

MNWR

MORBIDITY AND MORTALITY WEEKLY REPORT

Epidemiologic Notes and Reports

- 361 Cluster of Abortion-Related Complications — Texas
- 362 Feline Plague — California
- 368 Follow-up on Legionnaires' Disease — Tennessee, Vermont
- 368 Influenza — Florida
- Current Trends
- 367 Surveillance of Childhood Lead Poisoning — United States

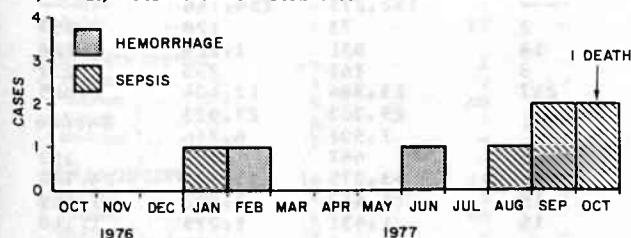
Epidemiologic Notes and Reports

Cluster of Abortion-Related Complications — Texas

In the period August 8-October 14, 1977, 5 women with septic complications following abortion were admitted to a south Texas hospital. One of the women died with septicemia and renal failure; *Clostridium perfringens* organisms grew from a blood culture.

A review of the hospital records at the 270-bed community facility revealed that only one case of septic complications following abortion had been admitted during the previous year; 2 more women had had such complications but were not admitted (Figure 1). Further investigation indicated that, according to patient or family interviews, all 5 women had had abortions in Mexico. All were of Hispanic descent; 4 were U.S. citizens.

FIGURE 1. Cases of illegally induced abortion complications, McAllen, Texas, October 1976-October 1977



Endometrial and/or blood cultures from 3 of the women grew *C. perfringens* organisms; a fourth patient had tetanus. Three patients were Medicaid recipients. Details of the fatal case follow.

A 27-year-old woman was hospitalized September 26, 1977, with symptoms of fever, knee pain, and lower abdominal pain. She had had 1 previous live birth (in 1973) and 1 abortion (1975). On September 1 and September 19 she had consulted her physician about sternal pain. On the second visit, when she indicated to her physician that she might be pregnant, he informed her that Medicaid no longer paid for abortions. She subsequently obtained an induced abortion in Mexico. On September 26 she was hospitalized. On

admission she had a temperature of 101.8 F, with a blood pressure of 110/80 and a pulse of 110. Her uterus was markedly tender and was not easily examined because of abdominal guarding. *C. perfringens* organisms were grown from blood and endometrium. On September 27 a hysterectomy was performed to remove the focus of infection. Her condition continued to deteriorate, however, and she died October 3 from renal and cardiac failure. On October 18, her private physician notified CDC of this death, and, at the request of the Texas Department of Health Resources, an investigation was conducted.

Reported by O Borrundes Falcon, MD, Coordinated General Services of Public Health in the States, Mexico City; R Vargas Machuca, MD, Coordinated Services, Tamaulipas State, Vittoria City; G Perales de la Garza, MD, Health Center, Reynosa, Mexico; B Velimirovich, MD, Pan American Health Organization, El Paso, Texas; FL Duff, MD, C Price, MD, CR Webb Jr, MD, State Epidemiologist, Texas Dept of Health Resources; Abortion Surveillance Br, Family Planning Evaluation Div, Field Services Div, Bur of Epidemiology, CDC.

Editorial Note: This is the first confirmed illegal abortion-related death reported to CDC since February 2, 1976, when a death occurred in El Paso, Texas. Since 1970, however, CDC has investigated 4 other clusters of abortion-related complications. Mexican public health authorities have been informed of the recent cluster and have initiated their own investigation.

Not all states have discontinued public financing of abortions, but Texas law requires that publicly financed health services be partially supported by federal funds. Therefore, by law, Texas withdrew financial support for abortions after federal support was withdrawn on August 4.

While this case was reported to CDC by a private physician, CDC is presently monitoring abortion-related morbidity and mortality through a sentinel hospital system both in states that have stopped funding abortion and in those which are continuing it.

Feline Plague — California

Two cases of plague in domestic cats were recently reported to the California Department of Health. The animals' case histories—of particular importance because of the potential for human transmission—are reported below.

On September 12, 2 young cats owned by a family living in Plumas County, California, were seen by a veterinarian. One of the cats had been ill for 2 days and presented with unilateral submandibular lymphadenopathy, swelling beneath the eyes, and sluggishness. The cat was subsequently observed to sneeze profusely, producing purulent material. The second cat had a temperature of 107 F and right submandibular lymphadenopathy. Plague was suspected by the veterinarian, who had diagnosed and treated plague in a cat 2 years earlier. A cervical lymph node aspirate of the second cat revealed bipolar staining bacilli, which were confirmed as *Yersinia pestis* by the Microbial Diseases Laboratory, California Department of Health. Both cats were treated with tetracycline and recovered.

The cats lived outdoors and were known to hunt small rodents. The culture-confirmed cat was seen with a chipmunk in its mouth 6 days before being brought to the veterinarian. Since one of the cats had been sneezing, chemoprophylaxis was recommended for the 13 persons

who had face-to-face contact with either animal; all contacts have remained well.

Reported by R Fitch, MD, L Smith, DVM, Plumas County; SL Christenson, MD, Plumas County Health Dept; EV Bayer, DVM, G Nygaard, SB Werner, MD, California Dept of Health, in California Morbidity Weekly Report No. 38, September 30, 1977.

Editorial Note: Domestic feline plague has been reported to be the most probable source of human infection in 2 instances in 1977 in the United States (1,2). The feline cases reported here further document this potential source of infection for humans living in plague-enzootic areas. Cats and dogs have been shown experimentally to be susceptible to plague infection, although cats may develop more severe illness (3). Veterinarians practicing in plague-enzootic areas should be aware that domestic pets brought to their offices for treatment may have plague. Suspicious animals should be reported to appropriate local and state health authorities.

