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# Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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**EPIDEMIOLOGIC NOTES AND REPORTS**  
**HUMAN LEPTOSPIROSIS - California**

On approximately Oct. 6, 1972, a 36-year-old neurosurgeon from Palo Alto, California, became ill with malaise, myalgia, and headache. His symptoms were relatively mild until October 25, when he had acute onset of extreme lethargy, chills, and fever. Over the next 5 days, he experienced anorexia, intense headache, arthralgia in the knees and ankles, and low back pain. His temperature ranged from 101° to 102.6°F., and subsequent physical examination revealed a palpable spleen tip. He had no meningeal signs, hepatomegaly, conjunctivitis, lymphadenopathy, or rash. The urine contained 10 to 15 red blood cells, 4 to 6 white blood cells, and a trace of protein. Liver function tests were normal.

Intravenous ampicillin was begun on the 5th day of illness, but within 1 hour after the 1st 2-gram dose, the patient experienced prolonged rigor. His temperature which had been

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temporarily lowered to 99°F. with acetaminophen rose to 103°F., and his pulse to 120 per minute. Following this episode, the patient remained afebrile. Ampicillin was continued for 6 days, and recovery was uneventful. The California Department of Public Health Laboratory reported that the leptospiral microscopic agglutination titer to Tarassovi rose from less than 1:50 to 1:6,400.

Past history revealed that the patient had vacationed at a resort at Yelapa, Jalisco State, on the Pacific coast of

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

DISEASE	6th WEEK ENDING		MEDIAN 1968-1972	CUMULATIVE, FIRST 6 WEEKS		
	February 10, 1973	February 12, 1972		1973	1972	MEDIAN 1968-1972
Aseptic meningitis . . . . .	23	42	35	231	218	183
Brucellosis . . . . .	2	1	-	10	13	7
Chickenpox . . . . .	5,230	3,500	-	26,843	19,042	-
Diphtheria . . . . .	2	1	5	12	7	17
Encephalitis, primary:						
Arthropod-borne and unspecified . . . . .	15	18	16	82	90	120
Encephalitis, post-infectious . . . . .	4	5	8	17	26	42
Hepatitis, serum (Hepatitis B) . . . . .	83	148	128	752	1,050	736
Hepatitis, infectious (Hepatitis A) . . . . .	861	1,080	1,067	5,541	6,407	6,407
Malaria . . . . .	5	14	39	16	220	278
Measles (rubeola) . . . . .	676	474	645	3,441	3,663	3,663
Meningococcal infections, total . . . . .	25	49	84	161	215	394
Civilian . . . . .	25	49	82	153	208	377
Military . . . . .	-	-	2	8	7	17
Mumps . . . . .	1,869	2,027	2,514	10,059	12,425	14,613
Rubella (German measles) . . . . .	385	565	889	2,215	2,839	3,580
Tetanus . . . . .	2	4	2	7	6	8
Tuberculosis, new active . . . . .	467	478	-	3,006	3,016	-
Tularemia . . . . .	2	3	3	10	12	12
Typhoid fever . . . . .	3	5	4	20	26	26
Typhus, tick-borne (Rky. Mt. spotted fever) . . . . .	1	-	-	3	9	3
Venereal Diseases:						
Gonorrhea . . . . .	11,683	13,467	-	83,260	76,964	-
Syphilis, primary and secondary . . . . .	496	414	-	3,087	2,505	-
Rabies in animals . . . . .	64	67	67	316	382	382

**TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY**

	Cum.		Cum.
Anthrax: . . . . .	-	Poliomyelitis, total: . . . . .	-
Botulism: . . . . .	-	Paralytic: . . . . .	-
Congenital rubella syndrome: . . . . .	2	Psittacosis: Mass. - 1 . . . . .	2
Leprosy: * . . . . .	3	Rabies in man: . . . . .	-
Leptospirosis: . . . . .	5	Trichinosis: Ohio - 1 . . . . .	6
Plague: . . . . .	-	Typhus, murine: . . . . .	-

\*Delayed reports: Leprosy: (1972) Del. delete 1

**LEPTOSPIROSIS – Continued**

Mexico from Sept. 30 through Oct. 6, 1972. His activities included swimming in the ocean and in a remote jungle stream. He reported no contact with livestock other than saddle horses. Tests on serum specimens obtained from the patient's wife, who accompanied him to Mexico but remained well, are in progress.

(Reported by Arthur W. Traum, M.D., private physician, and O. W. Henney, R.N., Permanente Medical Group, Redwood City, California; Linda Bradford, Serology Section, and Ronald M. Wood, Ph.D., Chief, Microbial Diseases Laboratory, and James Chin, M.D., State Epidemiologist, California State Department of Public Health.)

**Editorial Note**

Human Tarassovi serogroup infections are rare in the

United States; only 1 other case has been reported to CDC previously. Human Tarassovi infections occur in Australasia, South America, and Europe where exposure to infected cattle and swine is the usual source. Although Tarassovi infections appear to be common in wildlife in the southeastern United States, they appear infrequently in domestic animals.

A possible Jarisch-Herxheimer reaction was believed to have occurred in this patient following ampicillin therapy. This has been reported previously in patients receiving a large initial dose of penicillin early in the course of the disease (1,2).

