

# Morbidity and Mortality



U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE  
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EPIDEMIOLOGIC NOTES AND REPORTS  
TOXOPLASMOSIS - Pennsylvania

On September 2, 1974, 2 male members of a wedding party became ill with low-grade fever, chills, generalized aches, fatigue, and swollen cervical lymph nodes. On September 4, another male member became similarly ill. On September 30, a female member also became ill with identical symptoms but did not have swollen cervical lymph nodes. The fever, chills, and generalized aches in these 4 persons subsided unevenly over a period of weeks; the fatigue and swollen lymph nodes persisted for months.

The patients were at first treated symptomatically and with antibiotics by their respective physicians. When the illness persisted, however, toxoplasmosis was suspected; and sera were drawn in November and December from 3 of the 4

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ill persons. Results by indirect fluorescent antibody (IFA) test were positive in all 3 persons for toxoplasmosis (Table 1).

These results indicated a possible common source outbreak, and epidemiologic investigation revealed that on August 23, 1974, the 4 ill persons were among a group of 19 people attending a wedding rehearsal supper at a Syrian restaurant. Food histories were obtained from 15 of the 19

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	34th WEEK ENDING		MEDIAN 1970-1974	CUMULATIVE, FIRST 34 WEEKS		
	August 23, 1975	August 24, 1974		August 23, 1975	August 24, 1974	MEDIAN 1970-1974
Aseptic meningitis	124	129	230	1,832	1,746	2,498
Brucellosis	6	1	3	151	104	120
Chickenpox	358	253	---	116,285	98,925	---
Diphtheria	4	3	3	205	165	119
Encephalitis	Primary	41	38	573	593	852
	Post-Infectious	6	10	226	184	204
	Type B	273	192	167	7,511	6,190
Hepatitis, Viral	Type A	653	860	22,856	27,695	36,021
	Type A	162	158	5,268	5,479	---
	Type unspecified	17	10	13	268	133
Malaria	93	107	185	21,079	19,580	26,651
Measles (rubeola)	23	17	17	1,031	931	1,012
Meningococcal infections, total	Civilian	23	17	1,009	906	987
	Military	---	---	22	25	38
Mumps	259	350	350	46,137	43,881	55,991
Pertussis	52	64	---	969	1,046	---
Rubella (German measles)	51	140	149	14,651	9,565	25,773
Tetanus	6	2	2	58	60	68
Tuberculosis	679	611	---	21,907	20,064	---
Tularemia	---	1	4	80	92	---
Typhoid fever	6	6	10	200	245	224
Typhus, tick-borne (Rky. Mt. spotted fever)	32	34	23	611	606	376
Venereal Diseases:						
Gonorrhea	Civilian	20,751	18,067	---	635,420	571,104
	Military	576	626	---	19,719	19,216
Syphilis, primary and secondary	Civilian	466	508	---	16,708	16,446
	Military	1	9	---	234	303
Rabies in animals	36	59	63	1,621	1,929	2,441

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Ohio 1	1	Poliomyelitis, total:	3
Botulism:	14	Paralytic:	3
Congenital rubella syndrome:	17	Psittacosis: Ore. 1, Calif. 1	30
Leprosy: N.Y.C. 2	112	Rabies in man:	1
Leptospirosis: Ark. 2	29	Trichinosis: * Conn. 2, Upstate N.Y. 1, N.J. 1, Alaska 1	62
Plague:	9	Typhus, murine: Texas 1	24

\*Delayed reports: Trichinosis: N.H. delete 1

## TOXOPLASMOSIS – Continued

Table 1  
Prevalence of Antibodies and Habit of Eating Undercooked Meat  
in 15 Ill and Well Wedding Guests,  
Pennsylvania, 1974

Guest	Age	Sex	Illness (Date Onset)	IFA Results (Date Obtained)	Habit of Eating Raw or Rare Meat
1	24	M	+ (9/2/74)	1:256 (11/1/74)	No
2	22	M	+ (9/4/74)	1:1024 (11/12/74)	Yes
3	21	F	+ (9/30/74)	1:512 (11/12/74)	Yes
4	20	M	+ (9/2/74)	1:512 (1/16/75)	No
5	42	F	—	1:256 (2/10/75)	Yes
6	14	F	—	Negative (2/10/75)	Yes
7	23	F	—	1:64 (2/26/75)	Yes
8	31	M	—	1:16 (2/24/75)	Yes
9	46	M	—	1:128 (2/15/75)	No
10	46	F	—	Negative (2/10/75)	No
11	16	F	—	Negative (2/15/75)	No
12	24	F	—	Negative (3/1/75)	No
13	22	M	—	Negative (3/10/75)	No
14	22	M	—	Negative (2/21/75)	No
15	44	M	—	1:512 (2/21/75)	Yes

guests, and all 15 reported having eaten Kibee Nayee, a meat dish made from raw beef. Sera, obtained 2-5 months after the common meal, were then collected from 12 more of the guests. Eight of the total of 15 persons from whom sera were obtained had titers of  $\geq 1:64$ , compatible with a recent exposure to *Toxoplasma gondii* organisms. However, in all cases serology was performed too long after the implicated meal to demonstrate a rise in titer and to confirm the meal's possible role in transmission. Moreover, 6 of the 9 individuals with antitoxoplasma antibody titers  $\geq 1:16$  had a history of habitual ingestion of rare or raw meat. Four of the 8 individuals with titers  $\geq 1:64$  were clinically ill, but no statistically positive correlation was found between presence of symptoms and seropositivity; however, in cases of acquired toxoplasmosis, often no history of symptomatic illness can be obtained.

