



Morbidity and Mortality

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WEEKLY REPORT

For Week Ending October 24, 1970

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

PRIMARY AMEBIC MENINGOENCEPHALITIS - Georgia

A 7-year-old boy was hospitalized in Atlanta on Aug. 3, 1970, with a 3-day history of illness beginning with headache and followed by fever and progressive stupor. On the day of admission he had an episode of vomiting and diarrhea. He had been in good health previously except for one seizure at 11 months of age, thought to be febrile in origin, and two head injuries several years ago, one of which required hospitalization but had no sequelae.

On physical examination the boy was markedly obtunded, staring blankly into space and responding to pain but not to verbal commands. His temperature was 102.6°F., pulse 140, respirations 28, blood pressure 90/70. Pertinent findings included slight anisocoria, lateral deviation of left eye, trismus, nuchal rigidity, decerebrate posturing, carpal pedal spasm, and positive Kernig's and Brudzinski's signs.

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Laboratory data included hemoglobin 14.2 Gm percent, WBC 19,850/mm³ with 81 segmented neutrophils, 1 band neutrophil, 13 lymphocytes, 5 monocytes. Lumbar puncture revealed cloudy fluid, RBC 300/mm³, WBC 6850/mm³ with 90 percent neutrophils, protein 380 mg percent, glucose 15 mg percent. Gram-negative rods were thought to be present initially on Gram stain, but all cultures were sterile.

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

DISEASE	42nd WEEK ENDED		MEDIAN 1965 - 1969	CUMULATIVE, FIRST 42 WEEKS		
	October 24, 1970	October 18, 1969		1970	1969	MEDIAN 1965 - 1969
Aseptic meningitis	290	79	79	4,934	2,765	2,462
Brucellosis	4	3	4	170	186	202
Diphtheria	16	3	4	369	141	141
Encephalitis, primary:						
Arthropod-borne & unspecified	57	30	37	1,264	1,019	1,320
Encephalitis, post-infectious	-	3	3	337	261	574
Hepatitis, serum	173	107	900	5,839	4,239	32,804
Hepatitis, infectious	1,227	948		45,399	37,810	
Malaria	113	156	40	2,762	2,474	1,634
Measles (rubeola)	296	159	367	40,717	21,183	59,079
Meningococcal infections, total	20	32	32	2,004	2,502	2,501
Civilian	19	31	31	1,805	2,295	2,295
Military	1	1	-	199	207	187
Mumps	1,154	917	---	80,587	71,574	---
Poliomyelitis, total	1	-	1	24	16	49
Paralytic	1	-	1	24	15	39
Rubella (German measles)	345	317	---	51,157	50,680	---
Tetanus	3	3	4	102	125	160
Tularemia	2	4	3	129	119	147
Typhoid fever	12	10	10	273	256	321
Typhus, tick-borne (Rky. Mt. spotted fever)	4	8	3	323	424	265
Rabies in animals	70	44	58	2,489	2,794	3,348

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: *	2	Psittacosis:	25
Botulism: Kans.-1	11	Rabies in Man:	2
Leptospirosis: Calif.-3, Hawaii-1, Tex.-1	99	Rubella congenital syndrome:	51
Leptospirosis: Pa.-1	35	Trichinosis: N.C.-1	85
Plague:	11	Typhus, murine:	32

*Delayed reports: Anthrax: Va. 1

PRIMARY AMEBIC MENINGOENCEPHALITIS - (Continued from front page)

The patient was given intravenous fluids, ampicillin, phenobarbital, mannitol, and steroids. His condition rapidly deteriorated, with increasing cerebral edema, gastrointestinal bleeding, and two cardiorespiratory arrests. He died 48 hours after admission.

At autopsy there was edema and congestion of the brain with a purulent exudate and scattered areas of focal hemorrhage. Small abscesses were seen in the frontal lobes and olfactory bulbs; microscopic examination of these areas demonstrated necrotic debris and many amebae. Re-examination of the original CSF Gram stained slides also revealed ameba-like organisms. On the basis of these findings, a diagnosis of primary amebic meningoencephalitis was made.

This is the first reported case of primary amebic meningoencephalitis in Georgia. The typical fulminating illness is thought to be caused by free-living amebae, *Naegleria sp.*, and is usually associated with swimming in fresh water.

Treatment has not been satisfactory, and almost all reported cases have ended fatally.

On July 26, 1970, the patient and two siblings had been swimming in a municipal pool, where they had swum regularly during the summer. On July 30, the family of six swam in a lake about 40 miles south of Atlanta. The following day, the patient and one of his siblings who had swum in both places complained of headaches; however, symptoms in the latter child abated after several hours. Although the rest of the family has remained well, nasal cultures have been obtained from all members, and an epidemiologic investigation is being conducted.

