



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
MEASLES - Baltimore, Maryland

During April 1969, 11 cases of measles were reported in previously unimmunized children from a geographically confined, lower socioeconomic area of Baltimore. This is the largest known outbreak of measles in Baltimore in the last 2 years. The apparent index case was a 14-year-old boy who had onset of measles rash on March 13. His source of infection was not determined. On March 13, despite his rash, he had attended a birthday party. Four other children at the party subsequently developed measles. The six other cases were in contacts of these five children.

Of prime concern was the fact that none of the children had been immunized against measles. Epidemiologic investigation showed that this was an unrecognized pocket

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of susceptible children not only to measles but also to diphtheria, pertussis, tetanus, and polio. This neighborhood had not been included in a measles immunization program conducted in bordering communities in January and February 1969 and review of health department records indicated that this area had had notably poor attendance during the statewide measles campaigns in 1967.

(Continued on page 178)

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

DISEASE	21st WEEK ENDED		MEDIAN 1964 - 1968	CUMULATIVE, FIRST 21 WEEKS		
	May 24, 1969	May 25, 1968		1969	1968	MEDIAN 1964 - 1968
Aseptic meningitis	22	33	35	575	607	588
Brucellosis	5	3	7	51	60	92
Diphtheria	6	1	1	62	67	67
Encephalitis, primary:						
Arthropod-borne & unspecified	19	17	27	408	337	515
Encephalitis, post-infectious	8	20	18	118	232	354
Hepatitis, serum	113	82	751	2,119	1,621	17,347
Hepatitis, infectious	913	859		19,398	17,772	
Malaria	59	22	8	1,063	861	115
Measles (rubeola)	949	724	6,543	14,497	14,521	156,304
Meningococcal infections, total	57	43	52	1,772	1,441	1,441
Civilian	49	40	---	1,597	1,298	---
Military	8	3	---	175	143	---
Mumps	2,395	4,488	---	51,810	102,619	---
Poliomyelitis, total	—	2	1	2	20	10
Paralytic	—	2	1	2	20	8
Rubella (German measles)	2,663	2,168	---	34,946	32,882	---
Streptococcal sore throat & scarlet fever	7,818	8,206	8,670	228,543	225,104	225,104
Tetanus	5	2	5	46	46	60
Tularemia	13	6	5	51	67	67
Typhoid fever	5	5	6	110	102	133
Typhus, tick-borne (Rky. Mt. spotted fever)	13	9	5	46	33	23
Rabies in animals	54	62	92	1,587	1,606	1,891

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Calif.-1	2	Rabies in man:	1
Botulism: Ill.-1	10	Rubella congenital syndrome:	5
Leptospirosis: N.C.-1, Ohio-1, Va.-1	21	Trichinosis: Wash.-1	32
Plague:	—	Typhus, murine: Tex.-1	6
Psittacosis: Md.-1	13		

MEASLES - (Continued from front page)

On April 25 and May 4, school-based immunization programs were held in this area. Although approximately 11,000 families live in the area and were contacted, only 369 children from preschool through grade 3 came to the clinics. To date, no new cases of measles have been reported from this area.

(Reported by Robert Farber, M.D., Commissioner of Health, Baltimore City Health Department; John H. Janney, M.D., M.P.H., Director, Division of Communicable Diseases, and Public Health Advisor Assignees, Maryland State Department of Health; and an EIS Officer.)

INTERNATIONAL NOTES
SMALLPOX

Through May 13, 1969, a total of 329 cases of smallpox were reported to the World Health Organization (WHO) by the 19 countries participating in the West and Central African Regional Smallpox Eradication and Measles Control Program. This is a decrease of 87.6 percent from the 2,645 cases recorded during the comparable period in 1968. The long term trend of reported smallpox cases in the region since January 1968 compared with the mean monthly number of reported cases during the period 1960-1967 is presented in Figure 1.

The weekly reported smallpox cases in the 19 countries during the first 17 weeks of 1969 compared with total cases reported during the comparable period in 1968 is shown in Table 1. Smallpox incidence has continued to

decline this year throughout the 19-country area despite improved reporting systems through which cases are now reported that previously might have remained undetected.

In West Africa, smallpox foci are evident in three separate areas: 1) Sierra Leone, 2) Togo, and 3) Nigeria-Niger-Cameroon. Outbreaks in these areas are being actively contained through effective surveillance systems. All suspect cases are immediately investigated to trace the sources of infection and contain further spread of smallpox.

(Reported by the Smallpox Eradication Program, NCDC.)

Source: World Health Organization Weekly Epidemiological Record, 44(20):334-337.

