



Morbidity and Mortality

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EPIDEMIOLOGIC NOTES AND REPORTS

HUMAN BABESIOSIS - Massachusetts

On July 13, 1969, a 59-year-old widow was admitted to a New Jersey hospital with a 2-week history of fever, headache, malaise, and weakness. A peripheral blood smear contained numerous atypical ring-like structures within the red blood cells, which resembled *Plasmodium falciparum* trophozoites. The patient, however, gave no history of exposure to malaria, blood transfusions, or drug abuse, and a medical evaluation uncovered no chronic or debilitating diseases. A normal splenic shadow was present on a barium enema examination.

For the past 20 years, the patient's travel had been limited to the continental United States and Hawaii. On May 5, she and her 2-year-old dachshund left Southern California for their summer home on Nantucket Island,

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Massachusetts. While there, the dog often chases, kills, and returns small rodents to the house. Because ticks are common on the island, the patient examined the dachshund daily and removed a number of ticks with tweezers or her fingers. In mid-May she removed a tick deeply embedded in her own suprasternal notch.

The patient was treated with chloroquine and gradually recovered, and the parasitemia disappeared. The pretreatment smears were reviewed at the National Malarial Repository, NCDC, and babesiosis was tentatively diagnosed

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TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

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

DISEASE	32nd WEEK ENDED		MEDIAN 1964 - 1968	CUMULATIVE, FIRST 32 WEEKS		
	August 9, 1969	August 10, 1968		1969	1968	MEDIAN 1964 - 1968
Aseptic meningitis	111	186	81	1,286	1,588	1,185
Brucellosis	2	2	7	113	127	152
Diphtheria	4	1	1	90	101	101
Encephalitis, primary:						
Arthropod-borne & unspecified	22	44	44	642	596	894
Encephalitis, post-infectious	9	7	15	213	335	542
Hepatitis, serum	158	93	587	3,221	2,591	24,826
Hepatitis, infectious	917	843		28,576	26,822	
Malaria	44	30	11	1,677	1,298	203
Measles (rubeola)	135	189	790	19,677	18,954	186,980
Meningococcal infections, total	33	29	29	2,243	1,869	1,869
Civilian	31	27	---	2,041	1,694	---
Military	2	2	---	202	175	---
Mumps	578	715	---	65,888	121,951	---
Poliomyelitis, total	2	1	1	8	38	38
Paralytic	2	1	1	8	38	38
Rubella (German measles)	371	324	---	47,696	42,505	---
Streptococcal sore throat & scarlet fever	4,086	4,499	4,249	285,839	283,609	283,609
Tetanus	5	4	7	87	89	131
Tularemia	1	—	7	88	123	123
Typhoid fever	11	10	10	172	195	242
Typhus, tick-borne (Rky. Mt. spotted fever)	32	15	14	309	164	164
Rabies in animals	44	65	69	2,249	2,273	2,814

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax	3	Rabies in man	1
Botulism	11	Rubella congenital syndrome	6
Leptospirosis: La-1	39	Trichinosis: Conn.-1	152
Plague	3	Typhus, murine: Ohio-1	32
Psittacosis	23		

BABESIOSIS - (Continued from front page)

on the basis of the morphology of the parasite and the absence of malarial pigment or circulating gametocytes.

The patient's blood was inoculated into various laboratory animals, and infection was established in a hamster. The appearance of the organism in human and hamster red blood cells is compatible with a rodent *Babesia* species, possibly *B. rodhaini*.

(Reported by Gordon D. Benson, M.D., Associate Professor of Medicine, Rutgers Medical School; Vincent A. Galdi, M.D., Laboratory Director, St. Peter's General Hospital, New Brunswick, New Jersey; Ronald Altman, M.D., Director, Division of Preventable Diseases, New Jersey State Department of Health; Nicholas J. Fiumara, M.D., Director, Division of Communicable Diseases, Massachusetts Department of Public Health; and the Malaria Surveillance Unit, NCDC.)

Editorial Note:

Babesiosis is a cosmopolitan, tick-transmitted protozoal infection in many wild and domestic animals. In some animals it causes a febrile, hemolytic disease. The three human cases reported in the literature occurred in splenectomized individuals.^{1,2,3} This woman is the first apparently healthy individual in whom the disease has been recognized.

References:

- ¹Skrabalo, Z., and Deanovic, Z.: Piroplasmosis in man. Report on a case. *Doc de Med Georg et Trop*, 9:11, 1957.
- ²Fitzpatrick, J. E. P., Kennedy, C. C., McGeown, M. G., et al: Human case of piroplasmosis (babesiosis). *Nature*, 217:861-2, 1968.
- ³Scholtens, R. G., Braff, E. H., Healy, G. R., and Gleason, N.: A case of babesiosis in man in the United States. *Am J Trop Med & Hyg*, 17:810, 1968.

