



# Morbidity and Mortality

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EPIDEMIOLOGIC NOTES AND REPORTS  
INFLUENZA - United States

The first documented outbreak of influenza A2/Hong Kong/68 in a civilian population in the United States recently occurred in Needles, California. The outbreak involved 300 to 500 of the town's 5,000 residents, and extended over a 6-week period with the peak incidence occurring in the week of October 28-November 3. The clinical syndrome consisted of sore throat, fever, profound malaise, myalgia, and cervical adenopathy, and the illness lasted for approximately 1 to 2 weeks. Attack rates were highest in the high school population with absenteeism rates as high as 10 to 20 percent. Students in the junior high and grade schools appeared to be unaffected.

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Laboratory confirmation of the outbreak included 24 convalescent sera which showed a hemagglutination-inhibition (HI) titer to A2/Hong Kong/68 influenza of greater than 1:32 in 17 specimens and a complement fixation (CF) titer to influenza A of greater than 1:32 in 13 specimens. A viral isolate with hemadsorbing properties  
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TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	46th WEEK ENDED		MEDIAN 1963 - 1967	CUMULATIVE, FIRST 46 WEEKS		
	November 16, 1968	November 18, 1967		1968	1967	MEDIAN 1963 - 1967
Aseptic meningitis . . . . .	78	63	44	3,974	2,740	1,914
Brucellosis . . . . .	3	8	6	199	224	224
Diphtheria . . . . .	2	13	5	194	153	172
Encephalitis, primary:						
Arthropod-borne & unspecified . . . . .	21	18	---	1,261	1,451	---
Encephalitis, post-infectious . . . . .	10	9	---	432	699	---
Hepatitis, serum . . . . .	78	51	754	4,037	1,969	33,705
Hepatitis, infectious . . . . .	899	894		40,168	34,147	
Malaria . . . . .	69	60	4	2,108	1,860	94
Measles (rubeola) . . . . .	215	310	1,539	20,989	60,202	249,331
Meningococcal infections, total . . . . .	19	38	46	2,273	1,928	2,454
Civilian . . . . .	19	37	---	2,085	1,806	---
Military . . . . .	—	1	---	188	122	---
Mumps . . . . .	1,777	---	---	135,846	---	---
Poliomyelitis, total . . . . .	1	2	2	54	38	90
Paralytic . . . . .	1	—	1	54	29	84
Rubella (German measles) . . . . .	319	307	---	46,406	42,122	---
Streptococcal sore throat & scarlet fever . . . . .	8,863	8,668	7,333	372,317	393,232	346,917
Tetanus . . . . .	1	4	5	151	198	245
Tularemia . . . . .	1	4	4	160	154	228
Typhoid fever . . . . .	6	7	7	351	371	394
Typhus, tick-borne (Rky. Mt. spotted fever) . . . . .	1	—	1	270	293	243
Rabies in animals . . . . .	41	70	72	3,017	3,815	3,815

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: . . . . .	3	Rabies in man: . . . . .	1
Botulism: . . . . .	7	Rubella, Congenital Syndrome: . . . . .	5
Leptospirosis: * Calif.-1 . . . . .	46	Trichinosis: . . . . .	55
Plague: . . . . .	3	Typhus, murine: La.-1 . . . . .	30
Psittacosis: . . . . .	40		

\*Delayed reports: Leptospirosis: Hawaii 2

## INFLUENZA - (Continued from front page)

of A2 influenza was isolated from the throat washing of one patient. Further studies to identify this virus are in progress.

Other reports of influenza activity have been received from New Jersey, Colorado, Utah, Alaska, and Illinois. In New Jersey, during the week ending November 16, an outbreak of influenza-like disease occurred in a hospital for mentally retarded individuals. Symptoms consisted of fever, cough, and coryza, and lasted for approximately 3 days. A significant difference in CF titer on a series of unpaired acute and convalescent specimens indicated influenza A infection. HI titers on these specimens provided evidence of A2 influenza infection. An isolate was obtained, and has been characterized as an A2/Hong Kong/68-like virus.