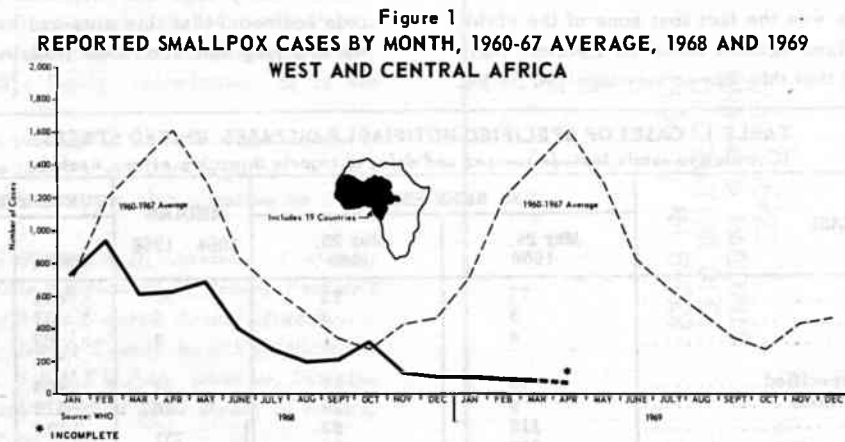


Table 1
Provisional Number of Smallpox Cases by Week - West and Central Africa

Week Ending	Jan.	February				March				April				Total to Date 1969	Total Same Period 1968	
	1-25	1	8	15	22	1	8	15	22	29	5	12	19			26
Week Number	1-4	5	6	7	8	9	10	11	12	13	14	15	16	17		
Country*																
Cameroon	10	1	-	-	-	3	1	-	-	-	-	-	-	-	15	53
Chad	-	-	-	-	-	-	-	-	1	-	10	1	-	-	12	1
Dahomey	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	245
Ghana	4	2	-	-	-	-	-	-	-	-	-	-	-	-	6	3
Guinea	11	1	-	-	-	-	-	-	-	-	-	-	-	-	12	278
Liberia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Mali	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42
Niger	2	-	-	4	-	1	13	-	1	-	-	-	1	1	23	419
Nigeria	18	3	10	11	10	9	5	45	5	8	-	-	-	-	124	998
Sierra Leone	20	3	-	19	11	-	2	1	-	-	-	-	-	-	56	336
Togo	16	2	-	2	3	2	1	1	-	-	3	34	14	-	78	248
Upper Volta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
Total	84	12	10	36	24	15	22	47	7	8	13	35	15	1	329	2,645

*No cases reported from Central African Republic, Congo (B), Gabon, Gambia, Ivory Coast, Senegal, and Mauritania.
--- Data not available.

SURVEILLANCE SUMMARY
LEPTOSPIROSIS - United States 1968*

In the United States during 1968, a total of 67 cases of human leptospirosis including two fatal cases were reported to the NCDC. This was the same number of cases as reported in 1967. Case reports were received on 44 of these 67 cases. The highest number of cases, 13, was reported from Florida. An increase in cases over 1967 was noted in 13 states, a decrease in 11 states, and the same number as in 1967 in one state. Cases were reported in 1968 from seven states that had no cases in the pre-

vious year and eight states reporting cases in 1967 reported no cases in 1968 (Table 2). Most cases occurred in the summer months. Sex and age distribution data from the 44 case reports showed that 70 percent of the cases occurred in males and that 56 percent were in persons between 10 and 30 years of age (Table 3). Most histories were indefinite as to single sources of infection, but the most probable sources were dogs and cats, water, and rodents (Table 4). In 33 case reports where initial impressions were noted, meningitis, usually aseptic meningitis, was the predominant tentative diagnosis. The most frequent symptoms reflected central nervous system, renal, and hepatic disturbances.