WATERBORNE OUTBREAK OF GASTROENTERITIS - Frederick County, Maryland

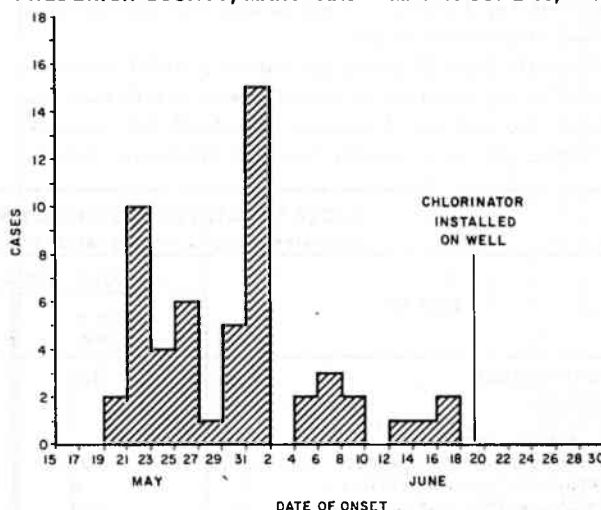
In Frederick County, Maryland, 54 of 114 residents (47 percent) interviewed in 26 occupied dwellings of a new housing development experienced acute febrile gastroenteritis in May and June 1969 (Figure 1). The illnesses lasted 1 to 9 days and were characterized by diarrhea, abdominal cramps, fever, and, less frequently, nausea and vomiting; two persons were hospitalized briefly. The ages of the patients ranged from 11 months to 50 years. *Shigella sonnei* was isolated from 9 of 17 persons in four different households who submitted stool specimens for culture; no other bacterial pathogens were recovered.

Except for their common water supply, no factors of similar exposure could be found to account for this sizable outbreak. The water for all the houses in the new development came from an unchlorinated drill well located about 100 feet from a septic-tank sewerage system. In late May and early June, residents complained of a foul odor in the area, possibly due to sewage overflow. In mid-June, water samples from the houses and from the well demonstrated high fecal coliform counts.

Control measures included altering the nearby sewerage system and installing, on June 19, a chlorinator on the well supplying water to the housing development. No cases of febrile gastroenteritis occurred after June 19. On June 20 the chlorine content of water from the well was 0.8 parts per million, and no coliforms could be demonstrated in water from household taps.

(Reported by Charles G. Spicknall, M.D., Deputy State Health Officer, and Carl Margrabe, Sanitarian, Environmental Health Services, Frederick County; Howard J.

Figure 1
FEBRILE GASTROENTERITIS BY DATE OF ONSET
FREDERICK COUNTY, MARYLAND - MAY 15-JUNE 30, 1969



Garber, M.D., M.P.H., Chief, Division of Communicable Diseases, Maryland Department of Health; and an EIS Officer.)

Editorial Note:

There is a striking similarity between this outbreak and the recent waterborne outbreak of shigellosis in Prineville, Oregon, (MMWR, Vol. 18, No. 22). Both point up the need for chlorination of private water supplies in suburban housing developments as well as in incorporated cities.

MELIOIDOSIS - Maryland

Melioidosis was recently diagnosed in a male rhesus monkey (*Macaca mulatta*) being used in psychological research at the National Institutes of Health (NIH). The monkey was received at NIH on Oct. 1, 1968, in a ship-

ment of 50 from India. His only overt illness occurred on October 7, when he had soft stools for which he received tetracycline, nitrofurazone, and a commercially-made oral feeding mixture. On December 2 he was issued to a psy-

chology laboratory, where on December 18 he underwent a craniotomy with excision of parts of the cortical sensory areas. Sensory testing was started on Jan. 15, 1969, but the monkey proved difficult to test and train.

In late April round scabs were noted at the surgical scar; by mid-May they appeared raised and were thought to be underlain by abscesses. On May 19 the lesions were distinctly suppurative, and at this time similar processes were noticed on the skin of the chest and leg. The superficial head and chest lesions were cultured. The former site yielded a mixed flora of *Staphylococcus aureus*, *Enterobacteriaceae*, and *Proteus sp.* with a few colonies that were later shown to be *Pseudomonas pseudomallei*, and the chest culture yielded predominantly *P. pseudomallei*.