(Reported by Dr. John E. McCroan, State Epidemiologist, Georgia Dept. of Public Health, Atlanta; Dr. Joseph Patterson, Chief Physician, Eggleston Hospital, Atlanta; Pathology Department, Emory University, Atlanta; Laboratory Division and Parasitic Diseases Branch, Epidemiology Program, CDC; and an EIS Officer.)

SURVEILLANCE SUMMARY

MENINGOCOCCAL DISEASE - United States, Epidemiologic Year 1970

For the meningococcal epidemiologic year 1970, August 30, 1969 (35th week) through August 29, 1970 (34th week), 2,475 cases of meningococcal disease were reported to the CDC. This gives an annual incidence for the United States of 1.21 cases per 100,000 population compared with 1.43 cases per 100,000 for EY 1969 and an average incidence of 1.46 cases per 100,000 for the preceding 5 epidemiologic years. As in previous years, the monthly incidence reached its peak in the late winter and early spring (Figure 1). The incidence of civilian meningococcal dis-

ease by state varied from 0.00 to 2.39 cases per 100,000 (Figure 2). Military and civilian cases have been reported separately by most states to CDC for only 5 years. Rates shown in the annual supplement to the MMWR (Vol. 17, No. 53) are calculated for civilian and military cases combined, and for a few states, particularly New Jersey, they differ significantly from those shown in Figure 2.

Attack rates for meningococcal disease were highest for the pediatric age groups (Figure 3). The secondary peak in the 15-19- and in the 20-24-year age groups is due, at least in part, to cases in military recruits. During the calendar year 1969, 1,118 (42 percent) of the cases for which age was known occurred in persons under the age of 5 (Table 1).

Three hundred seventy-nine isolates of *Neisseria meningitidis* from blood, cerebrospinal fluid, joints, and

