



# 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

DEATH FROM CHICKENPOX - Tacoma, Washington

On Oct. 10, 1970, a 6-year-old boy became ill with a temperature of 102.0°F. and a rash, located primarily on the face. On October 12, because of increasing irritability, the boy was taken to the emergency room at a general hospital, where he was reported to be "thrashing about irrationally" and to have a "scattered rash." The clinical impression was chickenpox with possible encephalitis. The child was treated with IM valium and atarax and discharged. He became increasingly lethargic and at 7:00 the following morning was admitted to a children's hospital, where he died at 11:52 A.M. The clinical diagnosis was chickenpox with encephalitis.

Postmortem examination revealed lesions concentrated on the face and upper trunk, with some scattered on the lower trunk and the extremities. No definite vaccination

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scar could be seen, though there was an area in the left deltoid region which could have been the scar. The lesions were superficial and varied from 2 to 10mm in diameter. It was not possible to detect differences in staging of the lesions, since their tops had been removed for pathological examination at the Washington State Division of Health Laboratory and CDC. Histologic slides of the lesions revealed no hemorrhage, but did show many cells with apparent intranuclear inclusions bodies. Scabs, vesicular fluid,

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

DISEASE	47th WEEK ENDED		MEDIAN 1965 - 1969	CUMULATIVE, FIRST 47 WEEKS		
	November 28, 1970	November 22, 1969		1970	1969	MEDIAN 1965 - 1969
Aseptic meningitis . . . . .	139	67	48	5,688	3,235	2,785
Brucellosis . . . . .	4	5	5	194	213	220
Diphtheria . . . . .	6	8	10	401	173	173
Encephalitis, primary:						
Arthropod-borne & unspecified . . . . .	14	25	25	1,433	1,187	1,470
Encephalitis, post-infectious . . . . .	1	2	7	352	276	610
Hepatitis, serum . . . . .	119	101	774	6,619	4,804	36,890
Hepatitis, infectious . . . . .	1,032	1,124		51,130	43,333	
Malaria . . . . .	79	83	30	3,145	2,849	1,890
Measles (rubeola) . . . . .	508	335	335	42,949	22,585	60,484
Meningococcal infections, total . . . . .	45	46	46	2,225	2,671	2,671
Civilian . . . . .	23	45	42	1,973	2,459	2,459
Military . . . . .	22	1	1	252	212	197
Mumps . . . . .	2,273	1,821	---	90,725	78,805	---
Poliomyelitis, total . . . . .	---	---	2	26	17	56
Paralytic . . . . .	---	---	1	26	16	42
Rubella (German measles) . . . . .	405	491	---	53,109	52,639	---
Tetanus . . . . .	3	1	5	122	148	176
Tularemia . . . . .	3	6	2	142	135	165
Typhoid fever . . . . .	10	13	11	321	304	365
Typhus, tick-borne (Rky. Mt. spotted fever) . . . . .	3	8	3	336	445	273
Rabies in animals . . . . .	51	48	51	2,733	3,024	3,669

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: . . . . .	2	Psittacosis: . . . . .	33
Botulism: . . . . .	12	Rabies in Man: . . . . .	2
Leprosy: * Calif.-2 . . . . .	109	Rubella congenital syndrome: * Calif.-1, Mich.-2 . . . . .	61
Leptospirosis: . . . . .	41	Trichinosis: Ida.-6 . . . . .	95
Plague: . . . . .	12	Typhus, murine: . . . . .	32

\*Delayed Reports: Leprosy: Hawaii 1  
 Rubella congenital syndrome: Hawaii 1

## CHICKENPOX - (Continued from front page)

serum, and brain sections were examined at CDC, and swabs of bases of lesions at the State Health Laboratory. No virus particles were seen under the electron microscope because the initial skin specimens were inadequate. The liver was grossly enlarged and microscopic examination showed it to be congested with blood; no fatty infiltration of the cells was noted. Because of the presence of gastric and subconjunctival hemorrhages and the fulminating course, smallpox was considered in the differential diagnosis.

The child had a history of smallpox vaccination at the age of 1. A review of the child's contacts indicated no known contact with foreign travelers during the 3 weeks prior to the illness. However, 2 weeks prior to the illness, the child was exposed to several friends and relatives from various parts of the country who attended the funeral of his father. Inquiry made through the State health departments concerned failed to reveal any unusual exanthematous disease. A review of local death certificates revealed no

unexplained febrile deaths or deaths from rash-like disease nor did an investigation of the family and the neighborhood uncover any unexplained febrile or rash illness. Also, a check on school attendance and absenteeism failed to identify any contact with chickenpox.