The animal was sacrificed on May 28. Blood values at that time were hematocrit 32 percent, hemoglobin 9.1 g/100 ml, RBC 4,490,000, and WBC 24,850 with 84.5 percent neutrophils, 15 percent lymphocytes, and 0.5 percent monocytes. At necropsy a 2 cm raised, fluctuant, subcutaneous abscess was observed on the left dorsal aspect of the head, directly over the site of the previous frontoparietal craniotomy. The abscess contained thick pale yellow pus. A similar subcutaneous abscess was located on the left chest, approximately 1 cm lateral to the nipple, and was connected by a fistulous tract to a larger 3 by 4 cm abscess in the left axilla, apparently involving the axillary lymph nodes. Internally, multiple 0.5 to 1 cm abscesses were observed in the liver, spleen, pancreaticosplenic lymph nodes, and in the superior gas-

tric nodes. One of the liver abscesses was contiguous with the wall of the gallbladder. Two 1 cm subpleural abscesses occurred in the dorsal aspect of the right apical lung lobe and lesions were found also in several mediastinal lymph nodes. The pus in the internal lesions was thin, dull white, and in some lesions appeared tinted pale green. Cultures taken from the head, chest, liver, and spleen yielded pure growth of *P. pseudomallei*, while culture of heart blood was negative. Identification of the organism was confirmed at the Walter Reed Army Institute of Research and at NCDC.

(Reported by Thomas D. Moore, Ph.D., and Anton M. Allen, D.V.M., Ph.D., Chief, Comparative Pathology Section, and Amos E. Palmer, D.V.M., Chief, Animal Conditioning Section, Laboratory Aids Branch, Division of Research Services, National Institutes of Health.)

Editorial Comment:

This report represents the fourth culture positive case of melioidosis in imported nonhuman primates reported this year. Melioidosis was previously diagnosed in two stump-tailed macaques (MMWR, Vol. 18, No. 19) and a chimpanzee. The first reported case had a history of a chronically discharging lesion present at the time of importation. The next two cases first showed signs of disease at the site of implanted foreign objects. The current case first showed signs of disease at the site of an old surgical wound. A serological survey currently in progress indicates that a significant number of monkeys from Southeast Asia have titers to *P. pseudomallei*.

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas July, 1968 and July, 1969 - Provisional Data

Reporting Area	July		Cumulative Jan.-July		Reporting Area	July		Cumulative Jan.-July	
	1969	1968	1969	1968		1969	1968	1969	1968
NEW ENGLAND.....	42	23	210	188	EAST SOUTH CENTRAL.....	51	124	566	865
Maine.....	2	2	5	4	Kentucky.....	6	6	103	64
New Hampshire.....	4	-	7	-	Tennessee.....	8	27	165	211
Vermont.....	1	-	1	-	Alabama.....	26	72	148	382
Massachusetts.....	22	16	123	115	Mississippi.....	11	19	150	208
Rhode Island.....	2	2	18	23	WEST SOUTH CENTRAL.....	293	344	2,081	2,049
Connecticut.....	11	3	56	46	Arkansas.....	23	13	113	80
MIDDLE ATLANTIC.....	332	278	2,160	1,860	Louisiana.....	67	100	396	519
Upstate New York.....	17	32	158	134	Oklahoma.....	5	7	48	50
New York City.....	235	175	1,483	1,176	Texas.....	198	224	1,524	1,400
Pa. (Excl. Phila.).....	12	18	88	146	MOUNTAIN.....	75	33	363	297
Philadelphia.....	14	21	125	142	Montana.....	-	2	5	6
New Jersey.....	54	32	306	262	Idaho.....	1	-	5	3
EAST NORTH CENTRAL.....	225	216	1,480	1,672	Wyoming.....	-	-	4	1
Ohio.....	31	42	209	275	Colorado.....	6	-	31	9
Indiana.....	33	20	206	196	New Mexico.....	37	13	164	88
Downstate Illinois.....	32	18	162	103	Arizona.....	19	11	111	153
Chicago.....	69	86	519	599	Utah.....	3	1	9	8
Michigan.....	54	50	370	487	Nevada.....	9	6	34	29
Wisconsin.....	6	-	14	12	PACIFIC.....	166	156	1,116	1,000
WEST NORTH CENTRAL.....	31	41	193	223	Washington.....	5	7	32	32
Minnesota.....	11	9	27	27	Oregon.....	3	4	25	23
Iowa.....	-	2	20	21	California.....	157	143	1,054	940
Missouri.....	11	25	94	112	Alaska.....	-	1	1	1
North Dakota.....	-	-	5	6	Hawaii.....	1	1	4	4
South Dakota.....	-	2	7	25	U. S. TOTAL.....	1,587	1,598	10,981	11,168
Nebraska.....	3	2	18	19	TERRITORIES.....	54	81	690	664
Kansas.....	6	1	22	13	Puerto Rico.....	54	81	682	633
SOUTH ATLANTIC.....	372	383	2,812	3,014	Virgin Islands.....	-	-	8	31
Delaware.....	6	3	27	21					
Maryland.....	25	59	249	281					
District of Columbia.....	48	39	325	363					
Virginia.....	36	25	160	168					
West Virginia.....	3	3	12	22					
North Carolina.....	36	34	306	377					
South Carolina.....	56	41	350	304					
Georgia.....	91	74	580	474					
Florida.....	71	105	803	1,004					