**References**

1. Turner LH: Leptospirosis. *Brit Med J* 1:231-233, 1969
2. Gsell O: The therapy of leptospirosis. In Symposium on the Leptospires, Walter Reed Army Medical Center (Medical Science Publication No. 1), Washington, GPO, 1953, pp 210-220

**MEASLES – Tennessee**

Between Dec. 10, 1972, and Feb. 13, 1973, 57 cases of measles were reported in Madison County, Tennessee (Figure 1); 56 of the 57 cases occurred in the City of Jackson. Forty-four (77%) of the cases were in children 5- to 15-years-old.

Investigation revealed that 30 cases occurred in students attending the W.J. Elementary School, 14 were in children at other elementary schools, and 13 were in preschool children. In addition, 7 of the earliest cases were in children who attended the same Sunday school, and 2 of these 7 also attended the W.J. Elementary School.

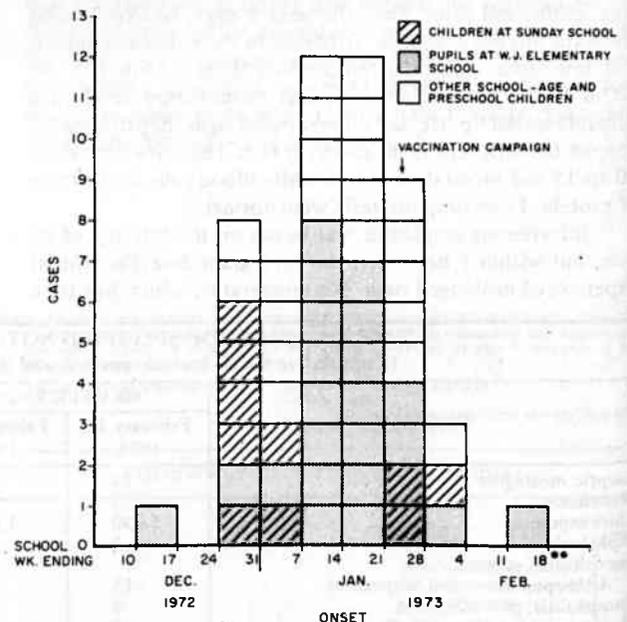
The overall attack rate for this elementary school was 8.2%, and for children without a previous history of measles immunization or natural disease, it was 25.7%; the attack rate for immunized children was 1.4%. Vaccine efficacy calculated from a survey of 315 (85%) of the children at the school was 94.6%; the immunity level was 67.3%.

On January 23 and 24, vaccination campaigns were held in the city and county schools, and special night clinics were set up for preschoolers. Procedures for ongoing surveillance of measles by the city schools, local physicians, the Madison County Health Department, and surrounding rural counties were established.

In October 1972, an immunization status survey of 142 randomly selected 2-year-old children had been conducted in Madison County, and the overall immunization level was found to be 69.0%. Of the 44 unimmunized 2-year-olds identified in the survey, the largest concentration (13) was in the Jackson area where the earliest known cases of measles in this outbreak were reported.

(Reported by W. R. Bronson, Principal, and Shirley Reams, Secretary, W.J. Elementary School, Jackson; A. J. Mueller, M.D., Health Officer, Madison County Health Department; Stephen J. Barid and Robert Flye, Public Health Advisors, and Robert H. Hutcheson, Jr., M.D., State Epidemiologist,

Figure 1  
MEASLES CASES, BY DATE OF ONSET  
MADISON COUNTY, TENNESSEE\* – DEC. 10, 1972-FEB. 13, 1973



\* DATE OF ONSET FOR 4 CASES AT W. J. ELEMENTARY SCHOOL UNKNOWN  
\*\* PRELIMINARY DATA

Tennessee Department of Public Health; and an EIS Officer.)  
**Editorial Note**

As the peak measles period approaches, it becomes increasingly important to identify cases early and immunize susceptible populations. The 57 cases that have been identified in this outbreak stemmed from an initial report to the health department of only 4 cases.

**CURRENT TRENDS****INFLUENZA – California, Connecticut, Hawaii, North Dakota, Oklahoma, Oregon, South Dakota****California**

Influenza B virus has been isolated from a San Mateo County child who became ill in mid-January with severe myalgia. He had no history of travel to Hawaii, the only area where significant outbreaks of influenza B have been reported. No other cases of influenza B have been identified in the

state.

(Reported by James Chin, M.D., State Epidemiologist, California State Department of Public Health.)

**Connecticut**

In the 1st 5 weeks of 1973, 44 of 169 Connecticut towns reported influenza; 24 towns reported laboratory-

confirmed illness due to A/England/42/72 virus. There have been 14 isolates of A/England/42/72 and 29 positive serologies. School absenteeism appeared to peak in the week ending January 27.

(Reported by Martin Ross, Ph.D., Chief, Virology Section, Laboratory Division, and James C. Hart, M.D., Director, Preventable Diseases Division, Connecticut State Department of Health.)

**Hawaii**

Most reports of isolates of influenza B in the United States have come from Hawaii, and although cases are still being reported, influenza B activity appeared to peak in December. The clinical illness in children was characterized by gastroenteritis as well as by upper respiratory symptoms. Over the past 6 weeks, there have been sporadic outbreaks of influenza A, which have been associated with increases in emergency room visits and school and industrial absenteeism. (Reported by Ned H. Weibenga, M.D., State Epidemiologist, Hawaii Department of Health.)