The diagnosis of smallpox was ruled out on October 16, when examination of additional skin specimens under the electron microscope identified virus particles of the herpes-varicella group. No virus was isolated from any specimens. Two weeks after the child's death, two younger siblings developed typical clinical varicella.

(Reported by Jay Johnson, M.D., Pathology Resident, Charles Reberger, M.D., Pathologist, Tacoma General Hospital; Harlan McNutt, M.D., M.P.H., Health Officer, Tacoma Pierce County Health Department; Byron J. Francis, M.D., M.P.H., Chief, Office of Epidemiology, Washington State Division of Health; the Smallpox Eradication Program, Domestic Branch, CDC; and an EIS Officer.)

INTERNATIONAL NOTES  
CHOLERA

The countries reporting cholera cases to the World Health Organization are listed below in Table 1. The addition of the Gaza Strip, Mali, and Togo to the official WHO list in the past week indicates that cholera has continued to spread in the Middle East and West Africa.

Of particular interest is a single case of El tor cholera in France that occurred November 4. The patient, a 65-year-old woman, had never left her home village and had no known contact with travelers from cholera infected countries. She consumed only produce from her own garden and

Table 1  
Countries Infected with Cholera - 1970 (1)

Geographic Area	Currently Infected	Previously Infected	Imported Cases Only
I. Asia	Burma	Singapore	Japan
	India	Malaysia	
	Indonesia	South Korea	
	Nepal	Brunei	
	Pakistan		
	Philippines		
II. Middle East	Vietnam		
	Syria	Jordan	
	Trucial Oman (Dubai)	Lebanon	
	Gaza Strip	Saudi Arabia	
		Israel	
III. Africa		Turkey	
	Ethiopia	Kuwait	
	Ghana		
	Ivory Coast	Libya	
	Liberia	Tunisia	
	Mali		
	Sierra Leone		
	Togo		
Guinea			
IV. Europe		U.S.S.R.	Wales (U.K.)
		Czechoslovakia	

there was no history of human waste being used as fertilizer. The water was reported to have met drinking water standards. No secondary cases were identified among family contacts and medical and hospital contacts. No satisfactory epidemiologic explanation was found for this isolated case, and the local area of France should not be considered infected (2).

(Reported by the Bacterial Diseases Branch, Epidemiology Program, and the Foreign Quarantine Program, CDC.)

#### Editorial Note:

Although five cases of imported cholera were reported in Japan and one case in Wales (U.K.), cholera is not expected to be a problem in either of these countries because of their advanced water sanitation and sewage disposal facilities.

#### References:

1. Weekly Epidemiological Record, WHO, Vol. 45, Nos. 1-48, 1970
2. Weekly Epidemiological Record, WHO, Vol. 45, No. 48, Nov. 27, 1970

### EPIDEMIOLOGIC NOTES AND REPORTS GIARDIASIS IN TRAVELERS

In February and March 1970, 23 of 80 persons (28.7 percent) who had accompanied the United States Olympic Boxing Team on a tour of the Soviet Union became ill with giardiasis. The most common symptoms were diarrhea, abdominal cramps, weakness, nausea, and anorexia. Vomiting, fever, and steatorrhea were also reported. *Giardia lamblia* was recovered in nine cases and in two people who were asymptomatic. Treatment with quinacrine produced prompt relief of symptoms. One person had cysts of *Entameba histolytica* in addition to *G. lamblia*, and another person had acute amebic dysentery. There were three other cases of possible amebiasis.

The party had left New York on February 6 and arrived in Moscow on February 7. On February 12 the group separated, with 42 persons accompanying the boxing team to Minsk and 38 traveling to Leningrad. They were reunited in Moscow on February 18, and most of the members returned to the United States on February 22, with stopovers in Copenhagen and London.

Epidemiological evidence indicates that the infection was probably due to a common source in Leningrad (Table 2:  $X^2 = 22.4$ ,  $p < 0.0005$ ). The 38 people who had visited this city stayed at the same hotel, where they ate most of their meals. Water appeared to be the vehicle of infection, but food could not be eliminated, since detailed food histories were not obtainable. The incubation period was also diffi-

cult to calculate, because several persons experienced gastrointestinal difficulties during the trip, while others became ill after their return home.