In Colorado, reported influenza-like illnesses increased from 62 cases for the week ending November 2 to 670 and 656 reported cases for the weeks ending November 9 and 16, respectively. Absenteeism rates in industries doubled in the past 2 weeks, and absenteeism rates and febrile respiratory illnesses increased in several colleges. A Denver hospital suspended all routine operations last week because of an influenza-like disease in the nursing staff.

Laboratory confirmation of influenza activity in Colorado includes a CF titer rise to influenza A from less than 1:8 to greater than 1:256 on acute and convalescent sera on two college students, and an HI titer rise to A2/Hong Kong/68 influenza from 1:20 to greater than 1:640. In addition, five viral isolates, identified as A2/Hong Kong/68-like strains, were isolated from patients in a children's hospital for asthmatics in Denver.

In Salt Lake City, Utah, A2/Hong Kong/68-like virus was isolated from a man who had onset of an influenza-like illness on November 2, the day he returned from California. Epidemiologic investigation of this case revealed secondary spread to his wife on November 9 and to a second person on November 5 who had been at a church meeting on November 3 attended by the index case. Six

other persons who worked with this second person subsequently developed an influenza-like illness and five relatives of these six cases then developed an influenza-like disease. Serologic studies on these patients are pending.

Although there had been no observed increase in absenteeism rates in schools or industries under active surveillance in Anchorage, Alaska, four isolates of A2/Hong Kong/68-like virus were obtained from patients with influenza. Seven other Alaskan communities have reported clinical evidence of influenza. These outbreaks are predominantly involving adults 20 years of age or older.

In Illinois, an influenza A2/Hong Kong/68-like virus was isolated from a student with influenza at a university student health center. Although the husband and children of the student developed similar illnesses, no other cases have been reported from the university.

*(Reported by Dr. Louis F. Saylor, Director of Public Health, Dr. Philip K. Condit, Chief, Bureau of Communicable Diseases, and Dr. James Chin, Epidemiologist, California State Department of Public Health; Dr. Ronald Altman, Acting Director, Division of Preventable Diseases, New Jersey State Department of Health; Dr. C. S. Mollohan, Chief, Section of Epidemiology, Colorado State Department of Public Health, Dr. Jerry J. Eller, Chief, Virology Section, US Army Medical Research and Nutrition Laboratory, Fitzsimmon General Hospital, Denver, and Dr. Elliot Ellis, Chief, Pediatrics Service, a hospital, Denver; Dr. Robert W. Sherwood, Director, Preventive Medicine, Utah Department of Health and Welfare; Elmer Feltz, Chief, Virology Unit, Arctic Health Research Laboratory, Fairbanks, and Donald K. Freedman, Director, Division of Public Health, Alaska Department of Health and Welfare; Dr. Norman J. Rose, Chief, Bureau of Epidemiology, and Richard A. Morrissey, Chief, Division of Laboratories, Illinois Department of Public Health; Respiratory Virus Infections Unit, Laboratory Program, NCDC; and EIS Officers.)*

### CURRENT TRENDS INFECTIOUS SYPHILIS

National case reporting of newly acquired syphilis (primary and secondary stages) began in 1941. After 1941, case totals increased annually to an all-time peak of 110,932 cases in 1946 (Table 1). Large decreases were reported annually by all states after 1946, and in 1956, a low point of 6,392 reported primary and secondary cases was reached, a reduction of 94 percent from the 1946 total.

In 1957, however, a small increase in the national syphilis morbidity occurred, followed in succeeding years by increases of increasing magnitude. In 1960, this in-

crease over the previous year was 65 percent. After 1960, cases increased at a decreasing rate and reached a peak of 23,338 cases in 1965.

