



# Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION  
DATE OF RELEASE: SEPTEMBER 19, 1969 - ATLANTA, GEORGIA 30333

## INTERNATIONAL NOTES TYPHOID FEVER - Europe

From August 20 through September 17, 1969, 51 cases of typhoid fever with two deaths were reported in residents of five European countries who had stayed at a single resort hotel in Hammamet, Tunisia. All 51 persons had stayed at the hotel for 2 to 3 weeks between June 30 and August 5, and all had onset of illness between August 4 and 25. The first case was reported from Hamburg on August 20, following which 22 other cases were reported from the Federal Republic of Germany (Table 1), 15 cases from Switzerland, eight cases from the United Kingdom, three cases from the Netherlands, and two cases from Austria. No secondary spread was noted within these countries.

*Salmonella typhi* was isolated from all cases. Three-fourths of the isolates have been typed and were phage type E1<sub>a</sub>.

## CONTENTS

International Notes	
Typhoid Fever - Europe . . . . .	317
Smallpox - West and Central Africa . . . . .	319
Epidemiologic Notes and Reports	
Outbreak of Syphilis - Multnomah County, Oregon . . . . .	318
Measles - Baltimore, Maryland . . . . .	318
Surveillance Summary	
Complications of Smallpox Vaccination - United States 1968 . . . . .	318

Travel histories were obtained from all 51 persons and showed that all had been at the hotel at the same time, only on July 24. While at the resort, they had taken organized tours from the hotel into neighboring villages where many ate foods in local restaurants. Some persons had camped out in tents and had drunk untreated water from local wells.

Investigation at the hotel by local authorities found no breaks in sanitary procedures in food handling, no  
*(Continued on page 318)*

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

DISEASE	37th WEEK ENDED		MEDIAN 1964 - 1968	CUMULATIVE, FIRST 37 WEEKS		
	September 13, 1969	September 14, 1968		1969	1968	MEDIAN 1964 - 1968
Aseptic meningitis . . . . .	168	220	131	2,031	2,576	1,906
Brucellosis . . . . .	8	5	5	160	153	183
Diphtheria . . . . .	2	14	5	109	134	132
Encephalitis, primary:						
Arthropod-borne & unspecified . . . . .	40	76	76	818	869	1,225
Encephalitis, post-infectious . . . . .	4	6	8	243	375	589
Hepatitis, serum . . . . .	95	89	617	3,707	3,043	27,679
Hepatitis, infectious . . . . .	963	1,010		32,900	31,250	
Malaria . . . . .	79	66	25	2,005	1,579	274
Measles (rubeola) . . . . .	129	115	397	20,387	19,635	189,492
Meningococcal infections, total . . . . .	29	31	26	2,375	2,030	2,044
Civilian . . . . .	29	29	---	2,168	1,851	---
Military . . . . .	---	2	---	207	179	---
Mumps . . . . .	449	644	---	68,190	125,052	---
Poliomyelitis, total . . . . .	2	2	---	12	43	44
Paralytic . . . . .	1	2	---	10	43	43
Rubella (German measles) . . . . .	231	318	---	49,021	43,912	---
Streptococcal sore throat & scarlet fever . . . . .	4,240	4,751	4,261	305,982	305,246	305,246
Tetanus . . . . .	6	6	6	103	112	155
Tularemia . . . . .	5	4	6	108	142	142
Typhoid fever . . . . .	6	19	14	205	261	291
Typhus, tick-borne (Rky. Mt. spotted fever) . . . . .	8	9	9	367	238	225
Rabies in animals . . . . .	50	60	82	2,524	2,558	3,212

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: . . . . .	3	Rabies in man: . . . . .	1
Botulism: . . . . .	11	Rubella congenital syndrome: . . . . .	7
Leptospirosis: Calif.-2, Ga.-1, Ohio-1 . . . . .	54	Trichinosis: R.I.-2 . . . . .	158
Plague: . . . . .	3	Typhus, murine: . . . . .	34
Psittacosis: Wis.-1 . . . . .	30	Poliomyelitis, non-paralytic: . . . . .	1
		Poliomyelitis, unspecified: Ariz.-1 . . . . .	1

## TYPHOID FEVER - (Continued from front page)

Table 1  
Distribution within Germany of 23 Cases

Location	Number of Cases
North Rhine-Westphalia	15
Hamburg	3
Bavaria	2
Berlin	1
Rhineland-Palatinate	1
Baden-Württemberg	1

contamination of drinking water, and no previous reports of illness compatible with typhoid fever. The only ques-

tionable practice was the use of untreated sewage water for watering the lawn. It was suggested that the source of infection might have been the swimming pool which might have been contaminated by guests who had walked on the wet grass and then entered the pool; however, some of the ill persons denied swimming at the hotel. The source of infection for this outbreak remains undetermined. (Reported by the Foreign Quarantine Program, NCDC; Professor Werner Anders, Director, Epidemiology Department, Bundesgesundheitsamt, Berlin, Federal Republic of Germany; and a Medical Officer, Foreign Quarantine Program, London.)