**North Dakota**

Physicians began reporting increased influenza and influenza-like disease in early January; A/England/42/72 virus has been documented in 6 patients. Respiratory illness has been widespread in Fargo, where school absenteeism has risen since mid-January. An outbreak at the University of North Dakota in Grand Forks involved an estimated 4,000 of 8,600 students, and 30 required hospitalization. The university outbreak subsided in the last week of January, and in the 1st 2 weeks of February, increased case reporting was noted in the Grand Forks area and on the Grand Forks Air Force Base. (Reported by John Swenson, M.D., Director, Student Health Service, University of North Dakota, Grand Forks; Arthur Gustafson, Director, Grand Forks Public Health Laboratory; James R. Amos, M.D., State Health Officer, and Kenneth Mosser, State Epidemiologist, North Dakota State Department of Health.)

**Oklahoma**

Since mid-January, case reports of influenza-like disease have increased in Oklahoma. Four seroconversions to influenza A and 5 viral isolates have been documented. In addition, there has been an increase in school absenteeism in 1 sentinel school district in the past 2 weeks.

(Reported by Stanley W. Ferguson, Ph.D., State Epidemiologist, and Mark A. Roberts, Staff Epidemiologist, Oklahoma State Department of Health.)

**Oregon**

Oregon physicians began reporting increased influenza-

like illness in the western counties in mid-January. The disease progressed across the state from west to east, has involved most counties, and now appears to have peaked. One isolate of influenza B was obtained from a patient who had recently returned from Hawaii. Other isolates from Oregon have been influenza A/England/42/72.

(Reported by John A. Googins, M.D., State Epidemiologist, Oregon State Board of Health.)

**South Dakota**

Influenza outbreaks have been reported by private physicians across the state, by the Student Health Service of the University of South Dakota, by the Indian Health Service, and by Ellsworth Air Force Base medical authorities. Elementary school absenteeism in Pierre and absenteeism among the state highway employees have been elevated for the past 3 weeks.

(Reported by Robert S. Westaby, M.D., State Epidemiologist, South Dakota State Department of Health.)

**Editorial Note**

Influenza case reporting has decreased in many areas of the United States, and national pneumonia-influenza mortality from 122 cities declined this week for the 1st time since its rise above the epidemic threshold level in the week ending Dec. 30, 1972. The WHO Influenza Center for the Americas reports 8 influenza B isolates from Hawaii and 1 seroconversion to influenza B from Colorado in the week ending January 27, 2 influenza B isolates from Hawaii in the week ending February 3, and 1 isolate from California in the week ending February 10 (Table 1). The remainder of isolates submitted have been antigenically similar to the A/England/42/72 variant.

Table 1  
Influenza Laboratory Surveillance - United States

Week Ending	Number of Laboratories Participating	Viral Isolation		Paired Sera	
		Number Tested	Number Isolates	Number Tested	Number Positive
1/27/73	46	891	209*	361	102****
2/3/73	37	537	149**	535	147
2/10/73	30	516	126***	623	200

\*8 were influenza B from Hawaii  
 \*\*2 were influenza B from Hawaii  
 \*\*\*1 was influenza B from California  
 \*\*\*\*1 was influenza B from Colorado

INTERNATIONAL NOTES  
QUARANTINE MEASURES

The following changes should be made in the "Supplement - United States Designated Yellow Fever Vaccination Centers," MMWR, Vol. 21, No. 20:

**CALIFORNIA**

**Loma Linda** Loma Linda University 92354  
(Change telephone to 796-7311, ext. 3754)

**Sacramento** County Health Department 95817  
(Change clinic hours to:  
Wed., 1-4 p.m.)

**GEORGIA**

**Rome** Floyd County Health Department 30161  
(CENTER CLOSED)

**WEST VIRGINIA**

**Charleston** Kanawka-Charleston Health Dept. 25323  
(Change telephone to 348-8160)

**Erratum, Vol. 22, No. 5, p. 42**

In Figure 3, "Percent Change\* in Reported Measles Cases, United States - 1st 4 Weeks, 1972," correct the symbol in the legend to read  $\geq 200\%$  increase.

