Va	165	10	27	7	14,663	14,088	-	7	-		-	-
W. Va	94 6	10	38	-	17,866 2,419	18,569 2,483	2	11	1	-	2	-
N.C. S.C.	59 27	5 1	27 6	1	33,800 20,199	31,770 20,023	3 2	6 5	2	1	-	2
Ga. Fla	171	- 9	-	35	52,121	36,655 46,944	5 14	20 24	2 5	2	-	1 4
	493		-								-	4
E S. CENTRAL Ky	66 17	15 4	37 17	4	70,881 8,111	70,673 8,396	3 1	39 3	2	2	1	-
Tenn. Ala	16 26	3 8	6 11	4	27,279 21,251	28,276 21,302	2	18 12	1	2	1	
Miss.	20	-	3	-	14,240	12,699	-	6	-	-	-	-
W.S. CENTRAL	519	18	137	2	102.509	104,676	64	47	3	33	4	31
Ark. La.	10 86	-	7 9	1	9,670 19,579	9,575 22,803	1	4	1	1	-	1 7
Okla. Tex.	16 407	2 16	24 97	1	11,547 61,713	11,579 60,719	4 59	3 40	2	3 29	2	23
MOUNTAIN							76		7		3	23
Mont.	137 1	6	57	6	25,958 751	25,526 965	1	41	-	11	-	9
ldaho Wyo.	1	-	1	-	895 593	1,195 674	2	1	1	-	i	-
Colo	45	1	23	2	7,553	7,317	15	10	2	4	-	2
N. Mex. Ariz.	13 52	3 1	3 17	-	2,879 7,911	3,070 7,167	37	6 12	4	6	-	1
Utah Nev	13 12	1	10 3	4	1,260 4,116	1,204 3,934	9 5	4 8	-	-	2	4
PACIFIC	1,946	30	214	18	119,771	105,705	243	165	24	42	4	218
Wash.	108	1	13	1	9,127	8,331	18	13	7	42	-	37
Oreg. Calif.	30 1,787	28	1 160	17	5,950 100,250	6,109 86,827	50 165	16 135	3 14	41	4	4 156
Alaska Hawaii	3	-	40	-	2,871 1,573	2,655 1,783	10	1	-	-	:	21
Guam		, U						-	-		-	3
P.R.	1 88	2	7	2	161 2,912	221 3,098	U 1	U 13	U -	U 1	U	2
V.I. Pac. Trust Terr.	2	U U	-	-	369 146	487	U U	U U	U U	UU	UU	20
					140		J		0	0	0	

## TABLE III. Cases of specified notifiable diseases, United States, weeks ending November 30, 1985 and December 1, 1984 (48th Week)