Other groups recently visiting the Soviet Union, including university students and members of the National Academy of Sciences, have reported gastrointestinal illnesses with isolations of *G. lamblia*. More epidemiological investigations are therefore being conducted.

(Reported by Department of Medical Services, U.S. State Department and Parasitic Diseases Branch, Epidemiology Program, CDC.)

#### Editorial Note:

Common source epidemics of giardiasis are uncommon, and have been well-documented and reported only once in English literature (1). Although *G. lamblia* is found in apparently healthy or asymptomatic persons, the pathogenic nature of this organism and the potential problems it can cause in travelers have not yet been fully appreciated. The illness reported here is different from the so-called "traveler's diarrhea", which is of uncertain etiology. In contrast to giardiasis, "traveler's diarrhea" usually occurs early in a trip and persists for only a few days.

#### Reference:

1. Moore GT, Cross WM, McGuire D, et al: Epidemic giardiasis at a ski resort. *New Eng J Med* 281:402-407, 1969

Table 2  
Attack Rates of Giardiasis by Cities Visited

City	Number Visiting	Number Ill	Percent Ill	Number Not Visiting	Number Ill	Percent Ill
Moscow	80	23	28.7	0	0	0
Minsk	37	2	5.4	43	21	48.9
Kiev	2	1	50.0	78	22	28.2
Leningrad	38	21	55.3	42	2	4.8
Copenhagen	50	14	28.0	30	9	30.0
London	37	11	29.7	43	12	27.9
Other	4	0	0	76	23	30.3

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

NOVEMBER 28, 1970 AND NOVEMBER 22, 1969 (47th 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.....	139	4	6	14	25	1	119	1,032	1,124	79	3,145
NEW ENGLAND.....	4	-	-	1	4	-	5	112	125	1	82
Maine.....	-	-	-	-	-	-	-	16	12	-	10
New Hampshire.....	-	-	-	-	1	-	-	4	9	-	6
Vermont.....	-	-	-	-	-	-	-	8	5	-	5
Massachusetts.....	3	-	-	1	2	-	3	38	62	-	39
Rhode Island.....	1	-	-	-	-	-	-	19	23	-	9
Connecticut.....	-	-	-	-	1	-	2	27	14	1	13
MIDDLE ATLANTIC.....	19	1	-	5	5	-	40	237	210	3	304
New York City.....	12	-	-	-	-	-	18	69	40	-	40
New York, Up-State...	-	-	-	2	2	-	2	46	40	2	89
New Jersey.....	2	1	-	1	3	-	12	50	53	-	75