Table 2
Human Leptospirosis - 1968

State	Five-year Mean (1963-1967)	1968 Cases	Comparison of numbers of cases reported in 1968 with 1967
Alabama	1.0	0	-2
Alaska	0.0	0	0
Arizona	0.2	0	0
Arkansas	2.2	0	-2
California	5.0	4	-5
Colorado	0.2	0	0
Connecticut	0.0	0	0
Delaware	0.0	0	0
Florida	5.6	13	+5
Georgia	1.0	3	+3
Hawaii	15.6	11	+3
Idaho	2.0	1	+1
Illinois	1.6	1	+1
Indiana	1.0	0	0
Iowa	8.6	8	+1
Kansas	0.8	1	+1
Kentucky	0.2	0	0
Louisiana	6.0	3	-11
Maine	0.8	0	-1
Maryland	1.6	2	0
Massachusetts	0.4	0	0
Michigan	1.2	0	-2
Minnesota	0.6	0	0
Mississippi	1.0	0	-1
Missouri	0.2	0	0
Montana	0.4	0	-1
Nebraska	0.2	0	0
Nevada	0.0	0	0
New Hampshire	0.0	0	0
New Jersey	1.4	1	-1
New Mexico	0.2	0	0
New York	2.0	2	+1
North Carolina	1.0	0	0
North Dakota	0.0	0	0
Ohio	2.0	2	+2
Oklahoma	0.0	2	+2
Oregon	1.2	0	0
Pennsylvania	0.8	0	0
Rhode Island	0.0	0	0
South Carolina	0.2	0	0
South Dakota	0.0	0	0
Tennessee	4.8	5†	+3
Texas	5.8	7	+4
Utah	0.2	0	-1
Vermont	0.0	0	0
Virginia	0.6	0	0
Washington	12.6	0	-1
West Virginia	0.4	1†	+1
Wisconsin	0.0	0	0
Wyoming	0.0	0	0
TOTALS	1.8	67	0

†1 Fatal Case

Table 3
Human Leptospirosis by Age and Sex - 1968

AGE (YEARS)	SEX		TOTAL	PERCENT OF TOTAL
	MALE	FEMALE		
0 - 9	3	0	3	7
10 - 19	10	3	13	30
20 - 29	7	5	12	27
30 - 39	2	1	3	7
40 - 49	4	0	4	9
50 - 59	4	2	6	13
60+	1	2	3	7
TOTAL	31	13	44	100

Table 4
Most Probable Source of Human Leptospirosis - 1968

MOST PROBABLE SOURCE	PRESUMPTIVE INFECTING SEROTYPE							PERCENT OF TOTAL
	L. ICTERHAEMORRHAGIAE	L. CANICOLA	L. ICTERHAEMORRHAGIAE L. CANICOLA	L. ICTERHAEMORRHAGIAE L. PATOC	L. POMONA	UNKNOWN	TOTAL	
Rodent	3	1		1		1	6	13
Dog or Cat	3	7	1			2	13	30
Cattle or Swine		1			1		2	5
Water Contact		2		1		6	9	21
Sewage		1					1	2
Wild Animals						3	3	7
Viet Nam		1					1	2
Unknown		3	1			5	9	20
TOTAL	6	16	2	2	1	17	44	100
Percent of Total	13	36	5	5	2	39	100	

(Reported by the Veterinary Public Health Section, Epidemiology Program, NCDC.)

*Provisional data

A copy of the original report from which these data were derived is available on request from:

National Communicable Disease Center
Attn: Chief, Veterinary Public Health Section
Epidemiology Program
Atlanta, Georgia 30333