N: Not notifiable

U: Unavailable

Measles (Rubeola) Menin-											vveek)				
Reporting Area	Malaria	Indig	enous			Total	gococcal	Mu	mps		Pertussi	s		Rubella	
Reporting Area	Cum. 1985	1985	Cum. 1985	1985	Cum. 1985	Cum. 1984	Cum. 1985	1985	Cum. 1985	1985	Cum. 1985	Cum. 1984	1985	Cum. 1985	Cum. 1984
UNITED STATES	935	14	2,191	-	437	2,516	2,165	39	2,655	55	3,039	2,150	3	590	707
NEW ENGLAND Maine	53 4	-	38	-	88 1	106	105 4	5	64 6	1	205 10	71 4	-	12	19
N.H. Vt.	5	-	-	-	-	36	15 10	-	11 3	-	112	17	-	2	1 1
Mass. R.I.	25 6	-	34	-	84	49	21	4	21	1	3 47	23 19	-	6	16
Conn.	12	-	4	-	3	14	17 38	1	15 8	-	22 11	4	-	4	1
MID ATLANTIC Upstate N.Y.	150 49	-	193 72	-	38 13	173	381	6	313	3	240	191		226	226
N.Y. City N.J.	59	-	67	-	12	52 109	152 65	5	166 33	2	115 27	103 16	-	18 185	99 103
Pa.	18 24	-	17 37	-	10 3	7 5	59 105	1	48 66	1	11 87	13 59	1	9 14	23 1
E.N. CENTRAL Ohio	60	-	443	-	90	697	375	5	916	8	712	490		34	100
Ind.	11 4		55	-	54	9 3	117 49	-	277 37	4	117 201	75 231		1	2 5
III. Mich.	21 18	2	293 37	:	10 23	181 464	84 97	2 3	203 313	1	56 48	27 31	-	16	63
Wis.	6	-	58	-	1	404	28	-	86	3	290	126	-	16 1	22 8
W.N. CENTRAL Minn.	33 16	:	2	-	10 6	58 47	107 27	1	84 1	4	233	124	-	19 2	39
lowa Mo.	2	-	:	-	-	-	10	1	17	-	117 31	16 13	-	ī	4
N. Dak.	5 2	-	1	-	2 2	6	42 5	1	15 4	1	31 10	20	-	7 2	3
S. Dak. Nebr.	1	-	-	2	-	-	3 9	-	-3	1 2	5 10	9 12	-	-	-
Kans.	6	-	1	-	-	5	11	-	44	-	29	54	-	7	31
S. ATLANTIC Del.	106	8	289	-	30	66	417 11	3	263 1	20	399 2	217 2	-	56 2	28
Md. D.C.	26 8	-	106	-	9 1	22 8	56 7	-	33	16	173	61	-	6	2 1
Va. W. Va.	20	-	21	-	7	5	51	-	47	2	1 21	19	-	2	1
N.C.	2 9	-	31 9	2	2	1	8 56	1	73 19	1	4 34	11 35		9 1	-
S.C. Ga.	10	1	- 8	-	3	1 2	34 75	-	11 28	-	2 93	2 17	-	3 4	-
Fla.	31	8	105	Ţ.	8	27	119	2	51	1	69	70	-	29	2 22
E.S. CENTRAL Ky.	11 4	-	-	-	7 5	6 1	96 9	-	30 8	3	67	14	-	3	12
Tenn. Ala.	6	-	-	-	1	2	37	-	18	1	8 26	2 7	-	3	6
Miss.	1	-	-	-	1	3	26 24	-	1 3	2	26 7	1 4	-	-	3 3
W.S. CENTRAL Ark.	93 3	4	425	-	15	621 8	185 19	8	302	9	527	334	2	41	66
La. Okla.	1	-	42	-	-	8	25	-	7 2	-	14 17	22 10		1	3
Tex.	7 82	4	383	-	1 14	8 597	33 108	N 8	N 293	9	160 336	243 59	2	1 39	63
MOUNTAIN Mont.	52	2	499 122	-	51	145	97	7	241	2	215	122	-	5	22
Idaho	3	2	126	-	17 18	23	11 5	-	12 9	1	9 9	19 7	-	1	1
Wyo. Colo.	1 15	2	5 8	:	7	- 6	6 25	1	2 26	-	1	6	-	-	3
N. Mex. Ariz.	15	-	1	-	5	88	13	Ň	Ň	1	90 13	45 12	-	2	2 1
Utah	11 2	-	237	-	4	1 27	22 9	6	121 6	1	40 53	24 7	-	1	4 7
Nev. PACIFIC	5	-	- 302	-	-	-	6	-	65	-	-	2	-	1	4
Wash.	377 23	-	90	-	108 39	644 154	402 66	4	442 35	5 2	441 82	587 322	1	194 14	195 1
Oreg. Calif.	14 321	-	4 190	-	1 63	327	35 280	N 4	N 379	1	50	30	-	2	2
Alaska Hawaii	2	-	18	:	5	163	280 9 12	-	379 9 19	2	262 30 17	157 3 75	1	135	185
Guam	1	υ	10	U	1	90		U	6	- U		/5	- U	42 2	6 4
P.R. V.I.	-	Ū	67 4	U	6	212	14	3 U	155 3	2 U	15	1	-	27	20
Pac. Trust Terr.	-	Ũ	-	Ū	-	-	-	Ŭ	3	U	:	-	U U	-	

## TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending November 30, 1985 and December 1, 1984 (48th Week)

\*For measles only, imported cases includes both out-of-state and international importations. §Out-of-state U: Unavailable