Pennsylvania.....	5	-	-	2	-	-	8	72	77	1	100
EAST NORTH CENTRAL.....	13	1	-	3	4	-	14	129	201	4	189
Ohio.....	8	-	-	1	1	-	1	21	75	-	31
Indiana.....	-	-	-	-	-	-	-	8	11	-	24
Illinois.....	2	1	-	2	-	-	5	24	43	2	52
Michigan.....	3	-	-	-	1	-	8	67	65	2	82
Wisconsin.....	-	-	-	-	2	-	-	9	7	-	-
WEST NORTH CENTRAL.....	19	-	1	1	-	-	2	53	28	17	316
Minnesota.....	7	-	-	-	-	-	-	5	3	10	32
Iowa.....	-	-	-	-	-	-	-	4	6	-	25
Missouri.....	-	-	-	-	-	-	-	5	11	1	32
North Dakota.....	-	-	-	-	-	-	-	8	-	-	3
South Dakota.....	-	-	1	-	-	-	-	-	1	-	2
Nebraska.....	-	-	-	1	-	-	-	1	-	1	7
Kansas.....	12	-	-	-	-	-	2	30	7	5	215
SOUTH ATLANTIC.....	15	-	-	1	5	-	13	124	108	11	576
Delaware.....	-	-	-	1	-	-	2	1	1	-	2
Maryland.....	3	-	-	-	1	-	4	16	11	3	76
Dist. of Columbia...	1	-	-	-	-	-	-	-	-	-	2
Virginia.....	2	-	-	-	1	-	2	17	9	-	79
West Virginia.....	-	-	-	-	-	-	-	8	4	-	11
North Carolina.....	3	-	-	-	-	-	2	20	24	6	216
South Carolina.....	1	-	-	-	-	-	-	9	5	-	49
Georgia.....	-	-	-	-	-	-	-	14	22	2	90
Florida.....	5	-	-	-	3	-	3	39	32	-	51
EAST SOUTH CENTRAL.....	29	1	-	-	1	-	-	66	98	14	192
Kentucky.....	22	1	-	-	-	-	-	26	37	14	157
Tennessee.....	6	-	-	-	1	-	-	32	32	-	-
Alabama.....	1	-	-	-	-	-	-	7	24	-	24
Mississippi.....	-	-	-	-	-	-	-	1	5	-	11
WEST SOUTH CENTRAL.....	-	1	5	-	4	-	5	39	48	5	574
Arkansas.....	-	-	-	-	-	-	-	3	-	-	15
Louisiana.....	-	-	1	-	1	-	3	5	10	5	46
Oklahoma.....	-	-	-	-	3	-	-	7	4	-	91
Texas.....	-	1	4	-	-	-	2	24	34	-	422
MOUNTAIN.....	1	-	-	-	1	-	4	41	45	9	329
Montana.....	-	-	-	-	-	-	-	5	2	-	10
Idaho.....	-	-	-	-	-	-	-	10	1	-	7
Wyoming.....	-	-	-	-	-	-	-	-	6	-	-
Colorado.....	-	-	-	-	-	-	3	14	17	9	288
New Mexico.....	-	-	-	-	1	-	-	1	11	-	10
Arizona.....	1	-	-	-	-	-	-	9	8	-	10
Utah.....	-	-	-	-	-	-	1	2	-	-	4
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	39	-	-	3	1	1	36	231	261	15	583
Washington.....	-	-	-	1	-	-	2	32	31	-	47
Oregon.....	-	-	-	-	-	-	1	21	20	1	22
California.....	33	-	-	2	1	1	33	166	199	10	373
Alaska.....	-	-	-	-	-	-	-	3	1	-	1
Hawaii.....	6	-	-	-	-	-	-	9	10	4	140
Puerto Rico.....	-	-	-	-	-	-	4	16	10	-	10
Virgin Islands.....	-	-	-	-	-	-	-	-	2	-	-