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

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
AUGUST 9, 1969 AND AUGUST 10, 1968 (32nd WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPHTHERIA	ENCEPHALITIS		Post- Infectious	HEPATITIS		MALARIA		
				Primary including unsp. cases			Serum	Infectious			
		1969	1969	1969	1969	1968	1969	1969	1969	1968	1969
UNITED STATES...	111	2	4	22	44	9	158	917	843	44	1,677
NEW ENGLAND.....	1	-	-	-	-	-	4	67	37	2	61
Maine*.....	-	-	-	-	-	-	-	5	1	-	4
New Hampshire.....	-	-	-	-	-	-	-	5	1	-	2
Vermont.....	-	-	-	-	-	-	-	3	4	-	-
Massachusetts.....	1	-	-	-	-	-	3	40	16	1	41
Rhode Island.....	-	-	-	-	-	-	-	10	4	-	3
Connecticut.....	-	-	-	-	-	-	1	4	11	1	11
MIDDLE ATLANTIC.....	35	-	-	5	6	2	69	203	150	7	191
New York City.....	1	-	-	2	-	-	62	100	48	-	16
New York, up-State.....	4	-	-	2	1	2	1	21	39	1	29
New Jersey*.....	11	-	-	1	2	-	5	38	40	4	76
Pennsylvania.....	19	-	-	-	3	-	1	44	23	2	70
EAST NORTH CENTRAL...	8	-	-	5	13	1	22	105	129	1	167
Ohio.....	5	-	-	4	10	-	5	29	46	1	17
Indiana.....	-	-	-	-	-	-	-	6	13	-	14
Illinois.....	3	-	-	-	3	-	1	21	26	-	98
Michigan.....	-	-	-	1	-	1	16	46	39	-	37
Wisconsin.....	-	-	-	-	-	-	-	3	5	-	1
WEST NORTH CENTRAL...	17	-	-	-	-	-	8	35	50	3	111
Minnesota.....	17	-	-	-	-	-	6	11	20	-	7
Iowa.....	-	-	-	-	-	-	-	3	4	-	9
Missouri.....	-	-	-	-	-	-	-	7	9	1	29
North Dakota.....	-	-	-	-	-	-	-	-	2	-	3
South Dakota.....	-	-	-	-	-	-	-	1	4	-	-
Nebraska.....	-	-	-	-	-	-	-	10	4	-	3
Kansas.....	-	-	-	-	-	-	2	3	7	2	60
SOUTH ATLANTIC.....	16	1	4	3	5	2	10	101	46	10	480
Delaware.....	-	-	-	-	-	-	-	-	4	-	2
Maryland.....	10	-	-	1	-	-	1	14	1	-	23
Dist. of Columbia..	-	-	-	-	-	-	1	-	-	-	1
Virginia.....	-	-	-	1	3	-	1	12	6	-	18
West Virginia.....	-	-	-	-	1	-	-	3	1	-	-
North Carolina.....	-	-	-	-	-	-	-	11	14	3	223
South Carolina.....	2	-	-	-	-	-	-	7	1	1	42
Georgia.....	-	-	3	-	-	-	-	31	9	4	146
Florida.....	4	1	1	1	1	2	7	23	10	2	25
EAST SOUTH CENTRAL...	6	-	-	4	1	-	-	42	42	4	67
Kentucky.....	-	-	-	1	-	-	-	16	15	1	54
Tennessee.....	1	-	-	3	1	-	-	20	17	-	-
Alabama.....	4	-	-	-	-	-	-	6	3	3	11
Mississippi.....	1	-	-	-	-	-	-	-	7	-	2
WEST SOUTH CENTRAL...	9	-	-	1	5	-	1	80	84	9	86
Arkansas.....	-	-	-	-	-	-	-	4	6	-	8
Louisiana.....	3	-	-	-	5	-	-	10	12	2	34
Oklahoma.....	1	-	-	1	-	-	-	8	8	-	30
Texas.....	5	-	-	-	-	-	1	58	58	7	14
MOUNTAIN.....	-	-	-	1	3	1	2	51	34	1	119
Montana.....	-	-	-	1	-	1	-	3	7	-	3
Idaho.....	-	-	-	-	-	-	-	4	1	-	3
Wyoming.....	-	-	-	-	-	-	-	-	1	-	-
Colorado.....	-	-	-	-	3	-	-	8	13	-	100
New Mexico.....	-	-	-	-	-	-	-	6	4	1	7
Arizona.....	-	-	-	-	-	-	-	5	4	-	1
Utah.....	-	-	-	-	-	-	2	4	4	-	1
Nevada.....	-	-	-	-	-	-	-	21	-	-	4
PACIFIC.....	19	1	-	3	11	3	42	233	271	7	395
Washington.....	-	-	-	-	-	-	1	25	29	-	5
Oregon.....	2	-	-	-	-	-	-	23	10	-	8
California.....	17	1	-	3	10	3	41	182	229	6	298
Alaska.....	-	-	-	-	1	-	-	3	1	-	2
Hawaii.....	-	-	-	-	-	-	-	-	2	1	82
Puerto Rico.....	-	-	-	-	-	-	-	13	16	1	2