## EPIDEMIOLOGIC NOTES AND REPORTS

## OUTBREAK OF SYPHILIS - Multnomah County, Oregon

An outbreak of syphilis with five cases occurred in early 1969 in Multnomah County, Oregon. The first case was reported on January 6 by a private physician who diagnosed primary syphilis (reactive VDRL test of 8 dilutions, darkfield positive) in a 34-year-old man. One of two contacts named by this man was located and found to have early latent syphilis (reactive VDRL test of 1:16 dilutions) on January 10. She had been hospitalized 23 days prior to the diagnosis of syphilis for pelvic inflammatory disease. During her 16 days of hospitalization, no serologic tests for syphilis were performed. She named six persons including the first patient who had been recently exposed to her. Four of the other five persons were

located and examined within the next 2 weeks. Two were found to have primary syphilis, one early latent syphilis, and one was not infected. The remaining contact was not located.

(Reported by C. A. Jenike, M.D., M.P.H., Acting Director, Venereal Disease Section, Oregon State Department of Health; and the Venereal Disease Program, NCDC.)

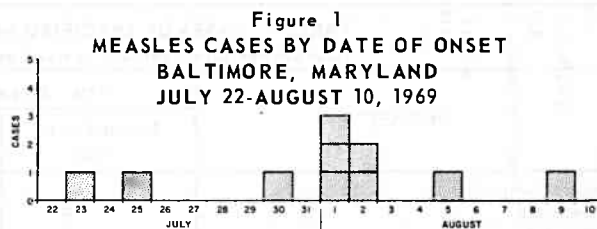
## Editorial Comment:

This outbreak emphasizes the need for routine serologic testing for syphilis by hospitals and the inclusion of syphilis in the differential diagnosis if symptoms are present.

## MEASLES - Baltimore, Maryland

Between July 23 and August 9, 1969, an outbreak of measles with 10 cases (Figure 1) occurred in unimmunized children, ages 1 to 7 years, in a poverty area of Baltimore. The outbreak was uncovered on August 6, following the diagnosis of measles in a 6-year-old girl who was seen at the outpatient clinic of a local hospital. Through immediate investigation in her neighborhood, eight other cases were found. The source of infection for the index case was undetermined. Measles was confirmed in two children by a rise in titer between acute and convalescent sera.

On August 9, an immunization clinic was held in this community at a local poverty agency; employees of the health center publicized the clinic by a door-to-door distribution of leaflets and with broadcasts from a sound truck.



Forty-eight preschool children and 79 school children attended and were immunized against measles.

During this clinic session, measles was recognized in a 13-month-old child, who was the cousin of an earlier case and who lived outside the area receiving publicity for this clinic. This child's neighborhood was then sur-

(Continued on page 324)

## SURVEILLANCE SUMMARY

## COMPLICATIONS OF SMALLPOX VACCINATION - United States 1968

During 1968, an estimated 5,594,000 primary vaccinations and 8,574,000 revaccinations<sup>1</sup> were administered to residents of the United States. Over half of the primary vaccinations were in children under the age of 5 years, while the majority of revaccinations were in persons over the age of 10 years. A total of 572 complications of vaccination with nine deaths were recorded (Table 2) for an incidence of 74.7 complications per million primary vaccinations and 4.7 complications per million revaccinations. The age group under 1 year of age appeared at

greatest risk; there were 112.4 complications and five deaths per million infants given primary vaccinations. (Reported by the Domestic Operations Branch, Smallpox Eradication Program, NCDC.)

## Reference

<sup>1</sup>National Communicable Disease Center, United States Immunization Survey 1967, 1968. December 1968, p. 24.

A copy of the report from which these data were derived is available on request from  
National Communicable Disease Center  
Attn: Smallpox Eradication Program  
Atlanta, Georgia 30333

Table 2  
Complications of Vaccination by Diagnosis and Vaccination Status

Age (Years)	Number of Vaccinations	Number of Cases						Total
		Postvaccinial Encephalitis	Vaccinia Necrosum	Eczema Vaccinatum	Generalized Vaccinia	Accidental Infection	Other	
<b>Primary Vaccinations*:</b>								
<1	614,000	4 (3)+	0	5	43	7	10	69
1-4	2,733,000	6	1	31	47	91	40	216
5-9	1,553,000	5 (1)+	1 (1)+	11	20	32	8	77
10-14	295,000	0	0	1	2	1	1	5
15-19	111,000	0	1 (1)+	2	3	2	0	8
20+	288,000	1	2	7	13	4	5	32
Unknown		0	0	1	3	5	2	11
<b>Total</b>	<b>5,594,000</b>	<b>16 (4)+</b>	<b>5 (2)+</b>	<b>58</b>	<b>131</b>	<b>142</b>	<b>66</b>	<b>418*</b>
<b>Revaccinations:</b>								
<1	0	0	0	0	0	0	0	0
1-4	478,000	0	0	1	0	1	1	3
5-9	1,643,000	0	1 (1)+	4	1	3	2	11
10-14	1,440,000	0	0	1	0	0	0	1
15-19	1,217,000	0	1	2	0	0	0	3
20+	3,796,000	0	4 (1)+	0	9	3	6	22
<b>Total</b>	<b>8,574,000</b>	<b>0</b>	<b>6 (2)+</b>	<b>8</b>	<b>10</b>	<b>7</b>	<b>9</b>	<b>40</b>
<b>Contacts:</b>								
<1		0	0	4	0	9	1	14
1-4		0	0	38 (1)+	1	16	6	61
5-9		0	0	8	0	7	0	15
10-14		0	0	0	0	2	0	2
15-19		0	0	1	0	1	0	2
20+		0	0	9	1	9	0	19
Unknown		0	0	0	0	0	1	1
<b>Total</b>		<b>0</b>	<b>0</b>	<b>60 (1)+</b>	<b>2</b>	<b>44</b>	<b>8</b>	<b>114</b>
<b>Grand Total</b>		<b>16 (4)+</b>	<b>11 (4)+</b>	<b>126 (1)+</b>	<b>143</b>	<b>193</b>	<b>83</b>	<b>572</b>