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING FEBRUARY 10, 1973 AND FEBRUARY 12, 1972 (6th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	DIPHTHERIA		ENCEPHALITIS			HEPATITIS		
						Primary including unspec. cases		Post In- fectious	Serum (Hepatitis B)	Infectious (Hepatitis A)	
						1973	1972			1973	1973
UNITED STATES	23	2	5,230	2	12	15	18	4	83	861	1,080
NEW ENGLAND	1	—	503	—	2	2	—	—	5	67	93
Maine *	—	—	60	—	—	—	—	—	—	2	10
New Hampshire	—	—	47	—	—	—	—	—	1	5	2
Vermont	—	—	20	—	—	—	—	—	—	2	5
Massachusetts	1	—	236	—	—	1	—	—	1	34	42
Rhode Island	—	—	71	—	2	1	—	—	1	2	20
Connecticut	—	—	69	—	—	—	—	—	2	22	14
MIDDLE ATLANTIC	8	1	247	—	—	2	2	1	31	166	179
Upstate New York	1	—	2	—	—	1	2	1	6	45	42
New York City	5	—	84	—	—	—	—	—	9	45	71
New Jersey	1	1	NN	—	—	1	—	—	8	34	39
Pennsylvania	1	—	161	—	—	—	—	—	8	42	27
EAST NORTH CENTRAL	1	—	2,007	—	1	7	4	—	23	188	184
Ohio	—	—	474	—	1	3	—	—	3	33	30
Indiana	—	—	248	—	—	—	—	—	1	16	10
Illinois	—	—	—	—	—	1	2	—	4	57	54
Michigan	1	—	615	—	—	3	2	—	13	77	79
Wisconsin	—	—	670	—	—	—	—	—	2	5	11
WEST NORTH CENTRAL	1	—	843	1	3	3	1	—	8	47	38
Minnesota *	—	—	40	—	—	—	—	—	—	2	2
Iowa	—	—	645	—	—	—	1	—	5	5	6
Missouri	1	—	66	—	—	3	—	—	—	23	7
North Dakota	—	—	16	—	—	—	—	—	—	—	—
South Dakota	—	—	2	1	3	—	—	—	—	7	9
Nebraska	—	—	39	—	—	—	—	—	—	2	2
Kansas	—	—	35	—	—	—	—	—	3	8	12
SOUTH ATLANTIC	7	—	497	—	—	1	3	1	13	151	214
Delaware	—	—	3	—	—	—	—	—	—	1	1
Maryland	—	—	35	—	—	—	1	1	5	34	28
District of Columbia	—	—	7	—	—	—	—	—	—	3	3
Virginia *	—	—	60	—	—	—	—	—	3	14	34
West Virginia	—	—	338	—	—	—	1	—	3	14	8
North Carolina	2	—	NN	—	—	—	1	—	—	18	26
South Carolina	1	—	47	—	—	1	—	—	1	9	15
Georgia	—	—	7	—	—	—	1	—	—	30	14
Florida	4	—	—	—	—	—	—	—	1	28	85
EAST SOUTH CENTRAL	3	—	552	—	—	—	1	—	1	54	51
Kentucky	—	—	508	—	—	—	1	—	—	16	25
Tennessee	1	—	NN	—	—	—	—	—	—	32	23
Alabama	2	—	30	—	—	—	—	—	1	3	2
Mississippi	—	—	14	—	—	—	—	—	—	3	1
WEST SOUTH CENTRAL	2	1	406	1	1	—	5	—	—	131	103
Arkansas *	—	—	6	—	—	—	3	—	—	1	3
Louisiana	—	—	NN	—	—	—	—	—	—	—	15
Oklahoma *	1	—	55	—	—	—	1	—	—	31	15
Texas	1	1	345	1	1	—	1	—	—	99	70
MOUNTAIN	—	—	23	—	—	—	—	—	1	17	38
Montana	—	—	5	—	—	—	—	—	—	3	4
Idaho	—	—	—	—	—	—	—	—	1	2	5
Wyoming	—	—	—	—	—	—	—	—	—	—	1
Colorado	—	—	—	—	—	—	—	—	—	—	7
New Mexico	—	—	16	—	—	—	—	—	—	9	—
Arizona	—	—	—	—	—	—	—	—	—	—	20
Utah	—	—	2	—	—	—	—	—	—	3	1
Nevada	—	—	—	—	—	—	—	—	—	—	—
PACIFIC	—	—	152	—	5	—	2	2	1	40	180
Washington	—	—	103	—	4	—	1	—	—	4	18
Oregon	—	—	—	—	—	—	—	2	1	34	36
California	—	—	—	—	1	—	1	—	—	—	114
Alaska *	—	—	—	—	—	—	—	—	—	—	5
Hawaii	—	—	49	—	—	—	—	—	—	2	7
Guam *	—	—	7	—	—	—	—	—	1	2	5
Puerto Rico	—	—	8	—	—	—	—	—	—	4	22
Virgin Islands	—	—	—	—	—	—	—	—	—	—	—

\*Delayed reports: Aseptic meningitis: (1972) Minn. 1, (1973) Guam 1  
Brucellosis: (1973) Va, delete 1  
Chickenpox: (1973) Me. 45, Guam 8

Encephalitis, primary: (1972) Minn. 1  
Hepatitis B: (1972) Minn. 1, Okla. 1, Alaska 3, (1973) Ark. 1  
Hepatitis A: (1972) Ark. 2, (1973) Me. 6, Ark. 3, Guam 1

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**TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING FEBRUARY 10, 1973 AND FEBRUARY 12, 1972 (6th WEEK) - Continued**

