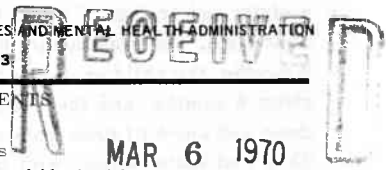




Morbidity and Mortality

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
FAMILY OUTBREAK OF MENINGOCOCCAL MENINGITIS
New York City

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On Dec. 30, 1969, two members of a family of eight were admitted to a New York City hospital with meningitis. On admission, the grandmother, age 60 years, was obtunded and had a temperature of 104.6°F. Her white blood cell count was 27,000, her cerebrospinal fluid (CSF) had 70 cells, and CSF glucose was 90 mg/100 ml. Her blood cultures, CSF culture, and nasopharyngeal cultures all grew serogroup B *Neisseria meningitidis*, resistant to 1 mg/100 ml sulfadiazine as measured by plate dilution techniques. The patient went into shock and died 24 hours after admission in spite of penicillin, isoproterenol, heparin, and adrenal steroid therapy. Hemorrhagic adrenal glands were noted at postmortem examination.

The second patient, her 14-year-old granddaughter, also was febrile (104°F.) on admission, but was mentally

alert. Her CSF had 1,500 cells per ml, 98 percent polymorphonuclear cells, and a CSF glucose was 3 mg/100 ml. The CSF culture was negative, although gram-negative intracellular diplococci were seen on smear. Her blood and nasopharyngeal cultures were positive for group B sulfadiazine-resistant *N. meningitidis*. She recovered after penicillin therapy.

(Continued on page 82)

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

DISEASE	8th WEEK ENDED		MEDIAN 1965 - 1969	CUMULATIVE, FIRST 8 WEEKS		
	February 28, 1970	February 22, 1969		1970	1969	MEDIAN 1965 - 1969
Aseptic meningitis	27	40	26	232	236	220
Brucellosis	2	1	2	17	9	25
Diphtheria	6	2	2	63	20	24
Encephalitis, primary:						
Arthropod-borne & unspecified	22	17	25	159	166	174
Encephalitis, post-infectious	8	3	5	52	35	73
Hepatitis, serum	103	109	812	974	775	6,427
Hepatitis, infectious	1,028	999		8,587	6,823	
Malaria	78	90	35	523	358	263
Measles (rubeola)	1,186	634	2,759	7,646	3,209	16,051
Meningococcal infections, total	77	76	76	537	637	637
Civilian	73	61	61	514	594	586
Military	4	15	15	23	43	43
Mumps	2,436	2,551	---	19,875	17,471	---
Poliomyelitis, total	---	---	---	1	1	2
Paralytic	---	---	---	1	1	1
Rubella (German measles)	1,461	1,106	---	9,178	4,916	---
Tetanus	4	1	3	10	14	17
Tularemia	2	4	2	12	15	19
Typhoid fever	---	4	4	37	33	36
Typhus, tick-borne (Rky. Mt. spotted fever)	---	---	---	---	1	6
Rabies in animals	68	101	83	449	517	576

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	---	Psittacosis:	5
Botulism:	1	Rabies in Man:	---
Leptospirosis: Calif.-1	14	Rubella congenital syndrome: Calif.-1, La.-1	13
Leptospirosis: Tex.-1	8	Trichinosis:	9
Plague:	---	Typhus, murine:	---

MENINGOCOCCAL MENINGITIS - (Continued from front page)

On Jan. 18, 1970, a third family member, a 9-year-old girl, was hospitalized with meningitis. Her blood, CSF, and nasopharyngeal cultures also grew a sulfonamide-resistant group B *N. meningitidis* organism. She was treated with penicillin and recovered.

The eight family members included the grandmother, mother, father, three children ages 14, 12, and 9 years, and a sister and brother of the mother. All were originally from Guatemala. The grandmother had been in the United States 2 months, the children 4 months, their parents and aunt for about 6 months, and the uncle 1½ years. They lived in a three and one-half room walk-up apartment in West Harlem. They had little contact with their neighbors, and the children attended different schools in Manhattan.

On December 30 after the first two cases, nasopharyngeal cultures were taken of the parents, a close friend, and the 12-year-old boy in the family; all were negative for *N. meningitidis*. Inadvertently, the parents, the friend, the

12-year-old boy, and the 9-year-old girl (Case 3) were given penicillin (phenethicillin 250 mg 4ID for 3 days starting on December 31). After the third case occurred on January 18, six of the family members, including the 14-year-old girl (Case 2) had repeat nasopharyngeal cultures, and all were positive for serogroup B *N. meningitidis*. Studies on the family members of I_gG antibodies to *N. meningitidis* are in progress.

Multiple cases of meningococcal meningitis in one family had not been previously noted at this hospital.