References

1. MMWR 26:215, 1977
2. MMWR 26:337, 1977
3. Rust JH, Cavanaugh DC, O'Shita R, Marshall JD: The role of animals in the epidemiology of plague. I. Experimental infection of dogs and cats. J Infect Dis 9:522-526, 1971

Table I. Summary—Cases of Specified Notifiable Diseases: United States

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	43rd WEEK ENDING		MEDIAN 1972-1976	CUMULATIVE, FIRST 43 WEEKS		
	October 29, 1977	October 30, 1976		October 29, 1977	October 30, 1976	MEDIAN 1972-1976
Aseptic meningitis	120	87	93	3,797	2,695	3,323
Brucellosis	1	2	2	186	256	160
Chickenpox	1,021	1,202	---	152,273	154,766	---
Diphtheria	1	—	2	73	128	157
Encephalitis	31	34	34	851	1,224	1,224
{ Primary	1	3	3	167	230	237
{ Post-Infectious	265	263	237	13,384	12,404	8,065
{ Type B	573	586	921	25,303	27,923	34,666
{ Type A	188	151	—	7,507	6,766	—
{ Type unspecified	7	4	5	447	393	353
Malaria	158	182	156	53,375	35,388	24,748
Measles (rubeola)	24	13	18	1,443	1,292	1,159
Meningococcal infections, total	24	13	18	1,431	1,275	1,140
Civilian	—	—	—	9	17	26
Military	258	285	555	16,928	34,118	49,477
Mumps	78	16	---	1,369	800	---
Pertussis	73	79	128	18,944	11,047	15,321
Rubella (German measles)	2	3	3	56	55	80
Tetanus	659	645	---	25,170	27,322	---
Tuberculosis	5	—	2	139	113	113
Tularemia	9	7	10	332	350	350
Typhoid fever	15	14	9	1,066	841	741
Typhus, tick-borne (Rky. Mt. spotted fever)	---	---	---	---	---	---
Venereal Diseases:	---	---	---	---	---	---
Gonorrhea	21,895	18,338	---	826,393	836,412	---
{ Civilian	470	400	---	22,125	24,376	---
{ Military	445	475	---	17,113	20,060	---
Syphilis, primary and secondary	7	2	---	252	284	---
{ Civilian	60	38	43	2,559	2,508	2,508
{ Military	---	---	---	---	---	---
Rabies in animals	---	---	---	---	---	---

Table II. Notifiable Diseases of Low Frequency: United States

	CUM.		CUM.
Anthrax:	—	Poliomyelitis, total:	9
Botulism: Utah 1	87	Paralytic:	8
Congenital rubella syndrome:	14	Psittacosis: Mass. 1, Wisc. 1, Ariz. 1	58
Leprosy: Calif. 3	111	Rabies in man:	1
Leptospirosis: Ohio 2, Wash. 1	36	Trichinosis: Conn. 1, Ohio 1	94
Plague:	15	Typhus, murine: Texas 1	66

Table III
Cases of Specified Notifiable Diseases: United States
Weeks Ending October 29, 1977 and October 30, 1976 – 43rd Week

AREA REPORTING	ASEPTIC MENINGITIS	BRUCELLOSIS	CHICKEN-POX	DIPHTHERIA		ENCEPHALITIS			HEPATITIS, VIRAL			MALARIA	
						Primary: Arthropod-borne and Unspecified		Post Infectious	Type B	Type A	Type Unspecified		
						1977	1976	1977	1977	1977	1977		
	1977	1977	1977	1977	CUM. 1977	1977	1976	1977	1977	1977	1977	1977	CUM. 1977
UNITED STATES	120	1	1,021	1	73	31	34	1	265	573	188	7	447
NEW ENGLAND	7	-	126	-	-	-	1	-	17	13	7	2	25
Maine	-	-	13	-	-	-	-	-	2	1	1	1	1
New Hampshire*	-	-	10	-	-	-	-	-	-	1	-	-	3
Vermont*	-	-	6	-	-	-	-	-	2	1	1	-	2
Massachusetts	4	-	58	-	-	-	1	-	2	4	5	-	4
Rhode Island	2	-	14	-	-	-	-	-	2	2	-	-	5
Connecticut	1	-	25	-	-	-	-	-	9	4	-	1	10
MIDDLE ATLANTIC	24	-	95	-	5	4	2	-	42	44	26	1	98
Upstate New York	2	-	49	-	-	-	-	-	5	11	3	-	22
New York City	12	-	6	-	5	-	-	-	18	15	15	-	45
New Jersey*	3	-	NN	-	-	-	-	-	12	8	8	1	13
Pennsylvania*	7	-	43	-	-	4	2	-	7	10	-	-	18
EAST NORTH CENTRAL ..	17	-	330	-	-	8	5	-	31	91	12	-	33
Ohio*	3	-	13	-	-	2	-	-	5	26	-	-	12
Indiana*	9	-	37	-	-	4	-	-	5	2	4	-	2
Illinois	-	-	44	-	-	-	1	-	10	25	6	-	2
Michigan	5	-	116	-	-	-	4	-	9	28	2	-	14
Wisconsin*	-	-	120	-	-	2	-	-	2	10	-	-	3
WEST NORTH CENTRAL ..	2	1	195	-	1	2	10	1	8	25	5	1	35
Minnesota	-	-	1	-	-	-	-	-	-	8	-	1	12
Iowa	-	-	130	-	-	-	-	-	4	4	1	-	1
Missouri*	1	-	21	-	1	-	4	-	1	3	3	-	16
North Dakota	-	-	6	-	-	-	-	-	-	2	-	-	1
South Dakota*	-	-	-	-	-	-	-	-	-	-	-	-	1
Nebraska	1	1	4	-	-	1	-	-	1	3	-	-	-
Kansas	-	-	33	-	-	1	6	1	2	5	1	-	4
SOUTH ATLANTIC	13	-	95	-	-	1	4	-	59	85	19	1	85
Delaware	-	-	-	-	-	-	-	-	1	-	1	-	-
Maryland	-	-	5	-	-	1	1	-	11	6	3	-	21
District of Columbia ..	-	-	-	-	-	-	-	-	-	-	-	-	6
Virginia*	5	-	3	-	-	-	2	-	5	5	2	-	20
West Virginia*	-	-	70	-	-	-	-	-	5	4	-	-	2
North Carolina	1	-	NN	-	-	-	1	-	6	2	8	1	9
South Carolina	1	-	-	-	-	-	-	-	1	7	1	-	-
Georgia	-	-	-	-	-	-	-	-	15	31	-	-	8
Florida	6	-	17	-	-	-	-	-	15	30	4	-	19
EAST SOUTH CENTRAL ..	19	-	1	-	-	6	2	-	8	39	2	-	10
Kentucky*	3	-	1	-	-	1	-	-	1	7	-	-	4
Tennessee	5	-	NN	-	-	-	2	-	1	17	-	-	1
Alabama	6	-	-	-	-	-	-	-	1	2	2	-	4
Mississippi	5	-	-	-	-	5	-	-	5	13	-	-	1
WEST SOUTH CENTRAL ..	14	-	16	-	3	2	4	-	26	74	56	-	26
Arkansas	-	-	5	-	-	-	-	-	1	10	10	-	2
Louisiana	1	-	NN	-	-	-	3	-	6	20	4	-	2
Oklahoma*	7	-	-	-	-	-	-	-	5	14	9	-	-
Texas*	6	-	11	-	3	2	1	-	14	30	33	-	22
MOUNTAIN	4	-	82	-	5	3	-	-	18	63	25	1	14
Montana	-	-	24	-	-	1	-	-	1	3	-	-	2
Idaho	-	-	22	-	-	-	-	-	1	1	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	2
Colorado	2	-	17	-	-	2	-	-	5	12	3	1	7
New Mexico	-	-	-	-	4	-	-	-	1	2	2	-	1
Arizona	-	-	NN	-	1	-	-	-	9	42	19	-	2
Utah	2	-	19	-	-	-	-	-	1	3	1	-	-
Nevada*	-	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC	20	-	81	1	59	5	6	-	56	139	36	1	121
Washington	2	-	66	-	53	2	-	-	2	13	5	-	5
Oregon	1	-	-	-	-	-	-	-	1	9	3	1	2
California*	16	-	-	1	4	3	6	-	50	115	27	-	108
Alaska	1	-	15	-	2	-	-	-	1	1	1	-	2
Hawaii	-	-	-	-	-	-	-	-	2	1	-	-	4
Guam*	NA	NA	NA	NA	-	NA	-	-	NA	NA	NA	NA	-
Puerto Rico	-	-	6	-	-	-	-	-	-	1	2	-	2
Virgin Islands	-	-	-	-	-	-	-	-	-	-	-	-	-