AREA	MALARIA		MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		RUBELLA	
	1973	Cum. 1973	1973	Cumulative		1973	Cumulative		1973	Cum. 1973	1973	Cum. 1973
				1973	1972		1973	1972				
UNITED STATES . . . . .	5	16	676	3,441	3,663	25	161	215	1,869	10,059	385	2,215
NEW ENGLAND . . . . .	1	1	303	1,416	182	2	11	6	72	407	41	227
Maine . . . . .	-	-	4	6	27	-	-	1	1	13	-	8
New Hampshire . . . . .	-	-	58	257	8	-	1	-	1	21	1	4
Vermont . . . . .	-	-	12	26	38	-	-	-	22	77	-	5
Massachusetts . . . . .	-	-	140	704	15	1	5	2	25	167	27	112
Rhode Island . . . . .	-	-	58	118	33	-	-	3	5	30	2	6
Connecticut . . . . .	1	1	31	305	61	1	5	-	18	99	11	92
MIDDLE ATLANTIC . . . . .	1	3	57	261	311	1	23	17	212	931	104	298
Upstate New York . . . . .	1	2	9	31	16	-	7	5	NN	NN	7	34
New York City . . . . .	-	-	38	163	41	-	6	4	129	562	5	24
New Jersey . . . . .	-	-	2	46	241	1	5	4	55	209	90	224
Pennsylvania * . . . . .	-	1	8	21	13	-	5	4	28	160	2	16
EAST NORTH CENTRAL . . . . .	-	1	227	977	1,587	1	13	25	597	3,100	128	561
Ohio . . . . .	-	-	11	49	42	-	10	11	97	381	11	69
Indiana . . . . .	-	-	26	92	436	1	1	4	70	280	31	133
Illinois . . . . .	-	-	72	345	435	-	1	3	132	573	19	75
Michigan . . . . .	-	1	73	303	243	-	1	6	120	890	21	112
Wisconsin . . . . .	-	-	45	188	431	-	-	1	178	976	46	172
WEST NORTH CENTRAL . . . . .	-	-	11	99	128	5	16	16	300	927	16	235
Minnesota . . . . .	-	-	3	7	4	-	-	1	9	26	3	13
Iowa . . . . .	-	-	5	75	94	-	3	-	240	674	11	54
Missouri . . . . .	-	-	-	3	17	3	8	2	46	109	-	108
North Dakota . . . . .	-	-	3	6	9	-	-	-	1	18	-	18
South Dakota . . . . .	-	-	-	-	2	2	2	1	1	3	1	1
Nebraska . . . . .	-	-	-	1	2	-	-	3	3	27	1	24
Kansas . . . . .	-	-	-	7	-	-	3	9	-	70	-	17
SOUTH ATLANTIC . . . . .	-	4	20	106	384	6	26	49	266	1,123	13	191
Delaware . . . . .	-	-	-	1	1	-	-	1	8	70	1	1
Maryland . . . . .	-	-	-	-	3	2	9	4	40	170	-	2
District of Columbia . . . . .	-	-	-	1	-	-	1	2	-	4	-	1
Virginia . . . . .	-	3	2	9	-	-	3	12	58	118	3	6
West Virginia . . . . .	-	-	3	25	18	-	-	5	84	406	3	29
North Carolina . . . . .	-	1	-	3	15	1	7	7	NN	NN	-	4
South Carolina . . . . .	-	-	4	11	52	-	2	7	21	50	3	6
Georgia . . . . .	-	-	6	7	20	3	3	-	3	7	-	3
Florida . . . . .	-	-	5	49	275	-	1	11	52	298	3	139
EAST SOUTH CENTRAL . . . . .	-	1	10	94	202	-	12	18	198	619	19	101
Kentucky . . . . .	-	-	5	20	100	-	4	5	56	159	3	28
Tennessee . . . . .	-	-	4	55	23	-	5	7	39	261	15	60
Alabama . . . . .	-	1	-	-	48	-	2	5	26	111	-	7
Mississippi . . . . .	-	-	1	19	31	-	1	1	77	88	1	6
WEST SOUTH CENTRAL . . . . .	2	3	29	149	188	9	22	30	82	706	44	173
Arkansas * . . . . .	-	-	2	6	4	-	1	6	6	22	-	8
Louisiana . . . . .	-	-	6	13	6	1	2	11	-	2	-	-
Oklahoma . . . . .	-	-	-	4	2	-	2	-	20	37	7	13
Texas . . . . .	2	3	21	126	176	8	17	13	56	645	37	152
MOUNTAIN . . . . .	1	1	6	57	258	1	8	4	60	576	3	114
Montana . . . . .	-	-	-	1	4	1	1	-	4	42	-	8
Idaho . . . . .	-	-	4	9	3	-	-	2	2	25	-	4
Wyoming . . . . .	-	-	1	1	-	-	-	1	-	141	-	-
Colorado * . . . . .	---	---	---	10	132	---	2	-	---	33	---	41
New Mexico . . . . .	1	1	1	30	17	-	1	1	47	212	3	15
Arizona . . . . .	---	---	---	6	59	---	1	-	---	98	---	7
Utah . . . . .	-	-	-	-	43	-	1	-	7	23	-	38
Nevada . . . . .	-	-	-	-	-	-	2	-	-	2	-	1
PACIFIC . . . . .	-	2	13	282	423	-	30	50	82	1,670	17	315
Washington . . . . .	-	-	1	157	121	-	3	5	18	184	6	61
Oregon . . . . .	-	-	11	63	7	-	2	3	55	411	10	77
California . . . . .	---	2	---	59	281	---	25	42	---	956	---	174
Alaska . . . . .	---	-	---	-	3	---	-	-	---	90	---	-
Hawaii . . . . .	-	-	1	3	11	-	-	-	9	29	1	3
Guam * . . . . .	-	-	-	2	-	-	-	1	1	1	-	1
Puerto Rico . . . . .	-	-	31	188	44	-	-	-	12	80	2	6
Virgin Islands . . . . .	-	-	-	-	-	-	-	2	1	2	-	-

\*Delayed reports: Malaria: (1972) Pa. 1  
 Measles: (1973) Colo. delete 8, Guam 2  
 Mumps: (1973) Ark. 1  
 Rubella: (1973) Ark. 1, Guam 1

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING FEBRUARY 10, 1973 AND FEBRUARY 12, 1972 (6th WEEK) - Continued