\*Delayed reports: Aseptic Meningitis: Ariz. 1, Hawaii 1

Hepatitis, serum: P.R. 2

Hepatitis, infectious: Minn. 2, Wash. 3, Hawaii 3, P.R. 29

Malaria: Wash. 1

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

NOVEMBER 28, 1970 AND NOVEMBER 22, 1969 (47th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	1970	Cumulative		1970	Cumulative		1970	Cum. 1970	Total 1970	Paralytic	
		1970	1969		1970	1969				1970	1970
UNITED STATES.....	508	42,949	22,585	45	2,225	2,671	2,273	90,725	-	-	26
NEW ENGLAND.....	30	1,009	1,160	2	98	106	300	10,394	-	-	-
Maine.....	16	277	9	-	5	7	-	753	-	-	-
New Hampshire.....	-	61	244	-	9	4	4	386	-	-	-
Vermont.....	-	8	3	-	8	-	11	680	-	-	-
Massachusetts.....	12	440	235	-	39	41	60	3,140	-	-	-
Rhode Island.....	-	120	27	-	6	14	140	2,053	-	-	-
Connecticut.....	2	103	642	2	31	40	85	3,382	-	-	-
MIDDLE ATLANTIC.....	37	5,104	7,768	3	406	444	221	8,569	-	-	-
New York City.....	13	1,004	4,994	-	87	85	13	2,971	-	-	-
New York, Up-State...	4	336	615	1	78	86	NN	NN	-	-	-
New Jersey.....	5	1,725	1,019	-	164	171	39	2,376	-	-	-
Pennsylvania.....	15	2,039	1,140	2	77	102	169	3,222	-	-	-
EAST NORTH CENTRAL.....	108	10,257	2,635	3	257	366	847	25,141	-	-	2
Ohio.....	1	3,872	480	-	93	134	180	4,395	-	-	-
Indiana.....	2	276	478	-	22	48	30	2,192	-	-	-
Illinois.....	25	3,161	686	-	65	52	29	1,947	-	-	-
Michigan.....	5	1,815	352	3	65	105	305	6,384	-	-	1
Wisconsin.....	75	1,133	639	-	12	27	303	10,223	-	-	1
WEST NORTH CENTRAL.....	7	3,914	1,060	5	117	131	94	4,914	-	-	1
Minnesota*.....	-	40	9	-	19	29	15	511	-	-	-
Iowa.....	1	1,170	338	1	14	20	67	3,062	-	-	-
Missouri.....	-	1,276	31	3	62	53	5	403	-	-	1
North Dakota.....	1	321	44	-	5	2	4	345	-	-	-
South Dakota.....	2	98	3	-	1	1	-	42	-	-	-
Nebraska.....	3	940	627	-	8	10	3	397	-	-	-
Kansas.....	-	69	8	1	8	16	-	154	-	-	-
SOUTH ATLANTIC.....	41	7,422	2,669	15	443	467	152	9,803	-	-	-
Delaware.....	-	267	403	-	3	13	10	357	-	-	-
Maryland.....	6	1,387	81	2	45	41	19	1,045	-	-	-
Dist. of Columbia...	-	345	32	-	3	9	2	209	-	-	-
Virginia.....	18	2,062	912	-	46	57	17	2,158	-	-	-
West Virginia.....	4	329	221	-	12	24	18	2,447	-	-	-
North Carolina.....	9	909	330	3	96	88	NN	NN	-	-	-
South Carolina.....	-	608	132	-	46	58	14	941	-	-	-
Georgia.....	1	18	2	3	40	77	-	3	-	-	-
Florida.....	3	1,497	556	7	152	100	72	2,643	-	-	-
EAST SOUTH CENTRAL.....	33	1,625	117	-	159	171	127	5,350	-	-	-
Kentucky.....	10	908	67	-	58	55	40	1,928	-	-	-
Tennessee.....	2	424	20	-	66	70	69	3,030	-	-	-
Alabama.....	21	192	6	-	24	27	11	336	-	-	-
Mississippi.....	-	101	24	-	11	19	7	56	-	-	-
WEST SOUTH CENTRAL.....	150	8,650	4,931	3	277	354	149	8,403	-	-	21
Arkansas.....	-	30	16	-	23	32	2	138	-	-	-
Louisiana.....	-	174	125	1	68	97	2	42	-	-	-
Oklahoma.....	35	766	142	-	21	36	48	2,694	-	-	-
Texas.....	115	7,680	4,648	2	165	189	97	5,529	-	-	21
MOUNTAIN.....	15	1,722	1,090	-	50	56	66	4,125	-	-	1
Montana.....	-	101	92	-	1	8	2	793	-	-	-
Idaho.....	3	108	90	-	7	13	2	100	-	-	-
Wyoming.....	-	11	-	-	2	-	1	38	-	-	-
Colorado.....	2	191	141	-	17	10	44	1,464	-	-	1
New Mexico.....	8	265	279	-	2	8	-	758	-	-	-
Arizona.....	2	989	476	-	15	10	14	841	-	-	-
Utah.....	-	36	11	-	5	5	3	131	-	-	-
Nevada.....	-	21	1	-	1	2	-	-	-	-	-
PACIFIC.....	87	3,246	1,155	14	418	576	317	14,026	-	-	1
Washington.....	18	662	67	-	46	57	118	5,215	-	-	-
Oregon.....	21	410	200	-	30	20	33	1,211	-	-	-
California.....	48	1,844	830	14	339	478	140	5,731	-	-	1
Alaska.....	-	141	13	-	-	11	2	397	-	-	-
Hawaii.....	-	189	45	-	3	10	24	1,472	-	-	-
Puerto Rico*.....	-	968	1,892	-	5	19	12	855	-	-	-
Virgin Islands.....	-	8	47	-	3	-	-	3	-	-	-

Delayed reports: Measles: Wash. 13, P.R. 1  
 Meningococcal infections: Minn. 1  
 Mumps: Wash. 30, Hawaii 82, P.R. 16