In 1966 and again in 1967, a decrease in cases occurred, and for 1968, a decrease of 8.3 percent is projected on the basis of reported cases through October (Table 2). The national decline in reported cases has not been paralleled in some reporting areas; 12 areas reported more cases during January-October 1968 than during January-October 1965, a period in which cases for the total United States declined 16.9 percent (Table 3). Over

**Table 1**  
Reported Cases of Primary and Secondary Syphilis  
United States, \* 1946-1968\*\*

Year	Cases	Year	Cases	Year	Cases
1946	110,932	1954	7,147	1962	21,067
1947	93,545	1955	6,454	1963	22,251
1948	68,174	1956	6,392	1964	22,969
1949	41,942	1957	6,576	1965	23,338
1950	23,939	1958	7,176	1966	21,414
1951	14,485	1959	9,799	1967	21,053
1952	10,449	1960	16,145	1968**	19,312
1953	8,637	1961	19,851		

\*Includes Alaska beginning in 1959; includes Hawaii beginning in 1960.

\*\*1968 estimated from January-October.

half of the total increase in cases reported by these 12 areas occurred in Texas, with Indiana, Louisiana, and the District of Columbia accounting for most of the remaining increase. The increase in eight states was not significant. (Reported by the Venereal Disease Program, NCDC.)

**Table 3**  
12 Areas Reporting More Cases During January-October  
1968 than During January-October 1965

Area	January-October Cases		
	1965	1968	Increase
Texas	1,129	2,038	909
Indiana	47	293	246
Louisiana	584	717	133
District of Columbia	418	523	105
New Mexico	95	132	37
Maryland	390	402	12
Oregon	33	39	6
Rhode Island	18	23	5
Maine	2	5	3
North Dakota	2	5	3
Iowa	35	37	2
Kansas	25	26	1
<b>Total</b>	<b>2,778</b>	<b>4,240</b>	<b>1,462</b>

**Table 2**  
Summary of Reported Cases of Infectious Syphilis

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas October 1968 and October 1967 - Provisional Data

Reporting Area	October		Cumulative Jan. - Oct.		Reporting Area	October		Cumulative Jan. - Oct.	
	1968	1967	1968	1967		1968	1967	1968	1967
<b>NEW ENGLAND</b> .....	29	34	285	291	<b>EAST SOUTH CENTRAL</b> .....	89	138	1,136	1,486
Maine.....	-	4	5	6	Kentucky.....	11	17	101	142
New Hampshire.....	4	2	4	9	Tennessee.....	17	31	269	232
Vermont.....	-	-	-	3	Alabama.....	33	76	477	784
Massachusetts.....	22	23	185	167	Mississippi.....	28	14	289	308
Rhode Island.....	-	1	23	27	<b>WEST SOUTH CENTRAL</b> .....	325	351	2,930	2,682
Connecticut.....	3	4	68	79	Arkansas.....	5	21	106	110
<b>MIDDLE ATLANTIC</b> .....	368	289	2,885	2,998	Louisiana.....	74	71	717	549
Upstate New York.....	56	32	269	257	Oklahoma.....	10	7	69	95
New York City.....	252	150	1,848	1,778	Texas.....	236	252	2,038	1,928
Pa. (Excl. Phila.).....	13	32	188	207	<b>MOUNTAIN</b> .....	36	58	402	502
Philadelphia.....	16	30	205	270	Montana.....	-	1	5	5
New Jersey.....	31	45	375	486	Idaho.....	-	-	2	16
<b>EAST NORTH CENTRAL</b> .....	260	297	2,399	2,672	Wyoming.....	2	1	3	13
Ohio.....	36	47	383	516	Colorado.....	2	3	17	55
Indiana.....	34	29	293	146	New Mexico.....	10	21	132	157
Downstate Illinois.....	36	4	182	121	Arizona.....	20	27	200	229
Chicago.....	88	79	841	807	Utah.....	-	-	8	7
Michigan.....	65	135	676	1,060	Nevada.....	2	5	35	20
Wisconsin.....	1	3	24	22	<b>PACIFIC</b> .....	210	134	1,546	1,505
<b>WEST NORTH CENTRAL</b> .....	41	45	327	293	Washington.....	4	8	39	50
Minnesota.....	6	8	44	45	Oregon.....	9	2	39	40
Iowa.....	6	6	37	37	California.....	197	123	1,460	1,405
Missouri.....	20	18	166	96	Alaska.....	-	1	2	3
North Dakota.....	-	-	5	3	Hawaii.....	-	-	6	7
South Dakota.....	-	4	30	31	<b>U. S. TOTAL</b> .....	<b>1,760</b>	<b>1,844</b>	<b>16,235</b>	<b>17,697</b>
Nebraska.....	3	3	19	34	<b>TERRITORIES</b> .....	107	84	956	768
Kansas.....	6	6	26	47	Puerto Rico.....	100	82	910	736
<b>SOUTH ATLANTIC</b> .....	402	498	4,325	5,268	Virgin Islands.....	7	2	46	32
Delaware.....	5	10	32	60					
Maryland.....	36	54	402	535					
District of Columbia.....	61	85	523	661					
Virginia.....	25	24	261	258					
West Virginia.....	1	4	29	20					
North Carolina.....	28	61	494	653					
South Carolina.....	48	57	443	684					
Georgia.....	87	73	759	821					
Florida.....	111	130	1,382	1,574					