AREA	TETANUS	TUBERCULOSIS (New Active)		TULA- REMIA	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (Rky. Mt. spotted fever)		VENEREAL DISEASES		RABIES IN ANIMALS	
	Cumulative 1973	1973	Cum. 1973	Cumulative 1973	1973	Cum. 1973	1973	Cum. 1973	GONOR- RHEA	SYPHILIS (Pri. & Sec.)	1973	Cum. 1973
									1973	1973		
UNITED STATES .....	7	467	3,006	10	3	20	1	3	11,683	496	64	316
NEW ENGLAND .....	-	27	105	-	1	1	-	-	391	21	4	17
Maine *	-	5	7	-	-	-	-	-	16	-	4	17
New Hampshire .....	-	-	1	-	-	-	-	-	12	-	-	-
Vermont *	-	-	2	-	-	-	-	-	6	1	-	-
Massachusetts .....	-	20	62	-	1	1	-	-	208	9	-	-
Rhode Island .....	-	2	6	-	-	-	-	-	60	2	-	-
Connecticut .....	-	-	27	-	-	-	-	-	89	9	-	-
MIDDLE ATLANTIC .....	2	108	598	-	-	4	-	1	1,600	95	-	4
Upstate New York *	-	13	144	-	-	-	-	-	376	2	-	1
New York City .....	1	32	199	-	-	4	-	-	348	65	-	-
New Jersey .....	1	31	121	-	-	-	-	-	286	20	-	-
Pennsylvania .....	-	32	134	-	-	-	-	1	590	8	-	3
EAST NORTH CENTRAL .....	1	94	472	-	1	2	-	-	1,626	26	13	29
Ohio *	-	31	204	-	1	1	-	-	292	8	9	9
Indiana .....	-	14	52	-	-	-	-	-	183	8	-	2
Illinois .....	-	25	118	-	-	-	-	-	404	5	4	8
Michigan .....	-	12	76	-	-	1	-	-	575	5	-	-
Wisconsin *	1	12	22	-	-	-	-	-	172	-	-	10
WEST NORTH CENTRAL .....	2	27	106	1	-	-	1	1	1,059	6	15	97
Minnesota .....	-	3	5	-	-	-	-	-	210	3	13	37
Iowa .....	-	3	15	-	-	-	-	-	200	-	-	31
Missouri .....	2	11	51	1	-	-	1	1	374	1	1	9
North Dakota .....	-	-	4	-	-	-	-	-	12	-	1	17
South Dakota .....	-	1	10	-	-	-	-	-	58	-	-	3
Nebraska .....	-	5	9	-	-	-	-	-	57	-	-	-
Kansas .....	-	4	12	-	-	-	-	-	148	2	-	-
SOUTH ATLANTIC .....	1	105	652	1	-	4	-	-	3,511	188	8	32
Delaware .....	-	-	9	-	-	-	-	-	44	1	-	-
Maryland .....	-	15	68	-	-	-	-	-	237	2	1	1
District of Columbia .....	-	4	35	-	-	-	-	-	329	20	-	-
Virginia .....	-	15	92	1	-	-	-	-	486	53	2	13
West Virginia .....	-	4	26	-	-	-	-	-	43	-	1	5
North Carolina *	-	16	103	-	-	1	-	-	546	12	-	-
South Carolina .....	-	-	80	-	-	1	-	-	360	25	-	-
Georgia .....	-	17	102	-	-	1	-	-	578	44	3	7
Florida .....	1	34	137	-	-	1	-	-	888	31	1	6
EAST SOUTH CENTRAL .....	1	53	249	4	-	1	-	1	1,227	66	15	74
Kentucky .....	-	17	64	1	-	-	-	-	82	40	11	27
Tennessee .....	-	18	66	3	-	-	-	-	485	10	4	31
Alabama .....	1	9	78	-	-	1	-	1	348	1	-	16
Mississippi .....	-	9	41	-	-	-	-	-	312	15	-	-
WEST SOUTH CENTRAL .....	-	36	285	4	-	1	-	-	1,625	80	9	36
Arkansas .....	-	8	39	1	-	-	-	-	138	4	1	8
Louisiana *	-	10	77	-	-	-	-	-	332	32	1	3
Oklahoma .....	-	5	23	2	-	1	-	-	168	12	-	8
Texas .....	-	13	146	1	-	-	-	-	987	32	7	17
MOUNTAIN .....	-	3	97	-	1	1	-	-	211	-	-	4
Montana .....	-	-	2	-	-	-	-	-	37	-	-	-
Idaho .....	-	-	4	-	-	-	-	-	40	-	-	-
Wyoming .....	-	-	3	-	-	-	-	-	-	-	-	-
Colorado .....	-	-	9	-	-	-	-	-	-	-	-	-
New Mexico .....	-	2	21	-	1	1	-	-	109	-	-	-
Arizona .....	-	-	54	-	-	-	-	-	-	-	-	4
Utah .....	-	1	1	-	-	-	-	-	25	-	-	-
Nevada .....	-	-	3	-	-	-	-	-	-	-	-	-
PACIFIC .....	-	14	442	-	-	6	-	-	433	14	-	23
Washington .....	-	3	45	-	-	-	-	-	194	7	-	-
Oregon .....	-	5	21	-	-	-	-	-	175	5	-	-
California .....	-	-	338	-	-	6	-	-	-	-	-	21
Alaska *	-	-	8	-	-	-	-	-	-	-	-	2
Hawaii .....	-	6	30	-	-	-	-	-	64	2	-	-
Guam *	-	-	3	-	-	-	-	-	5	-	-	-
Puerto Rico .....	-	8	57	-	-	-	-	-	69	9	-	4
Virgin Islands .....	-	-	-	-	-	-	-	-	2	2	-	-