(Reported by Harold C. Neu, M.D., Assistant Professor of Medicine, Chief of Infectious Diseases, Department of Medicine, College of Physicians and Surgeons of Columbia University, New York City; and Vincent F. Guinee, M.D., Director, Bureau of Preventable Diseases, and Tibor Fodor, M.D., Chief, Division of Epidemic Intelligence, New York City Health Department.)

CURRENT TRENDS INFLUENZA - United States

The number of reported outbreaks of influenza and influenza-like illness during the past week continued to decline in most areas of the country, although a significant number of cases were still occurring.

The Pneumonia-Influenza Mortality Curve for 122 U.S. cities (Figure 1) showed a significant reduction in cases this past week, with declines being noted in seven

of the nine major geographic divisions. The only definite rise was in the East North Central region. The South Atlantic Division also remained significantly elevated above the expected levels.

(Reported by the Respiratory Diseases Unit, Viral Diseases Unit, Viral Diseases Branch, and the Statistical Services Activity, Epidemiology Program, NCDC.)

EPIDEMIOLOGIC NOTES AND REPORTS SPONTANEOUS MELIOIDOSIS IN A MONKEY - Seattle, Washington

Melioidosis was diagnosed in October 1969 in a 9-year-old female pigtail monkey (*Macaca nemestrina*), being used in behavioral research in Seattle. The animal had been semi-isolated for 3 years, but in May was briefly caged near the rest of the colony while floor repairs were made in their observation compound. The monkey had been well except for unexplained lameness in the right leg and mild anemia in August 1969 for which she received iron parenterally. On September 18, she had extensor paralysis of the right leg compatible with a radial nerve injury, mild swelling of the right eyelid, and generalized lethargy, and was placed in isolation.

Within several days, a large fluctuant swelling developed over the frontal bone, extending over the orbital crest to involve the right palpebrum. The swelling was excised and 10 cc of a thick, grey-white fluid was drained. The abscess was flushed and packed with a furacin seton, and sodium ampicillin therapy was started. Lincomycin was then used after a preliminary culture of the abscess

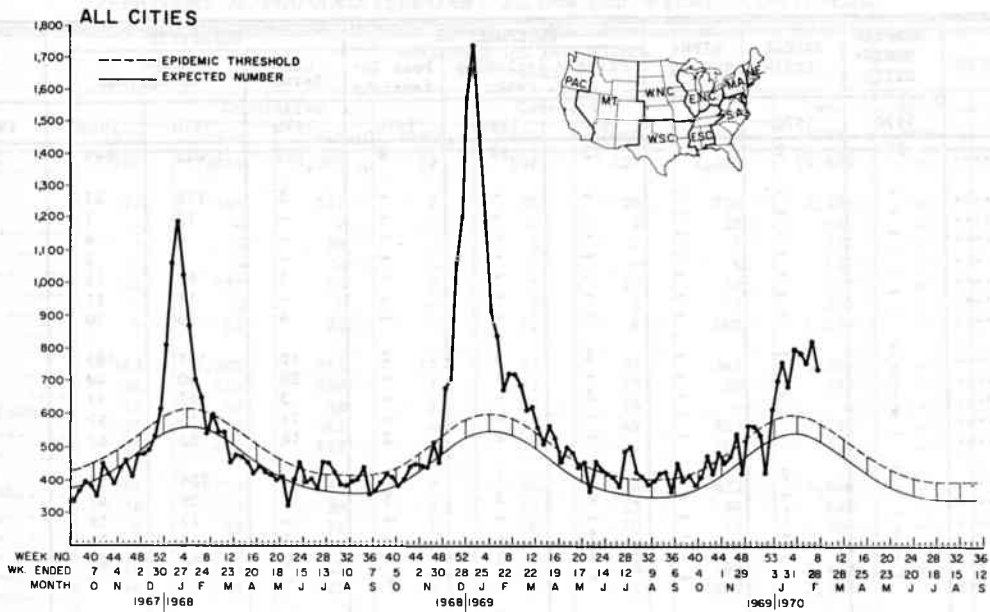
demonstrated a coagulase positive staphylococcus and a hemolytic streptococcus, sensitive to Lincomycin.

On October 3, three fistulous tracts, discharging a purulent material, were noted on the medial aspect of the upper right forearm. About this time, a gram-negative rod which biochemically suggested *Pseudomonas pseudomallei* was isolated from the original culture; this was subsequently confirmed.