NN: Not notifiable

NA: Not available

*Delayed reports: Aseptic meningitis: N.J. +2, Wisc. -3, W. Va. -1, Ky. -1, Okla. +6, Nev. +2; Brucellosis: Mo. -1, Texas +1; Chickenpox: Calif. +3, Guam +3; Encephalitis: Ind. +4, Wisc. -1, S. Dak. -2; Hep. B: N.H. +1, Vt. -2, Pa. +37, Ohio +1, Mo. +2, Okla. +6, Texas +1, Nev. +2, Guam +2; Hep. A: N.H. +3, Pa. +40, Ohio -1, Mo. -2, Va. -1, Okla. +10, Texas -3, Nev. +1; Hep. unsp.: Vt. +1, Pa. +3, Va. -3, Okla. +5, Texas -2, Calif. +3, Guam +2.

Table III-Continued
Cases of Specified Notifiable Diseases: United States
Weeks Ending October 29, 1977 and October 30, 1976 — 43rd Week

REPORTING AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS TOTAL			MUMPS		PERTUSSIS	RUBELLA		TETANUS
	1977	CUMULATIVE		1977	CUMULATIVE		1977	CUM. 1977	1977	1977	CUM. 1977	CUM. 1977
		1977	1976		1977	1976						
UNITED STATES	158	53,375	35,388	24	1,440	1,292	258	16,928	78	73	18,944	56
NEW ENGLAND	-	2,482	419	-	56	62	6	684	-	5	1,216	1
Maine	-	170	8	-	3	1	-	64	-	1	70	-
New Hampshire	-	510	9	-	3	6	-	92	-	-	243	-
Vermont	-	294	69	-	5	3	-	8	-	-	64	-
Massachusetts	-	634	35	-	15	20	1	127	-	4	385	-
Rhode Island	-	64	15	-	2	6	1	62	-	-	134	-
Connecticut	-	810	283	-	25	26	4	331	-	-	320	1
MIDDLE ATLANTIC	15	8,389	7,091	6	205	185	7	1,338	5	-	6,022	4
Upstate New York	10	3,836	2,951	-	52	68	-	298	5	-	3,368	1
New York City	3	740	476	3	51	49	3	501	-	-	322	1
New Jersey*	-	197	611	1	44	29	3	357	-	-	1,782	2
Pennsylvania	2	3,616	3,053	2	59	39	1	182	-	-	550	-
EAST NORTH CENTRAL ..	39	11,441	14,968	2	143	164	91	5,747	13	30	3,808	5
Ohio	-	1,858	577	-	58	68	5	686	-	2	1,129	1
Indiana*	5	4,344	3,397	-	10	8	4	338	-	6	963	1
Illinois	6	1,787	1,649	1	23	20	22	1,028	9	8	331	1
Michigan	22	1,005	5,877	1	43	57	43	1,953	4	11	971	2
Wisconsin	6	2,447	3,468	-	14	11	17	1,742	-	3	414	-
WEST NORTH CENTRAL ..	25	9,373	1,299	1	73	87	47	3,824	-	3	522	9
Minnesota	-	2,624	426	-	25	14	-	6	-	-	17	2
Iowa	14	4,338	45	-	6	10	4	1,304	-	1	169	1
Missouri*	1	915	47	1	30	37	7	1,322	-	-	37	3
North Dakota	2	26	3	-	1	3	1	20	-	-	13	-
South Dakota	8	75	4	-	4	3	-	59	-	-	18	-
Nebraska	-	214	55	-	2	6	1	78	-	-	3	-
Kansas	-	1,211	719	-	5	14	34	1,035	-	2	265	3
SOUTH ATLANTIC	18	4,650	2,195	5	309	251	19	837	23	5	1,687	12
Delaware	-	22	130	-	7	8	1	134	-	-	26	-
Maryland	-	372	715	-	21	21	1	72	-	-	6	-
District of Columbia ..	-	14	13	-	-	2	-	6	-	-	-	-
Virginia	14	2,739	771	3	30	39	1	105	-	1	579	1
West Virginia	1	249	202	-	3	7	7	193	18	4	156	-
North Carolina	-	65	17	1	66	48	3	60	-	-	446	-
South Carolina*	-	153	4	1	34	36	-	14	2	-	230	-
Georgia	-	768	2	-	52	25	-	26	3	-	55	1
Florida*	3	268	341	-	90	65	6	230	-	-	189	10
EAST SOUTH CENTRAL ..	-	2,014	888	4	149	120	17	941	1	5	1,943	5
Kentucky	-	1,191	752	2	31	23	4	105	1	2	84	1
Tennessee	-	707	119	1	37	50	12	563	-	3	1,740	2
Alabama	-	78	-	-	53	33	1	234	-	-	110	2
Mississippi	-	38	17	1	29	14	-	39	-	-	9	-
WEST SOUTH CENTRAL ..	10	2,115	759	4	283	194	20	1,539	9	2	821	11
Arkansas	-	29	14	1	14	11	7	91	-	-	3	2
Louisiana	-	75	224	2	129	35	-	55	1	-	27	2
Oklahoma	2	62	295	-	14	21	1	524	6	-	33	-
Texas*	8	1,949	226	1	124	127	12	869	2	2	758	7
MOUNTAIN	2	2,533	5,151	-	33	37	4	612	1	6	381	2
Montana	-	1,162	276	-	4	5	1	12	-	2	16	1
Idaho	-	161	2,020	-	4	5	2	126	1	-	13	-
Wyoming	-	19	4	-	1	-	-	4	-	-	6	1
Colorado	1	504	305	-	1	6	-	268	-	4	241	-
New Mexico	-	256	16	-	9	4	-	105	-	-	11	-
Arizona	1	318	227	-	10	10	-	-	-	-	16	-
Utah	-	20	2,237	-	3	5	1	81	-	-	69	-
Nevada	-	93	66	-	1	2	-	16	-	-	9	-
PACIFIC	49	10,378	2,618	2	183	192	47	1,406	26	17	2,544	7
Washington	-	542	352	2	26	33	5	297	-	-	445	-
Oregon	-	366	170	-	17	17	6	259	14	-	115	-
California	49	9,375	2,089	-	109	119	35	795	12	17	1,569	7
Alaska	-	60	4	-	23	20	-	30	-	-	1	-
Hawaii	-	35	3	-	2	3	1	25	-	-	414	-
Guam*	NA	11	16	-	1	-	NA	6	NA	NA	10	-
Puerto Rico	5	995	445	-	1	3	44	773	-	-	35	10
Virgin Islands	-	14	14	-	-	1	-	189	-	-	2	-