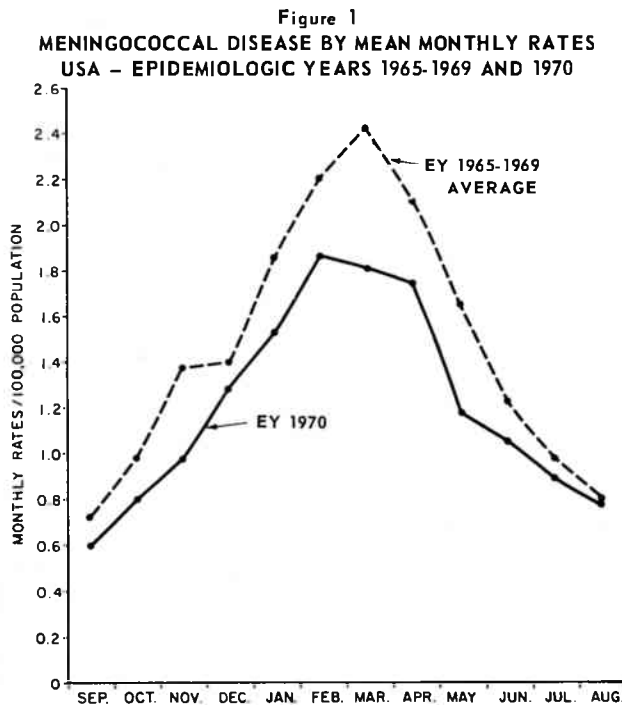


Figure 2
INCIDENCE OF MENINGOCOCCAL DISEASE IN CIVILIANS
PER 100,000 POPULATION - USA, EY 1970

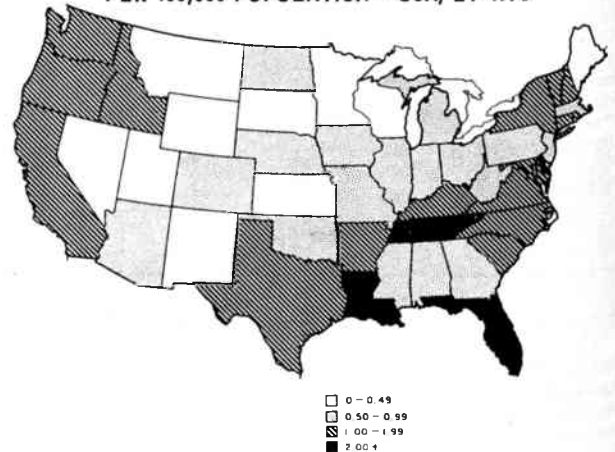


Figure 3
MENINGOCOCCAL DISEASE ATTACK RATES BY AGE GROUP
USA - 1969

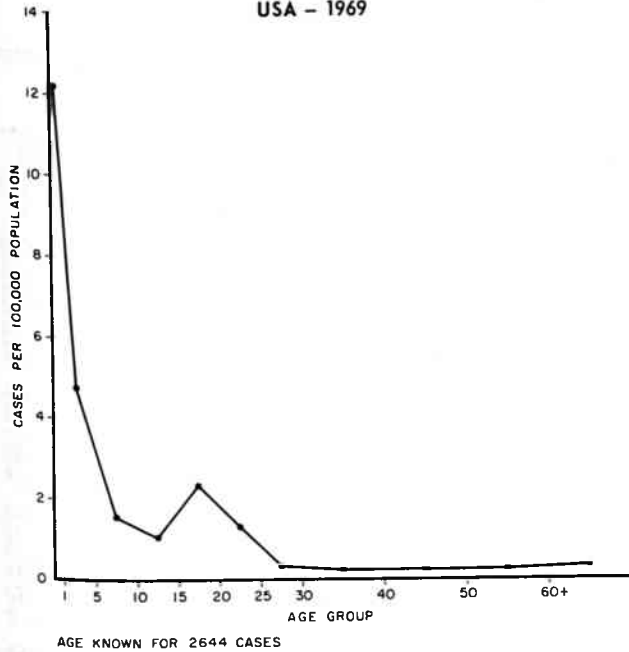


Table 1
Age Distribution
Reported Cases of Meningococcal Disease by Age Group
USA - 1969

Age Group (Years)	Number of Cases
<1	427
1-4	691
5-9	331
10-14	222
15-19	437
20-24	221
25+	315
Unknown	307
Total	2,951

conjunctivae were submitted to CDC for confirmation of serogroup and determination of sulfonamide sensitivity. The geographic distribution of submitted isolates from civilian cases reflects, in general, the geographic distribution of reported cases (Table 2). The predominance of serogroup C meningococci first noted in 1969 continues, with serogroup C isolates making up 60.7 percent of the civilian isolates and 95.1 percent of the military isolates (Table 3). The percentage of sulfonamide-resistant meningococcal isolates has continued to increase (Figure 4), primarily reflecting the growing predominance of serogroup C strains. Sixty-eight percent of all isolates received during EY 1970 were resistant to sulfadiazine at a concentration of 1.0 mg percent or greater. Though the number of isolates from military sources is small and not geographically representative, the data on serogroup and sulfonamide sensitivity agree well with a larger, more representative sample of military isolates. (1) Efforts to develop meningococcal

(Continued on page 420)

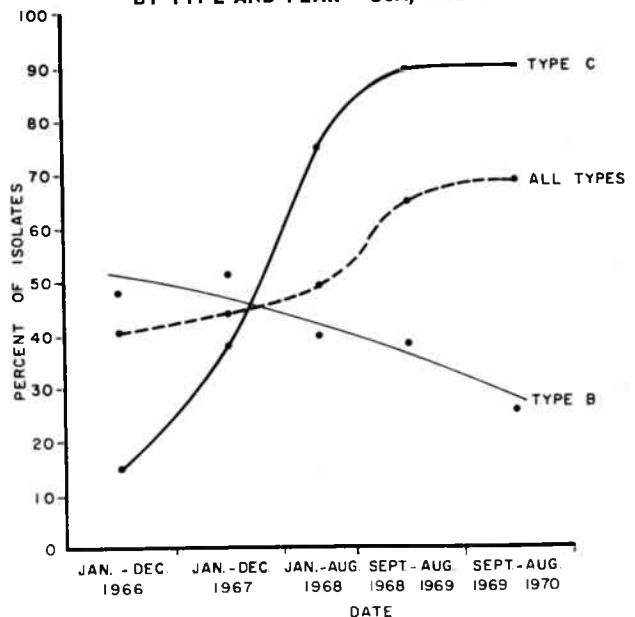
Table 2
Percentage of Meningococcal Cases and Submitted Isolates
by U.S. Geographic Division - EY 1970

Division	Civilian		Military	
	Percent Reported Cases	Percent Submitted Isolates	Percent Cases	Percent Isolates
Northeast	5	13	1	--
Middle Atlantic	15	9	41	95
East North Central	13	9	--	--
West North Central	4	4	14	--
South Atlantic	20	28	16	1
East South Central	7	7	19	2
West South Central	14	15	4	--
Mountain	2	2	2	--
Pacific	19	13	2	1
Whole Country	99	100	99	99
Total Number of Cases or Isolates	2,233	298	242	81

Table 3
Meningococcal Isolates from Cases by Serogroup
USA - EY 1970

Serogroup	Civilian		Military	
	Number	Percent	Number	Percent
A	2	0.7	--	--
B	91	30.5	1	1.2
C	181	60.7	77	95.1
D	--	--	--	--
X	--	--	--	--
Y	16	5.4	3	3.7
Z	3	1.0	--	--
Not typed or Untypable	5	1.7	--	--
Total	298	100.0	81	100.0

Figure 4
RESISTANCE TO SULFADIAZINE (≥ 1.0 mg %) AMONG
MENINGOCOCCAL ISOLATES FROM PATIENTS
BY TYPE AND YEAR - USA, 1966-1970