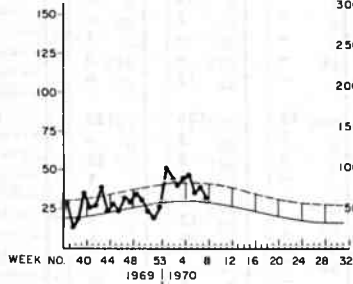
The animal died on October 13. A serum sample taken several hours before death showed a hemagglutination antibody (HA) titer for *P. pseudomallei* of 1:2,560. A necropsy revealed: (1) complete resolution of the abscess over the right frontal bone and eyelid; (2) a marked accumulation of purulent material over fascial planes on the proximal medial aspect of the right arm; (3) a large unilocular abscess beneath the right mammary gland, which extended in a proximal-lateral direction to the axilla. There was no gross anatomic connection between the infections on the right

(Continued on page 88)

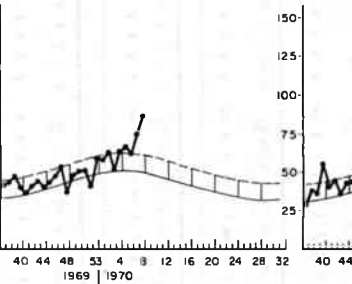
Figure 1
PNEUMONIA-INFLUENZA DEATHS IN 122 UNITED STATES CITIES