An inspection of the restaurant showed that it is well-equipped and sanitary and uses only meat inspected according to USDA standards. A check of local Middle Eastern restaurants indicated that meat served, principally beef and lamb, is purchased fresh and unfrozen from wholesalers. Raw dishes such as Kibee are prepared daily by grinding fresh beef and are served the same day.

One seropositive woman, who reported no symptoms, was 3 months pregnant at the time of the supper. On February 26, 1975, she delivered an apparently healthy 7½ pound baby girl. Cord blood drawn at the time of delivery had an antitoxoplasma antibody titer of 1:512 by IFA, but was IgM negative. The baby has no clinical evidence of disease, but further serology is needed to evaluate the presence of active infection.

(Reported by William G Lord, DVM, Public Health Veterinarian; Frank Boni, MD, Alvin Bodek, MD, Robert W Hilberg, MD, Rita Rosini, MD, private physicians; Frank B Clack, DVM, Director, Allegheny County Health Department; and the Parasitic Diseases Branch, Bureau of Epidemiology, CDC.)

## Editorial Note

Although no serologic data from a control group of non-ill persons were studied in this investigation, it appears likely that illness resulted from eating raw meat at this restaurant. The high prevalence of antibodies (56%) among the 14 guests of Middle East origin may possibly reflect their habit of eating undercooked meat. In Paris, France, where eating undercooked meat is perhaps the most important means of exposure to toxoplasma organisms, the prevalence of antibodies was 84% among 378 pregnant women studied (1).

Only 1 documented outbreak of foodborne toxoplasmosis has occurred in the United States, when 5 persons associated with the Cornell University Medical College acquired acute lymphadenopathic toxoplasmosis after eating inadequately cooked hamburger (2).

Because toxoplasma cysts have been found in samples of mutton, pork, and beef intended for human consumption (3), such meat should be heated to 56° C for 10-15 minutes to insure against toxoplasmosis infection (4). Freezing is considered a probable means of killing the tissue cysts, although viable toxoplasma organisms have been isolated from the carcass of a monkey frozen for 16 days at -20° C (5).

## References

- Desmonts G and Couvreur J: Congenital toxoplasmosis. *N Eng J Med*, 290:1110-1116, 1974
- Kean BH, Kimball AC, and Christenson WN: An epidemic of acute toxoplasmosis. *JAMA*, 208:1002-1004, 1969
- Remington JS: Toxoplasmosis. In *Obstetric and Perinatal Infections*, edited by Charles D and Finland M. Philadelphia, Lea and Feibiger, 1973, pp 27-74
- Jacobs L, Remington JS, and Melton ML: The resistance of the encysted form of *Toxoplasma gondii*. *J Parasitol*, 46:11-21, 1960
- Frenkel JK: Breaking the transmission chain of toxoplasma. *Bull NY Acad Med*, 50:228-235, 1974

## CURRENT TRENDS

## REGULATIONS FOR IMPORTATION OF NONHUMAN PRIMATES – United States

The U.S. Department of Health, Education, and Welfare has adopted regulations prohibiting importation of nonhuman primates except for scientific, educational, or exhibition purposes. The regulations, published in the *Federal Register*, August 11, 1975, will become effective October 10.

In addition to restricting the allowable purposes for which nonhuman primates may be imported, the regulations require persons receiving these animals within 31 days of importation to register as importers and comply with disease surveillance and reporting requirements.

The regulations were developed by CDC because such animals are a significant source of infectious disease in humans, including hepatitis, tuberculosis, and parasitic infections (MMWR, Vol. 24, No. 11). Many of the reported in-

fections have been severe, and a number have resulted in death or long-term disability.

Until recently approximately 100,000 of these animals were being imported each year, with about half being sold as pets. In addition to monkeys, nonhuman primates include chimpanzees, orangutans, gorillas, gibbons, apes, baboons, marmosets, tamarins, lemurs, lorises, galagos, and treeshrews.

Requests for information about the regulations should be sent to:

Center for Disease Control  
ATTN: Bacterial Zoonoses Branch  
Bureau of Epidemiology  
Atlanta, Georgia 30333

(Reported by the Center for Disease Control.)

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**TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING AUGUST 23, 1975 AND AUGUST 24, 1974 (34th WEEK)**