NA: Not available

*Delayed reports: Measles: Ind. -3, Texas +5, Guam -2; Men. inf.: S.C. +1, Texas +1; Pertussis: N.J. +1, Mo. -5, Fla. -2, Texas -1; Rubella: Ind. +1, Texas -4, Guam +1

Table III-Continued
Cases of Specified Notifiable Diseases: United States
Weeks Ending October 29, 1977 and October 30, 1976 — 43rd Week

REPORTING AREA	TUBERCULOSIS		TULA- REMIA	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (RMSF)		VENEREAL DISEASES (Civilian Cases Only)						RABIES IN ANIMALS	
								GONORRHEA			SYPHILIS (Pri. & Sec.)				
	1977	CUM. 1977	CUM. 1977	1977	CUM. 1977	1977	CUM. 1977	1977	CUMULATIVE		1977	CUMULATIVE		CUM. 1977	
									1977	1976		1977	1976		
UNITED STATES	659	25,170	138	9	332	15	1,066	21,895	826,393	836,412	445	17,110	20,060	2,558	
NEW ENGLAND	26	926	1	-	17	-	10	587	22,267	23,267	14	672	679	44	
Maine	-	72	-	-	-	-	-	61	1,632	1,994	-	23	20	32	
New Hampshire	-	24	-	-	1	-	-	16	902	695	-	4	9	1	
Vermont	1	32	-	-	-	-	-	7	553	584	1	7	9	-	
Massachusetts	8	523	1	-	12	-	5	251	9,487	11,045	9	470	487	8	
Rhode Island	2	77	-	-	2	-	3	57	1,787	1,611	-	8	17	-	
Connecticut	15	198	-	-	2	-	2	195	7,936	7,338	4	163	137	3	
MIDDLE ATLANTIC	90	4,064	3	-	64	1	73	2,394	86,320	95,592	72	2,412	3,337	98	
Upstate New York	13	704	3	-	8	-	41	430	14,783	15,660	8	227	202	56	
New York City	34	1,276	-	-	26	1	1	816	33,531	42,071	49	1,519	2,115	-	
New Jersey	10	1,024	-	-	19	-	11	250	15,474	14,819	14	314	472	28	
Pennsylvania	33	1,060	-	-	11	-	23	598	22,532	23,042	1	352	548	14	
EAST NORTH CENTRAL ..	64	3,903	3	2	32	5	35	3,719	130,727	131,757	40	1,757	1,716	122	
Ohio*	19	678	1	1	10	5	17	953	34,576	32,804	15	412	423	-	
Indiana	6	451	-	-	3	-	2	276	12,195	12,936	1	133	89	9	
Illinois	17	1,524	-	1	6	-	15	1,445	42,174	45,655	13	914	897	39	
Michigan*	19	1,082	-	-	12	-	2	857	30,226	28,647	7	205	217	6	
Wisconsin	3	168	2	-	1	-	-	288	11,556	11,715	4	93	90	68	
WEST NORTH CENTRAL ..	39	839	26	-	21	1	33	973	43,256	43,984	7	376	379	638	
Minnesota	5	181	-	-	5	-	-	146	7,784	7,625	1	117	83	230	
Iowa	-	74	-	-	-	-	1	109	5,032	5,572	2	38	38	105	
Missouri	27	361	23	-	11	1	13	419	17,929	17,601	4	149	155	46	
North Dakota	6	26	-	-	1	-	-	25	814	674	-	-	-	95	
South Dakota	-	43	2	-	-	-	2	41	1,302	1,296	-	9	5	120	
Nebraska	-	32	1	-	1	-	1	87	3,745	3,708	-	25	30	2	
Kansas	1	122	-	-	3	-	11	146	6,650	7,508	-	38	68	40	
SOUTH ATLANTIC	183	5,524	11	1	53	5	573	5,349	203,655	205,212	105	4,676	6,084	303	
Delaware	-	53	-	-	-	-	3	123	2,807	2,908	-	19	58	2	
Maryland*	23	780	2	-	4	1	75	390	24,874	26,568	3	289	488	-	
District of Columbia ..	19	282	-	-	1	-	-	309	13,380	13,961	5	473	482	-	
Virginia	10	638	2	-	8	-	152	527	21,353	22,004	9	463	580	5	
West Virginia*	4	205	-	-	4	-	5	135	2,725	2,545	-	3	21	9	
North Carolina*	29	896	2	-	4	3	218	587	30,403	29,482	8	641	1,117	11	
South Carolina	7	501	2	-	3	-	52	545	19,118	19,285	8	209	315	27	
Georgia*	50	753	3	-	13	1	64	861	39,249	38,965	21	1,336	906	181	
Florida*	44	1,416	-	1	16	-	1	1,872	49,746	49,494	51	1,543	2,117	68	
EAST SOUTH CENTRAL ..	79	2,315	8	-	11	3	169	2,350	73,278	73,970	19	658	765	69	
Kentucky	22	636	2	-	5	3	43	214	9,853	9,845	4	85	111	25	
Tennessee	20	705	5	-	2	-	99	734	29,012	29,442	10	210	257	33	
Alabama	15	590	1	-	1	-	19	949	20,258	20,664	-	141	157	11	
Mississippi	22	414	-	-	3	-	8	453	14,155	14,019	5	222	240	-	
WEST SOUTH CENTRAL ..	73	2,959	67	-	28	-	157	2,326	103,499	105,718	72	2,534	2,400	690	
Arkansas	7	318	46	-	6	-	52	151	7,917	9,785	3	60	89	100	
Louisiana	11	540	1	-	1	-	5	300	15,477	15,643	20	596	493	22	
Oklahoma*	1	256	11	-	1	-	73	382	10,135	10,282	5	68	82	219	
Texas*	54	1,845	9	-	20	-	29	1,493	69,970	70,008	44	1,813	1,736	349	
MOUNTAIN	14	717	13	-	27	-	13	864	33,336	34,026	11	392	507	176	
Montana	2	47	1	-	-	-	6	30	1,757	1,702	-	4	9	45	
Idaho	1	27	-	-	-	-	4	32	1,522	1,845	-	11	22	-	
Wyoming	1	17	1	-	-	-	2	11	775	680	-	4	4	1	
Colorado	2	100	3	-	8	-	1	254	8,734	8,638	1	107	114	56	
New Mexico	1	137	-	-	-	-	-	77	4,857	6,129	3	109	126	19	
Arizona	4	305	3	-	13	-	-	279	9,259	9,997	5	133	180	44	
Utah	-	34	5	-	5	-	-	60	1,989	1,857	2	10	23	11	
Nevada	3	50	-	-	1	-	-	121	4,443	3,178	-	14	32	-	
PACIFIC	91	3,923	6	6	79	-	5	3,633	130,055	122,886	105	3,633	4,193	418	
Washington	NA	246	-	-	2	-	-	282	9,993	10,389	NA	187	138	2	
Oregon	6	152	1	-	3	-	1	300	9,049	9,243	4	122	94	7	
California	69	2,964	5	5	72	-	4	2,941	104,213	97,379	99	3,267	3,863	372	
Alaska*	-	64	-	-	-	-	-	48	4,072	3,606	2	25	22	37	
Hawaii	16	497	-	1	2	-	-	62	2,728	2,269	-	32	76	-	
Guam*	NA	49	-	NA	1	NA	-	NA	164	280	NA	2	2	-	
Puerto Rico	4	327	-	1	7	-	-	89	2,661	2,249	10	442	513	47	
Virgin Islands	-	1	-	-	-	-	-	-	172	208	-	8	48	-	