N: Not notifiable

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	Toxic-												
Reporting Area	(Primary &	(Civilian) Secondạry)	Toxic- shock Syndrome		culosis	Tula- remia	Typhoid Fever	(Tick-borne) (RMSF)	Rabies, Animal				
	Cum. 1985	Cum. 1984	1985	Cum. 1985	Cum. 1984	Cum. 1985	Cum. 1985	Cum. 1985	Cum. 1985				
UNITED STATES	23.485	25.709	6	19.621	19,558	156	350	675 <b>+4</b>	4,896				
NEW ENGLAND Maine	547 15	493 10	-	663 44	585 30	4	14	9	20				
N.H. Vt.	38	14	-	20	27	-	1	1	1				
Mass. R I	270	277	-	391	319	4	10	6	11				
Conn	17 202	22 169	-	50 150	48 154	-	3	1	7				
MID ATLANTIC Upstate N.Y.	3.322	3.455	-	3,499	3.563	2	53	37	591				
N.Y. City	244 2.00 <b>4</b>	305 2,064	-	600 1,715	542 1,480	1	14 27	9 5	139				
N.J. Pa	643 431	610 476	-	476 708	787 754	1	11 1	4 19	39 413				
E.N. CENTRAL	908	1.264	-	2.408	2,555	3	43	39 + -	170				
Ohio Ind.	135 75	218 126	-	410 309	455 315	-	11 3	23 5	28 23				
III. Mich	414 224	502 346	-	1.046 509	1.065 572	2	19 8	9 2	38 25				
Wis	60	72		134	148	1	2		56				
W.N. CENTRAL Minn	222 42	334 86	1	562 120	595 105	48 1	13 6	42	867 175				
lowa	18	11	1	53	62	-	3	1	142				
Mo. N. Dak.	126 2	170 9	-	269 9	295 13	31	3	7 1	48 128				
S. Dak. Nebr	6	1 15		31 12	22 30	8 2	- 1	2	294 34				
Kans	6 22	42		68	68	6	-	27	46				
S. ATLANTIC	5.778 36	7,514 19	2	4.033 41	4,079 52	6 1	42	320 <b>+Z</b>	1,234				
Md. D.C.	416	444	-	362	374	-	11	26	626				
Va	306 282	316 388	-	141 406	161 400	1	3	25	169				
W Va N C	25 631	20 799	1	102 539	127 616	4	1 4	133 <b>Z</b>	28 12				
S C.	743	718		489	497	-	3	71	59				
Ga Fla	3.339	1.311 3.499	1	677 1,276	637 1,215	-	3 17	48 12	196 143				
E S CENTRAL	2.039	1,852	-	1,694 414	1,836 436	9	5 1	77 <b>+1</b> 15	233 34				
Tenn.	65 592	480	-	502	532	7	2	33	72				
Ala. Miss	611 771	625 655	-	499 279	536 332	1 1	2	15 14	120 7				
W.S. CENTRAL	5.673	6,278	1	2,485	2,315	61	32	134 +1	809				
Ark La	308 1,008	200 1,098	-	286 352	263 337	36	1	16 4	136 19				
Okla Tex	178 4.179	197 4,783	1	236 1,611	221 1,494	19 6	2 29	90 24 1	103 551				
MOUNTAIN	714	627	-	526	530	15	13	14	437				
Mont. Idaho	6 7	3 23	-	46 25	17 28	4	-	6	223 10				
Wyo.	13	7	-	7	4		-	4	33				
Colo. N. Mex.	201 121	169 88	-	82 83	66 100	• 2 2	5 4	2	25 12				
Ariz. Utah	297 9	227 18	-	230 17	243 35	4 3	3 1	-	119 4				
Nev	60	92	-	36	37	-	-	2	11				
PACIFIC Wash	4.282 97	3.892 141	2	3,751 214	3,500 184	8	135	3	535 4				
Oreg.	100	106		124	141	1	1 5	-	4				
Calif. Alaska	4,014 4	3,566 6	2	3,141 95	2,901 74	4	123 2	3	524 3				
Hawaii	67	73	-	177	200	-	4	-	-				
Guam P.R.	2 813	733	U -	35 330	50 359	-	3 4	-	34				
V.I.	3	11	U U	1	4	-	52	-	-				
Pac. Trust Terr.	13	-	U	16	-	-	-	-	-				

## TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending November 30, 1985 and December 1, 1984 (48th Week)

U Unavailable

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## TABLE IV. Deaths in 121 U.S. cities,\* week ending November 30, 1985 (48th Week)

		All Caus	ses, By A	ge (Year	s)				·	All Cau	ses, By /	Age (Yea	rs)		
Reporting Area	All Ages	≥65	45-64	25-44	1-24	< 1	P&I** Total	Reporting Area	All Ages	≥65	45-64		1-24	<1	P&I** Total
NEW ENGLAND	489	352	89	28	6	14	48	S. ATLANTIC	1,173	713	272	88	35	65	46
Boston, Mass. Bridgeport, Conn.	95 40	48 29	30 9	9	3	5	11	Atlanta, Ga.	109	58	31	9	7	4	40
Cambridge, Mass.	23	17	3	3	1	1	2 2	Baltimore, Md. Charlotte, N.C.	259	155	50	24	10	20	12
Fall River, Mass.	17	16	-	1	-	-	-	Jacksonville, Fla.	74 60	42 42	21 15	6 1	2	3 2	6 2
Hartford, Conn. Lowell, Mass.	44 27	30 19	9	2	2	1	2	Miami, Fla.	145	89	39	11	2	4	2
Lynn, Mass.	16	13	7 3	1	-	-	1	Norfolk, Va.	47	24	8	3	4	8	6
New Bedford, Mass		14	3	2	2	1	3	Richmond, Va. Savannah, Ga.	59 51	38	13 12	4	2	2	4
New Haven, Conn.		35	1	-	-	1	2	St. Petersburg, Fla	51 1. 91	66	14	1	1	1 5	3 4
Providence, R.I. Somerville, Mass.	47 2	39 1	2 1	4	-	2	6	Tampa, Fla.	57	35	10	ő	i	5	3
Springfield, Mass.	41	30	8	2	2	1	7	Washington, D.C. Wilmington, Del.	194	107	53	17	6	11	5
Waterbury, Conn.	30	22	5	3	-	-	6	Winnington, Der.	27	20	6	1			1
Worcester, Mass.	50	39	8	1		2	2	E.S. CENTRAL	613	383	138	30	24	38	37
	2,309	1,541	488	185	51	44	99	Birmingham, Ala.	122	71	31	7	6	7	4
Albany, N.Y.	64	46	13	1	3	1	2	Chattanooga, Ten Knoxville, Tenn	n. 57 75	45 53	10 16	1 3	1	1	5
Allentown, Pa. Buffalo, N.Y.	17 108	15	2	-	-	-	-	Louisville, Ky.	101	53 66	29	3	2 2	1	3 12
Camden, N.J.	28	74 21	25 7	6	-	3	9	Memphis, Tenn.	123	70	22	5	4	22	7
Elizabeth, N.J.	18	16	2	-	2	-	1	Mobile, Ala. Montgomery, Ala.	45	28	8	2	5	2	2
Erie, Pa.†	37	27	9	1	-	-	2	Nashville, Tenn.	21 69	12 38	6 16	2 7	1 3	5	4
Jersey City, N.J. N.Y. City, N.Y.	40 1,203	21 789	12 234	6 132	27	1			00	, 50	10	,	3	5	4
Newark, N.J.	15	8	234	2	27	21	51 3	W.S. CENTRAL	960	559	232	95	40	34	45
Paterson, N.J.	31	14	11	3	-	3	1	Austin, Tex. Baton Rouge, La.	41 37	25	6	3	2	5	3
Philadelphia, Pa. Pittsburgh, Pa.†	297 61	197 40	69	14	9	8	13	Corpus Christi, Te	x. 44	21 25	8 10	3 7	2	3	2 3
Reading, Pa.	33	25	13 7	4	4	1	2	Dallas, Tex.	114	61	27	19	5	ż	7
Rochester, N.Y.	111	74	26	7	4		2 5	El Paso, Tex. Fort Worth, Tex.	36	25	8	1	1	1	
Schenectady, N.Y.	38	29	6	1		2	1	Houston, Tex.	78 291	40 159	19 82	8 27	8 10	3 13	4