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	DIPHThERIA		ENCEPHALITIS			HEPATITIS, VIRAL			MALARIA	
						Primary: Arthropod- borne and Unspecified		Post In- fectious	Type B	Type A	Type Unspecified		
						1975	1974	1975	1975	1975	1975		
UNITED STATES	124	6	358	4	205	58	41	6	273	653	162	17	268
NEW ENGLAND	10	1	33	-	-	1	1	-	7	24	10	-	11
Maine *	-	-	2	-	-	-	-	-	-	-	-	-	1
New Hampshire *	-	-	1	-	-	-	-	-	1	-	-	-	-
Vermont	-	1	-	-	-	-	-	-	-	1	-	-	3
Massachusetts	6	-	3	-	-	-	1	-	2	4	10	-	3
Rhode Island	4	-	20	-	-	-	-	-	2	7	-	-	1
Connecticut	-	-	7	-	-	1	-	-	2	12	-	-	3
MIDDLE ATLANTIC	24	-	33	-	-	5	4	-	72	85	29	4	64
Upstate New York	9	-	11	-	-	4	1	-	1	19	-	1	6
New York City	15	-	21	-	-	-	-	-	23	11	-	-	15
New Jersey	-	-	NN	-	-	-	2	-	29	31	24	-	8
Pennsylvania	-	-	1	-	-	1	1	-	19	24	5	3	35
EAST NORTH CENTRAL	18	-	116	-	4	9	5	-	51	107	15	1	6
Ohio	3	-	5	-	1	5	1	-	21	31	-	-	1
Indiana	4	-	13	-	-	-	-	-	2	10	-	-	-
Illinois	5	-	9	-	2	1	-	-	18	22	8	-	4
Michigan	6	-	41	-	1	1	4	-	9	36	7	1	1
Wisconsin	-	-	48	-	-	2	-	-	1	8	-	-	-
WEST NORTH CENTRAL	2	1	10	-	6	1	1	-	7	17	1	1	11
Minnesota	-	-	-	-	-	-	-	-	2	4	-	-	4
Iowa	-	1	2	-	-	-	-	-	-	-	-	-	-
Missouri	1	-	5	-	-	1	-	-	2	9	1	-	5
North Dakota *	-	-	2	-	6	-	-	-	-	-	-	-	1
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	1	-	-	-	-	-	2	2	-	1	1
Kansas	1	-	-	-	-	-	1	-	1	2	-	-	-
SOUTH ATLANTIC	15	1	48	-	-	5	8	3	48	132	42	6	41
Delaware	-	-	-	-	-	-	-	1	-	1	-	-	-
Maryland	5	-	7	-	-	3	-	-	10	17	11	4	9
District of Columbia	-	-	-	-	-	-	-	-	-	8	-	-	9
Virginia	1	1	3	-	-	-	-	-	4	6	6	-	5
West Virginia	2	-	36	-	-	-	-	-	-	2	-	-	1
North Carolina	-	-	NN	-	-	-	1	-	10	6	1	-	3
South Carolina	-	-	-	-	-	-	-	2	1	5	5	-	1
Georgia	-	-	-	-	-	-	-	-	-	10	-	2	8
Florida	7	-	2	-	-	2	7	-	23	77	19	-	5
EAST SOUTH CENTRAL	6	-	11	-	-	26	6	2	13	29	-	1	10
Kentucky	3	-	7	-	-	1	-	-	5	8	-	-	3
Tennessee *	3	-	NN	-	-	-	1	-	5	17	-	-	-
Alabama	-	-	3	-	-	-	-	-	3	3	-	-	5
Mississippi	-	-	1	-	-	25	5	2	-	1	-	1	2
WEST SOUTH CENTRAL	29	2	14	-	6	5	5	-	9	77	12	-	19
Arkansas	6	-	-	-	-	1	2	-	-	11	2	-	1
Louisiana	9	-	NN	-	-	-	1	-	4	11	4	-	-
Oklahoma	6	-	2	-	-	1	2	-	4	10	3	-	1
Texas	8	2	12	-	6	3	-	-	1	45	3	-	17
MOUNTAIN	3	-	21	1	16	-	-	-	7	41	9	-	13
Montana	-	-	13	1	1	-	-	-	-	2	-	-	-
Idaho	1	-	2	-	-	-	-	-	-	5	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	6	-	-	-	-	-	1	2	7	-	8
New Mexico	1	-	-	-	2	-	-	-	4	13	-	-	-
Arizona	-	-	-	-	13	-	-	-	2	14	2	-	3
Utah	1	-	-	-	-	-	-	-	-	-	-	-	2
Nevada	-	-	-	-	-	-	-	-	-	5	-	-	-
PACIFIC	17	1	72	3	173	6	11	1	59	141	44	4	93
Washington	2	-	-	3	164	-	4	-	8	15	16	-	4
Oregon	-	-	1	-	-	3	1	-	3	13	4	-	8
California	13	1	-	-	4	3	6	1	46	100	24	2	76
Alaska	-	-	-	-	5	-	-	-	2	1	-	2	2
Hawaii	2	-	71	-	-	-	-	-	-	12	-	-	3
Guam . *	-	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	2	-	-	-	-	-	-	5	-	-	1
Virgin Islands	-	-	4	-	-	-	-	-	-	-	-	-	-

NN: Not Notifiable  
\*Delayed reports: Aseptic meningitis: N.H. 3  
Chickenpox: Me. 1, N.H. 1  
Encephalitis, primary: N.D. 2

Hepatitis A: Me. 1, N.H. delete 1, Guam 1  
Hepatitis Unspecified: Tenn. delete 1

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING AUGUST 23, 1975 AND AUGUST 24, 1974 (34th WEEK)