NA: Not available

*Delayed reports: TB: Ohio —1, Mich. —2, Md. —1, N.C. —2, Alaska +7; Tularemia: Okla. +1; Typhoid fever: W. Va. +1, Ga. +1; RMSF: Okla. —2, Texas —1; GC: Guam +5, Syphilis: Fla. —1, Texas —73.

Table IV
Deaths in 121 United States Cities*
Week Ending October 29, 1977 - 43rd Week

REPORTING AREA	ALL CAUSES					Pneumonia and Influenza ALL AGES	REPORTING AREA	ALL CAUSES					Pneumonia and Influenza ALL AGES
	ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year			ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year	
NEW ENGLAND	645	414	151	31	37	39	SOUTH ATLANTIC ...	1,036	614	300	65	26	44
Boston, Mass.	165	107	39	7	9	14	Atlanta, Ga.	124	63	39	16	1	6
Bridgeport, Conn.	44	23	17	3	-	4	Baltimore, Md.	168	94	58	8	3	1
Cambridge, Mass.	28	20	8	-	-	2	Charlotte, N. C.	55	31	19	2	1	4
Fall River, Mass.	22	20	1	1	-	1	Jacksonville, Fla.	67	38	21	4	1	3
Hartford, Conn.	49	25	18	2	1	1	Miami, Fla.	97	65	25	3	2	2
Lowell, Mass.	17	12	3	-	1	-	Norfolk, Va.	37	23	10	2	1	5
Lynn, Mass.	25	20	5	-	-	-	Richmond, Va.	95	50	30	5	7	5
New Bedford, Mass.	30	23	4	2	1	1	Savannah, Ga.	31	14	11	1	5	1
New Haven, Conn.	65	24	15	5	19	1	St. Petersburg, Fla.	80	69	8	2	1	5
Providence, R.I.	69	45	14	6	4	10	Tampa, Fla.	70	42	18	6	1	3
Somerville, Mass.	12	8	3	1	-	1	Washington, D. C.	159	91	45	14	3	7
Springfield, Mass.	47	40	5	1	-	3	Wilmington, Del.	53	34	16	2	-	2
Waterbury, Conn.	23	17	6	-	-	1							
Worcester, Mass.	49	30	13	3	2	-							
MIDDLE ATLANTIC ...	2,989	1,885	732	176	112	142	EAST SOUTH CENTRAL	683	376	197	45	35	21
Albany, N. Y.	65	39	13	6	4	1	Birmingham, Ala.	110	63	30	10	1	1
Allentown, Pa.	23	21	-	1	1	2	Chattanooga, Tenn.	37	24	6	2	2	2
Buffalo, N. Y.	128	79	32	9	4	6	Knoxville, Tenn.	57	39	17	1	-	-
Camden, N. J.	35	18	15	1	-	1	Louisville, Ky.	135	69	40	11	8	7
Elizabeth, N. J.	27	17	8	2	-	-	Memphis, Tenn.	150	82	41	11	10	5
Erie, Pa.	37	27	8	2	-	2	Mobile, Ala.	48	24	17	4	2	1
Jersey City, N. J.	52	18	28	3	2	-	Montgomery, Ala.	41	21	13	2	3	-
Newark, N. J.	64	29	20	1	13	1	Nashville, Tenn.	105	54	33	4	9	5
New York City, N. Y.	1,399	932	306	81	43	59							
Paterson, N. J.	36	20	7	7	2	2	WEST SOUTH CENTRAL	1,061	592	276	90	52	30
Philadelphia, Pa.	494	291	135	33	23	18	Austin, Tex.	54	35	13	2	3	8
Pittsburgh, Pa.	235	129	79	8	8	18	Baton Rouge, La.	42	28	7	3	1	-
Reading, Pa.	45	36	8	-	-	2	Corpus Christi, Tex.	28	15	8	2	2	3
Rochester, N. Y.	136	67	18	9	5	14	Dallas, Tex.	163	95	37	14	8	-
Schenectady, N. Y.	21	14	5	1	1	3	El Paso, Tex.	40	26	10	3	-	3
Scranton, Pa.	37	25	10	1	-	2	Fort Worth, Tex.	60	26	19	8	4	-
Syracuse, N. Y.	88	50	20	10	3	1	Houston, Tex.	176	77	51	25	4	-
Trenton, N. J.	30	21	7	-	1	3	Little Rock, Ark.	60	32	14	2	9	2
Utica, N. Y.	31	28	3	-	-	4	New Orleans, La.	209	118	57	14	16	1
Yonkers, N. Y.	36	24	10	1	1	3	San Antonio, Tex.	125	73	34	9	4	-
							Shreveport, La.	41	25	10	4	1	1
							Tulsa, Okla.	63	42	16	4	-	12
EAST NORTH CENTRAL	2,526	1,511	631	168	119	73							
Akron, Ohio	68	42	12	3	5	-	MOUNTAIN	539	302	148	25	34	24
Canton, Ohio	38	24	12	1	1	1	Albuquerque, N. Mex.	67	31	19	4	8	2
Chicago, Ill.	603	333	163	59	29	20	Colorado Springs, Colo.	33	15	8	3	3	4
Cincinnati, Ohio	215	125	62	13	8	2	Denver, Colo.	126	73	34	3	7	7
Cleveland, Ohio	201	114	53	17	12	3	Las Vegas, Nev.	29	20	8	-	-	1