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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 24, 1970 AND OCTOBER 18, 1969 (42nd 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.....	290	4	16	57	30	-	173	1,227	948	113	2,762
NEW ENGLAND.....	8	-	-	2	1	-	7	99	122	-	76
Maine.....	-	-	-	-	-	-	-	12	11	-	8
New Hampshire.....	-	-	-	-	-	-	-	-	5	-	6
Vermont.....	-	-	-	-	-	-	-	6	2	-	5
Massachusetts.....	4	-	-	1	-	-	3	36	62	-	36
Rhode Island.....	-	-	-	1	-	-	1	11	17	-	9
Connecticut.....	4	-	-	-	1	-	3	34	25	-	12
MIDDLE ATLANTIC.....	120	1	-	4	1	-	59	291	135	7	276
New York City.....	80	-	-	-	-	-	25	89	40	-	36
New York, Up-State...	21	-	-	-	1	-	7	41	10	6	84
New Jersey.*.....	15	-	-	-	-	-	20	63	52	-	70
Pennsylvania.....	4	1	-	4	-	-	7	98	33	1	86
EAST NORTH CENTRAL.....	36	-	-	28	11	-	13	188	161	5	163
Ohio.*.....	19	-	-	14	7	-	2	47	43	1	28
Indiana.....	2	-	-	2	-	-	-	13	24	1	19
Illinois.....	1	-	-	1	1	-	4	49	23	-	44
Michigan.....	13	-	-	11	3	-	7	70	63	3	72
Wisconsin.....	1	-	-	-	-	-	-	9	8	-	-
WEST NORTH CENTRAL.....	1	1	-	4	3	-	6	39	25	5	268
Minnesota.*.....	1	1	-	-	-	-	1	3	3	-	22
Iowa.....	-	-	-	1	1	-	-	5	7	-	21
Missouri.....	-	-	-	-	-	-	2	19	4	-	25
North Dakota.....	-	-	-	1	1	-	-	-	-	-	3
South Dakota.....	-	-	-	-	-	-	-	1	-	-	2
Nebraska.....	-	-	-	-	1	-	1	7	6	3	6
Kansas.....	-	-	-	2	-	-	2	4	5	2	189
SOUTH ATLANTIC.....	27	-	2	3	5	-	18	105	108	7	523
Delaware.....	1	-	-	-	-	-	-	1	5	-	2
Maryland.....	5	-	-	-	-	-	5	18	17	1	69
Dist. of Columbia...	1	-	-	-	-	-	-	8	1	-	2
Virginia.....	9	-	-	2	2	-	5	11	14	-	70
West Virginia.....	-	-	-	1	1	-	-	10	12	-	10
North Carolina.....	1	-	-	-	1	-	2	9	27	4	200
South Carolina.....	1	-	-	-	-	-	-	3	4	2	49
Georgia.....	-	-	1	-	-	-	-	18	9	-	74
Florida.*.....	9	-	1	-	1	-	6	27	19	-	47
EAST SOUTH CENTRAL.....	20	-	1	3	2	-	1	55	57	8	176
Kentucky.....	5	-	-	2	-	-	-	12	24	8	143
Tennessee.....	3	-	-	-	2	-	-	36	14	-	-
Alabama.....	9	-	1	-	-	-	1	6	17	-	22
Mississippi.....	3	-	-	1	-	-	-	1	2	-	11
WEST SOUTH CENTRAL.....	9	1	12	2	-	-	7	70	73	8	491
Arkansas.*.....	-	-	-	2	-	-	-	9	1	2	13
Louisiana.....	-	-	-	-	-	-	5	8	12	-	34
Oklahoma.....	5	1	-	-	-	-	-	10	7	4	85
Texas.....	4	-	12	-	-	-	2	43	53	2	359
MOUNTAIN.....	1	-	-	2	4	-	10	45	47	60	270
Montana.....	-	-	-	-	3	-	-	-	1	-	10
Idaho.....	-	-	-	-	-	-	-	-	-	-	6
Wyoming.....	-	-	-	-	1	-	-	-	4	-	6
Colorado.....	1	-	-	2	-	-	7	25	16	60	232
New Mexico.....	-	-	-	-	-	-	-	5	8	-	9
Arizona.....	-	-	-	-	-	-	-	7	14	-	10
Utah.....	-	-	-	-	-	-	3	8	3	-	3
Nevada.....	-	-	-	-	-	-	-	-	1	-	-
PACIFIC.....	68	1	1	9	3	-	52	335	220	13	519
Washington.....	2	-	-	-	-	-	-	30	27	-	45
Oregon.....	1	-	-	-	1	-	2	17	16	1	16
California.....	54	1	1	9	2	-	50	282	172	12	334
Alaska.....	9	-	-	-	-	-	-	6	1	-	1
Hawaii.....	2	-	-	-	-	-	-	-	4	-	123
Puerto Rico.....	-	-	-	-	-	-	2	14	19	-	10
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-

*Delayed reports: Encephalitis, primary: Minn. 3, Fla. 1
Hepatitis, infectious: N.J. delete 1, Ohio delete 1, Ark. 9