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		PERTUSSIS	RUBELLA		TETANUS
	1975	Cumulative		1975	Cumulative		1975	Cum. 1975	1975	1975	Cum. 1975	Cum. 1975
		1975	1974		1975	1974						
UNITED STATES	93	21,079	19,580	23	1,031	931	259	46,137	52	51	14,651	58
NEW ENGLAND	1	314	914	—	58	47	8	1,583	1	5	2,039	2
Maine *	—	12	41	—	6	3	—	76	—	—	36	—
New Hampshire *	—	20	208	—	2	7	—	74	1	1	305	—
Vermont	—	49	56	—	—	2	—	16	—	—	70	—
Massachusetts *	—	122	374	—	20	15	4	201	—	2	1,194	1
Rhode Island	—	3	61	—	3	7	—	586	—	—	26	—
Connecticut	1	108	174	—	27	13	4	630	—	2	408	1
MIDDLE ATLANTIC	4	1,741	7,950	2	103	138	33	2,489	1	1	1,671	9
Upstate New York	—	571	923	1	29	54	5	917	1	—	269	1
New York City	3	138	570	—	29	27	17	720	—	1	156	2
New Jersey	—	457	5,513	—	17	42	3	337	—	—	978	3
Pennsylvania	1	575	944	1	28	15	8	515	—	—	268	3
EAST NORTH CENTRAL	43	6,271	7,544	2	138	110	83	19,165	20	32	4,081	4
Ohio	1	109	3,023	1	36	39	24	2,173	5	2	610	2
Indiana	10	374	220	—	6	10	2	1,969	—	8	933	—
Illinois	21	1,781	1,950	—	19	10	7	2,221	3	13	293	2
Michigan	6	3,005	1,898	—	58	35	24	7,969	2	4	1,397	—
Wisconsin	5	1,002	453	1	19	16	26	4,833	10	5	848	—
WEST NORTH CENTRAL	5	4,966	681	1	62	69	9	3,246	4	—	1,457	3
Minnesota	—	182	83	—	15	22	—	38	—	—	37	1
Iowa	1	571	134	—	5	13	1	1,001	—	—	30	—
Missouri	1	266	257	—	30	16	2	903	4	—	729	1
North Dakota	3	1,051	28	—	—	3	6	461	—	—	65	—
South Dakota	—	356	27	—	1	3	—	6	—	—	18	—
Nebraska	—	395	2	—	2	3	—	34	—	—	19	—
Kansas	—	2,145	150	1	9	9	—	803	—	—	559	1
SOUTH ATLANTIC	9	327	502	5	208	187	48	3,017	3	3	1,517	13
Delaware	—	35	7	—	6	4	—	8	—	—	19	—
Maryland	—	48	22	—	24	18	4	211	—	—	37	—
District of Columbia	—	1	3	—	5	1	—	112	—	—	—	—
Virginia	1	38	30	—	17	30	18	721	1	1	312	1
West Virginia	8	148	167	—	5	7	3	1,023	2	1	189	—
North Carolina	—	2	5	—	36	39	5	102	—	1	43	6
South Carolina	—	—	48	—	33	16	1	48	—	—	739	2
Georgia	—	30	4	4	14	8	1	17	—	—	2	—
Florida	—	25	216	1	68	64	16	775	—	—	176	4
EAST SOUTH CENTRAL	—	271	204	1	150	98	32	4,359	4	5	937	3
Kentucky	—	83	140	—	61	38	14	1,675	2	2	230	1
Tennessee	—	177	34	1	48	44	12	2,025	1	3	679	—
Alabama	—	3	17	—	28	9	2	367	—	—	21	1
Mississippi	—	8	13	—	13	7	4	292	1	—	7	1
WEST SOUTH CENTRAL	6	292	185	9	177	154	14	4,175	15	2	703	12
Arkansas	—	—	6	—	8	11	—	168	—	—	19	—
Louisiana	1	1	13	2	30	32	—	327	6	—	280	4
Oklahoma	—	125	25	—	9	17	2	183	2	—	83	—
Texas *	5	166	141	7	130	94	12	3,497	7	2	321	8
MOUNTAIN	2	1,399	728	—	34	29	1	858	1	1	503	—
Montana	—	50	372	—	7	1	—	25	1	—	252	—
Idaho	—	11	51	—	5	2	—	12	—	—	74	—
Wyoming	—	1	1	—	—	3	—	2	—	—	—	—
Colorado	—	1,158	30	—	9	7	1	591	—	1	127	—
New Mexico	—	13	55	—	4	2	—	19	—	—	15	—
Arizona	2	73	15	—	1	5	—	—	—	—	2	—
Utah	—	66	5	—	7	6	—	123	—	—	26	—
Nevada	—	27	199	—	1	3	—	86	—	—	7	—
PACIFIC	23	5,498	872	3	101	99	31	7,245	3	2	1,743	12
Washington	3	288	63	—	16	11	1	3,680	—	—	267	1
Oregon	—	196	—	—	4	12	2	608	2	—	161	—
California *	20	4,950	748	3	78	70	28	2,880	1	2	1,298	10
Alaska *	—	—	—	—	2	3	—	42	—	—	—	—
Hawaii	—	64	61	—	1	3	—	35	—	—	17	1
Guam	—	22	14	—	2	1	—	22	—	—	7	—
Puerto Rico	7	591	562	—	1	6	3	681	—	—	19	11
Virgin Islands	—	8	24	—	—	—	—	221	—	—	3	2

\*Delayed reports: Measles: Me. 2, N.H. 1, Mass. delete 6  
Meningococcal Infection: Calif. delete 1 civil., 1 mil., Alaska 1  
Pertussis: Texas delete 1  
Rubella: Me. 2

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING AUGUST 23, 1975 AND AUGUST 24, 1974 (34th WEEK)