\*Includes 31 patients with unknown vaccination status.

+Deaths attributable to vaccinia shown in parentheses.

**INTERNATIONAL NOTES**  
**SMALLPOX – West and Central Africa**

For the first 7 months of 1969, 445 cases of smallpox were reported from the 19 countries of West and Central Africa compared with 4,236 cases reported during the same period in 1968 (Figure 2). In May, 26 cases were

reported, in June, 10 cases, and in July, 34 cases were reported to the World Health Organization (Table 3).

Of the 34 cases reported in July 1969, 31 occurred in a single outbreak in Lokossa village (Adjohoun Sous-

Table 3  
Provisional Number of Smallpox Cases by Month – West and Central Africa

Country*	1969								1968	
	January	February	March	April	May	June	July	Total to Date	Total Same Period	Total for Year
Cameroon	11	3	1	—	—	—	—	15	84	87
Chad	—	—	—	—	—	—	—	—	5	5
Dahomey	3	—	—	—	—	—	31	34	318	359
Ghana	3	2	—	—	—	—	—	5	24	26
Guinea	12	—	—	4	—	—	—	16	275	330
Liberia	—	—	—	—	—	—	—	—	5	5
Mali	—	1	—	—	—	—	—	1	57	58
Niger	2	5	14	1	—	6	—	28	664	678
Nigeria	67	77	13	13	6	4	3	183	1,700	1,832
Sierra Leone	23	30	3	14	10	—	—	80	688	1,143
Togo	13	6	3	51	10	—	—	83	376	784
Upper Volta	—	—	—	—	—	—	—	—	40	100
<b>Total</b>	<b>134</b>	<b>124</b>	<b>34</b>	<b>83</b>	<b>26</b>	<b>10</b>	<b>34</b>	<b>445</b>	<b>4,236</b>	<b>5,407</b>

—No Cases

\*No cases reported from Central African Republic, Congo (B), Gabon, Gambia, Ivory Coast, Senegal, and Mauritania.