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

**INTERNATIONAL NOTES**  
**TYPHOID FEVER - Cuba**

An outbreak of typhoid fever occurred in eastern Cuba during August and September 1968. In the week ending August 24, 92 confirmed cases were recorded and

in the following 5 weeks approximately 67 cases per week were reported. The outbreak had subsided by the week

(Continued on page 432)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED  
NOVEMBER 16, 1968 AND NOVEMBER 18, 1967 (46th WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHtherIA	ENCEPHALITIS			HEPATITIS		MALARIA	
	1968	1967			Primary including unsp. cases	Post-Infectious	Serum	Infectious			
								1968	1967		1968
UNITED STATES...	78	63	3	2	21	18	10	78	899	894	69
NEW ENGLAND.....	-	-	-	-	2	2	-	2	49	45	3
Maine.*.....	-	-	-	-	-	-	-	-	5	4	-
New Hampshire.....	-	-	-	-	-	-	-	-	5	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	1	-
Massachusetts.....	-	-	-	-	-	-	-	-	23	10	3
Rhode Island.....	-	-	-	-	2	2	-	-	11	3	-
Connecticut.....	-	-	-	-	-	-	-	2	5	27	-
MIDDLE ATLANTIC.....	21	9	1	-	1	2	3	21	144	187	12
New York City.....	6	6	-	-	1	2	-	11	24	40	-
New York, up-State..	2	-	1	-	-	-	3	2	10	26	1
New Jersey.....	4	1	-	-	-	-	-	4	35	81	-
Pennsylvania.....	9	2	-	-	-	-	-	4	75	40	11
EAST NORTH CENTRAL...	10	14	-	-	7	7	1	5	153	142	3
Ohio.....	5	4	-	-	3	7	-	1	30	34	-
Indiana.....	1	4	-	-	1	-	-	-	12	5	1
Illinois.....	-	4	-	-	1	-	1	3	36	58	1
Michigan.....	4	2	-	-	2	-	-	1	65	33	1
Wisconsin.....	-	-	-	-	-	-	-	-	10	12	-
WEST NORTH CENTRAL...	6	-	-	-	-	3	-	2	61	51	3
Minnesota.....	6	-	-	-	-	-	-	1	7	15	-
Iowa.*.....	-	-	-	-	-	2	-	-	6	10	1
Missouri.....	-	-	-	-	-	-	-	1	25	18	-
North Dakota.....	-	-	-	-	-	-	-	-	1	2	-
South Dakota.....	-	-	-	-	-	-	-	-	1	-	-
Nebraska.....	-	-	-	-	-	-	-	-	3	3	1
Kansas.....	-	-	-	-	-	1	-	-	18	3	1
SOUTH ATLANTIC.....	8	6	-	-	4	1	1	2	94	89	30
Delaware.....	-	-	-	-	-	-	-	-	-	2	-
Maryland.....	1	5	-	-	1	-	-	-	13	9	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	1	1	-	-	3	1	-	2	42	4	4
West Virginia.....	2	-	-	-	-	-	-	-	8	16	1
North Carolina.....	1	-	-	-	-	-	-	-	6	5	11
South Carolina.....	-	-	-	-	-	-	-	-	5	1	1
Georgia.....	-	-	-	-	-	-	-	-	-	41	13
Florida.....	3	-	-	-	-	-	1	-	20	11	-
EAST SOUTH CENTRAL...	3	5	-	-	-	1	-	1	53	76	1
Kentucky.....	-	-	-	-	-	-	-	-	19	52	-
Tennessee.....	-	1	-	-	-	1	-	-	25	11	-
Alabama.....	2	4	-	-	-	-	-	1	6	7	1
Mississippi.....	1	-	-	-	-	-	-	-	3	6	-
WEST SOUTH CENTRAL...	4	5	1	2	1	-	-	3	60	71	1
Arkansas*.....	-	-	1	-	-	-	-	-	2	1	-
Louisiana.....	2	1	-	2	1	-	-	2	11	9	1
Oklahoma.....	-	2	-	-	-	-	-	-	11	3	-
Texas.....	2	2	-	-	-	-	-	1	36	58	-
MOUNTAIN.....	-	1	-	-	-	-	1	1	38	24	4
Montana.....	-	-	-	-	-	-	-	-	3	4	-
Idaho.....	-	-	-	-	-	-	-	-	3	-	2
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-
Colorado.....	-	-	-	-	-	-	-	1	9	11	2
New Mexico.....	-	-	-	-	-	-	1	-	5	4	-
Arizona.....	-	-	-	-	-	-	-	-	16	4	-
Utah.....	-	1	-	-	-	-	-	-	2	1	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	26	23	1	-	6	2	4	41	247	209	12
Washington.....	4	1	-	-	2	-	-	1	50	10	-
Oregon.....	1	-	-	-	-	-	-	5	14	16	2
California.....	21	18	1	-	4	-	4	35	181	180	6
Alaska.....	-	-	-	-	-	-	-	-	2	-	-
Hawaii*.....	-	4	-	-	-	2	-	-	-	3	4
Puerto Rico.....	---	-	---	---	---	-	---	---	---	23	---