AREA	TUBERCULOSIS		TULA-REMLIA	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (Rky. Mt. spotted fever)		VENEREAL DISEASES (Civilian Cases Only)					RABIES IN ANIMALS	
	1975	Cum. 1975	Cum. 1975	1975	Cum. 1975	1975	Cum. 1975	1975	GONORRHEA		SYPHILIS (Pri. & Sec.)		Cum. 1975	
									Cumulative		1975	Cumulative		
		1975	1974			1975	1974			1975		1974		
UNITED STATES	679	21,907	80	6	200	32	611	20,751	635,420	571,104	466	16,708	16,446	1,621
NEW ENGLAND	18	877	-	-	9	-	6	457	17,270	15,140	16	580	583	46
Maine *	-	56	-	-	-	-	-	68	1,345	1,222	1	21	26	28
New Hampshire *	-	24	-	-	-	-	-	15	482	473	-	11	8	1
Vermont *	-	16	-	-	-	-	-	18	408	414	-	5	1	-
Massachusetts	3	511	-	-	5	-	2	176	8,014	7,009	12	372	415	9
Rhode Island	9	92	-	-	-	-	3	57	1,418	1,274	1	13	11	1
Connecticut	6	178	-	-	4	-	1	123	5,603	4,748	2	158	122	7
MIDDLE ATLANTIC	120	4,023	3	1	39	7	65	2,325	74,257	70,545	93	3,071	3,583	73
Upstate New York	10	579	2	-	5	6	29	352	13,083	13,108	16	295	353	59
New York City	61	1,608	-	1	19	-	-	1,001	32,100	30,490	52	1,752	2,065	-
New Jersey	13	772	1	-	6	1	8	279	10,277	10,157	10	479	577	-
Pennsylvania	36	1,064	-	-	9	-	28	693	18,797	16,790	15	545	588	14
EAST NORTH CENTRAL	124	3,021	4	1	24	-	15	3,613	104,257	90,567	32	1,364	1,388	71
Ohio *	23	872	-	1	8	-	14	1,272	29,096	23,557	18	323	194	5
Indiana	6	384	-	-	-	-	-	64	8,865	8,727	2	101	124	6
Illinois	55	813	-	-	11	-	1	1,057	35,976	29,574	5	654	719	16
Michigan	40	858	1	-	5	-	-	722	20,204	20,527	7	226	282	6
Wisconsin	-	94	3	-	-	-	-	498	10,116	8,182	-	60	69	38
WEST NORTH CENTRAL	32	802	14	-	7	1	23	1,019	31,391	29,722	13	418	421	377
Minnesota	13	108	-	-	2	-	-	219	6,541	6,249	1	74	55	94
Iowa	3	82	1	-	1	-	-	89	4,410	3,987	-	23	27	77
Missouri *	5	394	10	-	4	-	11	363	11,271	9,952	6	201	279	39
North Dakota	-	9	-	-	-	-	-	18	492	458	-	5	5	75
South Dakota	-	53	-	-	-	-	-	39	1,229	1,364	-	5	2	47
Nebraska	1	27	1	-	-	1	2	96	2,786	2,492	1	14	9	4
Kansas	10	129	2	-	-	-	10	195	4,662	5,220	5	96	44	41
SOUTH ATLANTIC	171	4,873	15	-	29	17	313	4,739	157,514	147,063	134	5,214	5,156	228
Delaware	-	97	-	-	-	-	3	91	2,247	2,016	-	65	53	-
Maryland	21	795	1	-	5	1	25	744	18,704	14,862	11	386	511	7
District of Columbia	16	263	-	-	-	-	-	220	9,258	12,984	15	451	420	-
Virginia	13	568	6	-	5	2	78	466	15,652	13,347	15	402	518	84
West Virginia	4	179	-	-	4	-	3	46	1,941	1,708	2	38	11	3
North Carolina	36	782	-	-	2	7	101	418	21,948	19,771	21	652	609	6
South Carolina	15	294	3	-	3	5	67	431	14,789	14,245	6	351	461	8
Georgia	29	711	4	-	1	2	31	919	29,338	28,573	14	671	772	104
Florida	37	1,184	1	-	9	-	5	1,404	43,637	39,557	50	2,198	1,801	16
EAST SOUTH CENTRAL	54	1,867	9	1	20	3	78	1,662	53,680	48,919	20	726	819	119
Kentucky	15	340	1	-	6	-	3	170	6,987	6,048	2	112	190	82
Tennessee *	13	710	8	1	10	2	57	616	21,184	19,281	9	277	313	18
Alabama	23	557	-	-	2	-	6	488	14,843	13,550	5	167	158	19
Mississippi	3	260	-	-	2	1	12	388	10,666	10,040	4	170	158	-
WEST SOUTH CENTRAL	67	2,481	31	-	10	4	107	2,885	78,112	74,580	49	1,430	1,468	349
Arkansas	11	338	13	-	1	15	15	569	8,271	7,735	2	43	71	57
Louisiana	20	316	1	-	4	-	-	277	14,302	15,686	15	340	414	4
Oklahoma	2	218	9	-	-	1	74	277	7,504	6,338	4	53	86	76
Texas	34	1,609	8	-	6	2	18	1,762	48,035	44,821	28	994	897	212
MOUNTAIN	19	657	2	-	6	-	3	951	24,993	21,872	15	390	370	182
Montana	4	39	1	-	-	-	1	54	1,343	1,210	-	4	2	140
Idaho	-	17	-	-	-	-	1	46	1,243	1,154	1	10	7	-
Wyoming	1	19	1	-	1	-	-	16	576	486	-	9	2	5
Colorado	7	136	-	-	1	-	1	218	6,147	6,074	1	68	88	-
New Mexico	2	91	-	-	2	-	-	173	4,570	3,081	2	104	55	28
Arizona	5	286	-	-	2	-	-	232	6,812	6,334	9	145	163	9
Utah	-	30	-	-	-	-	-	54	1,597	1,218	-	11	8	-
Nevada	-	39	-	-	-	-	-	158	2,705	2,315	2	39	45	-
PACIFIC	74	3,306	2	3	56	-	1	3,100	93,946	72,696	94	3,515	2,658	176
Washington	6	236	1	-	4	-	1	324	8,586	7,704	-	118	81	-
Oregon	4	121	-	-	-	-	-	220	7,039	7,089	1	89	61	6
California	64	2,528	1	3	51	-	-	2,500	74,426	54,668	90	3,269	2,491	167
Alaska	-	43	-	-	-	-	-	56	2,293	1,740	1	5	3	3
Hawaii	-	378	-	-	1	-	-	-	1,602	1,495	2	34	22	-
Guam *	-	40	-	-	-	-	-	-	260	-	-	8	-	-
Puerto Rico	11	343	-	-	3	-	-	41	1,892	2,174	20	472	582	37
Virgin Islands *	-	3	-	-	2	-	-	4	120	507	-	22	43	-