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
NOVEMBER 28, 1970 AND NOVEMBER 22, 1969 (47th 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.....	405	53,109	3	122	3	142	10	321	3	336	51	2,733
NEW ENGLAND.....	36	2,687	-	4	-	1	1	11	-	-	2	106
Maine.....	19	483	-	-	-	-	-	-	-	-	1	45
New Hampshire.....	1	154	-	-	-	-	-	-	-	-	-	1
Vermont.....	1	61	-	-	-	-	-	-	-	-	1	51
Massachusetts.....	10	1,262	-	2	-	1	1	9	-	-	-	4
Rhode Island.....	3	124	-	-	-	-	-	-	-	-	-	1
Connecticut.....	2	603	-	2	-	-	-	2	-	-	-	4
MIDDLE ATLANTIC.....	17	4,164	-	14	-	2	-	59	-	14	7	245
New York City.....	4	657	-	7	-	-	-	20	-	-	-	-
New York, Up-State..	-	461	-	3	-	1	-	19	-	6	7	229
New Jersey.....	2	885	-	3	-	-	-	10	-	4	-	-
Pennsylvania.....	11	2,161	-	1	-	1	-	10	-	4	-	16
EAST NORTH CENTRAL....	48	10,988	1	23	1	21	3	44	-	10	8	220
Ohio.....	3	2,109	-	2	-	2	1	16	-	9	4	55
Indiana.....	2	2,015	-	8	-	14	1	4	-	-	1	24
Illinois.....	3	1,752	1	5	1	3	1	10	-	1	-	60
Michigan.....	22	2,888	-	8	-	-	-	12	-	-	-	26
Wisconsin.....	18	2,224	-	-	-	2	-	2	-	-	3	55
WEST NORTH CENTRAL....	6	3,417	-	5	-	31	-	9	-	4	11	571
Minnesota.....	-	124	-	1	-	1	-	1	-	-	4	113
Iowa.....	4	2,065	-	2	-	-	-	1	-	1	-	114
Missouri.....	-	442	-	1	-	27	-	3	-	3	4	106
North Dakota.....	-	154	-	-	-	1	-	2	-	-	3	46
South Dakota.....	-	1	-	1	-	1	-	-	-	-	-	85
Nebraska.....	2	580	-	-	-	-	-	2	-	-	-	6
Kansas.....	-	51	-	-	-	1	-	-	-	-	-	101
SOUTH ATLANTIC.....	163	6,718	-	29	-	16	4	46	1	224	15	549
Delaware.....	-	46	-	-	-	-	-	-	-	5	-	-
Maryland.....	-	327	-	1	-	-	2	13	-	23	-	3
Dist. of Columbia...	-	22	-	1	-	-	-	1	-	-	-	-
Virginia.....	6	743	-	2	-	6	-	8	-	59	1	209
West Virginia.....	5	1,397	-	-	-	2	-	-	-	5	5	140
North Carolina.....	-	45	-	3	-	4	-	3	-	88	-	3
South Carolina.....	2	658	-	1	-	-	2	3	-	35	-	-
Georgia.....	-	-	-	6	-	3	-	8	1	9	7	109
Florida.....	150	3,480	-	15	-	1	-	10	-	-	2	85
EAST SOUTH CENTRAL....	26	2,917	2	16	-	11	-	38	-	38	1	210
Kentucky.....	2	963	1	2	-	2	-	10	-	3	1	115
Tennessee.....	19	1,491	1	6	-	9	-	18	-	22	-	57
Alabama.....	5	367	-	6	-	-	-	8	-	10	-	35
Mississippi.....	-	96	-	2	-	-	-	2	-	3	-	3
WEST SOUTH CENTRAL....	35	9,118	-	16	-	36	-	34	1	38	4	429
Arkansas.....	-	35	-	4	-	18	-	10	-	6	1	72
Louisiana.....	-	155	-	4	-	5	-	10	-	1	2	67
Oklahoma...*	-	821	-	-	-	6	-	1	-	24	-	87
Texas.....	35	8,107	-	8	-	7	-	13	1	7	1	203
MOUNTAIN.....	16	2,095	-	-	-	14	-	17	-	6	-	84
Montana.....	4	334	-	-	-	3	-	1	-	1	-	1
Idaho.....	1	200	-	-	-	-	-	-	-	2	-	-
Wyoming.....	-	134	-	-	-	-	-	2	-	1	-	3
Colorado.....	6	423	-	-	-	-	-	4	-	2	-	34
New Mexico.....	-	229	-	-	-	-	-	6	-	-	-	16
Arizona.....	5	609	-	-	-	-	-	2	-	-	-	14
Utah.....	-	166	-	-	-	11	-	2	-	-	-	2
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	14
PACIFIC.....	58	11,005	-	15	2	10	2	63	1	2	3	319
Washington*.....	15	4,861	-	2	-	2	-	4	-	-	-	9
Oregon.....	6	946	-	3	-	2	-	1	-	-	-	4
California.....	36	4,869	-	10	2	6	2	55	1	2	3	295
Alaska.....	-	107	-	-	-	-	-	2	-	-	-	11
Hawaii...†.....	1	222	-	-	-	-	-	1	-	-	-	-
Puerto Rico*.....	-	27	-	14	-	-	-	5	-	-	2	44
Virgin Islands.....	-	1	-	-	-	-	-	1	-	-	-	-