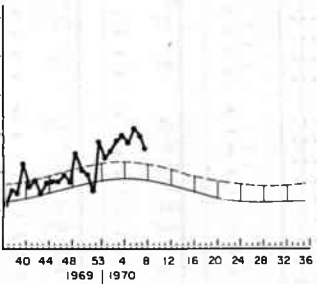
W. N. CENTRAL
10 CITIES



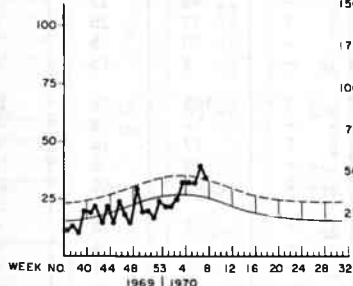
E. N. CENTRAL
21 CITIES



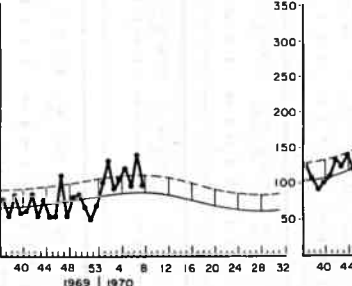
NEW ENGLAND
14 CITIES



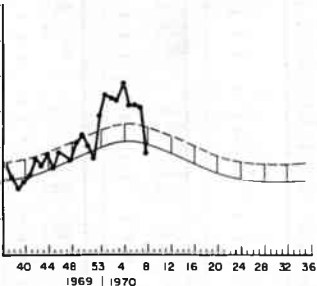
MOUNTAIN
8 CITIES



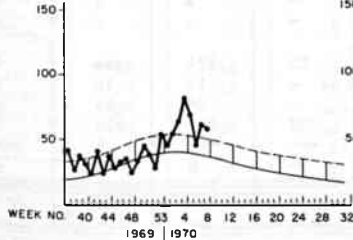
E. S. CENTRAL
8 CITIES



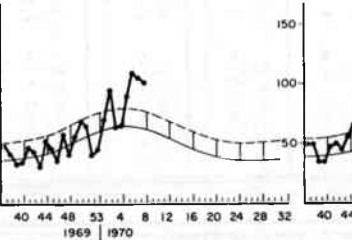
MIDDLE ATLANTIC
20 CITIES



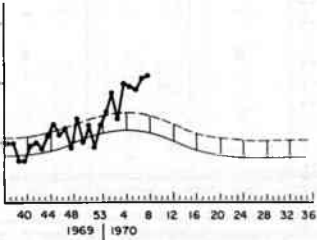
PACIFIC
16 CITIES



W. S. CENTRAL
13 CITIES



SOUTH ATLANTIC
12 CITIES



Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
FEBRUARY 28, 1970 AND FEBRUARY 22, 1969 (8th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPH- THERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post In- fectious	Serum	Infectious		1970	Cum. 1970
				1970	1969	1970	1970	1970	1969		
UNITED STATES.....	27	2	6	22	17	8	103	1,028	999	78	523
NEW ENGLAND.....	-	-	-	-	-	-	5	116	47	4	24
Maine.....	-	-	-	-	-	-	-	12	1	-	-
New Hampshire.....	-	-	-	-	-	-	-	4	4	-	-
Vermont.....	-	-	-	-	-	-	-	4	2	-	1
Massachusetts.....	-	-	-	-	-	-	1	62	19	4	14
Rhode Island.....	-	-	-	-	-	-	-	11	11	-	3
Connecticut.....	-	-	-	-	-	-	4	23	10	-	6
MIDDLE ATLANTIC.....	7	-	-	2	3	2	48	161	183	7	79
New York City.....	2	-	-	-	1	-	20	60	48	2	14
New York, Up-State...	1	-	-	2	-	-	3	27	17	3	21
New Jersey.....	4	-	-	-	-	-	11	16	57	1	23
Pennsylvania.....	-	-	-	-	2	2	14	58	61	1	21
EAST NORTH CENTRAL.....	2	2	-	8	5	3	4	134	159	4	30
Ohio.....	-	-	-	6	2	3	1	39	41	1	8
Indiana.....	-	1	-	-	-	-	-	13	15	-	-
Illinois.....	1	-	-	1	-	-	1	23	30	-	4
Michigan.....	1	-	-	1	3	-	2	54	68	3	18
Wisconsin.....	-	1	-	-	-	-	-	5	5	-	-
WEST NORTH CENTRAL.....	-	-	-	-	2	1	-	35	38	1	31
Minnesota.....	-	-	-	-	-	1	-	5	12	-	-
Iowa.....	-	-	-	-	2	-	-	4	6	-	6
Missouri.....	-	-	-	-	-	-	-	12	10	-	1
North Dakota.....	-	-	-	-	-	-	-	2	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	1	-	-
Nebraska.....	-	-	-	-	-	-	-	-	3	-	-
Kansas.....	-	-	-	-	-	-	-	12	6	1	23
SOUTH ATLANTIC.....	4	-	1	2	1	-	13	124	129	10	102
Delaware.....	-	-	-	-	-	-	1	3	-	1	1
Maryland.....	1	-	-	-	-	-	3	8	22	1	11
Dist. of Columbia...	-	-	-	-	-	-	-	2	1	-	-
Virginia.....	-	-	-	-	1	-	-	18	8	1	8
West Virginia.....	-	-	-	-	-	-	-	13	9	-	-
North Carolina.....	1	-	-	2	-	-	3	22	6	1	49
South Carolina.....	-	-	-	-	-	-	-	5	9	-	6
Georgia.....	-	-	-	-	-	-	-	9	30	2	19
Florida.....	2	-	1	-	-	-	6	44	44	4	8
EAST SOUTH CENTRAL.....	2	-	-	3	1	-	2	95	59	21	36
Kentucky.....	2	-	-	-	-	-	-	48	17	20	32
Tennessee.....	-	-	-	3	-	-	2	35	20	-	-
Alabama.....	-	-	-	-	1	-	-	10	9	1	4
Mississippi.....	-	-	-	-	-	-	-	2	13	-	-
WEST SOUTH CENTRAL.....	4	-	2	2	2	1	3	108	86	27	111
Arkansas.....	-	-	-	-	1	-	-	-	2	-	-
Louisiana.....	2	-	-	2	1	1	1	27	16	-	2
Oklahoma.....	1	-	-	-	-	-	-	18	9	4	12
Texas.....	1	-	2	-	-	-	2	63	59	23	97
MOUNTAIN.....	-	-	1	-	2	-	-	31	30	-	9
Montana.....	-	-	-	-	-	-	-	1	4	-	-
Idaho.....	-	-	-	-	-	-	-	2	2	-	1
Wyoming.....	-	-	-	-	1	-	-	7	2	-	-
Colorado.....	-	-	1	-	1	-	-	2	7	-	6
New Mexico.....	-	-	-	-	-	-	-	3	3	-	-
Arizona.....	-	-	-	-	-	-	-	8	5	-	2
Utah.....	-	-	-	-	-	-	-	8	7	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	8	-	2	5	1	1	28	224	268	4	101
Washington.....	-	-	1	-	-	-	-	11	18	1	5
Oregon.....	-	-	-	-	-	-	-	28	24	-	7
California.....	6	-	1	5	1	1	28	179	220	3	72
Alaska.....	---	---	---	---	-	-	---	---	5	---	-
Hawaii.....	2	-	-	-	-	-	-	6	1	-	17
Puerto Rico.....	---	---	---	---	-	-	---	---	28	---	-
Virgin Islands.....	---	---	---	---	-	-	---	---	-	---	-

*Delayed reports: Aseptic meningitis: Pa. delete 2, Ariz. 2 (1970) 1 (1969)

Brucellosis: Tex. 2 (1969)

Encephalitis, primary: Tex. 1 (1969)