\*Delayed reports: Tuberculosis: Mo. 9  
Gonorrhea: Me. delete 1, Vt. 20, Tenn. 157, Guam 3, V.I. delete 2  
Syphilis: Ohio 2; (1974) N.H. 2

## Morbidity and Mortality Weekly Report

Week No. 34

TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING AUGUST 23, 1975

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

Area	All Causes					Pneumonia and Influenza All Ages	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	
<b>NEW ENGLAND</b>	634	403	149	30	36	38	<b>SOUTH ATLANTIC</b>	1,056	594	304	74	46	43
Boston, Mass.	190	114	51	11	11	12	Atlanta, Ga.	128	60	41	15	9	8
Bridgeport, Conn.	37	27	8	—	1	1	Baltimore, Md.	224	131	60	19	7	7
Cambridge, Mass.	27	20	4	—	3	5	Charlotte, N. C.	48	26	17	2	2	4
Fall River, Mass.	36	26	8	2	—	—	Jacksonville, Fla.	80	47	23	7	1	—
Hartford, Conn.	49	24	15	4	4	1	Miami, Fla.	94	53	27	7	3	2
Lowell, Mass.	19	14	3	—	—	—	Norfolk, Va.	63	27	23	2	6	2
Lynn, Mass.	22	14	5	1	—	1	Richmond, Va.	82	50	24	4	2	5
New Bedford, Mass.	21	13	6	1	1	2	Savannah, Ga.	25	14	6	2	1	5
New Haven, Conn.	62	33	15	6	8	4	St. Petersburg, Fla.	78	65	11	1	1	—
Providence, R. I.	53	32	11	2	6	8	Tampa, Fla.	77	42	25	2	6	3
Somerville, Mass.	9	7	2	—	—	—	Washington, D. C.	113	54	36	11	5	6
Springfield, Mass.	32	20	9	—	1	3	Wilmington, Del.	44	25	11	2	3	1
Waterbury, Conn.	25	17	6	1	—	1	<b>EAST SOUTH CENTRAL</b>	622	340	168	46	34	22
Worcester, Mass.	52	42	6	2	1	—	Birmingham, Ala.	95	57	24	4	2	1
<b>MIDDLE ATLANTIC</b>	2,800	1,667	768	169	99	105	Chattanooga, Tenn.	56	32	14	6	1	5
Albany, N. Y.	40	20	12	4	—	2	Knoxville, Tenn.	45	30	7	2	2	—
Allentown, Pa.	17	10	6	—	—	—	Louisville, Ky.	109	63	34	6	1	6
Buffalo, N. Y.	110	62	36	3	5	4	Memphis, Tenn.	159	68	42	15	25	3
Camden, N. J.	48	28	11	6	2	3	Mobile, Ala.	54	34	15	5	—	1
Elizabeth, N. J.	21	16	4	—	1	1	Montgomery, Ala.	31	13	11	4	1	1
Erie, Pa.	32	18	11	1	2	—	Nashville, Tenn.	73	43	21	4	2	5
Jersey City, N. J.	77	32	35	—	9	2	<b>WEST SOUTH CENTRAL</b>	1,173	628	295	107	69	22
Newark, N. J.	59	29	21	6	1	3	Austin, Tex.	36	23	7	2	2	2
New York City, N. Y. †	1,334	816	339	90	39	57	Baton Rouge, La.	72	35	25	7	1	2
Paterson, N. J.	34	14	11	5	4	5	Corpus Christi, Tex.	30	18	7	4	—	—
Philadelphia, Pa.	501	293	134	39	22	4	Dallas, Tex.	163	84	46	18	6	1
Pittsburgh, Pa.	148	85	47	6	2	9	El Paso, Tex.	60	27	19	9	2	5
Reading, Pa.	54	31	17	2	1	4	Fort Worth, Tex.	102	57	22	4	10	—
Rochester, N. Y.	97	65	24	1	2	5	Houston, Tex.	263	129	74	23	20	5