(Continued on page 324)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

SEPTEMBER 13, 1969 AND SEPTEMBER 14, 1968 (37th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPHtherIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post- Infectious	Serum	Infectious		1969	Cum. 1969
				1969	1968	1969	1969	1969	1968		
UNITED STATES...	168	8	2	40	76	4	95	963	1,010	79	2,005
NEW ENGLAND.....	16	-	-	2	-	-	4	128	51	1	68
Maine*.....	-	-	-	-	-	-	-	4	4	-	6
New Hampshire.....	-	-	-	-	-	-	-	3	-	-	2
Vermont.....	-	-	-	-	-	-	-	9	7	-	-
Massachusetts.....	5	-	-	1	-	-	2	83	14	-	44
Rhode Island.....	11	-	-	-	-	-	-	20	15	1	4
Connecticut.....	-	-	-	1	-	-	2	9	11	-	12
MIDDLE ATLANTIC.....	42	2	-	1	11	-	47	134	166	14	237
New York City.....	9	-	-	-	2	-	24	35	59	-	20
New York, up-State.....	2	-	-	-	1	-	1	23	32	3	36
New Jersey.....	20	2	-	-	3	-	3	36	28	11	97
Pennsylvania.....	11	-	-	1	5	-	19	40	47	-	84
EAST NORTH CENTRAL...	40	-	-	12	38	1	5	136	124	5	204
Ohio*.....	24	-	-	9	32	1	1	34	22	1	20
Indiana.....	-	-	-	-	-	-	-	9	4	-	19
Illinois.....	2	-	-	1	1	-	-	38	40	2	121
Michigan.....	8	-	-	1	5	-	4	50	55	2	43
Wisconsin.....	6	-	-	1	-	-	-	5	3	-	1
WEST NORTH CENTRAL...	9	3	-	3	-	-	2	39	62	8	144
Minnesota.....	5	-	-	1	-	-	1	5	16	1	8
Iowa*.....	3	3	-	1	-	-	-	8	6	-	14
Missouri.....	-	-	-	-	-	-	-	8	25	4	40
North Dakota.....	1	-	-	-	-	-	-	-	1	-	3
South Dakota.....	-	-	-	-	-	-	-	-	9	-	-
Nebraska.....	-	-	-	1	-	-	-	10	1	-	3
Kansas.....	-	-	-	-	-	-	1	8	4	3	76
SOUTH ATLANTIC.....	18	-	-	8	7	-	5	113	106	15	529
Delaware.....	-	-	-	1	-	-	1	1	9	-	3
Maryland.....	3	-	-	2	-	-	1	27	9	-	28
Dist. of Columbia..	1	-	-	-	-	-	-	3	-	-	1
Virginia.....	-	-	-	-	2	-	-	8	14	-	20
West Virginia.....	6	-	-	-	1	-	-	2	8	-	-
North Carolina.....	-	-	-	2	-	-	-	14	3	2	235
South Carolina.....	5	-	-	1	2	-	-	6	8	-	47
Georgia.....	-	-	-	-	-	-	-	14	39	13	169
Florida.....	3	-	-	2	2	-	3	38	16	-	26
EAST SOUTH CENTRAL...	8	1	-	1	2	-	4	33	56	3	88
Kentucky.....	3	-	-	-	-	-	-	12	24	1	68
Tennessee.....	3	1	-	1	2	-	2	15	12	-	-
Alabama.....	2	-	-	-	-	-	-	3	16	2	18
Mississippi.....	-	-	-	-	-	-	2	3	4	-	2
WEST SOUTH CENTRAL...	11	-	2	1	7	-	1	81	52	19	130
Arkansas.....	-	-	-	-	-	-	-	11	-	-	10
Louisiana.....	2	-	-	1	3	-	1	14	17	-	40
Oklahoma.....	3	-	-	-	3	-	-	11	2	-	45
Texas.....	6	-	2	-	1	-	-	45	33	19	35
MOUNTAIN.....	3	-	-	6	-	1	2	58	73	1	122
Montana.....	-	-	-	-	-	-	-	2	11	-	3
Idaho.....	-	-	-	1	-	-	-	3	1	-	3
Wyoming.....	-	-	-	-	-	-	-	4	-	-	-
Colorado.....	-	-	-	2	-	-	1	9	6	1	103
New Mexico.....	3	-	-	3	-	-	-	7	7	-	7
Arizona*.....	-	-	-	-	-	-	-	16	31	-	1
Utah.....	-	-	-	-	-	1	1	3	10	-	1
Nevada.....	-	-	-	-	-	-	-	14	7	-	4
PACIFIC.....	21	2	-	6	11	2	25	241	320	13	483
Washington.....	1	-	-	1	-	1	-	53	36	-	5
Oregon.....	1	-	-	-	-	-	1	14	26	1	10
California.....	14	2	-	5	11	1	24	162	254	12	378
Alaska.....	-	-	-	-	-	-	-	-	2	-	2
Hawaii.....	5	-	-	-	-	-	-	12	2	-	88
Puerto Rico*.....	-	-	-	-	-	-	-	29	28	-	2

\*Delayed reports: Aseptic meningitis: Iowa 1, Ariz. 1  
 Brucellosis: Va. 1  
 Encephalitis, primary: P.R. 3  
 Hepatitis, infectious: Me. 9, Ohio delete 1, P.R. 22  
 Malaria: Iowa 1