Hepatitis, infectious: N.J. 42 (1969), S.C. delete 1

Malaria: Pa. delete 10

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

FEBRUARY 28, 1970 AND FEBRUARY 22, 1969 (8th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	Cumulative			Cumulative			1970	Cum. 1970	Total	Paralytic	
	1970	1970	1969	1970	1970	1969			1970	1970	Cum. 1970
UNITED STATES.....	1,186	7,646	3,209	77	537	637	2,436	19,875	-	-	1
NEW ENGLAND.....	27	146	141	2	26	20	233	2,852	-	-	-
Maine.....	-	-	2	-	-	1	25	425	-	-	-
New Hampshire.....	1	7	29	-	3	-	9	172	-	-	-
Vermont.....	-	-	-	-	1	-	4	138	-	-	-
Massachusetts.....	22	112	20	2	9	10	70	817	-	-	-
Rhode Island.....	-	2	7	-	3	3	19	270	-	-	-
Connecticut.....	4	25	83	-	10	6	106	1,030	-	-	-
MIDDLE ATLANTIC.....	163	1,202	961	12	87	97	341	2,096	-	-	-
New York City.....	34	175	579	1	22	15	70	597	-	-	-
New York, Up-State...	12	47	93	5	19	15	-	4	-	-	-
New Jersey.....	38	518	162	4	23	43	167	674	-	-	-
Pennsylvania.....	79	462	127	2	23	24	104	821	-	-	-
EAST NORTH CENTRAL.....	101	1,759	337	7	76	76	622	4,866	-	-	-
Ohio.....	38	552	39	3	38	23	86	644	-	-	-
Indiana.....	9	59	72	1	6	10	43	404	-	-	-
Illinois.....	19	895	61	2	15	9	41	469	-	-	-
Michigan.....	19	124	43	-	15	28	160	1,139	-	-	-
Wisconsin.....	16	129	122	1	2	6	292	2,210	-	-	-
WEST NORTH CENTRAL.....	211	929	78	1	9	26	160	1,293	-	-	-
Minnesota.....	-	4	1	-	2	6	3	161	-	-	-
Iowa.....	21	21	41	1	3	3	90	806	-	-	-
Missouri.....	2	8	1	-	4	8	2	24	-	-	-
North Dakota.....	26	43	2	-	-	-	10	117	-	-	-
South Dakota.....	-	36	-	-	-	-	-	1	-	-	-
Nebraska.....	126	775	33	-	-	2	55	183	-	-	-
Kansas.....	36	42	-	-	-	7	-	1	-	-	-
SOUTH ATLANTIC.....	163	1,051	607	24	118	130	234	1,893	-	-	-
Delaware.....	10	82	3	-	2	3	8	47	-	-	-
Maryland.....	52	180	5	4	11	14	20	144	-	-	-
Dist. of Columbia...	5	194	-	-	1	2	7	40	-	-	-
Virginia.....	36	202	178	1	8	20	30	388	-	-	-
West Virginia.....	12	52	43	-	1	4	108	664	-	-	-
North Carolina.....	34	132	36	3	20	14	NN	NN	-	-	-
South Carolina.....	9	31	40	3	6	16	26	142	-	-	-
Georgia.....	-	2	-	5	22	26	-	-	-	-	-
Florida.....	5	176	302	8	47	31	35	468	-	-	-
EAST SOUTH CENTRAL.....	14	104	28	-	34	30	206	1,444	-	-	-
Kentucky.....	7	65	8	-	11	8	79	583	-	-	-
Tennessee.....	6	15	6	-	16	15	121	783	-	-	-
Alabama.....	-	12	-	-	4	5	6	69	-	-	-
Mississippi.....	1	12	14	-	3	2	-	9	-	-	-
WEST SOUTH CENTRAL.....	366	1,747	836	14	95	84	220	1,907	-	-	1
Arkansas.....	10	11	2	-	8	10	15	27	-	-	-
Louisiana.....	-	7	1	6	24	25	-	2	-	-	-
Oklahoma.....	1	61	101	-	8	6	35	606	-	-	-
Texas.....	355	1,668	732	8	55	43	170	1,272	-	-	1
MOUNTAIN.....	53	314	56	1	6	19	130	870	-	-	-
Montana.....	1	9	2	-	-	-	17	133	-	-	-
Idaho.....	1	4	-	-	-	3	-	47	-	-	-
Wyoming.....	-	-	-	-	-	-	-	10	-	-	-
Colorado.....	4	9	6	1	3	3	59	316	-	-	-
New Mexico.....	9	57	22	-	-	4	28	165	-	-	-
Arizona.....	38	231	25	-	1	6	22	150	-	-	-
Utah.....	-	2	-	-	2	1	2	49	-	-	-
Nevada.....	-	2	1	-	-	2	-	-	-	-	-
PACIFIC.....	88	394	165	16	86	155	290	2,652	-	-	-
Washington.....	1	35	10	2	10	8	65	1,102	-	-	-
Oregon.....	29	34	30	2	8	4	29	240	-	-	-
California.....	51	304	120	11	67	137	179	1,058	-	-	-
Alaska.....	---	1	4	---	-	-	---	96	---	---	-
Hawaii.....	7	20	1	1	1	6	17	156	-	-	-
Puerto Rico.....	---	353	88	---	2	2	---	172	---	---	-
Virgin Islands.....	-	3	-	-	-	-	-	-	-	-	-