Schenectady, N. Y.	24	15	7	—	1	—	Little Rock, Ark.	57	32	12	5	3	—
Scranton, Pa.	29	17	11	—	1	—	New Orleans, La.	145	87	31	11	11	2
Syracuse, N. Y.	88	51	24	4	5	2	San Antonio, Tex.	125	71	23	16	8	1
Trenton, N. J.	43	30	10	1	2	2	Shreveport, La.	49	22	17	4	2	1
Utica, N. Y.	19	16	2	1	—	1	Tulsa, Okla.	71	43	12	4	4	3
Yonkers, N. Y.	25	19	6	—	—	1	<b>MOUNTAIN</b>	493	287	127	40	19	15
<b>EAST NORTH CENTRAL</b>	2,309	1,321	600	173	94	44	Albuquerque, N. Mex.	47	27	13	3	3	2
Akron, Ohio	81	46	21	1	9	—	Colorado Springs, Colo.	29	16	11	1	—	2
Canton, Ohio	54	36	14	2	1	—	Denver, Colo.	120	69	34	10	5	3
Chicago, Ill.	607	318	166	59	33	12	Las Vegas, Nev.	26	12	10	1	—	2
Cincinnati, Ohio	166	98	39	11	7	1	Ogden, Utah	18	14	3	1	—	2
Cleveland, Ohio	166	95	42	14	5	4	Phoenix, Ariz.	115	61	28	17	5	1
Columbus, Ohio	133	81	32	10	5	1	Pueblo, Colo.	20	16	3	—	—	3
Dayton, Ohio	133	83	33	7	3	2	Salt Lake City, Utah	52	31	14	1	4	—
Detroit, Mich.	268	149	73	17	6	5	Tucson, Ariz.	66	41	11	6	2	—
Evansville, Ind.	35	27	7	1	—	—	<b>PACIFIC</b>	1,440	898	355	96	36	51
Fort Wayne, Ind.	55	30	14	2	2	3	Berkeley, Calif.	21	14	5	1	1	—
Gary, Ind.	28	13	11	1	1	1	Fresno, Calif.	72	39	18	5	4	4
Grand Rapids, Mich.	43	24	12	3	4	1	Glendale, Calif.	28	19	5	2	1	—
Indianapolis, Ind.	134	75	34	16	5	3	Honolulu, Hawaii	52	31	16	2	3	4
Madison, Wis.	24	10	8	3	1	3	Long Beach, Calif.	86	60	19	4	—	—
Milwaukee, Wis.	127	86	23	11	4	1	Los Angeles, Calif.	363	227	91	26	7	12
Peoria, Ill.	29	16	9	2	1	—	Oakland, Calif.	57	38	10	7	1	1
Rockford, Ill.	36	16	15	2	—	3	Pasadena, Calif.	28	18	8	2	—	—
South Bend, Ind.	47	33	11	1	1	3	Portland, Oreg.	115	74	31	5	1	8
Toledo, Ohio	85	49	23	6	4	1	Sacramento, Calif.	54	32	13	5	4	1
Youngstown, Ohio	58	36	13	4	2	—	San Diego, Calif.	105	59	29	5	6	1
<b>WEST NORTH CENTRAL</b>	655	410	160	32	26	23	San Francisco, Calif.	158	106	35	13	—	5
Des Moines, Iowa	45	28	12	3	—	1	San Jose, Calif.	52	30	14	6	1	2
Duluth, Minn.	17	13	3	—	—	—	Seattle, Wash.	159	92	45	11	2	5
Kansas City, Kans.	32	22	6	3	—	2	Spokane, Wash.	56	35	11	1	5	8
Kansas City, Mo.	112	65	33	2	6	1	Tacoma, Wash.	34	24	5	1	—	—
Lincoln, Nebr.	25	16	5	3	1	1	<b>Total</b>	11,182	6,548	2,926	767	459	363
Minneapolis, Minn.	90	60	22	5	3	1	<b>Expected Number</b>	11,848	6,990	3,142	821	375	371
Omaha, Nebr.	69	41	19	1	3	4							
St. Louis, Mo.	165	106	33	9	10	3							
St. Paul, Minn.	54	36	9	4	2	2							
Wichita, Kans.	46	23	18	2	1	8							