*Delayed reports: Aseptic meningitis: N.J. 19

Hepatitis, serum: N.J. delete 2

Hepatitis, infectious: Me. 5, N.J. delete 2

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 9, 1969 AND AUGUST 10, 1968 (32nd WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
	1969	Cumulative		1969	Cumulative			Total	Paralytic		
		1969	1968		1969	1968			1969	Cum. 1969	
UNITED STATES...	135	19,677	18,954	33	2,243	1,869	578	2	2	8	371
NEW ENGLAND.....	12	1,074	1,132	5	79	94	81	-	-	1	29
Maine.....	-	7	37	-	6	6	1	-	-	-	1
New Hampshire.....	1	238	141	-	2	7	-	-	-	-	-
Vermont.....	-	3	2	-	-	1	4	-	-	-	3
Massachusetts.....	8	209	353	2	33	42	35	-	-	-	9
Rhode Island.....	-	22	5	-	8	7	15	-	-	-	4
Connecticut.....	3	595	594	3	30	31	26	-	-	1	12
MIDDLE ATLANTIC.....	45	7,342	3,796	7	360	338	87	-	-	-	39
New York City.....	23	4,844	1,900	2	73	68	83	-	-	-	27
New York, Up-State.....	4	586	1,206	1	61	58	NN	-	-	-	6
New Jersey.....	11	861	580	4	149	122	4	-	-	-	2
Pennsylvania.....	7	1,051	110	-	77	90	NN	-	-	-	4
EAST NORTH CENTRAL...	27	2,059	3,675	6	307	226	162	-	-	-	70
Ohio.....	2	361	288	1	116	62	5	-	-	-	17
Indiana.....	-	465	643	-	34	27	12	-	-	-	1
Illinois.....	11	463	1,347	-	41	51	36	-	-	-	3
Michigan.....	9	230	255	2	94	66	40	-	-	-	24
Wisconsin.....	5	540	1,142	3	22	20	69	-	-	-	25
WEST NORTH CENTRAL...	4	511	377	-	116	100	8	-	-	1	13
Minnesota.....	-	5	15	-	25	23	-	-	-	-	-
Iowa.....	3	328	96	-	15	6	6	-	-	-	1
Missouri.....	-	22	81	-	51	32	-	-	-	-	4
North Dakota.....	1	11	131	-	-	3	-	-	-	-	3
South Dakota.....	-	3	4	-	1	5	NN	-	-	-	-
Nebraska.....	-	135	40	-	9	6	2	-	-	-	5
Kansas.....	-	7	10	-	15	25	-	-	-	1	-
SOUTH ATLANTIC.....	7	2,433	1,465	2	395	381	55	-	-	1	76
Delaware.....	-	373	15	-	8	8	3	-	-	-	-
Maryland.....	-	65	94	1	36	28	4	-	-	-	11
Dist. of Columbia..	-	-	6	-	9	14	-	-	-	-	-
Virginia.....	1	882	293	-	49	30	9	-	-	-	17
West Virginia.....	2	179	277	-	18	9	31	-	-	-	27
North Carolina.....	1	308	281	-	66	76	NN	-	-	-	-
South Carolina.....	2	112	12	-	55	56	-	-	-	-	-
Georgia.....	-	1	4	-	69	73	-	-	-	-	-
Florida.....	1	513	483	1	85	87	8	-	-	1	21
EAST SOUTH CENTRAL...	1	106	482	-	139	160	34	-	-	1	55
Kentucky.....	1	62	99	-	49	64	7	-	-	-	2
Tennessee.....	-	17	58	-	52	51	26	-	-	-	49
Alabama.....	-	4	93	-	23	24	1	-	-	1	4
Mississippi.....	-	23	232	-	15	21	-	-	-	-	-
WEST SOUTH CENTRAL...	20	4,357	4,642	3	300	296	43	2	2	4	30
Arkansas.....	-	16	2	-	29	20	2	-	-	-	-
Louisiana.....	-	120	11	-	79	83	-	-	-	-	-
Oklahoma.....	-	136	111	-	29	49	2	-	-	-	-
Texas.....	20	4,085	4,518	3	163	144	39	2	2	4	30
MOUNTAIN.....	11	801	958	3	44	29	23	-	-	-	23
Montana.....	-	16	58	1	9	3	1	-	-	-	-
Idaho.....	1	89	20	2	8	11	-	-	-	-	1
Wyoming.....	-	-	51	-	-	-	-	-	-	-	1
Colorado.....	-	136	492	-	7	10	2	-	-	-	3
New Mexico.....	5	241	92	-	6	-	9	-	-	-	4
Arizona.....	4	310	219	-	10	1	7	-	-	-	11
Utah.....	1	8	21	-	2	1	4	-	-	-	3
Nevada.....	-	1	5	-	2	3	-	-	-	-	-
PACIFIC.....	8	994	2,427	7	503	245	85	-	-	-	36
Washington.....	-	58	515	2	53	37	6	-	-	-	2
Oregon.....	1	198	488	2	14	19	12	-	-	-	4
California.....	7	695	1,387	3	415	176	59	-	-	-	22
Alaska.....	-	8	2	-	11	2	4	-	-	-	5
Hawaii.....	-	35	35	-	10	11	4	-	-	-	3
Puerto Rico.....	38	1,361	383	-	17	19	7	-	-	-	-