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
OCTOBER 24, 1970 AND OCTOBER 18, 1969 (42nd WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	1970	Cumulative		1970	Cumulative		1970	Cum. 1970	Total	Paralytic	
		1970	1969		1970	1969			1970	1970	1970
UNITED STATES.....	296	40,717	21,183	20	2,004	2,502	1,154	80,587	1	1	24
NEW ENGLAND.....	7	921	1,121	-	84	99	97	9,269	-	-	-
Maine.....	-	223	9	-	3	7	-	705	-	-	-
New Hampshire.....	1	59	239	-	8	3	6	339	-	-	-
Vermont.....	-	8	3	-	7	-	9	614	-	-	-
Massachusetts.....	4	416	222	-	37	38	22	2,904	-	-	-
Rhode Island.....	-	120	27	-	6	13	42	1,637	-	-	-
Connecticut.....	2	95	621	-	23	38	18	3,070	-	-	-
MIDDLE ATLANTIC.....	25	4,979	7,578	1	363	410	38	7,767	-	-	-
New York City.....	12	937	4,943	-	84	77	26	2,872	-	-	-
New York, Up-State...	7	318	606	-	72	79	NN	NN	-	-	-
New Jersey.....	1	1,713	926	-	138	163	3	2,108	-	-	-
Pennsylvania.....	5	2,011	1,103	1	69	91	9	2,787	-	-	-
EAST NORTH CENTRAL.....	19	9,924	2,365	5	234	342	328	21,701	-	-	2
Ohio.....	8	3,823	394	2	88	126	36	3,809	-	-	-
Indiana.....	-	273	468	-	20	45	42	1,934	-	-	-
Illinois.....	4	3,088	582	-	56	49	7	1,789	-	-	-
Michigan.....	2	1,769	315	3	60	97	95	5,293	-	-	1
Wisconsin.....	5	971	606	-	10	25	148	8,876	-	-	1
WEST NORTH CENTRAL.....	2	3,880	662	2	105	127	83	4,200	-	-	1
Minnesota*.....	1	39	8	1	16	28	12	400	-	-	-
Iowa.....	1	1,153	336	-	13	19	56	2,520	-	-	-
Missouri*.....	-	1,276	30	1	57	52	3	385	-	-	1
North Dakota.....	-	320	15	-	5	2	12	322	-	-	-
South Dakota.....	-	96	3	-	1	1	-	41	-	-	-
Nebraska.....	-	928	263	-	7	9	-	388	-	-	-
Kansas.....	-	68	7	-	6	16	-	144	-	-	-
SOUTH ATLANTIC.....	27	7,263	2,580	3	398	437	120	9,160	-	-	1
Delaware.....	2	264	394	-	3	13	5	321	-	-	-
Maryland.....	1	1,377	77	-	41	40	8	968	-	-	-
Dist. of Columbia...	1	344	26	-	3	9	-	190	-	-	-
Virginia.....	3	2,011	886	-	41	55	12	2,055	-	-	-
West Virginia.....	-	319	212	-	10	19	61	2,275	-	-	1
North Carolina.....	2	882	318	3	86	78	NN	NN	-	-	-
South Carolina.....	-	597	125	-	45	56	7	897	-	-	-
Georgia.....	1	15	2	-	35	73	-	3	-	-	-
Florida.....	17	1,454	540	-	134	94	27	2,451	-	-	-
EAST SOUTH CENTRAL.....	19	1,407	113	-	147	156	70	4,670	-	-	-
Kentucky.....	3	801	66	-	52	54	20	1,659	-	-	-
Tennessee.....	4	389	17	-	60	61	46	2,680	-	-	-
Alabama.....	12	127	6	-	24	24	4	283	-	-	-
Mississippi.....	-	90	24	-	11	17	-	48	-	-	-
WEST SOUTH CENTRAL.....	52	7,844	4,711	2	265	334	96	7,736	1	1	19
Arkansas.....	-	30	16	-	22	31	-	127	-	-	-
Louisiana.....	2	148	122	-	64	90	1	38	-	-	-
Oklahoma.....	23	554	142	-	20	32	17	2,533	-	-	-
Texas.....	27	7,112	4,431	2	159	181	78	5,038	1	1	19
MOUNTAIN.....	21	1,599	962	-	45	49	70	3,715	-	-	1
Montana*.....	-	67	35	-	1	8	1	749	-	-	-
Idaho.....	12	69	90	-	6	11	-	91	-	-	-
Wyoming.....	-	11	-	-	2	-	-	36	-	-	-
Colorado.....	1	184	141	-	16	8	44	1,214	-	-	1
New Mexico.....	6	234	264	-	1	6	6	729	-	-	-
Arizona.....	1	977	421	-	15	10	19	772	-	-	-
Utah.....	1	36	10	-	3	4	-	124	-	-	-
Nevada.....	-	21	1	-	1	2	-	-	-	-	-
PACIFIC.....	124	2,900	1,091	7	363	548	252	12,369	-	-	-
Washington.....	12	554	62	-	44	56	84	4,561	-	-	-
Oregon.....	88	368	200	-	28	18	16	1,080	-	-	-
California.....	22	1,648	778	7	288	453	127	5,097	-	-	-
Alaska.....	-	141	9	-	-	11	-	390	-	-	-
Hawaii.....	2	189	42	-	3	10	25	1,241	-	-	-
Puerto Rico.....	25	956	1,667	-	5	19	15	804	-	-	-
Virgin Islands.....	-	6	42	-	1	-	-	3	-	-	-