\*Delayed reports: TB: (1972) N.C. delete 1, (1973) Ohio delete 1, Wisc. delete 41, Alaska 8, Guam 1

Gonorrhea: (1973) La. delete 3, Guam 12

Rabies: (1972) Vt. 1, N.Y. Ups. 1, (1973) Me. 1

# Morbidity and Mortality Weekly Report

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**TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING FEBRUARY 10, 1973**

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

Week No. 6	Area	All Causes			Pneumonia and Influenza All Ages	Area	All Causes			Pneumonia and Influenza All Ages
		All Ages	65 years and over	Under 1 year			All Ages	65 years and over	Under 1 year	
	<b>NEW ENGLAND</b>	803	502	21	72	<b>SOUTH ATLANTIC</b>	1,613	880	47	89
	Boston, Mass.	252	137	11	24	Atlanta, Ga.	150	77	8	10
	Bridgeport, Conn.	58	36	2	10	Baltimore, Md.	224	117	5	8
	Cambridge, Mass.	21	17	-	2	Charlotte, N. C.	65	30	4	3
	Fall River, Mass.	26	17	-	2	Jacksonville, Fla.	120	63	7	4
	Hartford, Conn.	54	31	1	4	Miami, Fla.	155	84	5	9
	Lowell, Mass.	34	23	-	3	Norfolk, Va.	68	37	3	7
	Lynn, Mass.	25	18	-	1	Richmond, Va.	74	42	1	10
	New Bedford, Mass.	30	20	1	4	Savannah, Ga.	47	24	-	3
	New Haven, Conn.	49	27	-	2	St. Petersburg, Fla.	124	110	-	7
	Providence, R. I.	61	40	2	6	Tampa, Fla.	96	63	1	8
	Somerville, Mass.	12	11	-	1	Washington, D. C.	409	185	11	18
	Springfield, Mass.	75	42	3	7	Wilmington, Del.	81	48	2	2
	Waterbury, Conn.	38	29	-	1					
	Worcester, Mass.	68	54	1	5	<b>EAST SOUTH CENTRAL</b>	773	421	28	45
						Birmingham, Ala.	112	62	8	4
	<b>MIDDLE ATLANTIC</b>	3,396	2,138	80	195	Chattanooga, Tenn.	76	45	4	8
	Albany, N. Y.	63	37	2	2	Knoxville, Tenn.	47	29	3	1
	Allentown, Pa.	37	25	-	7	Louisville, Ky.	145	77	2	7
	Buffalo, N. Y.	165	100	6	14	Memphis, Tenn.	152	73	2	5
	Camden, N. J.	38	22	2	2	Mobile, Ala.	64	34	3	3
	Elizabeth, N. J.	31	16	1	1	Montgomery, Ala.	60	38	1	6
	Erie, Pa.	45	30	1	6	Nashville, Tenn.	117	63	5	11
	Jersey City, N. J.	68	30	1	5					
	Newark, N. J.	72	33	4	6	<b>WEST SOUTH CENTRAL</b>	1,471	803	76	68
	New York City, N. Y. †	1,630	1,033	34	81	Austin, Tex.	47	30	1	3
	Paterson, N. J.	30	23	1	3	Baton Rouge, La.	37	22	3	-
	Philadelphia, Pa.	595	379	9	11	Corpus Christi, Tex.	38	15	1	1
	Pittsburgh, Pa.	206	123	9	24	Dallas, Tex.	202	116	12	12
	Reading, Pa.	37	23	1	2	El Paso, Tex.	37	23	2	5
	Rochester, N. Y.	131	91	8	16	Fort Worth, Tex.	91	58	3	2
	Schenectady, N. Y.	18	13	-	1	Houston, Tex.	348	165	24	17
	Scranton, Pa.	33	26	-	1	Little Rock, Ark.	70	40	2	4
	Syracuse, N. Y.	88	62	1	6	New Orleans, La.	174	86	6	4
	Trenton, N. J.	42	26	-	1	Oklahoma City, Okla. *	103	60	5	3
	Utica, N. Y.	30	20	-	4	San Antonio, Tex.	173	107	10	11
	Yonkers, N. Y.	37	26	-	2	Shreveport, La.	71	41	5	5
						Tulsa, Okla.	80	40	2	1
	<b>EAST NORTH CENTRAL</b>	2,811	1,692	118	171	<b>MOUNTAIN</b>	609	368	25	55
	Akron, Ohio	63	40	3	-	Albuquerque, N. Mex.	48	30	-	11
	Canton, Ohio	38	27	1	5	Colorado Springs, Colo.	42	26	2	10
	Chicago, Ill.	723	416	38	21	Denver, Colo.	153	86	5	15
	Cincinnati, Ohio	190	126	8	11	Las Vegas, Nev.	20	10	2	1
	Cleveland, Ohio	208	120	8	8	Ogden, Utah	17	14	-	4
	Columbus, Ohio	137	84	6	10	Phoenix, Ariz.	158	97	6	4
	Dayton, Ohio	142	74	7	14	Pueblo, Colo.	31	18	1	3
	Detroit, Mich.	395	233	16	24	Salt Lake City, Utah	65	42	4	3
	Evansville, Ind.	58	38	1	5	Tucson, Ariz.	75	45	5	4
	Fort Wayne, Ind.	58	34	1	6					
	Gary, Ind.	45	24	4	7	<b>PACIFIC</b>	2,097	1,337	59	152
	Grand Rapids, Mich.	67	49	-	16	Berkeley, Calif.	17	16	-	2
	Indianapolis, Ind.	173	94	6	3	Fresno, Calif.	63	37	5	2
	Madison, Wis.	45	25	1	6	Glendale, Calif.	50	37	3	1
	Milwaukee, Wis.	122	73	2	4	Honolulu, Hawaii	64	34	4	4
	Peoria, Ill.	50	31	6	7	Long Beach, Calif.	161	107	2	11
	Rockford, Ill.	64	42	4	12	Los Angeles, Calif.	698	439	16	63
	South Bend, Ind.	46	30	2	3	Oakland, Calif.	118	58	7	11
	Toledo, Ohio	111	80	1	4	Pasadena, Calif.	46	34	-	2
	Youngstown, Ohio	76	52	3	5	Portland, Oreg.	179	120	4	2
						Sacramento, Calif.	68	36	3	2
	<b>WEST NORTH CENTRAL</b>	912	590	45	33	San Diego, Calif.	110	67	5	3
	Des Moines, Iowa	51	37	1	2	San Francisco, Calif.	207	135	2	6
	Duluth, Minn.	18	12	-	-	San Jose, Calif.	36	19	1	3
	Kansas City, Kans.	42	23	6	-	Seattle, Wash.	153	105	5	16
	Kansas City, Mo.	159	104	7	4	Spokane, Wash.	72	51	-	13
	Lincoln, Nebr.	40	29	5	2	Tacoma, Wash.	55	42	2	11
	Minneapolis, Minn.	131	87	5	1					
	Omaha, Nebr.	98	53	4	6	<b>Total</b>	<b>14,485</b>	<b>8,731</b>	<b>499</b>	<b>880</b>
	St. Louis, Mo.	236	158	11	8	<b>Expected Number</b>	<b>13,630</b>	<b>8,019</b>	<b>553</b>	<b>595</b>
	St. Paul, Minn.	90	58	2	3	<b>Cumulative Total (includes reported corrections for previous weeks)</b>	<b>89,031</b>	<b>53,962</b>	<b>3,036</b>	<b>5,179</b>
	Wichita, Kans.	47	29	4	7					