*Delayed reports: Measles: Me. 2, Mass. delete 1, N.J. 1
Rubella: Me. 9

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 9, 1969 AND AUGUST 10, 1968 (32nd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969
UNITED STATES...	4,086	5	87	1	88	11	172	32	309	44	2,249
NEW ENGLAND.....	623	-	-	-	14	-	6	-	-	3	17
Maine.....	1	-	-	-	-	-	1	-	-	-	5
New Hampshire.....	33	-	-	-	-	-	-	-	-	1	4
Vermont.....	1	-	-	-	14	-	-	-	-	-	2
Massachusetts.....	118	-	-	-	-	-	4	-	-	-	1
Rhode Island.....	37	-	-	-	-	-	1	-	-	-	-
Connecticut.....	433	-	-	-	-	-	-	-	-	2	5
MIDDLE ATLANTIC.....	318	-	13	-	4	-	17	3	30	3	102
New York City.....	12	-	6	-	1	-	8	-	-	-	-
New York, Up-State.....	289	-	3	-	3	-	5	-	5	3	95
New Jersey.....	NN	-	2	-	-	-	-	-	6	-	-
Pennsylvania.....	17	-	2	-	-	-	4	3	19	-	7
EAST NORTH CENTRAL...	295	-	11	-	7	6	20	-	-	1	151
Ohio.....	16	-	1	-	-	-	7	-	-	-	44
Indiana.....	96	-	-	-	1	-	-	-	-	1	42
Illinois.....	59	-	7	-	2	6	9	-	-	-	26
Michigan.....	83	-	3	-	-	-	4	-	-	-	5
Wisconsin.....	41	-	-	-	4	-	-	-	-	-	34
WEST NORTH CENTRAL...	174	1	6	1	11	2	8	-	8	11	425
Minnesota.....	4	1	2	-	-	1	3	-	-	5	109
Iowa.....	33	-	-	-	-	-	-	-	7	1	62
Missouri.....	1	-	1	-	7	1	3	-	-	2	110
North Dakota.....	90	-	-	-	-	-	-	-	-	2	55
South Dakota.....	7	-	-	-	-	-	-	-	1	-	24
Nebraska.....	39	-	-	1	1	-	1	-	-	-	10
Kansas.....	-	-	3	-	3	-	1	-	-	1	55
SOUTH ATLANTIC.....	415	1	18	-	20	1	30	23	182	3	575
Delaware.....	1	-	-	-	-	-	2	-	3	-	-
Maryland.....	53	-	1	-	-	-	4	4	40	1	1
Dist. of Columbia..	-	-	2	-	-	-	1	-	-	-	-
Virginia.....	83	-	-	-	4	-	-	2	54	-	297
West Virginia.....	132	-	1	-	2	-	1	-	5	-	87
North Carolina.....	NN	-	2	-	5	-	6	3	45	-	4
South Carolina.....	18	-	1	-	2	1	2	12	23	-	-
Georgia.....	4	-	2	-	3	-	7	2	12	1	54
Florida.....	124	1	9	-	4	-	7	-	-	1	132
EAST SOUTH CENTRAL...	1,009	2	15	-	9	-	17	2	37	4	335
Kentucky.....	126	-	6	-	-	-	2	-	5	3	176
Tennessee.....	652	-	4	-	8	-	12	2	31	-	114
Alabama.....	132	2	4	-	-	-	1	-	1	1	42
Mississippi.....	99	-	1	-	1	-	2	-	-	-	3
WEST SOUTH CENTRAL...	416	1	16	-	15	1	22	2	33	11	312
Arkansas.....	2	1	1	-	1	-	10	-	6	1	24
Louisiana.....	2	-	6	-	4	-	2	-	-	1	23
Oklahoma.....	8	-	1	-	6	1	1	2	23	1	46
Texas.....	404	-	8	-	4	-	9	-	4	8	219
MOUNTAIN.....	705	-	2	-	8	1	22	2	14	2	99
Montana.....	15	-	1	-	-	-	-	-	-	-	-
Idaho.....	73	-	-	-	-	-	3	1	4	-	-
Wyoming.....	3	-	-	-	2	-	5	-	-	-	50
Colorado.....	382	-	1	-	-	-	3	1	8	-	3
New Mexico.....	106	-	-	-	1	-	5	-	-	2	11
Arizona.....	58	-	-	-	-	1	5	-	-	-	22
Utah.....	68	-	-	-	5	-	-	-	2	-	3
Nevada.....	-	-	-	-	-	-	1	-	-	-	10
PACIFIC.....	131	-	6	-	-	-	30	-	5	6	233
Washington.....	16	-	1	-	-	-	1	-	3	1	3
Oregon.....	61	-	-	-	-	-	6	-	-	-	2
California.....	-	-	5	-	-	-	23	-	2	5	228
Alaska.....	8	-	-	-	-	-	-	-	-	-	-
Hawaii.....	46	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	-	-	4	-	-	-	5	-	-	-	18