Scranton, Pa.† Syracuse, N.Y.	23 100	17 69	6 22	4		-	-	Little Rock, Ark.	22	14	4	27	10	1	4
Trenton, N.J.	27	18	7	4	3	2 2	1	New Orleans, La	77	48	20	7	2		1
Utica, N.Y.	27	18	7	1	1	<u>د</u>	3	San Antonio, Tex. Shreveport, La.	120 48	70 36	28 10	13	6	3	9
Yonkers, N.Y.	31	23	5	3	-	-	2	Tulsa, Okia.	40 52	35	10	3	1 2	2	5 3
E.N. CENTRAL Akron, Ohio	1,952	1,383			66	80	86	MOUNTAIN	565	374	107	50	20	14	40
Canton, Ohio	31 44	23 29	6	1	-	1	1	Albuquerque, N.M	ex. 71	45	16	6	1	3	<b>4</b> 0 5
Chicago, III.§	553	462	10 11	3 26	1 16	1 37	4 16	Colo. Springs, Col Denver, Colo		18	6	1		1	6
Cincinnati, Ohio	127	77	32	10	3	5	7	Las Vegas, Nev.	92 87	71	14	6	1		7
Cleveland, Ohio	157	87	43	13	4	10	4	Ogden, Utah	20	45 12	26 3	11	4	1	8 2
Columbus, Ohio Dayton, Ohio	132 83	81 58	32 20	12	5	2	7	Phoenix, Ariz.	89	57	16	8	4	4	4
Detroit, Mich.	155	107	20	2 14	3 9	ĩ	2 1	Pueblo, Colo.	24	19	2	3	-		1
Evansville, Ind.	35	26	6	1	2		ż	Salt Lake City, Uta Tucson, Ariz.	h 54 102	35 72	7 17	7	3	2	7
Fort Wayne, Ind. Gary, Ind.	26	17	4	2	2	1	1		102	12	. /	4	6	3	'
Grand Rapids, Mich	9 1.63	6 42	1 15	2 2	3	1	4	PACIFIC	1.719	1,127	317	146	55	66	107
Indianapolis, Ind.	150	89	35	10	3 7	9	2	Berkeley, Calif. Fresno, Calif.	23 90	16 59	4	3 7	÷	-	2
Madison, Wis.	35	27	2	3	1	2	4	Glendale, Calif.	15	59 11	19 3		1	4	10 1
Milwaukee, Wis. Peoria, III.	89 33	67 30	12 3	2	3	5	4 3	Honolulu, Hawaii	57	39	13	2	1	2	8
Rockford, III.	28	19	4	1	1	3	6	Long Beach, Calif. Los Angeles, Calif	89 379	53 247	15	9	4	8	14
South Bend, Ind.	30	23	5	2	-	-	5	Oakland, Calif.	3/9	247	67 12	40 6	13	6 3	6 4
Toledo, Ohio	103	66	26	7	3	1	11	Pasadena, Calif.	14	9	1	-	1	3	4
Youngstown, Ohio	69	47	16	2	3	1	2	Portland, Oreg.	136	104	17	8	4	3	8
W.N. CENTRAL	577	397	100	34	24	21	33	Sacramento, Calif San Diego, Calif.	146	95 95	35 30	11	2	3 7	14
Des Moines, Iowa	48	32	10	2	2	2	6	San Francisco, Ca		95	30	10 24	4 5	5	11
Duluth, Minn. Kansas City, Kans	9	7	1	÷	1	-	-	San Jose, Calif.	167	106	33	11	7	10	13
Kansas City, Kans. Kansas City, Mo.	37 116	20 85	6 23	4 6	3 1	3 1	4 2	Seattle, Wash.	121	75	20	10	9	7	4
Lincoln, Nebr.	28	17	23	3	2	i	1	Spokane, Wash. Tacoma, Wash.	53 40	41 26	6 7	2 3	2 2	2 2	7
Minneapolis, Minn.	61	40	4	4	8	5	2				,	3	2	4	
Omaha, Nebr. St. Louis, Mo.	59 133	42 100	11 22	2 3	2 2	2 6	4 10	TOTAL	10,357	6,829	2.050	771	321	376	541
St. Paul, Minn.	42	27	22	3	1	1	1								
Wichita, Kans.	44	27	7	6	4	-	3								

\* 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.

t 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.

ttTotal includes unknown ages.