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
MAY 24, 1969 AND MAY 25, 1968 (21st 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...	22	5	6	19	17	8	113	913	859	59	1063
NEW ENGLAND.....	-	1	-	-	2	-	2	75	23	-	39
Maine...*	-	-	-	-	-	-	-	2	2	-	2
New Hampshire.*	-	-	-	-	-	-	-	-	-	-	2
Vermont.....	-	-	-	-	-	-	1	7	-	-	-
Massachusetts.....	-	1	-	-	2	-	1	25	11	-	30
Rhode Island.....	-	-	-	-	-	-	-	28	2	-	1
Connecticut.....	-	-	-	-	-	-	-	13	8	-	4
MIDDLE ATLANTIC.....	2	-	-	1	1	-	61	177	131	9	117
New York City.....	-	-	-	1	-	-	42	66	53	1	9
New York, up-State.	-	-	-	-	-	-	8	28	24	1	22
New Jersey.....	1	-	-	-	1	-	8	22	19	6	42
Pennsylvania...*	1	-	-	-	-	-	3	61	35	1	44
EAST NORTH CENTRAL...	-	-	-	7	4	2	9	135	144	12	92
Ohio.....	-	-	-	4	2	-	1	37	62	-	10
Indiana.....	-	-	-	-	-	-	-	19	7	-	7
Illinois.....	-	-	-	2	2	1	3	41	27	10	46
Michigan.....	-	-	-	1	-	1	4	32	38	2	28
Wisconsin.....	-	-	-	-	-	-	-	6	10	-	1
WEST NORTH CENTRAL...	-	3	-	-	1	-	-	66	77	4	73
Minnesota.....	-	-	-	-	1	-	-	8	21	-	7
Iowa.....	-	3	-	-	-	-	-	13	14	-	5
Missouri...*	-	-	-	-	-	-	-	37	35	2	23
North Dakota.....	-	-	-	-	-	-	-	2	-	-	2
South Dakota.....	-	-	-	-	-	-	-	2	-	-	-
Nebraska.....	-	-	-	-	-	-	-	2	-	-	3
Kansas.....	-	-	-	-	-	-	-	2	7	2	33
SOUTH ATLANTIC.....	4	-	-	4	4	2	6	64	74	14	346
Delaware.....	-	-	-	-	-	-	-	-	2	-	2
Maryland.....	-	-	-	-	-	1	2	7	13	-	10
Dist. of Columbia..	-	-	-	-	-	-	2	2	1	-	1
Virginia.....	-	-	-	-	-	-	-	8	2	1	14
West Virginia.....	-	-	-	-	-	-	-	6	9	-	-
North Carolina.....	1	-	-	2	1	-	-	9	5	10	155
South Carolina.....	-	-	-	1	-	-	-	17	3	1	27
Georgia.....	-	-	-	-	-	-	-	-	11	-	119
Florida.....	3	-	-	1	3	1	2	15	28	2	18
EAST SOUTH CENTRAL...	1	-	-	1	1	1	-	46	29	-	32
Kentucky.....	-	-	-	-	-	-	-	15	5	-	26
Tennessee.....	1	-	-	1	1	1	-	15	9	-	-
Alabama.....	-	-	-	-	-	-	-	4	2	-	6
Mississippi.....	-	-	-	-	-	-	-	12	13	-	-
WEST SOUTH CENTRAL...	4	-	1	2	2	-	-	70	68	-	30
Arkansas.....	-	-	-	-	-	-	-	3	2	-	5
Louisiana...*	2	-	1	1	2	-	-	15	12	-	22
Oklahoma.....	1	-	-	-	-	-	-	11	3	-	3
Texas.....	1	-	-	1	-	-	-	41	51	-	-
MOUNTAIN.....	-	1	-	1	-	-	-	37	26	-	72
Montana.....	-	-	-	-	-	-	-	2	4	-	-
Idaho.....	-	-	-	1	-	-	-	3	6	-	2
Wyoming...*	-	1	-	-	-	-	-	-	1	-	-
Colorado.....	-	-	-	-	-	-	-	14	3	-	64
New Mexico.....	-	-	-	-	-	-	-	6	6	-	4
Arizona.....	-	-	-	-	-	-	-	6	4	-	1
Utah.....	-	-	-	-	-	-	-	6	2	-	1
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	11	-	5	3	2	3	35	243	287	20	262
Washington.....	3	-	-	-	-	-	-	32	31	-	5
Oregon.....	1	-	2	-	-	-	1	16	27	-	6
California.....	6	-	3	3	2	3	34	188	229	13	207
Alaska.....	1	-	-	-	-	-	-	5	-	1	1
Hawaii.....	-	-	-	-	-	-	-	2	-	6	43
Puerto Rico...*	-	-	-	-	-	-	-	19	26	-	1

*Delayed reports: Encephalitis, primary: Pa. delete 1

Hepatitis, serum: La. 1(1968)