# Morbidity and Mortality Weekly Report

321

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

SEPTEMBER 13, 1969 AND SEPTEMBER 14, 1968 (37th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
	Cumulative			Cumulative				Total	Paralytic		
	1969	1969	1968	1969	1969	1968		1969	1969	Cum. 1969	
UNITED STATES...	129	20,387	19,635	29	2,375	2,030	449	2	1	10	231
NEW ENGLAND.....	6	1,108	1,154	4	91	121	61	-	-	1	29
Maine*.....	-	8	37	-	6	6	8	-	-	-	5
New Hampshire.....	-	238	141	1	3	7	-	-	-	-	-
Vermont.....	-	3	2	-	-	1	3	-	-	-	1
Massachusetts.....	1	215	362	3	37	63	27	-	-	-	7
Rhode Island.....	4	27	5	-	11	9	4	-	-	-	7
Connecticut.....	1	617	607	-	34	35	19	-	-	1	9
MIDDLE ATLANTIC.....	11	7,496	4,043	3	390	363	26	-	-	1	16
New York City.....	6	4,911	2,110	2	75	73	22	-	-	-	11
New York, Up-State.....	-	596	1,218	-	72	64	NN	-	-	-	3
New Jersey*.....	2	898	605	-	158	128	4	-	-	-	1
Pennsylvania.....	3	1,091	110	1	85	98	NN	-	-	1	1
EAST NORTH CENTRAL...	47	2,227	3,780	5	325	244	107	-	-	-	38
Ohio.....	1	376	294	2	123	64	11	-	-	-	8
Indiana.....	-	466	672	-	38	34	12	-	-	-	9
Illinois.....	30	525	1,364	2	46	54	17	-	-	-	2
Michigan.....	7	280	266	-	95	72	12	-	-	-	5
Wisconsin.....	9	580	1,184	1	23	20	55	-	-	-	14
WEST NORTH CENTRAL...	5	529	384	3	121	108	34	-	-	1	19
Minnesota.....	-	7	16	1	26	26	2	-	-	-	-
Iowa.....	-	329	98	2	18	6	15	-	-	-	15
Missouri.....	-	26	81	-	51	35	17	-	-	-	-
North Dakota.....	-	14	134	-	1	3	-	-	-	-	-
South Dakota.....	-	3	4	-	1	5	NN	-	-	-	-
Nebraska.....	5	143	41	-	9	6	-	-	-	-	4
Kansas.....	-	7	10	-	15	27	-	-	-	1	-
SOUTH ATLANTIC.....	10	2,500	1,503	6	410	410	43	-	-	1	21
Delaware.....	1	374	16	-	8	8	1	-	-	-	1
Maryland.....	-	75	96	1	39	34	4	-	-	-	-
Dist. of Columbia..	-	-	6	-	9	14	1	-	-	-	-
Virginia.....	-	883	297	1	51	35	12	-	-	-	2
West Virginia.....	4	197	288	-	18	11	14	-	-	-	9
North Carolina.....	1	316	282	1	69	76	NN	-	-	-	-
South Carolina.....	1	117	12	1	57	56	2	-	-	-	2
Georgia.....	-	2	4	-	70	85	-	-	-	-	-
Florida.....	3	536	502	2	89	91	9	-	-	1	7
EAST SOUTH CENTRAL...	2	109	492	-	144	185	17	-	-	1	10
Kentucky.....	2	65	100	-	50	84	5	-	-	-	6
Tennessee.....	-	17	62	-	54	54	12	-	-	-	2
Alabama.....	-	4	94	-	24	26	-	-	-	1	1
Mississippi.....	-	23	236	-	16	21	-	-	-	-	1
WEST SOUTH CENTRAL...	31	4,527	4,800	2	321	304	59	-	-	4	31
Arkansas.....	-	16	2	-	30	20	-	-	-	-	-
Louisiana*.....	-	120	23	1	85	87	-	-	-	-	1
Oklahoma.....	-	136	117	-	30	50	3	-	-	-	-
Texas.....	31	4,255	4,658	1	176	147	56	-	-	4	30
MOUNTAIN.....	6	858	981	2	45	32	33	1	-	-	14
Montana.....	-	17	58	-	8	4	4	-	-	-	1
Idaho.....	-	89	21	-	8	11	1	-	-	-	-
Wyoming.....	-	-	51	-	-	1	-	-	-	-	3
Colorado.....	-	140	504	1	8	10	5	-	-	-	3
New Mexico.....	2	247	102	-	6	-	6	-	-	-	3
Arizona.....	4	355	219	-	10	2	12	1	-	-	-
Utah.....	-	9	21	1	3	1	5	-	-	-	4
Nevada.....	-	1	5	-	2	3	-	-	-	-	-
PACIFIC.....	11	1,033	2,498	4	528	263	69	1	1	1	53
Washington.....	-	59	520	-	54	38	15	-	-	-	13
Oregon.....	-	198	523	1	16	21	7	-	-	-	5
California.....	10	729	1,418	3	437	190	28	1	1	1	9
Alaska.....	-	8	2	-	11	2	-	-	-	-	-
Hawaii.....	1	39	35	-	10	12	19	-	-	-	26
Puerto Rico*.....	32	1,480	407	-	19	19	31	-	-	-	4

\*Delayed reports: Measles: N.J. 10, P.R. 11  
 Meningococcal infections: La. delete 1  
 Mumps: Me. 6, P.R. 6  
 Rubella: Me. 1