Columbus, Ohio	132	71	38	7	7	6	Ogden, Utah	22	16	5	-	1	2
Dayton, Ohio	96	59	20	10	5	6	Phoenix, Ariz.	134	73	39	7	7	3
Detroit, Mich.	293	160	77	22	21	7	Pueblo, Colo.	26	17	7	-	1	4
Evansville, Ind.	59	40	15	1	2	8	Salt Lake City, Utah	55	29	16	2	6	-
Fort Wayne, Ind.	63	44	10	4	3	4	Tucson, Ariz.	47	28	12	6	1	1
Gary, Ind.	23	14	3	2	2	-							
Grand Rapids, Mich.	50	37	9	1	-	2	PACIFIC	1,827	1,142	439	128	61	42
Indianapolis, Ind.	155	89	51	5	5	3	Berkeley, Calif.	13	10	3	-	-	-
Madison, Wis.	44	25	7	4	5	3	Fresno, Calif.	58	35	10	4	4	-
Milwaukee, Wis.	114	89	19	3	2	-	Glendale, Calif.	36	26	7	2	-	1
Peoria, Ill.	87	63	11	5	5	2	Honolulu, Hawaii	66	34	22	2	4	-
Rockford, Ill.	51	31	12	2	1	4	Long Beach, Calif.	105	66	30	5	2	4
South Bend, Ind.	57	43	13	1	-	1	Los Angeles, Calif.	704	434	169	66	16	17
Toledo, Ohio	114	69	27	7	3	1	Oakland, Calif.	73	53	12	5	3	1
Youngstown, Ohio	63	39	17	1	3	-	Pasadena, Calif.	31	28	2	1	-	-
							Portland, Oreg.	119	66	37	5	7	1
WEST NORTH CENTRAL	724	453	173	42	36	37	Sacramento, Calif.	66	45	12	6	3	3
Des Moines, Iowa	46	37	6	2	-	3	San Diego, Calif.	135	84	29	6	8	2
Duluth, Minn.	28	18	6	3	1	2	San Francisco, Calif.	146	79	45	10	5	1
Kansas City, Kans.	45	23	14	1	7	2	San Jose, Calif.	50	35	5	4	3	2
Kansas City, Mo.	145	75	50	7	8	6	Seattle, Wash.	126	75	35	11	3	5
Lincoln, Nebr.	36	28	5	3	-	5	Spokane, Wash.	45	34	9	-	1	2
Minneapolis, Minn.	105	75	21	4	4	5	Tacoma, Wash.	54	38	12	1	2	3
Omaha, Nebr.	82	51	19	5	5	2							
St. Louis, Mo.	156	97	38	9	5	7	TOTAL	12,030	7,289	3,047	770	512	452
St. Paul, Minn.	37	24	7	3	1	1	Expected Number	11,191	6,802	2,888	725	377	371
Wichita, Kans.	44	25	7	5	5	4							

*By place of occurrence and week of filing certificate. Excludes fetal deaths.

The Morbidity and Mortality Weekly Report, circulation 67,500, is published by the Center for Disease Control, Atlanta, Georgia. The data in this report are provisional, based on weekly telegraphs 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. Send reports to: Center for Disease Control, Attn.: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

Send mailing list additions, deletions, and address changes to: Center for Disease Control, Attn.: Distribution Services, GSO, 1-SB-36, Atlanta, Georgia 30333. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

Current Trends

Surveillance of Childhood Lead Poisoning — United States

During the third quarter of fiscal year 1977, the number of children screened and referred to the Childhood Lead Poisoning Screening Programs* increased by 10,000 over that reported the previous quarter (Table 1).

Although the number of children confirmed with undue lead absorption (6.7 per 100 screened) increased over the last quarter, the percentage of children in risk classification III and IV† continued to decrease. It would appear that, in general, children are being identified earlier, before lead absorption reaches significantly high levels.

There was a 5% increase over the previous quarter in the number of dwellings reduced of lead hazards. This shows a general trend of improvement in the program's lead hazard

identification and reduction activities, but it is still below national goals when compared to the number of children whose environments need to be reduced of lead hazards.