Hepatitis, infectious: Me. 3, N.H. 6, Mo. 13, Wyo. 1, P.R. 1

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
MAY 24, 1969 AND MAY 25, 1968 (21st WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA	
	1969	Cumulative		1969	Cumulative			1969	Total	Paralytic		
		1969	1968		1969	1968				1969		1969
UNITED STATES...	949	14,497	14,521	57	1,772	1,441	2,395	-	-	2	2,663	
NEW ENGLAND.....	27	716	701	1	57	73	315	-	-	-	209	
Maine...*	-	4	30	-	5	6	31	-	-	-	25	
New Hampshire.....	2	210	113	-	1	7	3	-	-	-	9	
Vermont.....	-	2	1	-	-	1	25	-	-	-	4	
Massachusetts...*	14	138	203	-	26	32	156	-	-	-	54	
Rhode Island.....	-	9	1	-	4	6	22	-	-	-	15	
Connecticut.....	11	353	353	1	21	21	78	-	-	-	102	
MIDDLE ATLANTIC.....	370	5,196	2,334	14	271	241	208	-	-	-	144	
New York City.....	240	3,604	915	3	49	47	133	-	-	-	39	
New York, Up-State.	21	448	946	-	45	38	NN	-	-	-	43	
New Jersey...*	47	578	394	11	119	90	75	-	-	-	24	
Pennsylvania.....	62	566	79	-	58	66	NN	-	-	-	38	
EAST NORTH CENTRAL...	118	1,473	3,047	12	231	159	529	-	-	-	725	
Ohio.....	15	232	243	4	80	43	41	-	-	-	30	
Indiana.....	32	431	539	-	28	19	84	-	-	-	124	
Illinois.....	40	264	1,188	2	39	38	91	-	-	-	300	
Michigan...*	10	136	197	4	68	46	151	-	-	-	111	
Wisconsin.....	21	410	880	2	16	13	162	-	-	-	160	
WEST NORTH CENTRAL...	5	402	313	1	93	70	186	-	-	-	160	
Minnesota.....	-	2	13	-	16	16	4	-	-	-	1	
Iowa.....	-	257	77	-	10	5	150	-	-	-	131	
Missouri...*	3	18	72	-	43	21	10	-	-	-	3	
North Dakota.....	-	6	107	-	-	3	6	-	-	-	6	
South Dakota.....	1	1	4	1	1	4	NN	-	-	-	-	
Nebraska.....	1	114	32	-	9	6	16	-	-	-	19	
Kansas.....	-	4	8	-	14	15	-	-	-	-	-	
SOUTH ATLANTIC.....	106	2,023	1,114	12	316	309	194	-	-	-	327	
Delaware.....	22	249	8	-	4	4	3	-	-	-	3	
Maryland.....	-	30	69	1	30	19	12	-	-	-	30	
Dist. of Columbia*	-	2	6	1	9	11	-	-	-	-	2	
Virginia.....	49	854	219	1	36	22	44	-	-	-	83	
West Virginia.....	6	156	177	1	14	7	79	-	-	-	145	
North Carolina.....	25	179	260	2	51	62	NN	-	-	-	-	
South Carolina.....	4	97	12	2	46	54	12	-	-	-	17	
Georgia.....	-	1	3	4	56	57	-	-	-	-	-	
Florida.....	-	455	360	-	70	73	44	-	-	-	47	
EAST SOUTH CENTRAL...	4	73	380	2	104	126	78	-	-	-	73	
Kentucky.....	3	39	86	2	38	47	8	-	-	-	8	
Tennessee.....	-	15	51	-	39	43	64	-	-	-	65	
Alabama.....	-	1	61	-	17	18	3	-	-	-	-	
Mississippi.....	1	18	182	-	10	18	3	-	-	-	-	
WEST SOUTH CENTRAL...	240	3,350	3,897	6	250	254	259	-	-	2	261	
Arkansas...*	-	16	2	-	27	15	-	-	-	-	-	
Louisiana.....	26	100	2	2	71	66	-	-	-	-	-	
Oklahoma.....	5	116	105	1	24	48	31	-	-	-	127	
Texas.....	209	3,118	3,788	3	128	125	228	-	-	2	134	
MOUNTAIN.....	35	485	731	-	34	22	145	-	-	-	109	
Montana.....	-	8	57	-	4	2	17	-	-	-	1	
Idaho.....	5	47	12	-	6	9	3	-	-	-	6	
Wyoming...*	-	-	48	-	-	-	-	-	-	-	-	
Colorado.....	1	100	353	-	6	7	26	-	-	-	57	
New Mexico.....	13	174	73	-	6	-	5	-	-	-	11	
Arizona.....	16	152	164	-	8	1	72	-	-	-	31	
Utah.....	-	3	19	-	2	-	22	-	-	-	3	
Nevada.....	-	1	5	-	2	3	-	-	-	-	-	
PACIFIC.....	44	779	2,004	9	416	187	481	-	-	-	655	
Washington.....	4	53	470	-	50	31	140	-	-	-	102	
Oregon.....	14	167	387	1	10	16	10	-	-	-	41	
California.....	18	529	1,113	8	337	130	219	-	-	-	349	
Alaska.....	1	11	1	-	11	-	100	-	-	-	91	
Hawaii.....	7	19	33	-	8	10	12	-	-	-	72	
Puerto Rico.....	54	654	293	1	13	17	12	-	-	-	8	

*Delayed reports: Measles: Mass. delete 10, N.J. 114, Mich. delete 2, D.C. delete 1, Ark. 13, Wyo. delete 8
Meningococcal infections: Mo. 12
Mumps: Me. 7
Rubella: Me. 1, Wyo. 8