*Delayed reports: Measles: Mont. 5
Mumps: Minn. 18, Mo. 100

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
OCTOBER 24, 1970 AND OCTOBER 18, 1969 (42nd 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.....	345	51,157	3	102	2	129	12	273	4	323	70	2,489
NEW ENGLAND.....	21	2,567	-	4	-	1	2	9	-	-	5	96
Maine.....	10	438	-	-	-	-	-	-	-	-	3	38
New Hampshire.....	1	152	-	-	-	-	-	-	-	-	-	1
Vermont.....	1	58	-	-	-	-	-	-	-	-	-	48
Massachusetts.....	3	1,223	-	2	-	1	2	7	-	-	-	4
Rhode Island.....	-	116	-	-	-	-	-	-	-	-	-	1
Connecticut.....	6	580	-	2	-	-	-	2	-	-	-	4
MIDDLE ATLANTIC.....	17	4,042	1	10	-	2	3	55	-	13	1	214
New York City.....	11	627	-	3	-	-	1	16	-	-	-	-
New York, Up-State..	1	449	1	3	-	1	-	19	-	6	1	198
New Jersey.....	1	861	-	3	-	-	-	10	-	4	-	-
Pennsylvania.....	4	2,105	-	1	-	1	2	10	-	3	-	16
EAST NORTH CENTRAL....	70	10,624	1	19	-	20	1	38	-	9	10	203
Ohio.....	8	2,071	-	1	-	2	-	13	-	8	7	51
Indiana.....	21	1,939	1	8	-	14	1	3	-	-	-	21
Illinois.....	8	1,723	-	4	-	2	-	8	-	1	1	58
Michigan.....	17	2,763	-	6	-	-	-	12	-	-	-	23
Wisconsin.....	16	2,128	-	-	-	2	-	2	-	-	2	50
WEST NORTH CENTRAL....	13	3,331	-	4	-	29	-	9	-	4	20	508
Minnesota.....	1	122	-	1	-	1	-	1	-	-	6	104
Iowa.....	8	2,019	-	1	-	-	-	1	-	1	4	101
Missouri.....	-	424	-	1	-	25	-	3	-	3	5	93
North Dakota.....	-	153	-	-	-	1	-	2	-	-	2	35
South Dakota.....	-	1	-	1	-	1	-	-	-	-	-	85
Nebraska.....	4	563	-	-	-	-	-	2	-	-	-	6
Kansas.....	-	49	-	-	-	1	-	-	-	-	3	84
SOUTH ATLANTIC.....	13	6,427	-	26	-	14	1	38	1	217	17	496
Delaware.....	-	46	-	-	-	-	-	-	-	5	-	-
Maryland.....	1	322	-	-	-	-	-	9	-	21	1	2
Dist. of Columbia...	-	20	-	1	-	-	-	1	-	-	-	-
Virginia.....	5	720	-	1	-	6	-	8	-	57	6	199
West Virginia.....	2	1,372	-	-	-	-	-	-	-	5	2	127
North Carolina.....	-	43	-	3	-	4	1	3	1	86	1	2
South Carolina.....	-	653	-	1	-	-	-	-	-	35	-	-
Georgia.....	-	-	-	6	-	3	-	8	-	8	5	95
Florida.....	5	3,251	-	14	-	1	-	9	-	-	2	71
EAST SOUTH CENTRAL....	23	2,752	-	13	-	8	-	35	2	38	3	194
Kentucky.....	9	946	-	1	-	2	-	9	-	3	3	108
Tennessee.....	5	1,404	-	4	-	6	-	17	-	22	-	52
Alabama.....	5	309	-	6	-	-	-	8	2	10	-	33
Mississippi.....	-	93	-	2	-	-	-	1	-	3	-	1
WEST SOUTH CENTRAL....	17	8,902	-	15	2	35	3	28	1	35	4	402
Arkansas.....	1	35	-	3	1	18	-	7	-	6	-	69
Louisiana.....	-	150	-	4	-	5	3	7	-	1	3	62
Oklahoma.....	1	812	-	-	-	6	-	1	-	22	-	82
Texas.....	15	7,905	-	8	1	6	-	13	1	6	1	189
MOUNTAIN.....	12	2,033	-	-	-	12	-	15	-	6	2	82
Montana.....	1	321	-	-	-	1	-	1	-	1	-	1
Idaho.....	-	195	-	-	-	-	-	-	-	2	-	-
Wyoming.....	-	134	-	-	-	-	-	2	-	1	-	3
Colorado.....	3	404	-	-	-	-	-	3	-	2	-	34
New Mexico.....	3	218	-	-	-	-	-	6	-	-	1	15
Arizona.....	5	598	-	-	-	-	-	2	-	-	-	13
Utah.....	-	163	-	-	-	11	-	1	-	-	1	3
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	13
PACIFIC.....	159	10,479	1	11	-	8	2	46	-	1	8	294
Washington.....	37	4,740	-	2	-	2	-	4	-	-	-	9
Oregon.....	6	894	-	3	-	2	-	1	-	-	-	4
California.....	106	4,525	1	6	-	4	2	38	-	1	8	272
Alaska.....	7	106	-	-	-	-	-	2	-	-	-	9
Hawaii.....	3	214	-	-	-	-	-	1	-	-	-	-
Puerto Rico.....	-	27	-	11	-	-	1	5	-	-	-	41
Virgin Islands.....	-	1	-	-	-	-	-	1	-	-	-	-