\*Delayed reports: Aseptic meningitis: Hawaii 1  
Encephalitis, primary: Hawaii 1  
Encephalitis, post-infectious: Iowa 1  
Hepatitis, infectious: Me. 5, Ark. 2, Hawaii 9  
Malaria: Hawaii 2

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
NOVEMBER 16, 1968 AND NOVEMBER 18, 1967 (46th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA	
	1968	Cumulative		1968	Cumulative			1968	Total	Paralytic		
		1968	1967		1968	1967				1968		1968
UNITED STATES...	215	20,989	60,202	19	2,273	1,928	1,777	1	1	54	319	
NEW ENGLAND.....	25	1,213	909	1	133	76	214	-	-	1	29	
Maine.*.....	-	38	261	-	6	3	7	-	-	-	1	
New Hampshire.....	-	141	77	-	7	3	16	-	-	-	-	
Vermont.....	-	2	34	-	1	1	26	-	-	-	1	
Massachusetts.*.....	5	378	380	1	70	36	108	-	-	1	12	
Rhode Island.....	16	22	62	-	9	4	20	-	-	-	3	
Connecticut.....	4	632	95	-	40	29	37	-	-	-	12	
MIDDLE ATLANTIC.....	46	4,380	2,424	4	408	317	82	-	-	1	29	
New York City.....	21	2,292	491	3	84	56	33	-	-	-	11	
New York, Up-State.	3	1,278	614	-	72	79	NN	-	-	1	7	
New Jersey.....	2	671	554	-	140	103	49	-	-	-	4	
Pennsylvania.....	20	139	765	1	112	79	NN	-	-	-	7	
EAST NORTH CENTRAL...	24	4,014	5,879	2	282	267	489	1	1	8	76	
Ohio.....	1	313	1,172	-	77	90	34	-	-	2	11	
Indiana.....	3	702	626	1	39	31	35	1	1	2	9	
Illinois.....	5	1,399	1,091	-	63	61	69	-	-	2	11	
Michigan.....	6	307	986	1	83	66	163	-	-	2	20	
Wisconsin.....	9	1,293	2,004	-	20	19	188	-	-	-	25	
WEST NORTH CENTRAL...	2	401	2,930	2	125	93	333	-	-	3	30	
Minnesota.*.....	-	18	135	-	29	21	1	-	-	-	-	
Iowa.....	-	104	771	2	10	19	254	-	-	1	27	
Missouri.....	-	81	339	-	40	18	5	-	-	2	-	
North Dakota.....	-	138	878	-	4	3	61	-	-	-	3	
South Dakota.....	-	4	58	-	5	7	NN	-	-	-	-	
Nebraska.....	2	46	655	-	9	15	10	-	-	-	-	