*Delayed reports: SST: Me. 3

Rabies in animals: Wyo. 2

Week No.
32

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED AUGUST 9, 1969

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

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	746	451	42	35	SOUTH ATLANTIC:	1,088	580	29	64
Boston, Mass.-----	268	143	13	17	Atlanta, Ga.-----	123	58	2	9
Bridgeport, Conn.-----	56	41	6	2	Baltimore, Md.-----	200	101	1	10
Cambridge, Mass.-----	25	19	3	—	Charlotte, N. C.-----	43	26	—	2
Fall River, Mass.-----	30	19	1	—	Jacksonville, Fla.-----	68	35	1	9
Hartford, Conn.-----	53	34	3	3	Miami, Fla.-----	104	45	—	4
Lowell, Mass.-----	21	17	3	—	Norfolk, Va.-----	50	24	5	5
Lynn, Mass.-----	20	12	—	1	Richmond, Va.-----	84	43	1	3
New Bedford, Mass.-----	28	17	—	3	Savannah, Ga.-----	32	16	4	2
New Haven, Conn.-----	57	29	—	6	St. Petersburg, Fla.-----	83	70	3	2
Providence, R. I.-----	65	40	5	—	Tampa, Fla.-----	59	34	6	2
Somerville, Mass.-----	11	9	—	—	Washington, D. C.-----	195	101	3	14
Springfield, Mass.-----	39	21	4	1	Wilmington, Del.-----	47	27	3	2
Waterbury, Conn.-----	25	19	—	—					
Worcester, Mass.-----	48	31	4	2	EAST SOUTH CENTRAL:	622	316	22	34
MIDDLE ATLANTIC:	3,112	1,752	111	128	Birmingham, Ala.-----	85	44	2	4
Albany, N. Y.-----	49	23	—	—	Chattanooga, Tenn.-----	49	27	1	4
Allentown, Pa.-----	39	30	3	—	Knoxville, Tenn.-----	17	10	—	1
Buffalo, N. Y.-----	181	108	6	11	Louisville, Ky.-----	116	65	10	3
Camden, N. J.-----	47	29	2	—	Memphis, Tenn.-----	134	59	2	7
Elizabeth, N. J.-----	40	24	—	1	Mobile, Ala.-----	57	27	1	6
Erie, Pa.-----	41	23	1	1	Montgomery, Ala.-----	36	22	2	1
Jersey City, N. J.-----	61	37	4	3	Nashville, Tenn.-----	128	62	4	8
Newark, N. J.-----	68	30	—	4	WEST SOUTH CENTRAL:	1,242	627	44	81
New York City, N. Y.-----	1,595	899	53	68	Austin, Tex.-----	39	22	2	1
Paterson, N. J.-----	43	24	4	3	Baton Rouge, La.-----	29	14	—	3
Philadelphia, Pa.-----	403	219	5	10	Corpus Christi, Tex.-----	30	14	—	6
Pittsburgh, Pa.-----	158	77	14	6	Dallas, Tex.-----	157	82	2	13
Reading, Pa.-----	39	25	—	5	El Paso, Tex.-----	42	28	4	3
Rochester, N. Y.-----	105	64	5	3	Fort Worth, Tex.-----	84	31	1	5
Schenectady, N. Y.-----	28	18	2	—	Houston, Tex.-----	284	125	11	21
Scranton, Pa.-----	32	23	2	—	Little Rock, Ark.-----	67	38	4	5
Syracuse, N. Y.-----	78	43	3	10	New Orleans, La.-----	168	80	9	6
Trenton, N. J.-----	44	17	3	1	Oklahoma City, Okla.-----	89	47	—	6
Utica, N. Y.-----	25	17	1	1	San Antonio, Tex.-----	117	59	—	7
Yonkers, N. Y.-----	36	22	3	1	Shreveport, La.-----	63	43	4	3
EAST NORTH CENTRAL:	2,315	1,301	71	112	Tulsa, Okla.-----	73	44	7	2
Akron, Ohio-----	49	25	—	5	MOUNTAIN:	448	260	17	18
Canton, Ohio-----	33	21	—	1	Albuquerque, N. Mex.-----	36	14	4	2
Chicago, Ill.-----	621	334	18	29	Colorado Springs, Colo.-----	26	16	2	2
Cincinnati, Ohio-----	164	97	9	4	Denver, Colo.-----	126	67	5	4