Morbidity and Mortality Weekly Report

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Week No. **42** TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED OCTOBER 24, 1970

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

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	747	441	38	45	SOUTH ATLANTIC:	1,126	557	42	46
Boston, Mass.-----	249	140	18	17	Atlanta, Ga.-----	156	68	5	11
Bridgeport, Conn.-----	40	27	3	2	Baltimore, Md.-----	235	124	4	7
Cambridge, Mass.-----	25	13	3	2	Charlotte, N. C.-----	46	21	—	—
Fall River, Mass.-----	27	17	—	—	Jacksonville, Fla.-----	83	33	2	3
Hartford, Conn.-----	68	30	—	4	Miami, Fla.-----	108	59	1	4
Lowell, Mass.-----	24	17	—	2	Norfolk, Va.-----	59	25	2	3
Lynn, Mass.-----	24	18	2	—	Richmond, Va.-----	87	48	6	3
New Bedford, Mass.-----	28	21	—	—	Savannah, Ga.-----	36	14	3	2
New Haven, Conn.-----	55	32	—	5	St. Petersburg, Fla.-----	75	53	4	5
Providence, R. I.-----	64	42	6	6	Tampa, Fla.-----	66	33	6	4
Somerville, Mass.-----	18	11	—	2	Washington, D. C.-----	122	55	6	2
Springfield, Mass.-----	59	32	3	3	Washington, Del.-----	53	24	3	2
Waterbury, Conn.-----	31	22	—	2	EAST SOUTH CENTRAL:	693	377	31	25
Worcester, Mass.-----	35	19	3	2	Birmingham, Ala.-----	88	37	1	7
MIDDLE ATLANTIC:	3,422	1,996	112	118	Chattanooga, Tenn.-----	57	30	6	2
Albany, N. Y.-----	55	32	1	1	Knoxville, Tenn.-----	54	36	4	1
Allentown, Pa.-----	40	25	3	2	Louisville, Ky.-----	139	84	13	4
Buffalo, N. Y.-----	180	105	7	10	Memphis, Tenn.-----	153	83	1	2
Camden, N. J.-----	37	20	3	1	Mobile, Ala.-----	44	22	1	1
Elizabeth, N. J.-----	34	18	1	—	Montgomery, Ala.-----	42	21	2	—
Erie, Pa.-----	40	26	1	1	Nashville, Tenn.-----	116	64	3	8
Jersey City, N. J.-----	60	38	7	2	WEST SOUTH CENTRAL:	1,199	623	47	64
Newark, N. J.-----	61	27	—	3	Austin, Tex.-----	40	19	3	6
New York City, N. Y.†-----	1,656	951	44	54	Baton Rouge, La.-----	31	13	3	4
Paterson, N. J.-----	69	31	5	5	Corpus Christi, Tex.-----	23	14	—	1
Philadelphia, Pa.**-----	510	285	6	18	Dallas, Tex.-----	166	85	3	9
Pittsburgh, Pa.-----	187	115	8	8	El Paso, Tex.-----	42	21	—	9
Reading, Pa.-----	58	39	4	1	Fort Worth, Tex.-----	100	53	6	5
Rochester, N. Y.-----	138	87	5	4	Houston, Tex.-----	242	118	6	5
Schenectady, N. Y.-----	20	17	3	—	Little Rock, Ark.-----	76	35	5	4
Scranton, Pa.-----	44	28	2	1	New Orleans, La.-----	158	72	3	4
Syracuse, N. Y.-----	105	67	3	3	Oklahoma City, Okla.-----	75	48	1	3
Trenton, N. J.-----	53	33	2	2	San Antonio, Tex.-----	116	64	4	8
Utica, N. Y.-----	34	20	4	1	Shreveport, La.-----	70	39	5	3
Yonkers, N. Y.-----	41	32	3	1	Tulsa, Okla.-----	60	42	8	3
EAST NORTH CENTRAL:	2,657	1,514	93	144	MOUNTAIN:	491	271	20	29
Akron, Ohio-----	55	34	1	4	Albuquerque, N. Mex.-----	59	22	7	6
Canton, Ohio-----	34	20	1	4	Colorado Springs, Colo.-----	29	18	3	1
Chicago, Ill.-----	703	365	19	41	Denver, Colo.-----	130	75	4	5
Cincinnati, Ohio-----	165	107	4	6	Ogden, Utah-----	17	6	—	2
Cleveland, Ohio-----	190	98	2	12	Phoenix, Ariz.-----	111	71	—	5
Columbus, Ohio-----	185	108	16	12	Pueblo, Colo.-----	24	14	—	4
Dayton, Ohio-----	87	47	7	3	Salt Lake City, Utah-----	46	23	1	6
Detroit, Mich.-----	353	183	11	18	Tucson, Ariz.-----	75	42	5	—
Evansville, Ind.-----	48	34	3	3	PACIFIC:	1,724	1,000	36	113
Flint, Mich.-----	38	21	2	1	Berkeley, Calif.-----	14	9	—	—
Fort Wayne, Ind.-----	61	32	5	1	Fresno, Calif.-----	41	20	3	3
Gary, Ind.-----	29	18	3	1	Glendale, Calif.-----	39	27	—	2
Grand Rapids, Mich.-----	67	44	3	7	Honolulu, Hawaii-----	47	19	2	5
Indianapolis, Ind.-----	183	112	2	8	Long Beach, Calif.-----	101	59	—	2
Madison, Wis.-----	26	15	2	2	Los Angeles, Calif.-----	627	361	19	62
Milwaukee, Wis.-----	149	101	1	2	Oakland, Calif.-----	57	31	—	7
Peoria, Ill.-----	33	18	—	6	Pasadena, Calif.-----	38	24	—	—
Rockford, Ill.-----	28	17	1	3	Portland, Oreg.-----	110	64	1	8
South Bend, Ind.-----	45	25	4	3	Sacramento, Calif.-----	53	32	—	1
Toledo, Ohio-----	113	76	3	6	San Diego, Calif.-----	121	71	—	6
Youngstown, Ohio-----	65	39	3	1	San Francisco, Calif.-----	184	109	4	2
WEST NORTH CENTRAL:	866	532	28	36	San Jose, Calif.-----	30	17	2	2
Des Moines, Iowa-----	63	39	3	3	Seattle, Wash.-----	172	96	2	10
Duluth, Minn.-----	37	21	3	2	Spokane, Wash.-----	50	37	1	1
Kansas City, Kans.-----	35	15	3	5	Tacoma, Wash.-----	40	24	2	2
Kansas City, Mo.-----	120	76	2	4	Total	12,925	7,311	447	620
Lincoln, Nebr.-----	44	34	—	—	Expected Number	12,400	7,082	415	542
Minneapolis, Minn.-----	123	85	3	7	Cumulative Total	539,475	307,440	20,942	25,658
Omaha, Nebr.-----	62	36	1	2	(includes reported corrections for previous weeks)				
St. Louis, Mo.-----	253	145	9	9					
St. Paul, Minn.-----	69	42	—	2					
Wichita, Kans.-----	60	39	4	2					
Las Vegas, Nev.*	24	12	—	1					