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

SEPTEMBER 13, 1969 AND SEPTEMBER 14, 1968 (37th 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...	4,240	6	103	5	108	6	205	8	367	50	2,524
NEW ENGLAND.....	424	-	-	-	14	-	9	-	-	-	20
Maine*.....	6	-	-	-	-	-	1	-	-	-	6
New Hampshire.....	17	-	-	-	-	-	-	-	-	-	4
Vermont.....	-	-	-	-	14	-	-	-	-	-	2
Massachusetts.....	92	-	-	-	-	-	6	-	-	-	1
Rhode Island.....	32	-	-	-	-	-	1	-	-	-	7
Connecticut.....	277	-	-	-	-	-	1	-	-	-	7
MIDDLE ATLANTIC.....	171	1	14	1	5	-	21	2	42	5	147
New York City.....	4	1	7	-	1	-	10	-	-	-	-
New York, Up-State.....	158	-	3	1	4	-	5	-	6	5	139
New Jersey.....	NN	-	2	-	-	-	2	2	14	-	-
Pennsylvania.....	9	-	2	-	-	-	4	-	22	-	8
EAST NORTH CENTRAL...	326	-	12	-	10	1	22	1	3	7	183
Ohio.....	35	-	1	-	-	-	8	-	-	5	62
Indiana.....	127	-	-	-	1	-	-	-	-	-	45
Illinois.....	90	-	7	-	3	1	10	1	3	1	29
Michigan.....	9	-	4	-	-	-	4	-	-	1	7
Wisconsin.....	65	-	-	-	6	-	-	-	-	-	40
WEST NORTH CENTRAL...	167	3	10	-	13	-	8	-	8	11	468
Minnesota.....	7	1	3	-	-	-	3	-	-	2	123
Iowa.....	63	-	-	-	-	-	-	-	7	2	67
Missouri.....	4	2	3	-	9	-	3	-	-	2	120
North Dakota.....	57	-	-	-	-	-	-	-	-	2	60
South Dakota.....	9	-	-	-	-	-	-	-	1	-	24
Nebraska.....	17	-	-	-	1	-	1	-	-	-	12
Kansas.....	10	-	4	-	3	-	1	-	-	3	62
SOUTH ATLANTIC.....	655	1	19	-	20	1	32	2	197	9	633
Delaware.....	2	-	-	-	-	-	2	-	3	-	-
Maryland.....	27	-	1	-	-	-	4	-	42	-	3
Dist. of Columbia..	-	-	2	-	-	-	1	-	-	-	-
Virginia.....	196	-	-	-	4	-	-	-	57	5	320
West Virginia.....	183	-	1	-	2	-	1	-	5	-	93
North Carolina.....	NN	-	2	-	5	-	6	1	48	-	4
South Carolina.....	83	-	1	-	2	-	1	1	30	-	-
Georgia.....	7	1	3	-	3	-	9	-	12	1	66
Florida.....	157	-	9	-	4	1	8	-	-	3	147
EAST SOUTH CENTRAL...	803	-	16	-	11	4	32	2	55	5	354
Kentucky.....	109	-	6	-	-	3	6	1	9	1	182
Tennessee.....	568	-	4	-	10	1	19	-	39	4	120
Alabama.....	64	-	5	-	-	-	4	-	4	-	46
Mississippi.....	62	-	1	-	1	-	3	1	3	-	6
WEST SOUTH CENTRAL...	452	-	18	-	18	-	22	1	43	10	358
Arkansas.....	8	-	1	-	1	-	10	-	7	1	26
Louisiana.....	9	-	7	-	4	-	3	-	-	2	28
Oklahoma.....	3	-	1	-	7	-	-	-	28	3	53
Texas.....	432	-	9	-	6	-	9	1	8	4	251
MOUNTAIN.....	962	1	5	3	14	-	23	-	14	-	111
Montana.....	25	-	1	-	-	-	1	-	-	-	-
Idaho.....	104	-	-	-	-	-	3	-	4	-	-
Wyoming.....	17	-	-	-	2	-	5	-	-	-	52
Colorado.....	461	-	2	-	-	-	3	-	8	-	3
New Mexico.....	208	-	-	-	1	-	5	-	-	-	15
Arizona.....	83	1	2	-	-	-	5	-	-	-	22
Utah.....	64	-	-	3	11	-	-	-	2	-	5
Nevada.....	-	-	-	-	-	-	1	-	-	-	14
PACIFIC.....	280	-	9	1	3	-	36	-	5	3	250
Washington.....	61	-	1	-	2	-	2	-	3	-	4
Oregon.....	68	-	-	1	1	-	6	-	-	-	3
California.....	-	-	8	-	-	-	27	-	2	3	243
Alaska.....	20	-	-	-	-	-	-	-	-	-	-
Hawaii*.....	131	-	-	-	-	-	1	-	-	-	-
Puerto Rico*.....	3	-	6	-	-	-	6	-	-	-	20

\*Delayed reports: SST: Me. 16, P.R. 3

Tetanus: P.R. 1

Typhoid fever: Hawaii 1

# Morbidity and Mortality Weekly Report

323

Week No. **TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED SEPTEMBER 13, 1969**

37

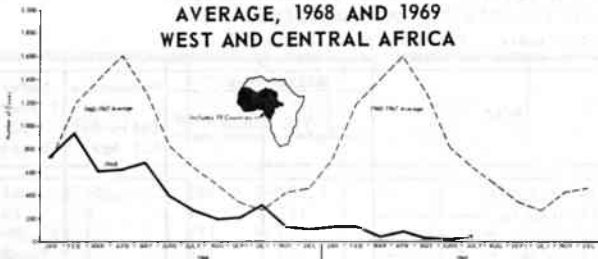
(By place of occurrence and week of filing certificate. Excludes fetal deaths)