*Five of the 65 reporting communities are no longer supported by federal grant funds, but they continue to report their screening activities as a part of the national effort to prevent childhood lead poisoning.

†Lead poisoning categories in children are defined in CDC Statement, Increased Lead Absorption and Lead Poisoning in Young Children: March, 1975. They are also summarized in MMWR 25:66, 1975.

Reported by the Environmental Health Services Div, Bur of State Services, CDC.

TABLE 1. Results of screening in childhood lead poisoning control projects — United States, third quarter fiscal year 1977 (April 1, 1977-June 30, 1977)

Projects	Screened	NUMBER OF CHILDREN						NUMBER OF DWELLINGS		
		With Confirmed Undue Lead Absorption ¹						Inspected	Found with Lead	Reduced
		Requiring Pediatric Management			Receiving Pediatric Management					
		Total	Class II	Classes III & IV	Total	Chelation Therapy				
Augusta, Me.	797	51	33	18	76	2	24	21	18	
Boston, Mass.	7,035	507	370	137	779	38	313	204	225	
Fall River, Mass.	413	51	42	9	142	4	48	22	20	
Lawrence, Mass.	793	87	56	31	140	9	51	91	78	
Lowell, Mass.	216	1	0	1	73	2	1	1	1	
Lynn, Mass.	529	35	27	8	194	9	70	70	49	
Portland, Me.	152	4	5	2	31	0	7	1	0	
Rhode Island State	1,884	41	27	14	406	13	6	3	0	
Stamford, Conn.	269	7	6	1	260	1	35	10	32	
Waterbury, Conn.	534	45	42	3	191	4	276	172	218	
Worcester, Mass.	668	86	60	26	341	32	88	67	62	
REGION I TOTAL	13,490	918	668	250	2,633	114	853	682	703	
CUMULATIVE FY 77	38,918	2,323	1,653	670	10,174	308	2,876	2,228	2,379	
Camden, N.J.	326	57	48	9	199	0	48	30	8	
Erle Co., N.Y.	512	73	52	21	332	19	17	28	23	
Hoboken, N.J.	137	29	22	7	31	4	31	2	2	
Jersey City, N.J.	0	0	0	0	0	0	0	0	0	
Monroe Co., N.Y.	1,256	212	161	51	226	2	92	87	51	
Newark, N.J.	883	115	79	36	253	40	98	104	64	
New York City	17,210*	645*	486	159	NR	NR	156	112	67	
Onondaga Co., N.Y.	1,098	48	31	17	164	10	35	28	46	
Patterson, N.J.	783	178	122	56	409	15	83	65	29	
Plainfield, N.J.	442	90	67	23	112	3	40	19	5	
Rensselaer, N.Y.	264	21	9	12	144	2	19	9	12	
Westchester, N.Y.	801	35	24	11	188	1	26	9	30	
REGION II TOTAL	23,712	1,503	1,101	402	2,058	114	645	493	337	
CUMULATIVE FY 77	67,765	4,894	3,457	1,437	10,517	414	2,381	1,465	1,174	
Baltimore, Md.	1,949	81	35	46	434	23	144	123	70	
Chester, Pa.	757	45	33	12	494	5	63	48	27	
Delaware State	997	48	39	9	57	1	52	10	28	
Norfolk, Va.	1,482	69	34	35	310	5	37	26	35	
Philadelphia, Pa.	2,333	380	240	140	597	23	615	474	510	
Richmond, Va.	1,881	48	29	19	658	18	137	118	45	
Washington, D.C.	2,965	146	100	46	385	4	383	118	63	
Wilkes-Barre, Pa.	605	30	21	9	119	1	28	18	21	
REGION III TOTAL	12,969	847	531	316	3,024	81	1,458	953	781	
CUMULATIVE FY 77	41,715	2,840	1,834	1,006	10,462	338	4,630	2,461	2,112	
Augusta, Ga.	691	39	29	10	164	0	36	16	6	
Louisville, Ky.	593	28	21	7	460	16	78	64	95	
Memphis, Tenn.	978	45	30	15	174	1	42	28	61	
Mobile, Ala.	666	30	18	12	321	0	36	23	27	
South Carolina State	1,478	39	24	15	793	9	235	232	116	
Wilmington, N.C.	131	12	8	4	74	3	22	20	11	
REGION IV TOTAL	4,527	193	130	63	1,885	29	448	383	316	
CUMULATIVE FY 77	12,062	681	472	218	6,042	161	1,478	1,249	856	
Akron, Ohio	21	4	4	0	17	NR	13	13	7	
Chicago, Ill.	13,410	754	514	240	2,551	185	21,504	4,185	1,354	
Cincinnati, Ohio	1,170	82	53	29	316	8	119	112	111	
Cleveland, Ohio	3,163	122	93	29	526	2	131	59	40	
Columbus, Ohio	1,792	38	33	10	107	8	133	43	39	
Detroit, Mich.	2,589	230	156	74	397	9	267	256	149	
East St. Louis, Ill.	259	5	2	3	30	3	6	5	0	
Grav. Ind.	540	12	10	2	44	0	4	4	4	
Kanosa, Wisc.	306	8	6	2	12	0	0	0	1	
Milwaukee, Wisc.	658	143	97	46	337	14	107	97	68	
Peoria, Ill.	413	17	13	4	30	0	36	28	21	
Racine, Wisc.	174	3	1	2	43	0	4	1	25	
Rockford, Ill.	706	98	57	41	439	3	47	30	47	
St. Paul, Minn.	201	3	2	1	NR	NR	3	1	1	
Toledo, Ohio	202	2	2	0	93	10	NR	NR	NR	
Wayne Co. Mich.	107	47	35	12	120	2	31	31	51	
REGION V TOTAL	25,711	1,568	1,078	490	5,062	244	22,405	4,865	1,917	
CUMULATIVE FY 77	75,186	4,233	2,914	1,318	15,523	650	43,134	10,567	4,636	
Arkansas State	893	51	29	22	183	0	38	17	7	
Houston, Texas	2,518	141	87	54	115	2	132	16	6	
New Orleans, La.	3,368	228	165	63	285	24	72	65	21	
REGION VI TOTAL	6,779	420	281	139	583	26	242	88	34	
CUMULATIVE FY 77	19,425	992	657	335	2,233	70	724	264	135	
Davenport-Scott Co., Iowa	699	32	24	8	34	2	25	24	2	
Kansas City-Wyandotte Co., Kansas	611	14	9	5	101	3	19	12	7	
Kansas City, Mo.	956	13	6	7	106	1	27	24	9	
Omaha, Neb.	942	38	27	11	46	0	24	22	4	
Springfield, Mo.	564	1	1	0	15	0	16	13	2	
St. Louis, Mo.	3,718	857	541	316	2,453	129	622	438	456	
REGION VII TOTAL	7,490	955	608	347	2,755	135	733	533	480	
CUMULATIVE FY 77	19,131	2,651	1,636	1,015	8,703	258	2,221	1,775	1,043	
Alameda Co., Calif.	750	20	12	8	56	1	8	6	2	
Contra Costa Co., Calif.	322	3	0	3	40	0	93	30	0	
Los Angeles, Calif.	1,452	43	23	20	43	6	22	13	29	
REGION IX TOTAL	2,524	66	35	31	139	7	123	48	31	
CUMULATIVE FY 77	4,646	302	182	120	593	15	291	142	152	
U.S. TOTALS	87,212	6,470	4,432	2,038	18,240	750	27,009	8,056	4,600	
CUMULATIVE FY 77	278,848	18,326	12,805	6,121	64,247	2,155	57,736	20,151	12,489	