†Delayed report for week ending February 3, 1973  
\*Estimate based on average percent of divisional total

## SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas - January 1973 and January 1972 - Provisional Data

Reporting Area	January		Cumulative January		Reporting Area	January		Cumulative January	
	1973	1972	1973	1972		1973	1972	1973	1972
<b>NEW ENGLAND</b>	111	63	111	63	<b>EAST SOUTH CENTRAL</b>	114	115	114	115
Maine	1	1	1	1	Kentucky	41	10	41	10
New Hampshire	2	—	2	—	Tennessee	31	70	31	70
Vermont	3	—	3	—	Alabama	11	7	11	7
Massachusetts	80	30	80	30	Mississippi	31	28	31	28
Rhode Island	2	—	2	—	<b>WEST SOUTH CENTRAL</b>	204	272	204	272
Connecticut	23	32	23	32	Arkansas	10	28	10	28
<b>MIDDLE ATLANTIC</b>	538	440	538	440	Louisiana	59	68	59	68
Upstate New York	38	40	38	40	Oklahoma	13	7	13	7
New York City	354	293	354	293	Texas	122	169	122	169
Pa. (Excl. Phila.)	23	14	23	14	<b>MOUNTAIN</b>	68	34	68	34
Philadelphia	38	23	38	23	Montana	—	—	—	—
New Jersey	85	70	85	70	Idaho	2	1	2	1
<b>EAST NORTH CENTRAL</b>	173	239	173	239	Wyoming	—	2	—	2
Ohio	14	17	14	17	Colorado	29	2	29	2
Indiana	31	11	31	11	New Mexico	8	12	8	12
Downstate Illinois	17	14	17	14	Arizona	23	13	23	13
Chicago	50	111	50	111	Utah	—	—	—	—
Michigan	49	84	49	84	Nevada	6	4	6	4
Wisconsin	12	2	12	2	<b>PACIFIC</b>	415	295	415	295
<b>WEST NORTH CENTRAL</b>	29	31	29	31	Washington	24	11	24	11
Minnesota	10	1	10	1	Oregon	5	2	5	2
Iowa	2	2	2	2	California	378	279	378	279
Missouri	14	21	14	21	Alaska	1	—	1	—
North Dakota	—	—	—	—	Hawaii	7	3	7	3
South Dakota	1	—	1	—	<b>U.S. TOTAL</b>	2,196	1,988	2,196	1,988
Nebraska	1	3	1	3	<b>TERRITORIES</b>	75	65	75	65
Kansas	1	4	1	4	Puerto Rico	70	58	70	58
<b>SOUTH ATLANTIC</b>	544	499	544	499	Virgin Islands	5	7	5	7
Delaware	8	3	8	3					
Maryland	75	79	75	79					
District of Columbia	62	63	62	63					
Virginia	72	29	72	29					
West Virginia	2	1	2	1					
North Carolina	65	47	65	47					
South Carolina	31	51	31	51					
Georgia	107	144	107	144					
Florida	122	82	122	82					

Note: Cumulative Totals include revised and delayed reports through previous months.

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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 outbreaks or case investigations of current interest to health officials.

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