\*Delayed reports: Rubella: Wash. 7, Hawaii 4  
Tetanus: P.R. 1  
RMSF: Okla. 1

Week No. 47  
**TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED NOVEMBER 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		
<b>NEW ENGLAND:</b>					<b>SOUTH ATLANTIC:</b>				
Boston, Mass.-----	667	410	32	20	Atlanta, Ga.-----	1,112	611	36	48
Bridgeport, Conn.-----	159	97	4	3	Baltimore, Md.-----	141	68	1	5
Cambridge, Mass.-----	31	16	2	-	Charlotte, N. C.-----	199	113	3	13
Fall River, Mass.-----	39	24	6	1	Jacksonville, Fla.-----	40	19	4	2
Hartford, Conn.-----	19	15	-	-	Miami, Fla.-----	63	34	1	1
Lowell, Mass.-----	57	30	2	2	Norfolk, Va.-----	75	42	2	3
Lynn, Mass.-----	35	27	-	-	Richmond, Va.-----	35	16	-	3
New Bedford, Mass.-----	22	14	2	-	Savannah, Ga.-----	92	46	5	3
New Haven, Conn.-----	27	17	1	1	St. Petersburg, Fla.-----	19	9	2	-
Providence, R. I.-----	53	33	1	3	Tampa, Fla.-----	98	81	3	1
Somerville, Mass.-----	77	37	4	8	Washington, D. C.-----	53	35	3	2
Springfield, Mass.-----	14	9	1	-	Wilmington, Del.-----	254	126	11	9
Waterbury, Conn.-----	36	24	4	-		43	22	1	6
Worcester, Mass.-----	32	24	-	1	<b>EAST SOUTH CENTRAL:</b>	544	302	27	29
	66	43	5	1	Birmingham, Ala.-----	100	50	2	5
<b>MIDDLE ATLANTIC:</b>					Chattanooga, Tenn.-----	35	20	3	4
Albany, N. Y.-----	3,014	1,820	115	100	Knoxville, Tenn.-----	42	26	2	-
Allentown, Pa.-----	60	28	3	1	Louisville, Ky.-----	136	73	11	10
Buffalo, N. Y.-----	48	34	5	3	Memphis, Tenn.-----	86	48	-	-
Camden, N. J.-----	105	58	6	5	Mobile, Ala.-----	20	14	1	-
Elizabeth, N. J.-----	34	19	2	4	Montgomery, Ala.-----	37	21	5	5
Erie, Pa.-----	23	14	1	-	Nashville, Tenn.-----	88	50	3	5
Jersey City, N. J.-----	53	28	1	3					
Newark, N. J.-----	47	30	2	2	<b>WEST SOUTH CENTRAL:</b>	979	502	37	90
New York City, N. Y.†	66	36	6	1	Austin, Tex.-----	27	16	5	-
Paterson, N. J.-----	1,686	1,023	58	49	Baton Rouge, La.-----	30	18	4	3
Philadelphia, Pa.-----	27	15	1	3	Corpus Christi, Tex.-----	27	9	2	3
Pittsburgh, Pa.-----	296	169	4	14	Dallas, Tex.-----	140	67	1	14
Reading, Pa.-----	158	83	9	9	El Paso, Tex.-----	34	14	1	5
Rochester, N. Y.-----	49	38	3	-	Fort Worth, Tex.-----	58	26	-	5
Schenectady, N. Y.-----	127	91	8	4	Houston, Tex.-----	156	75	2	19
Scranton, Pa.-----	23	15	1	-	Little Rock, Ark.-----	52	21	-	2
Syracuse, N. Y.-----	48	32	-	-	New Orleans, La.-----	183	101	7	7
Trenton, N. J.-----	68	47	1	1	Oklahoma City, Okla.-----	88	44	1	22
Utica, N. Y.-----	34	21	1	1	San Antonio, Tex.-----	77	47	2	5
Yonkers, N. Y.-----	27	17	3	-	Shreveport, La.-----	66	41	10	4
	35	22	-	-	Tulsa, Okla.-----	41	23	2	1
<b>EAST NORTH CENTRAL:</b>					<b>MOUNTAIN:</b>	397	212	21	22
Akron, Ohio-----	2,404	1,409	72	105	Albuquerque, N. Mex.-----	26	14	7	1
Canton, Ohio-----	58	37	-	2	Colorado Springs, Colo.-----	31	18	1	3
Chicago, Ill.-----	38	26	4	1	Denver, Colo.-----	89	42	7	7
Cincinnati, Ohio-----	700	390	15	34	Ogden, Utah-----	25	16	1	1
Cleveland, Ohio-----	161	100	4	7	Phoenix, Ariz.-----	97	58	-	2
Columbus, Ohio-----	168	95	2	9	Pueblo, Colo.-----	20	10	2	3
Dayton, Ohio-----	138	74	4	9	Salt Lake City, Utah-----	46	21	-	2
Detroit, Mich.-----	56	29	2	1	Tucson, Ariz.-----	63	33	3	3
Evansville, Ind.-----	297	160	5	6					