Delayed reports: Meningococcal infections: Pa. delete 3

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED

FEBRUARY 28, 1970 AND FEBRUARY 22, 1969 (8th WEEK) - CONTINUED

AREA	RUBELLA		TETANUS		TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970
UNITED STATES.....	1,461	9,178	4	10	2	12	-	37	-	-	68	449
NEW ENGLAND.....	55	380	-	1	-	-	-	2	-	-	3	20
Maine.....	11	40	-	-	-	-	-	-	-	-	-	-
New Hampshire.....	2	46	-	-	-	-	-	-	-	-	-	20
Vermont.....	-	6	-	-	-	-	-	-	-	-	3	-
Massachusetts.....	17	129	-	1	-	-	-	1	-	-	-	-
Rhode Island.....	-	7	-	-	-	-	-	-	-	-	-	-
Connecticut.....	25	152	-	-	-	-	-	1	-	-	-	-
MIDDLE ATLANTIC.....	103	599	-	2	-	-	-	7	-	-	5	34
New York City.....	17	95	-	-	-	-	-	2	-	-	-	33
New York, Up-State..	11	69	-	-	-	-	-	3	-	-	5	-
New Jersey.....	49	156	-	1	-	-	-	-	-	-	-	1
Pennsylvania.....	26	279	-	1	-	-	-	2	-	-	-	-
EAST NORTH CENTRAL....	321	2,194	1	2	1	5	-	2	-	-	3	20
Ohio.....	42	261	-	-	-	2	-	1	-	-	-	6
Indiana.....	74	404	-	1	1	3	-	-	-	-	-	1
Illinois.....	21	250	-	-	-	-	-	-	-	-	1	5
Michigan.....	59	596	1	1	-	-	-	1	-	-	-	8
Wisconsin.....	125	683	-	-	-	-	-	-	-	-	2	-
WEST NORTH CENTRAL....	219	996	-	-	1	2	-	-	-	-	13	63
Minnesota.....	9	47	-	-	-	-	-	-	-	-	-	14
Iowa.....	108	613	-	-	-	-	-	-	-	-	2	14
Missouri.....	2	63	-	-	1	2	-	-	-	-	7	16
North Dakota.....	10	51	-	-	-	-	-	-	-	-	-	8
South Dakota.....	-	1	-	-	-	-	-	-	-	-	-	2
Nebraska.....	89	213	-	-	-	-	-	-	-	-	-	9
Kansas.....	1	8	-	-	-	-	-	-	-	-	4	-
SOUTH ATLANTIC.....	152	1,125	3	4	-	1	-	10	-	-	17	123
Delaware.....	4	10	-	-	-	-	-	-	-	-	-	1
Maryland.....	8	38	-	-	-	-	-	3	-	-	-	-
Dist. of Columbia...	1	4	-	1	-	-	-	-	-	-	-	-
Virginia.....	32	192	-	-	-	-	-	1	-	-	6	62
West Virginia.....	73	338	-	-	-	-	-	-	-	-	10	22
North Carolina.....	-	1	-	-	-	-	-	1	-	-	-	-
South Carolina.....	12	40	-	-	-	-	-	-	-	-	-	25
Georgia.....	-	-	1	1	-	-	-	4	-	-	1	13
Florida.....	22	502	2	2	-	1	-	1	-	-	-	-
EAST SOUTH CENTRAL....	119	546	-	-	-	2	-	-	-	-	12	55
Kentucky.....	81	208	-	-	-	1	-	-	-	-	8	30
Tennessee.....	34	286	-	-	-	1	-	-	-	-	1	14
Alabama.....	3	45	-	-	-	-	-	-	-	-	3	11
Mississippi.....	1	7	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL....	222	1,404	-	1	-	2	-	1	-	-	10	83
Arkansas.....	-	-	-	-	-	1	-	1	-	-	4	25
Louisiana.....	1	3	-	1	-	-	-	-	-	-	-	7
Oklahoma.....	10	390	-	-	-	1	-	-	-	-	1	38
Texas*.....	211	1,011	-	-	-	-	-	-	-	-	5	-
MOUNTAIN.....	65	367	-	-	-	-	-	4	-	-	-	5
Montana.....	25	80	-	-	-	-	-	1	-	-	-	-
Idaho.....	1	9	-	-	-	-	-	-	-	-	-	-
Wyoming.....	2	29	-	-	-	-	-	-	-	-	-	-
Colorado.....	5	83	-	-	-	-	-	1	-	-	-	5
New Mexico.....	3	22	-	-	-	-	-	1	-	-	-	-
Arizona.....	25	112	-	-	-	-	-	1	-	-	-	-
Utah.....	4	32	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	205	1,567	-	-	-	-	-	11	-	-	5	46
Washington.....	77	736	-	-	-	-	-	1	-	-	-	-
Oregon.....	30	187	-	-	-	-	-	-	-	-	-	-
California.....	87	534	-	-	-	-	-	10	-	-	5	46
Alaska.....	---	42	---	---	---	---	---	-	---	---	---	-
Hawaii.....	11	68	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	---	6	---	2	---	---	---	-	---	---	---	7
Virgin Islands.....	---	-	---	-	---	---	---	-	---	---	---	-