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MAY 24, 1969 AND MAY 25, 1968 (21st 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
UNITED STATES...	7818	5	46	13	51	5	110	13	46	54	1587
NEW ENGLAND.....	1387	-	-	3	4	-	2	-	-	-	5
Maine...*	14	-	-	-	-	-	1	-	-	-	4
New Hampshire.....	36	-	-	-	-	-	-	-	-	-	-
Vermont.....	27	-	-	3	4	-	-	-	-	-	1
Massachusetts.....	213	-	-	-	-	-	1	-	-	-	-
Rhode Island.....	116	-	-	-	-	-	-	-	-	-	-
Connecticut.....	981	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	484	-	6	-	2	2	12	3	3	-	47
New York City.....	65	-	4	-	1	-	6	-	-	-	-
New York, Up-State.	337	-	2	-	1	2	4	-	-	-	44
New Jersey.....	NN	-	-	-	-	-	-	-	-	-	-
Pennsylvania.....	82	-	-	-	-	-	2	3	3	-	3
EAST NORTH CENTRAL...	750	3	7	1	3	-	10	-	-	5	97
Ohio.....*	188	-	-	-	-	-	6	-	-	-	28
Indiana.....	166	-	-	-	1	-	-	-	-	4	27
Illinois.....	122	3	5	-	1	-	1	-	-	-	17
Michigan.....	189	-	2	-	-	-	3	-	-	-	2
Wisconsin.....	85	-	-	1	1	-	-	-	-	1	23
WEST NORTH CENTRAL...	279	1	2	2	6	-	4	1	1	3	278
Minnesota.....	11	-	-	-	-	-	1	-	-	1	72
Iowa.....	112	-	-	-	-	-	-	-	-	-	39
Missouri...*	11	-	-	-	3	-	2	-	-	1	90
North Dakota.....	69	-	-	-	-	-	-	-	-	1	35
South Dakota.....	17	-	-	-	-	-	-	1	1	-	13
Nebraska.....	52	-	-	-	-	-	1	-	-	-	8
Kansas...*	7	1	2	2	3	-	-	-	-	-	21
SOUTH ATLANTIC.....	789	1	10	2	15	2	16	6	17	23	462
Delaware.....	6	-	-	-	-	1	1	-	-	-	-
Maryland.....	139	-	-	-	-	-	2	4	4	-	-
Dist. of Columbia..	-	-	2	-	-	1	1	-	-	-	-
Virginia.....	175	-	-	-	-	-	-	1	2	10	248
West Virginia.....	217	-	1	-	2	-	1	-	3	3	70
North Carolina.....	10	-	1	-	5	-	3	1	8	-	4
South Carolina.....	111	-	1	1	2	-	1	-	-	-	-
Georgia.....	11	-	-	1	2	-	5	-	-	1	38
Florida.....	120	1	5	-	4	-	2	-	-	9	102
EAST SOUTH CENTRAL...	1118	-	4	1	8	-	11	2	14	7	266
Kentucky.....	103	-	2	-	-	-	2	-	1	1	148
Tennessee.....	832	-	2	1	7	-	8	2	12	3	89
Alabama.....	116	-	-	-	-	-	-	-	1	3	29
Mississippi.....	67	-	-	-	1	-	1	-	-	-	-
WEST SOUTH CENTRAL...	584	-	12	2	6	1	16	1	6	8	213
Arkansas.....	-	-	-	-	1	1	7	-	2	1	17
Louisiana.....	14	-	5	-	-	-	-	-	-	-	13
Oklahoma.....	30	-	1	1	4	-	-	-	2	1	35
Texas.....	540	-	6	1	1	-	9	1	2	6	148
MOUNTAIN.....	1472	-	-	2	7	-	14	-	4	5	67
Montana.....	26	-	-	-	-	-	-	-	-	-	-
Idaho.....	109	-	-	-	-	-	-	-	-	-	-
Wyoming.....	151	-	-	1	2	-	5	-	-	3	40
Colorado.....	837	-	-	-	-	-	2	-	4	-	2
New Mexico.....	112	-	-	-	1	-	5	-	-	-	7
Arizona.....	129	-	-	-	-	-	1	-	-	2	14
Utah.....	107	-	-	1	4	-	-	-	-	-	1
Nevada.....	1	-	-	-	-	-	1	-	-	-	3
PACIFIC.....	955	-	5	-	-	-	25	-	1	3	152
Washington.....	673	-	1	-	-	-	1	-	-	-	-
Oregon.....	123	-	-	-	-	-	6	-	-	-	-
California.....	-	-	4	-	-	-	18	-	1	3	152
Alaska.....	103	-	-	-	-	-	-	-	-	-	-
Hawaii.....	56	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	2	-	2	-	-	-	3	-	-	1	12

*Delayed reports: SST: Me. 6, Ohio delete 1, Mo. 657
Rabies in animals: Kans. delete 14

Morbidity and Mortality Weekly Report

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TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MAY 24, 1969