Kansas.....	-	10	94	-	28	10	2	-	-	-	-	
SOUTH ATLANTIC.....	13	1,580	7,160	4	451	370	140	-	-	3	30	
Delaware.....	1	17	50	-	9	7	1	-	-	-	3	
Maryland.....	-	103	172	1	40	53	6	-	-	-	-	
Dist. of Columbia..	-	6	24	-	16	14	-	-	-	1	-	
Virginia.....	4	319	2,239	1	44	43	17	-	-	-	13	
West Virginia.....	2	310	1,456	-	13	35	74	-	-	1	6	
North Carolina.....	-	284	917	1	86	73	NN	-	-	1	-	
South Carolina.....	3	15	512	-	58	30	12	-	-	-	1	
Georgia.....	-	4	39	1	90	56	-	-	-	-	-	
Florida.*.....	3	522	1,751	-	95	59	30	-	-	-	7	
EAST SOUTH CENTRAL...	1	502	5,432	2	204	153	73	-	-	1	14	
Kentucky.....	-	103	1,419	1	93	45	39	-	-	1	3	
Tennessee.....	1	63	1,991	1	61	65	34	-	-	-	9	
Alabama.....	-	95	1,348	-	27	29	-	-	-	-	1	
Mississippi.....	-	241	674	-	23	14	-	-	-	-	1	
WEST SOUTH CENTRAL...	68	5,105	17,907	-	326	243	146	-	-	24	22	
Arkansas.....	-	2	1,404	-	20	36	-	-	-	1	-	
Louisiana.....	-	24	156	-	93	95	1	-	-	-	-	
Oklahoma.....	3	128	3,359	-	52	18	23	-	-	2	1	
Texas.....	65	4,951	12,988	-	161	94	122	-	-	21	21	
MOUNTAIN.....	9	1,042	4,822	-	39	39	123	-	-	1	38	
Montana.....	-	58	326	-	6	5	21	-	-	-	7	
Idaho.....	-	21	395	-	11	3	7	-	-	-	1	
Wyoming.....	-	54	193	-	3	1	-	-	-	-	-	
Colorado.....	-	518	1,609	-	11	13	31	-	-	-	13	
New Mexico.....	5	135	604	-	-	5	23	-	-	-	-	
Arizona.....	4	230	1,043	-	4	5	18	-	-	1	12	
Utah.....	-	21	383	-	1	4	23	-	-	-	5	
Nevada.....	-	5	269	-	3	3	-	-	-	-	-	
PACIFIC.....	27	2,752	12,739	4	305	370	177	-	-	12	51	
Washington.....	2	581	5,590	-	47	36	108	-	-	1	15	
Oregon.*.....	11	564	1,685	1	24	30	25	-	-	-	6	
California.....	14	1,561	5,142	3	217	289	28	-	-	11	25	
Alaska.....	-	11	140	-	3	11	16	-	-	-	1	
Hawaii.*.....	-	35	182	-	14	4	-	-	-	-	4	
Puerto Rico.....	---	466	2,226	---	20	14	---	---	---	-	---	