*Delayed reports: Tularemia: Tex. 1 (1969)

Morbidity and Mortality Weekly Report

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED FEBRUARY 28, 1970

(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:	752	464	65	32	SOUTH ATLANTIC:	1,301	719	106	44
Boston, Mass.-----	234	134	18	8	Atlanta, Ga.-----	146	71	14	6
Bridgeport, Conn.-----	44	30	1	3	Baltimore, Md.-----	234	115	13	7
Cambridge, Mass.-----	36	26	7	-	Charlotte, N. C.-----	63	40	3	3
Fall River, Mass.-----	31	15	6	-	Jacksonville, Fla.-----	105	57	8	2
Hartford, Conn.-----	47	26	1	3	Miami, Fla.-----	122	77	8	3
Lowell, Mass.-----	30	21	2	3	Norfolk, Va.-----	56	23	7	2
Lynn, Mass.-----	30	23	2	1	Richmond, Va.-----	104	54	9	5
New Bedford, Mass.-----	25	18	4	-	Savannah, Ga.-----	43	25	8	3
New Haven, Conn.-----	54	33	5	5	St. Petersburg, Fla.-----	119	100	6	-
Providence, R. I.-----	73	40	4	4	Tampa, Fla.-----	91	51	15	4
Somerville, Mass.-----	15	12	3	-	Washington, D. C.-----	173	80	9	6
Springfield, Mass.-----	61	43	7	2	Wilmington, Del.-----	45	26	6	3
Waterbury, Conn.-----	22	16	-	1	EAST SOUTH CENTRAL:	738	425	42	19
Worcester, Mass.-----	50	27	5	2	Birmingham, Ala.-----	97	63	4	1
MIDDLE ATLANTIC:	3,591	2,157	140	147	Chattanooga, Tenn.-----	70	44	8	1
Albany, N. Y.-----	71	48	5	2	Knoxville, Tenn.-----	40	22	2	1
Allentown, Pa.-----	43	30	5	1	Louisville, Ky.-----	141	84	7	2
Buffalo, N. Y.-----	163	98	5	8	Memphis, Tenn.-----	146	79	3	6
Camden, N. J.-----	52	31	4	2	Mobile, Ala.-----	61	37	5	1
Elizabeth, N. J.-----	26	17	1	-	Montgomery, Ala.-----	53	32	3	2
Erie, Pa.-----	37	23	5	2	Nashville, Tenn.-----	130	64	10	5
Jersey City, N. J.-----	63	33	7	6	WEST SOUTH CENTRAL:	1,348	698	91	84
Newark, N. J.-----	71	36	2	1	Austin, Tex.-----	47	30	5	3
New York City, N. Y.-----	1,688	1,005	55	65	Baton Rouge, La.-----	36	22	4	1
Paterson, N. J.-----	40	24	4	3	Corpus Christi, Tex.-----	34	18	2	3
Philadelphia, Pa.-----	689	401	9	34	Dallas, Tex.-----	203	91	7	18
Pittsburgh, Pa.-----	226	140	18	9	El Paso, Tex.-----	43	22	5	9
Reading, Pa.-----	58	37	1	2	Fort Worth, Tex.-----	90	53	10	1
Rochester, N. Y.-----	108	68	6	5	Houston, Tex.-----	228	110	8	10
Schenectady, N. Y.-----	30	21	3	-	Little Rock, Ark.-----	51	27	1	3
Scranton, Pa.-----	40	28	3	1	New Orleans, La.-----	216	91	14	11
Syracuse, N. Y.-----	87	46	2	3	Oklahoma City, Okla.-----	99	46	5	9
Trenton, N. J.-----	45	32	2	1	San Antonio, Tex.-----	141	78	6	12
Utica, N. Y.-----	25	18	-	1	Shreveport, La.-----	77	53	15	-
Yonkers, N. Y.-----	29	21	3	1	Tulsa, Okla.-----	83	57	9	4
EAST NORTH CENTRAL:	2,918	1,624	164	123	MOUNTAIN:	521	283	34	23
Akron, Ohio-----	82	45	-	6	Albuquerque, N. Mex.-----	64	28	10	2
Canton, Ohio-----	37	22	3	2	Colorado Springs, Colo.-----	25	11	4	3
Chicago, Ill.-----	866	459	48	31	Denver, Colo.-----	122	60	4	3
Cincinnati, Ohio-----	167	109	8	2	Ogden, Utah-----	16	13	5	1
Cleveland, Ohio-----	221	109	5	18	Phoenix, Ariz.-----	132	75	3	7
Columbus, Ohio-----	144	85	8	4	Pueblo, Colo.-----	19	9	-	2
Dayton, Ohio-----	78	44	8	2	Salt Lake City, Utah-----	67	35	4	5
Detroit, Mich.-----	435	246	17	15	Tucson, Ariz.-----	76	52	4	-
Evansville, Ind.-----	49	32	2	1	PACIFIC:	1,678	1,071	59	55
Fort Wayne, Ind.-----	52	28	1	5	Berkeley, Calif.-----	12	9	-	-
Flint, Mich.-----	44	19	8	4	Fresno, Calif.-----	51	31	1	3
Fort Wayne, Ind.-----	44	19	8	4	Glendale, Calif.-----	33	25	2	-
Gary, Ind.-----	47	20	8	1	Honolulu, Hawaii-----	46	22	1	2
Grand Rapids, Mich.-----	58	40	8	4	Long Beach, Calif.-----	122	73	3	-
Indianapolis, Ind.-----	158	84	3	4	Los Angeles, Calif.-----	526	353	22	21
Madison, Wis.-----	39	15	10	2	Oakland, Calif.-----	90	62	3	5
Milwaukee, Wis.-----	140	95	5	2	Pasadena, Calif.-----	38	31	-	-
Peoria, Ill.-----	40	21	3	3	Portland, Oreg.-----	134	95	3	5
Rockford, Ill.-----	40	19	5	3	Sacramento, Calif.-----	71	49	2	1
South Bend, Ind.-----	38	27	7	3	San Diego, Calif.-----	108	55	2	9
Toledo, Ohio-----	119	72	7	8	San Francisco, Calif.-----	183	111	9	3
Youngstown, Ohio-----	64	33	-	3	San Jose, Calif.-----	56	36	2	2
WEST NORTH CENTRAL:	835	531	33	31	Seattle, Wash.-----	137	79	8	3
Des Moines, Iowa-----	58	45	3	3	Spokane, Wash.-----	32	14	1	-
Duluth, Minn.-----	15	10	-	1	Tacoma, Wash.-----	39	26	-	1
Kansas City, Kans.-----	37	22	4	3	Total	13,682	7,972	734	558
Kansas City, Mo.-----	127	85	1	3	Expected Number	13,318	7,843	527	519
Lincoln, Nebr.-----	28	18	2	-	Cumulative Total (includes reported corrections for previous weeks)	117,458	68,369	6,004	5,099
Minneapolis, Minn.-----	111	73	4	2					
Omaha, Nebr.-----	82	44	-	5					
St. Louis, Mo.-----	261	153	9	10					
St. Paul, Minn.-----	81	56	4	2					
Wichita, Kans.-----	35	25	6	2					
Las Vegas, Nev.*	---	---	---	---					