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

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	758	478	48	29	SOUTH ATLANTIC:	1,152	605	31	62
Boston, Mass.-----	224	139	10	4	Atlanta, Ga.-----	104	49	1	8
Bridgeport, Conn.-----	60	46	9	3	Baltimore, Md.-----	237	128	1	10
Cambridge, Mass.-----	21	14	7	—	Charlotte, N. C.-----	48	20	3	2
Fall River, Mass.-----	33	21	—	1	Jacksonville, Fla.-----	81	44	1	4
Hartford, Conn.-----	53	28	1	5	Miami, Fla.-----	104	60	—	7
Lowell, Mass.-----	37	24	2	1	Norfolk, Va.-----	60	37	5	3
Lynn, Mass.-----	22	14	—	1	Richmond, Va.-----	77	40	3	3
New Bedford, Mass.-----	22	16	—	—	Savannah, Ga.-----	44	16	4	6
New Haven, Conn.-----	63	40	2	5	St. Petersburg, Fla.-----	81	63	2	2
Providence, R. I.-----	63	32	4	4	Tampa, Fla.-----	74	42	3	3
Somerville, Mass.-----	11	9	1	—	Washington, D. C.-----	192	84	6	10
Springfield, Mass.-----	59	36	7	2	Wilmington, Del.-----	50	22	2	4
Waterbury, Conn.-----	29	18	—	1	EAST SOUTH CENTRAL:	667	359	19	37
Worcester, Mass.-----	61	41	5	2	Birmingham, Ala.-----	82	51	1	7
MIDDLE ATLANTIC:	3,166	1,925	119	131	Chattanooga, Tenn.-----	51	27	—	2
Albany, N. Y.-----	55	26	—	—	Knoxville, Tenn.-----	39	25	1	—
Allentown, Pa.-----	51	33	5	2	Louisville, Ky.-----	116	58	6	6
Buffalo, N. Y.-----	143	93	5	6	Memphis, Tenn.-----	166	93	6	10
Camden, N. J.-----	45	25	2	5	Mobile, Ala.-----	51	24	—	6
Elizabeth, N. J.-----	42	25	1	1	Montgomery, Ala.-----	66	34	3	3
Erie, Pa.-----	34	20	3	2	Nashville, Tenn.-----	96	47	2	3
Jersey City, N. J.-----	60	34	2	2	WEST SOUTH CENTRAL:	1,144	587	44	82
Newark, N. J.-----	57	25	7	4	Austin, Tex.-----	36	19	1	2
New York City, N. Y.-----	1,645	1,022	44	64	Baton Rouge, La.-----	52	20	1	6
Paterson, N. J.-----	31	21	1	1	Corpus Christi, Tex.-----	37	22	1	2
Philadelphia, Pa.-----	401	213	7	28	Dallas, Tex.-----	163	91	3	11
Pittsburgh, Pa.-----	195	108	15	7	El Paso, Tex.-----	47	28	6	7
Reading, Pa.-----	48	33	2	1	Fort Worth, Tex.-----	85	44	5	8
Rochester, N. Y.-----	109	77	13	2	Houston, Tex.-----	199	86	7	14
Schenectady, N. Y.-----	23	16	3	—	Little Rock, Ark.-----	54	31	6	—
Scranton, Pa.-----	43	29	—	1	New Orleans, La.-----	158	74	2	16
Syracuse, N. Y.-----	77	44	—	1	Oklahoma City, Okla.-----	81	43	4	1
Trenton, N. J.-----	44	32	1	1	San Antonio, Tex.-----	104	57	4	7
Utica, N. Y.-----	36	29	6	1	Shreveport, La.-----	61	37	1	6
Yonkers, N. Y.-----	27	20	2	1	Tulsa, Okla.-----	67	35	3	2
EAST NORTH CENTRAL:	2,733	1,538	96	142	MOUNTAIN:	452	264	20	26
Akron, Ohio-----	77	42	—	3	Albuquerque, N. Mex.-----	42	23	5	1
Canton, Ohio-----	53	37	2	3	Colorado Springs, Colo.-----	32	21	6	2
Chicago, Ill.-----	771	433	29	41	Denver, Colo.-----	118	61	2	10
Cincinnati, Ohio-----	196	127	4	4	Ogden, Utah-----	26	20	3	1
Cleveland, Ohio-----	216	108	7	7	Phoenix, Ariz.-----	108	61	3	7
Columbus, Ohio-----	130	51	1	12	Pueblo, Colo.-----	15	11	—	1
Dayton, Ohio-----	83	43	—	7	Salt Lake City, Utah-----	50	31	—	1
Detroit, Mich.-----	383	212	9	21	Tucson, Ariz.-----	61	36	1	3
Evansville, Ind.-----	48	28	4	2	PACIFIC:	1,673	1,030	48	65
Flint, Mich.-----	51	29	—	2	Berkeley, Calif.-----	23	20	2	—
Fort Wayne, Ind.-----	39	20	1	3	Fresno, Calif.-----	53	27	1	2
Gary, Ind.-----	37	20	5	3	Glendale, Calif.-----	25	21	—	—
Grand Rapids, Mich.-----	33	21	5	1	Honolulu, Hawaii-----	59	28	4	2
Indianapolis, Ind.-----	139	81	4	12	Long Beach, Calif.-----	86	50	—	1
Madison, Wis.-----	46	23	10	6	Los Angeles, Calif.-----	488	309	14	16
Milwaukee, Wis.-----	107	62	—	3	Oakland, Calif.-----	101	57	1	6
Peoria, Ill.-----	33	18	2	—	Pasadena, Calif.-----	51	35	—	—
Rockford, Ill.-----	34	19	4	2	Portland, Oreg.-----	160	109	8	8
South Bend, Ind.-----	55	33	5	2	Sacramento, Calif.-----	67	40	1	1
Toledo, Ohio-----	127	80	4	6	San Diego, Calif.-----	100	50	1	3
Youngstown, Ohio-----	75	51	—	2	San Francisco, Calif.-----	182	109	7	9
WEST NORTH CENTRAL:	799	486	23	25	San Jose, Calif.-----	43	28	1	1
Des Moines, Iowa-----	57	37	2	1	Seattle, Wash.-----	133	79	6	10
Duluth, Minn.-----	36	25	3	—	Spokane, Wash.-----	55	36	—	3
Kansas City, Kans.-----	37	19	2	4	Tacoma, Wash.-----	47	32	2	3
Kansas City, Mo.-----	115	69	2	2	Total	12,544	7,272	448	599
Lincoln, Nebr.-----	34	24	1	—	Cumulative Totals including reported corrections for previous weeks				
Minneapolis, Minn.-----	90	59	1	5	All Causes, All Ages-----	288,478			
Omaha, Nebr.-----	73	41	1	—	All Causes, Age 65 and over-----	167,015			
St. Louis, Mo.-----	238	136	5	9	Pneumonia and Influenza, All Ages-----	16,049			
St. Paul, Minn.-----	83	51	5	1	All Causes, Under 1 Year of Age-----	13,024			
Wichita, Kans.-----	36	25	1	3					