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

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## HTLV-III/LAV - Continued

Additional Considerations. These recommendations will be revised as additional information becomes available. It is recognized that provision of the recommended professional counselling, HTLV-III/LAV-antibody testing and associated specialized medical services will take time to implement and may stress available resources, particularly in public facilities, which are most greatly affected. Health-care providers, social-service personnel, and others involved in educating and caring for HTLV-III/LAV-infected persons should be aware of the potential for social isolation and should be sensitive to the need for confidentiality. They should be familiar with federal and state laws, regulations, and policies that protect the confidentiality of clinical data and test results. Each institution should assure that specific mechanisms are in place to protect the confidentiality of all records and to prevent the misuse of information. Anonymous testing would not be appropriate if it prevents adequate counselling and medical follow-up evaluation.

Hospital precautions for managing infected women and infants should be patterned after those for caring for patients with HTLV-III/LAV infection (27,28). Additional recommendations will follow.

### **DEVELOPMENT OF THESE RECOMMENDATIONS**

The information and recommendations contained in this document were developed and compiled by CDC and the U.S. Public Health Service in consultation with individuals representing: the Conference of State and Territorial Epidemiologists, the Association of State and Territorial Health Officials, the American Public Health Association, the United States Conference of Local Health Officiers, the American Medical Association, the American College of Obstetricians and Gynecologists, the American Academy of Pediatrics, the Planned Parenthood Federation of America, the American Venereal Disease Association, the Division of Maternal and Child Health of the Health Resources and Services Administration, the National Institute on Drug Abuse of the Alcohol, Drug Abuse, and Mental Health Administration, the National Hemophilia Foundation, the Haitian Medical Association, the American Bar Foundation, and the Kennedy Institute of Ethics at Georgetown University. The consultants also included representatives of the departments of health of the areas with the largest number of perinatally transmitted pediatric AIDS cases: New York City, Florida, and New Jersey. These recommendations may not reflect the views of all individual consultants or the organizations they represented.

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## HTLV-III/LAV - Continued

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# Epidemiologic Notes and Reports

# Mucuna pruriens-Associated Pruritus - New Jersey

On October 6, 1985, a Paterson, New Jersey, Fire Department ambulance responded to a call reporting two people with severe pruritus. On arrival, the two emergency medical technicians (EMTs) found a Spanish-speaking couple living above a beauty salon who described

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#### MMWR

### Pruritus – Continued

severe itching, which they attributed to "voodoo beans" found in their beds. They displayed several fuzzy bean pods. Soon after their arrival, the EMTs developed pruritus. All four individuals went to an emergency room complaining of itching and skin discomfort. On examination, both members of the couple had erythematous macular rashes on their extremities and bodies; the EMTs had rashes on their arms. There were no respiratory problems. Because of the unknown etiology of the symptoms, two were given epinephrine injections; the others received antihistamines and topical steroid cream. Symptoms resolved within 1-2 hours of treatment. The admitting nurse, who put an arm around one patient, developed a pruritic erythematous area on her inner forearm approximately 20 minutes later. This resolved an hour after washing her skin with soap and water. A policeman who went to the apartment and a worker who collected trash outside the following day also developed itching and received similar emergency-room treatment. Patrons and employees of the shop below and neighbors of the couple had no similar symptoms over the 2-day period.

An industrial hygienist with the local health department went to the site in complete protective gear to look for possible chemical contamination from the beauty salon. Visual inspection and screens for ionizable organic vapors were negative, but he retrieved another bean pod. The botanical samples were sent to Rutgers University, where the plant was identified as *Mucuna pruriens*. Recommended decontamination procedures for the apartment included steam cleaning of all fabrics and rugs, HEPA Vac cleaning of floors and countertops, and destruction of any fabrics that could not be cleaned.