*Mortality data are being collected from Las Vegas, Nev., for possible inclusion in this table, however, for statistical reasons, these data will be listed only and not included in the total, expected number, or cumulative total, until 5 years of data are collected.

MELIOIDIOSIS - (Continued from page 82)

arm and mammary gland; and (4) the right lower lobe of the lung contained two 2 x 2 cm firm nodules which were granulomatous in consistency.

Serologic examination of the remaining 20 animals in the behavioral group demonstrated seven to have HA titers to *P. pseudomallei*, ranging from 1:80 to 1:2,560. A bacteriologic and serologic survey on all animals in the colony is underway.

(Reported by Lloyd A. Dillingham, D.V.M., Staff Veterinarian, Washington Regional Primate Research Center, and R. Palmer Beasley, M.D., Assistant Professor, and William B. Mitchell, M.D., Senior Fellow, Preventive Medicine, University of Washington.)

INTERNATIONAL NOTES

FOLLOW-UP SMALLPOX - Federal Republic of Germany*

In the outbreak of smallpox in the Federal Republic of Germany (MMWR, Vol. 19, Nos. 3-5), two additional cases have been reported. Both were in patients who had shared rooms with previous patients and who have been in isolation since the outbreak was recognized. This increases the total number of cases to 20, including the original case, 17 cases in the second generation, and two in the third. Four patients have died, two of whom were already seriously ill with other diseases.

*Source: World Health Organization Weekly Epidemiological Record, 45(9):98, Feb. 27, 1970.

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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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