EPIDEMIOLOGIC NOTES AND REPORTS
TRICHINOSIS - New York City

Between Oct. 17 and Nov. 2, 1968, five women from five different families living in one neighborhood in New York City were diagnosed by three physicians as having trichinosis. Each person experienced a mild illness characterized by fever, periorbital edema, and myalgia, and each had eosinophilia ranging from 10 to 61 percent. All became ill several days after eating raw or very rare hamburger. Sera were obtained from four of the five patients. Three were positive for trichinosis by the flocculation test and the complement fixation test and the other was positive only by the flocculation test. Two patients were treated with corticosteroids, one with a piperazine compound, one with corticosteroids and piperazine, and one received no treatment. All recovered quickly and uneventfully.

Epidemiologic investigation found that four of the families purchased all their raw meat at a single neighborhood market and the other family bought mainly ground meat at this market. The five patients were the only members of their respective families who preferred to eat meat raw or very rare. Investigation at the market revealed that all meat was ground in the same grinder in a cold room out of view of the customer. Although a second grinder was present, it was used only in emergencies. Thus the same grinder could have been used to grind beef and pork. Since 2 to 3 oz. of meat may remain in a grinder after each use, it is possible that beef could have become contaminated with infected pork.

Control recommendations made to the market manager included the following: all meat grinding should be done outside the walk-in refrigerator in full view of the customer; the grinding head should be carefully washed and sterilized after grinding pork.

(Reported by Leo H. Buckner, M.D., Epidemiologist, and Tibor Fodor, M.D., Chief, Division of Epidemiology and Diagnosis, Vincent Guinee, M.D., Director, Bureau of Preventable Diseases, and Daniel Widelock, Ph.D., Deputy Director, Bureau of Laboratories, New York City Department of Health.)

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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:

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ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES AT CLOSE OF BUSINESS ON FRIDAY; COMPILED DATA ON A NATIONAL BASIS ARE OFFICIALLY RELEASED TO THE PUBLIC ON THE SUCCEEDING FRIDAY.

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