Cleveland, Ohio-----	151	85	4	9	Ogden, Utah-----	15	12	2	—
Columbus, Ohio-----	143	93	3	7	Phoenix, Ariz.-----	115	71	1	5
Dayton, Ohio-----	66	34	—	4	Pueblo, Colo.-----	23	11	—	1
Detroit, Mich.-----	315	158	3	12	Salt Lake City, Utah-----	54	35	3	2
Evansville, Ind.-----	30	19	1	2	Tucson, Ariz.-----	53	34	—	2
Flint, Mich.-----	60	29	2	4	PACIFIC:	1,598	959	38	64
Fort Wayne, Ind.-----	44	23	5	1	Berkeley, Calif.-----	15	12	1	—
Gary, Ind.-----	26	12	4	3	Fresno, Calif.-----	60	28	1	2
Grand Rapids, Mich.-----	44	29	—	2	Glendale, Calif.-----	34	17	—	1
Indianapolis, Ind.-----	160	89	4	12	Honolulu, Hawaii-----	46	20	1	4
Madison, Wis.-----	40	22	7	4	Long Beach, Calif.-----	92	61	3	2
Milwaukee, Wis.-----	111	65	2	5	Los Angeles, Calif.-----	502	315	13	21
Peoria, Ill.-----	29	14	1	2	Oakland, Calif.-----	73	45	1	5
Rockford, Ill.-----	42	29	4	1	Pasadena, Calif.-----	36	28	1	2
South Bend, Ind.-----	21	12	—	—	Portland, Oreg.-----	128	77	4	2
Toledo, Ohio-----	93	64	2	4	Sacramento, Calif.-----	73	43	—	2
Youngstown, Ohio-----	73	47	2	1	San Diego, Calif.-----	101	66	2	8
WEST NORTH CENTRAL:	806	497	15	45	San Francisco, Calif.-----	153	83	3	5
Des Moines, Iowa-----	57	41	—	4	San Jose, Calif.-----	47	33	5	2
Duluth, Minn.-----	25	17	1	—	Seattle, Wash.-----	157	82	2	6
Kansas City, Kans.-----	41	12	2	6	Spokane, Wash.-----	47	30	1	1
Kansas City, Mo.-----	129	85	1	7	Tacoma, Wash.-----	34	19	—	1
Lincoln, Nebr.-----	26	18	3	2	Total	11,977	6,743	389	581
Minneapolis, Minn.-----	118	78	—	4	Cumulative Totals				
Omaha, Nebr.-----	65	39	4	5	including reported corrections for previous weeks				
St. Louis, Mo.-----	231	134	2	11	All Causes, All Ages-----	423,593			
St. Paul, Minn.-----	70	48	—	3	All Causes, Age 65 and over-----	243,441			
Wichita, Kans.-----	44	25	2	3	Pneumonia and Influenza, All Ages-----	20,706			
					All Causes, Under 1 Year of Age-----	19,604			

ERRATA

Vol. 18, No. 30, p. 263

In the article "Plague - 1968," in Table 1 under 1967 for Nepal cases and deaths, delete the numbers 13 and 12. No plague cases or deaths were reported in Nepal during 1967.

Vol. 18, No. 31, p. 270

In the article "Hepatitis - Cook County, Illinois," in the section "Reported by ..." include "A. W. Holmes, M.D., Associate Professor of Medicine, University of Illinois, and Director of Research in Section of Hepatology, Presbyterian St. Lukes Hospital, Chicago."

Vol. 18, No. 31, p. 271

In the article "Smallpox-Worldwide," the last sentence in the first paragraph should be changed to "Based on current trends, an estimated 45,000 cases will be recorded in 1969 (Figure 2)."

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ATTN: THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL 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.

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