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>	666	370	30	39	<b>SOUTH ATLANTIC:</b>	1,227	585	49	83
Boston, Mass.-----	203	105	8	6	Atlanta, Ga.-----	157	67	6	13
Bridgeport, Conn.-----	38	26	2	—	Baltimore, Md.-----	263	119	3	16
Cambridge, Mass.-----	22	12	4	1	Charlotte, N. C.-----	48	16	1	5
Fall River, Mass.-----	18	13	—	1	Jacksonville, Fla.-----	93	47	2	11
Hartford, Conn.-----	57	30	—	5	Miami, Fla.-----	103	46	—	5
Lowell, Mass.-----	25	15	1	—	Norfolk, Va.-----	67	33	3	1
Lynn, Mass.-----	29	18	2	3	Richmond, Va.-----	78	41	6	10
New Bedford, Mass.-----	24	15	—	—	Savannah, Ga.-----	41	15	4	5
New Haven, Conn.-----	49	27	—	4	St. Petersburg, Fla.-----	87	68	3	3
Providence, R. I.-----	44	17	—	7	Tampa, Fla.-----	74	36	10	5
Somerville, Mass.-----	14	9	2	1	Washington, D. C.-----	167	77	9	5
Springfield, Mass.-----	50	28	7	5	Wilmington, Del.-----	49	20	2	4
Waterbury, Conn.-----	36	18	—	3	<b>EAST SOUTH CENTRAL:</b>	629	323	33	38
Worcester, Mass.-----	57	37	4	3	Birmingham, Ala.-----	103	53	1	5
<b>MIDDLE ATLANTIC:</b>	3,093	1,779	129	123	Chattanooga, Tenn.-----	39	20	5	5
Albany, N. Y.-----	61	31	1	4	Knoxville, Tenn.-----	36	22	2	2
Allentown, Pa.-----	31	21	2	2	Louisville, Ky.-----	116	60	17	7
Buffalo, N. Y.-----	139	88	5	6	Memphis, Tenn.-----	160	78	2	12
Camden, N. J.-----	50	25	1	6	Mobile, Ala.-----	45	29	1	2
Elizabeth, N. J.-----	26	17	1	1	Montgomery, Ala.-----	45	20	4	4
Erie, Pa.-----	36	28	—	1	Nashville, Tenn.-----	85	41	1	1
Jersey City, N. J.-----	57	35	4	2	<b>WEST SOUTH CENTRAL:</b>	1,212	608	44	72
Newark, N. J.-----	74	37	2	2	Austin, Tex.-----	44	20	6	3
New York City, N. Y.-----	1,562	885	63	58	Baton Rouge, La.-----	32	19	—	3
Paterson, N. J.-----	40	25	1	1	Corpus Christi, Tex.-----	27	18	—	2
Philadelphia, Pa.-----	398	210	9	20	Dallas, Tex.-----	179	71	2	11
Pittsburgh, Pa.-----	206	105	16	10	El Paso, Tex.-----	35	21	2	2
Reading, Pa.-----	46	35	—	—	Fort Worth, Tex.-----	96	54	6	7
Rochester, N. Y.-----	116	75	5	2	Houston, Tex.-----	253	111	3	10
Schenectady, N. Y.-----	25	16	1	—	Little Rock, Ark.-----	50	24	1	2
Scranton, Pa.-----	33	25	2	—	New Orleans, La.-----	148	69	4	6
Syracuse, N. Y.-----	83	47	2	4	Oklahoma City, Okla.-----	88	45	3	7
Trenton, N. J.-----	47	29	5	3	San Antonio, Tex.-----	116	64	7	11
Utica, N. Y.-----	29	21	5	—	Shreveport, La.-----	56	31	1	6
Yonkers, N. Y.-----	34	24	4	1	Tulsa, Okla.-----	88	61	9	2
<b>EAST NORTH CENTRAL:</b>	2,696	1,500	79	154	<b>MOUNTAIN:</b>	443	248	12	30
Akron, Ohio-----	79	48	—	2	Albuquerque, N. Mex.-----	52	22	5	2
Canton, Ohio-----	36	25	2	2	Colorado Springs, Colo.-----	36	16	1	3
Chicago, Ill.-----	760	392	21	56	Denver, Colo.-----	121	69	3	7
Cincinnati, Ohio-----	183	121	1	8	Ogden, Utah-----	19	9	—	4
Cleveland, Ohio-----	202	111	9	13	Phoenix, Ariz.-----	99	63	—	6
Columbus, Ohio-----	138	76	4	10	Pueblo, Colo.-----	18	13	—	1
Dayton, Ohio-----	89	39	2	5	Salt Lake City, Utah-----	59	31	1	6
Detroit, Mich.-----	326	170	12	14	Tucson, Ariz.-----	39	25	2	1
Evansville, Ind.-----	40	27	3	—	<b>PACIFIC:</b>	1,579	956	42	63
Flint, Mich.-----	53	27	1	5	Berkeley, Calif.-----	18	12	—	—
Fort Wayne, Ind.-----	46	28	5	3	Fresno, Calif.-----	39	23	1	1
Gary, Ind.-----	33	20	3	4	Glendale, Calif.-----	30	23	—	2
Grand Rapids, Mich.-----	42	31	2	2	Honolulu, Hawaii-----	62	29	1	9
Indianapolis, Ind.-----	199	108	5	9	Long Beach, Calif.-----	91	50	2	1
Madison, Wis.-----	34	11	1	7	Los Angeles, Calif.-----	477	292	10	14
Milwaukee, Wis.-----	129	80	—	4	Oakland, Calif.-----	72	39	—	3
Peoria, Ill.-----	38	20	1	1	Pasadena, Calif.-----	30	19	1	—
Rockford, Ill.-----	48	31	3	3	Portland, Oreg.-----	160	104	3	5
South Bend, Ind.-----	45	30	2	1	Sacramento, Calif.-----	48	31	2	4
Toledo, Ohio-----	115	62	—	5	San Diego, Calif.-----	107	51	4	8
Youngstown, Ohio-----	61	43	2	—	San Francisco, Calif.-----	161	95	3	4
<b>WEST NORTH CENTRAL:</b>	833	488	29	39	San Jose, Calif.-----	39	26	6	1
Des Moines, Iowa-----	69	45	2	1	Seattle, Wash.-----	127	80	7	6
Duluth, Minn.-----	26	19	1	—	Spokane, Wash.-----	68	49	2	3
Kansas City, Kans.-----	40	17	4	4	Tacoma, Wash.-----	50	33	—	2
Kansas City, Mo.-----	116	71	2	7	<b>Total</b>	<b>12,378</b>	<b>6,857</b>	<b>447</b>	<b>641</b>
Lincoln, Nebr.-----	23	14	1	1	<b>Expected Number</b>	<b>11,766</b>	<b>6,716</b>	<b>344</b>	<b>517</b>
Minneapolis, Minn.-----	102	67	2	6	<b>Cumulative Total</b> (includes reported corrections for previous weeks)	<b>483,286</b>	<b>276,825</b>	<b>22,761</b>	<b>22,625</b>
Omaha, Nebr.-----	96	51	2	6					
St. Louis, Mo.-----	222	126	7	9					
St. Paul, Minn.-----	68	42	1	1					
Wichita, Kans.-----	71	36	7	4					
Las Vegas, Nev.*	20	8	—	—					