Flint, Mich.-----	40	24	2	-	<b>PACIFIC:</b>	1,516	920	32	36
Fort Wayne, Ind.-----	53	38	1	1	Berkeley, Calif.-----	18	13	-	-
Gary, Ind.-----	38	26	1	2	Fresno, Calif.-----	49	21	-	3
Grand Rapids, Mich.-----	38	22	3	1	Glendale, Calif.-----	34	19	-	-
Indianapolis, Ind.-----	60	40	10	2	Honolulu, Hawaii††	44	21	1	2
Madison, Wis.-----	139	79	2	8	Long Beach, Calif.-----	83	52	-	1
Milwaukee, Wis.-----	38	19	6	4	Los Angeles, Calif.-----	497	304	9	3
Peoria, Ill.-----	103	74	2	2	Oakland, Calif.-----	67	42	2	2
Rockford, Ill.-----	35	21	-	2	Pasadena, Calif.-----	30	21	-	-
South Bend, Ind.-----	40	24	5	3	Portland, Oreg.-----	171	107	5	8
Toledo, Ohio-----	27	17	1	3	Sacramento, Calif.-----	70	46	4	1
Youngstown, Ohio-----	92	51	-	4	San Diego, Calif.-----	83	57	1	2
	85	63	3	6	San Francisco, Calif.-----	154	80	7	5
<b>WEST NORTH CENTRAL:</b>					San Jose, Calif.-----	34	25	1	-
Des Moines, Iowa-----	713	457	22	43	Seattle, Wash.-----	111	65	-	9
Duluth, Minn.-----	51	36	-	4	Spokane, Wash.-----	45	29	2	-
Kansas City, Kans.-----	19	10	-	5	Tacoma, Wash.-----	26	18	-	-
Kansas City, Mo.-----	38	23	4	-					
Lincoln, Nebr.-----	125	79	-	5	<b>Total</b>	<b>11,346</b>	<b>6,643</b>	<b>394</b>	<b>493</b>
Minneapolis, Minn.-----	14	11	-	1	<b>Expected Number</b>	<b>13,009</b>	<b>7,512</b>	<b>478</b>	<b>557</b>
Omaha, Nebr.-----	96	62	5	5	<b>Cumulative Total</b> (includes reported corrections for previous weeks)	<b>600,977</b>	<b>342,816</b>	<b>23,191</b>	<b>28,630</b>
St. Louis, Mo.-----	88	51	-	4					
St. Paul, Minn.-----	177	120	7	11					
Wichita, Kans.-----	77	47	3	6					
	28	18	3	2					
Las Vegas, Nev.*	13	6	-	-					

\*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.

† Delayed Report for week ended November 21, 1970  
 †† Estimate based on average percent of divisional total

**INTERNATIONAL NOTES  
QUARANTINE MEASURES**

*Changes in the "Supplement - Vaccination Certificate  
Requirements for International Travel,"  
MMWR, Vol. 19, No. 21*

The following changes should be made in the Vaccination Certificate Requirements for International Travel:

**Bulgaria**

Insert: Cholera - And from all countries, any parts of which are infected.

**Czechoslovakia**

In the note concerning cholera, delete: Kuwait and Tunisia.

**Honduras**

Insert: Cholera - And from all countries, any parts of which are infected.

**Southern Rhodesia**

Insert: Cholera - II.

**Union of Soviet Socialist Republics**

In the note concerning cholera, insert: Algeria, Ethiopia, Upper Volta.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 21,000 IS PUBLISHED AT THE CENTER FOR DISEASE CONTROL, ATLANTA, GEORGIA.

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EDITOR      MICHAEL B. GREGG, M.D.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE CENTER FOR DISEASE CONTROL WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CENTER FOR DISEASE CONTROL. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

CENTER FOR DISEASE CONTROL  
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 CDC 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.

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
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