\*Delayed reports: Measles: Mass. delete 1, Minn. 1, Fla. delete 4, Ore. delete 1  
Meningococcal infections: Hawaii 1  
Mumps: Hawaii 7  
Rubella: Me. 2, Fla. 4, Ore. 1, Hawaii 2

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
NOVEMBER 16, 1968 AND NOVEMBER 18, 1967 (46th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
UNITED STATES...	8,863	1	151	1	160	6	351	1	270	41	3,017
NEW ENGLAND.....	977	-	4	-	47	-	12	-	1	1	73
Maine.....*	20	-	-	-	-	-	2	-	-	1	54
New Hampshire.....	5	-	1	-	-	-	1	-	-	-	2
Vermont.....	16	-	-	-	47	-	-	-	-	-	11
Massachusetts.....	125	-	1	-	-	-	6	-	1	-	5
Rhode Island.....	91	-	-	-	-	-	-	-	-	-	-
Connecticut.....	720	-	2	-	-	-	3	-	-	-	1
MIDDLE ATLANTIC.....	132	-	19	-	7	-	32	-	22	-	49
New York City.....	6	-	11	-	-	-	15	-	-	-	-
New York, Up-State.	110	-	4	-	7	-	8	-	5	-	40
New Jersey.....	NN	-	1	-	-	-	4	-	7	-	-
Pennsylvania.....	16	-	3	-	-	-	5	-	10	-	9
EAST NORTH CENTRAL...	527	1	16	-	11	-	47	-	9	-	272
Ohio.....	46	-	2	-	1	-	19	-	7	-	91
Indiana.....	60	-	2	-	1	-	7	-	-	-	88
Illinois.....	113	1	8	-	8	-	19	-	2	-	38
Michigan.....	202	-	3	-	1	-	-	-	-	-	14
Wisconsin.....	106	-	1	-	-	-	2	-	-	-	41
WEST NORTH CENTRAL...	552	-	15	-	15	1	38	-	9	10	744
Minnesota.....	59	-	2	-	-	-	2	-	-	4	233
Iowa.....	130	-	4	-	-	-	2	-	1	1	118
Missouri.....	4	-	5	-	7	-	26	-	3	3	108
North Dakota.....	135	-	-	-	-	-	-	-	-	2	118
South Dakota.....	17	-	1	-	3	-	2	-	4	-	97
Nebraska.....	177	-	3	-	-	-	3	-	1	-	26
Kansas.....	30	-	-	-	5	1	3	-	-	-	44
SOUTH ATLANTIC.....	1,119	-	32	-	12	1	61	-	141	9	366
Delaware.....	6	-	-	-	-	-	-	-	-	-	1
Maryland.....	148	-	3	-	-	-	9	-	18	-	6
Dist. of Columbia.*	1	-	2	-	-	-	1	-	-	-	1
Virginia.....	478	-	4	-	3	-	10	-	44	2	126
West Virginia.....	191	-	2	-	-	-	-	-	2	1	48
North Carolina.....	18	-	2	-	3	-	4	-	39	-	12
South Carolina.....	132	-	4	-	-	-	3	-	9	-	-
Georgia.....	11	-	3	-	4	-	15	-	26	3	73
Florida.....	134	-	12	-	2	1	19	-	3	3	99
EAST SOUTH CENTRAL...	1,442	-	15	-	8	2	42	1	53	9	648
Kentucky.....	236	-	1	-	1	-	9	-	10	6	338
Tennessee.....	998	-	6	-	5	1	18	1	37	3	278
Alabama.....	136	-	5	-	-	-	2	-	4	-	25
Mississippi.....	72	-	3	-	2	1	13	-	2	-	7
WEST SOUTH CENTRAL...	749	-	29	-	47	2	50	-	29	6	465
Arkansas.....	27	-	5	-	15	1	18	-	6	-	61
Louisiana.....	13	-	10	-	7	-	6	-	1	1	45
Oklahoma.....	54	-	-	-	9	1	15	-	13	1	119
Texas.....	655	-	14	-	16	-	11	-	9	4	240
MOUNTAIN.....	2,022	-	1	1	9	-	16	-	5	1	84
Montana.....	39	-	-	-	-	-	-	-	-	-	-
Idaho.....	88	-	-	-	-	-	-	-	1	-	-
Wyoming.*	426	-	-	-	1	-	1	-	-	-	3
Colorado.....	1,051	-	-	-	3	-	2	-	4	-	4
New Mexico.....	177	-	-	-	-	-	8	-	-	1	36
Arizona.....	88	-	1	-	-	-	4	-	-	-	37
Utah.....	153	-	-	1	5	-	-	-	-	-	1
Nevada.....	-	-	-	-	-	-	1	-	-	-	3
PACIFIC.....	1,343	-	20	-	4	-	53	-	1	5	316
Washington.....	485	-	1	-	-	-	2	-	-	-	2
Oregon.....	95	-	1	-	1	-	5	-	-	-	6
California.....	645	-	18	-	3	-	46	-	1	5	308
Alaska.....	20	-	-	-	-	-	-	-	-	-	-
Hawaii.*	98	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	---	---	12	---	-	---	4	---	-	---	19