†Delayed report for week ending August 16, 1975

PRIMARY AND SECONDARY SYPHILIS –  
United States, June 1975 (Provisional Data)

The 2,019 primary and secondary syphilis cases reported in June 1975 were slightly less (0.6%) than the number reported in June 1974 (provisional data). In the first 6 months

(January-June) of 1975, cases totaled 12,762, representing an increase of 3.3% over the number reported for the same time period in 1974.

SUMMARY OF REPORTED PRIMARY AND SECONDARY SYPHILIS CASES  
BY REPORTING AREA: JUNE 1975 and JUNE 1974 – PROVISIONAL DATA

Reporting Area	June		Calendar Year Cumulative January – June		Reporting Area	June		Calendar Year Cumulative January – June	
	1975	1974	1975	1974		1975	1974	1975	1974
Connecticut	22	21	114	91	Arkansas	5	4	31	62
Maine	0	1	15	13	Louisiana	42	48	254	330
Massachusetts	35	54	289	323	New Mexico	11	6	88	41
New Hampshire	0	2	10	5	Oklahoma	2	5	39	68
Rhode Island	1	2	5	8	Texas	102	92	720	649
Vermont	1	0	5	1	<b>DHEW REGION VI TOTAL</b>	<b>162</b>	<b>155</b>	<b>1,132</b>	<b>1,150</b>
<b>DHEW REGION I TOTAL</b>	<b>59</b>	<b>80</b>	<b>438</b>	<b>441</b>	Iowa	6	5	18	19
New Jersey	64	76	408	452	Kansas	9	3	56	29
New York (Excl. NYC)	25	43	214	272	Missouri	25	45	157	204
New York City	223	251	1,434	1,565	Nebraska	2	2	6	5
<b>DHEW REGION II TOTAL</b>	<b>312</b>	<b>370</b>	<b>2,056</b>	<b>2,289</b>	<b>DHEW REGION VII TOTAL</b>	<b>42</b>	<b>55</b>	<b>237</b>	<b>257</b>
Delaware	17	4	53	41	Colorado	5	16	57	68
Dist. of Columbia	66	54	327	318	Montana	0	2	4	2
Md. (Excl. Baltimore)	16	20	110	125	North Dakota	2	2	4	4
Baltimore	31	40	194	251	South Dakota	1	0	3	2
Penn. (Excl. Philadelphia)	37	13	197	100	Utah	1	0	9	6
Philadelphia	39	57	231	339	Wyoming	1	0	4	2
Virginia	37	68	284	405	<b>DHEW REGION VIII TOTAL</b>	<b>10</b>	<b>20</b>	<b>81</b>	<b>84</b>
West Virginia	1	0	15	9	Arizona	9	26	123	573
<b>DHEW REGION III TOTAL</b>	<b>244</b>	<b>256</b>	<b>1,411</b>	<b>1,588</b>	California (Excl. LA & SF)	183	115	909	573
Alabama	17	18	129	120	Los Angeles*	144	136	946	915
Florida	270	229	1,688	1,313	San Francisco*	64	77	481	387
Georgia (Excl. Atlanta)	59	61	325	371	Hawaii	3	4	33	20
Atlanta*	44	40	210	217	Nevada	6	2	30	33
Kentucky	10	20	86	141	<b>DHEW REGION IX TOTAL</b>	<b>409</b>	<b>360</b>	<b>2,522</b>	<b>2,049</b>
Mississippi	23	19	133	115	Alaska	1	1	2	1
North Carolina	71	72	528	466	Idaho	1	1	10	6
South Carolina	36	34	262	344	Oregon	10	7	61	44
Tennessee	33	47	204	242	Washington	9	10	107	61
<b>DHEW REGION IV TOTAL</b>	<b>563</b>	<b>540</b>	<b>3,565</b>	<b>3,329</b>	<b>DHEW REGION X TOTAL</b>	<b>21</b>	<b>19</b>	<b>180</b>	<b>112</b>
Illinois (Excl. Chicago)	27	13	141	128	<b>UNITED STATES TOTAL</b>	<b>2,019</b>	<b>2,032</b>	<b>12,762</b>	<b>12,353</b>
Chicago	59	74	399	396	Puerto Rico	58	60	404	443
Ind. (Excl. Indianapolis)	7	6	53	64	Virgin Islands	4	2	17	19
Indianapolis*	4	3	13	30	<b>U.S. INCL. TERR.</b>	<b>2,081</b>	<b>2,094</b>	<b>13,183</b>	<b>12,815</b>
Michigan	31	44	173	207	Note: Cumulative totals include revised and delayed reports through previous months.				
Minnesota	7	9	56	42	Source: HSM 9.98 CDC, VD Control Division, Atlanta, Ga. 30333.				
Ohio	58	25	257	140					
Wisconsin	4	3	48	47					
<b>DHEW REGION V TOTAL</b>	<b>197</b>	<b>177</b>	<b>1,140</b>	<b>1,054</b>					

FOLLOW-UP ON ST. LOUIS ENCEPHALITIS – Mississippi, United States

Mississippi

Through August 25, 1975, a total of 220 cases of possible central nervous system infection with St. Louis encephalitis (SLE) virus had been reported from 40 counties in Mississippi. Fifty-five of these cases have been confirmed by 4-fold or greater rises in hemagglutination inhibition (HI) anti-

body titer to SLE virus, and 47 others are considered probable cases based on single elevated HI titers. Thirty-one deaths have occurred, including 5 with confirmed, 14 with probable, and 12 with possible SLE virus infection.

United States

Serologically confirmed or probable cases of encephalitis

## ST. LOUIS ENCEPHALITIS – Continued

itis caused by SLE infection have now been reported from the following states: Alabama (3), Arkansas (4), Illinois (6), Kentucky (1), Louisiana (2), New Jersey (2), Ohio (1), and Tennessee (2). In addition, Missouri has reported a fatal confirmed case in which virus was isolated from post-mortem brain tissue.

(Reported by Durward L Blakey, MD, State Epidemiologist, Mississippi State Board of Health; Frederick Wolf, MD, State Epidemiologist, Alabama State Department of Health; Clyde Sellers, Director, Communicable Disease Bureau, and George Hardy, MD, Health Officer, Jefferson County Health Department; Andrew Dean, MD, Acting State Epidemiologist, Arkansas State Board of Health; Byron John Francis, MD, State Epidemiologist, Russell James Martin, DVM, Assistant State Epidemiologist, and Richard Morrissey, Director, Infectious Disease Public Health Laboratory, Illinois Department of Public Health; James Barringer, Administrator, Will County Health Department, Joliet, Illinois; Colette Rasmussen, MD, Epi-

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## Addendum – Vol. 24, Nos. 32 and 33, p. 270 and p. 283

In "Western Equine Encephalitis – Minnesota and North Dakota" and "Follow-Up on Western Equine and St. Louis Encephalitis – North Dakota, Minnesota, Mississippi," the following group was inadvertently omitted from the credits: the Vector Biology and Control Division, Bureau of Tropical Diseases, CDC.

## Addendum – Vol. 24, No. 33, p. 277

In "Human Plague – New Mexico," the following groups were inadvertently omitted from the credits: the Environmental Improvement Agency, New Mexico Department of Health and Social Services, and the Environmental Services Branch, Navajo Area, Indian Health Service.

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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.

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials.

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