*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 October 17, 1970

**Estimated based on average percent of divisional total.

MENINGOCOCCAL - (Continued from page 415)

gococcal vaccines have increased in recent years under the pressure of finding a growing number of sulfonamide-resistant isolates. Currently serogroup A and C polysaccharide vaccines developed by the Walter Reed Army Institute of Research are being evaluated in civilian children and adults.

(Reported by the Special Pathogens Section, Bacterial Diseases Branch, Epidemiology Program, CDC, and the Laboratory Division, CDC.)

Reference:

1. Artenstein MS, et al, Walter Reed Army Institute of Research: personal communication.

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:

Albania

In the note concerning smallpox insert: Turkey.

Belgium

Insert: Cholera - II.

Bulgaria

In the note concerning cholera insert: Liberia, Tunisia.

Congo, Democratic Republic of

Insert: Cholera. - Certificate required from travelers arriving from all countries any parts of which are infected and from those proceeding to these countries.

Gambia

Insert: Cholera. - And from Liberia and Sierra Leone.

Nepal

Insert: Yellow Fever. - II.

Somali

Delete all information concerning cholera and insert. Cholera. - Certificate required from Guinea, Iraq, North Korea, North Vietnam, Qatar, Southern Yemen, Thailand, UAR, Yemen, and all countries any parts of which are infected.

Trinidad and Tobago

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

Union of Soviet Socialist Republics

In the note concerning cholera insert: Liberia.

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

DIRECTOR, CENTER FOR DISEASE CONTROL DAVID J. SENCER, M.D.
DIRECTOR, EPIDEMIOLOGY PROGRAM PHILIP S. BRACHMAN, M.D.

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.

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