\*Delayed reports: SST: Me. 4, D.C. 41, Wyo. 322, Hawaii 133



## TYPHOID FEVER - (Continued from page 427)

ending October 5 when only two cases were reported.<sup>1</sup> Most of the cases were in the cities of Bayamo and Holquin in Oriente Province (Figure 1). A physician, who had worked in two hospitals in Bayamo for 2 years prior to his arrival on October 8, 1968, in Miami, Florida, reported that the source of the epidemic was a contaminated town water supply. He reported that during the epidemic, about 90 percent of the approximately 123,000 residents in Bayamo had been immunized against typhoid fever.

Figure 1  
PROVINCE IN CUBA EXPERIENCING  
TYPHOID FEVER EPIDEMIC



Since approximately 900 Cuban refugees enter the United States each week, during the epidemic, the following control measures were established at the Cuban Refugee Emergency Center (CREC) in Miami: (1) a rectal swab culture was performed for each refugee arriving from Oriente Province; (2) typhoid vaccine was administered to these refugees; (3) the refugee was asked to report immediately to a physician if he became ill; and (4) the health department at the refugee's destination was notified that the person was from an area experiencing an epidemic of typhoid fever and of the medical treatment administered at the CREC. In addition, personnel at the CREC were given typhoid boosters.

As of October 10, all 600 rectal swab cultures performed at the CREC were negative for *Salmonella typhi* and no cases of typhoid fever had occurred among the refugees or their contacts within the United States. On October 15, because no cases had occurred and because arriving refugees no longer reported the epidemic, the control measures at the CREC were lifted.

(Reported by Dr. Jack McKenzie, Director, and Dr. Antonio Tagle, Assistant Director, Medical Services, Cuban Refugee Emergency Center, Miami; Dr. William R. Stinger, Acting-Director, Dr. Milton S. Saslaw, Assistant County Health Director, Disease Control, and Dr. Myriam A. Bosch, Epidemiologist, Dade County Department of Public Health; Dr. E. Charlton Prather, Director, Division of Epidemiology, and Mr. Robert A. Graves, Director, Miami Regional Laboratory, Florida State Board of Health; Medical Officer, Foreign Quarantine Program, NCDC, assigned to the Cuban Refugee Program; and an EIS Officer.)

## Reference:

<sup>1</sup>Pan American Sanitary Bureau Regional Office of the World Health Organization: *Weekly Epidemiological Report*. 40(46):260.

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ATTN: THE EDITOR  
MORBIDITY AND MORTALITY WEEKLY REPORT

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 ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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