Reported by D Fairbrothers, MD, E Kirby, MD, Rutgers University, New Brunswick, Barnert Memorial Hospital Center, Paterson, RM Lester, PC Wegmann, Paterson Div of Health, F Marshall, WE Parkin, DVM, State Epidemiologist, New Jersey Dept of Health; Div of Field Svcs, Epidemiology Program Office, CDC.

**Editorial Note:** *Mucuna pruriens*, a legume known from Medieval Latin botanical works with the Latin synonym *Stizolobium pruriens* (1), was first described in the English literature in 1804. The plant is variously called cowitch, cowhage (derived from the Hindu name, "kiwach" or "bad rubbing"), kaunch, and pica-pica (2); the common names are not specific. It grows wild in the tropics, including India, and tropical islands, including the Bahamas (3,4); its range may extend to southern Florida.

Each 10- to 13-cm fruiting pod bears approximately 5,000 barbed, easily detachable spicules measuring 2 mm by 20  $\mu$ m that cause dermatitis through an inflammatory response, presumably an immediate hypersensitivity reaction. Hairs from dried pods, as in herbarium specimens, remain potent (5). The spicules have been sold commercially as itching powder and, at least through 1950, as an oral vermifuge (1,6).

In 1955, studies showed that introduction of one spicule through the epidermis with friction or pressure led to a burning itch lasting up to 30 minutes (1). Spicules could be removed from the skin by washing or by applying an adhesive tape. Mucunain, a protein with endopeptidase and dipeptidase activity, was identified as the active pruritic agent. The protein was extractable only from spicules using aqueous solutions and could be inactivated by autoclaving, changing the pH, or using a similar denaturing process that did not change the spicule structure. Further investigations confirmed the biochemical nature of the pruritic agent, identified as a thermolabile protein of molecular weight 40,000 (7).

Emergency-room personnel should be alert to the possibility that members of some subcultures in this country may be exposed to *Mucuna pruriens*. Pods and contaminated fabrics should be handled with caution. Symptoms resolve spontaneously within several hours, but antihistaminic therapy appears to be effective for faster resolution.

### Pruritus - Continued

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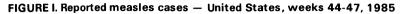
# Influenza Outbreaks — Alaska

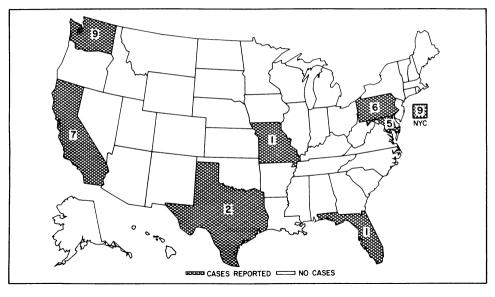
Alaska state health officials reported outbreaks of influenza-like illness in most areas of the state during the last 2 weeks of November. Although physicians have noted cases in adults, most cases have been reported in schoolchildren. Absentee rates in excess of 20% have been reported in schools located near Anchorage, Fairbanks, and Juneau in association with increased influenza-like illness among students.

Preliminary laboratory testing identified six type A(H3N2) influenza viruses in specimens collected from patients in Anchorage and Fairbanks, where sporadic influenza was reported from late September to mid-October. Laboratory identification of viral isolates from the recent outbreaks is pending.

Reported by D Ritter, L Curtin, Northern Regional Laboratory, JP Middaugh, MD, State Epidemiologist, Div of Public Health, Alaska Dept of Health and Social Svcs; Div of Field Svcs, Epidemiology Program Office, Influenza Br, Div of Viral Diseases, Center for Infectious Diseases, CDC.

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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 Week/y Report*, Centers for Disease Control, Atlanta, Georgia 30333.

Director, Centers for Disease Control James O. Mason, M.D., Dr.P.H. Director, Epidemiology Program Office Carl W. Tyler, Jr., M.D. Editor Michael B. Gregg, M.D. Assistant Editor Karen L. Foster, M.A.

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