\*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.

SMALLPOX - (Continued from page 319)

Figure 2  
REPORTED SMALLPOX CASES BY MONTH, 1960-67  
AVERAGE, 1968 AND 1969  
WEST AND CENTRAL AFRICA



Préfecture) in southeastern Dahomey. In August, a second outbreak, unrelated to the first, was detected in western Dahomey (South-Préfecture D'Athiéme). The first case diagnosed in the second outbreak was in a 4-month-old Dahomeyan child, who was seen in mid-July at a medical center in Togo. Preliminary laboratory reports indicate that cases of chickenpox as well as smallpox are occurring in this outbreak. Epidemiologic investigation and epidemic control measures are underway.

Since the beginning of field activities in January 1967 of the U.S.-assisted West African Smallpox Eradication/Measles Control Program, 91.9 million smallpox vaccinations have been administered throughout this 19-country area, where the total population is estimated at 119 million people.

(Reported by the World Health Organization and the Smallpox Eradication Program, NCDC.)

Reference

1 WHO Weekly Epidemiological Record, 44(36):526, September 5, 1969.

MEASLES - (Continued from page 318)

veyed for other cases, but none was detected. On August 14, an immunization clinic was held in this area, and 82 preschool and 114 school children were vaccinated.

Measles surveillance is continuing in these two areas. (Reported by Robert Farber, M.D., M.P.H., Commissioner of Health, and Allan Moodie, M.D., Dr.P.H., Director, Bureau of Communicable Diseases, Baltimore City Health Department; Howard Garber, M.D., M.P.H., Chief, Division of Communicable Diseases, and the Public Health Advisors assigned to the Maryland State Immunization Program, Maryland State Health Department; Talmadge Pinkney, M.D., Project Director, and William Pope, M.D., M.P.H., Medical Director, Provident Comprehensive Neighborhood Health Center, Baltimore; and an EIS Officer.)

ADDENDUM, Vol. 18, No. 35, p. 303

In the article "Follow-up Diphtheria - Phoenix, Maricopa County, Arizona," it was stated that all patients and carriers were treated with penicillin. This was not meant to imply that antimicrobials have replaced antitoxin in the treatment of confirmed or suspected cases of diphtheria. Antitoxin must be given as early as possible in the illness. Although antimicrobials have been demonstrated to be of value in eradicating the organism from both patients and carriers, they do not affect the clinical course of illness.<sup>1</sup>

Reference

<sup>1</sup>Weinstein, L.: Diphtheria. *Current Pediatric Therapy 1966-1967*. Gellis, Sydney S. and Kagan, Benjamin M. (ed.). W.B. Saunders Co., Philadelphia 1966, pp. 656-661.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 18,500 IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER  
DAVID J. SENCER, M.D.  
DIRECTOR, EPIDEMIOLOGY PROGRAM  
A. D. LANGMUIR, M.D.

EDITOR  
MANAGING EDITOR  
MICHAEL B. GREGG, M.D.  
PRISCILLA B. HOLMAN

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

NATIONAL COMMUNICABLE DISEASE CENTER  
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.

U.S. DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION  
NATIONAL  
COMMUNICABLE DISEASE CENTER  
ATLANTA, GEORGIA 30333  
OFFICIAL BUSINESS

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF H. E. W.