¹ Class II and Classes III & IV defined in CDC Statement, Increased Lead Absorption and Lead Poisoning in Young Children, March, 1975.

NR - Not reported

* - Estimated

*Epidemiologic Notes and Reports***Follow-up on Legionnaires' Disease — Tennessee, Vermont**

Tennessee: Since August 1, 1977, there have been 21 confirmed cases of Legionnaires' disease in Kingsport, Tennessee; 3 cases were fatal. Twenty of the patients had 4-fold or greater titer rises, and 1 had positive direct fluorescent antibody (FA) tests on autopsied lung tissue. None of the cases were nosocomial infections. Three other persons have had single convalescent serum samples with titers of ≥ 256 .

The first case occurred in mid-August, and no case with a date of onset after September 28 has been identified. Nineteen of the 21 confirmed cases were admitted to a single Kingsport hospital. The other 2 were patients in another Kingsport hospital and in a neighboring county's hospital. Serologic surveys were performed in the previously implicated area in Kingsport (1) and in a similar control area in Bristol, Tennessee, where no cases of Legionnaires' disease had been detected. No significant differences in rates of persons with single reciprocal indirect FA titers of ≥ 128 were found. Of those with titers ≥ 128 (approximately 5% in each group), none reported pneumonia-like illness in the past 3 months. A study attempting to identify milder clinical disease has been conducted among hospital employees and construction workers; those serologic results are pending. The medical records of several other hospitals in the Tri-Cities area (Kingsport, Bristol, and Johnson City) are currently being evaluated as part of a more intensive case-finding effort.

Vermont: A total of 27 confirmed cases of Legionnaires'

disease, 15 fatal, have been reported from Vermont since May 1, 1977. There have also been 20 highly probable cases identified; 2 of these were fatal.

The high case-fatality rate appears to be related to the presence of underlying disease. Patients with malignancy, immunosuppressant therapy, or renal disease had a case-fatality rate of 55%, whereas patients without underlying disease had a case-fatality rate of 17%. A serologic survey of hospital employees and employees of a large industry in Burlington revealed no significant difference between the titers of antibodies to the Legionnaires' disease bacterium in the 2 groups. Both groups, however, had a larger proportion of high titers than populations studied in other parts of the country.

Reported by E Duncan, RN, W Jesse, MD, J Smiddy, MD, J Strickler, RN, Holston Valley Community Hospital, Kingsport; C Chapman, MD, Sullivan County (Tenn) Health Dept; M Weeks, MPH, RH Hutcheson Jr, MD, State Epidemiologist, Tennessee State Dept of Public Health; H Beaty, MD, JE Craighead, MD, CA Phillips, MD, W Winn, MD, Medical Center Hospital of Vermont; AM McBean, MD, RL Vogt, MD, Acting State Epidemiologist, Vermont State Dept of Health; Leprosy and Rickettsia Br, Virology Div, Immunofluorescence Sect, Analytical Bacteriology Br, Bacteriology Div, Bur of Laboratories; Field Services Div, Epidemiologic Investigations Laboratory Br, Hospital Infections Br, and Special Pathogens Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.

Reference

1. MMWR 26:336, 1977

Influenza — Florida

Three Daytona, Florida, residents who returned on October 1 from a Caribbean cruise that included a stop in Puerto Rico developed febrile illness consistent with dengue, with onsets on October 2-3. Acute and convalescent phase serum specimens showed no rise in antibody to dengue but a 4-fold or greater rise in complement fixation antibody to influenza A and in hemagglutination inhibition (HI) antibody to A/Victoria/3/75 and A/Texas/1/77. Two of the 3 individuals had HI titer in convalescent phase serum specimens significantly greater to A/Texas/1/77 than to A/Victoria/3/75, suggesting they acquired an A/Texas/1/77-like infection following exposure in Puerto Rico (1).

Two other Florida residents, who had no recent travel history but had upper respiratory illnesses with onsets on August 27 and September 1, also had significant antibody titer rises to influenza A; HI titer rises to A/Victoria/3/75 and A/Texas/1/77 in convalescent phase serum samples were similar. No specimens were available for virus isolation.

Reported by E Buff, N Schneider, PhD, RM Yeller, MD, State Epidemiologist, Florida State Dept of Health and Rehabilitative Services; World Health Organization Collaborating Center for Influenza, Bur of Laboratories, Immunization Div, Bur of State Services, CDC.

Reference

1. MMWR 26:359, 1977

**U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE / CENTER FOR DISEASE CONTROL
ATLANTA, GEORGIA 30333**

Director, Center for Disease Control, William H. Foege, M.D.
Director, Bureau of Epidemiology, Philip S. Brachman, M.D.
Editor, Michael B. Gregg, M.D.
Managing Editor, Anne D. Mather, M.A.
Chief, MMWR Statistical Activity, Dennis J. Bregman, M.S.

OFFICIAL BUSINESS FIRST CLASS

Redistribution using indicia is illegal.



POSTAGE AND FEES PAID
U.S. DEPARTMENT OF HEW
HEW 399