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For Week Ending September 12, 1970

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE # HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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CURRENT TRENDS ASEPTIC MENINGITIS - United States 1970

Through September 12, 3,091 cases of aseptic memingitis have been reported to the CDC for 1970. This represents the greatest total number of cases reported through this time for any year since 1963, the year in which this syndrome was first reported as a distinct entity (Figure 1). Increased levels of reporting have been noted for the Middle Atlantic, South Atlantic, Mountain, and Pacific divisions. Although in part this increased number of cases is due to emphasis on reporting, reports from several states correlated with recognized outbreaks of aseptic meningitis.

In a number of instances, these outbreaks of aseptic meningitis were associated with a specific enteroviral agent. Echovirus types 6 and 9 were isolated from persons with aseptic meningitis in Florida (MMWR, Vol. 19, No. 29); echovirus type 6 was implicated in an outbreak earlier in the summer in the Atlanta, Georgia, area (MMWR, Vol. 19,

No. 26), and echovirus type 9 was associated with an outbreak in Arizona. Echovirus type 3 was associated with outbreaks in Michigan and Minnesota, and echovirus type 4 with an outbreak in the District of Columbia. Localized outbreaks associated with echovirus types 1, 2, 3, 4, 9, 12, and 28 were reported from California. Results of virologic studies are pending for local outbreaks reported from New (Continued on page 358)

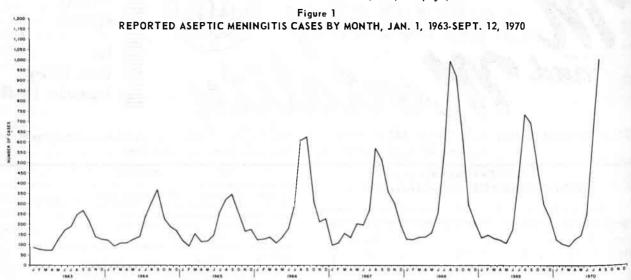
TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

	36th WE	EK ENDED		CUMULATIVE, FIRST 36 WEEKS			
DISEASE	September 12, 1970	September 6. 1969	MEDIAN 1965 - 1969	1970	1969	MEDIAN 1965 - 1969	
Aseptic meningitis	276	148	144	3,091	1,856	1,775	
Brucellosis	7	5	3	143	153	164	
Encephalitis, primary:	27	4	7	272	108	108	
Arthropod-borne & unspecified	50	40	42	947	774	1,084	
Encephalitis, post-infectious	5	1	10	319	239	534	
Hepatitis, infectious	111 933	75 845	628	4,950 38,399	3,611 31,945	27,659	
Malaria.	36	51	32	2,333	1,932	1,355	
measies (rubeola)	118	122	194	39,508	20,258	57,620	
Meningococcal infections, total	23	23	23	1,844	2,346	2,291	
Civilian	19	22	22	1,656	2,140	2,110	
Military	4	1		188	206	181	
Mumps	552	364		75,443	67,742		
Follomyelitis, total	-		3	18	11	40	
raralytic	-	_	2	18	11	37	
Audella (German measles)	292	208		49,252	48,791		
retanus	4	5	5	81	99	120	
- ularemia	9	6	2	101	103	125	
Typhoid fever	11	11	11	208	201	252	
'ypnus, tick-borne (Rkv. Mt. spotted fever) . I	10	21	12	289	375	229	
Rabies in animals	55	58	62	2,146	2,490	2,979	

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Botulism: Leprosy: Calif2, La1 Leptospirosis: Ind1 Plague:	9 90 30	Psittacosis: Md1 Rabies in Man: Rubella congenital syndrome: Trichinosis: La1, Mass2, N.Y.Ups1, Va1 Typhus, murine: S.C1	2 45 72

ASEPTIC MENINGITIS - (Continued from front page)



York City, Pennsylvania, Virginia, Kentucky, Tennessee, Kansas, and Alaska.

(Reported by the Neurotropic Viral Diseases Unit, Epidemiology Program, CDC.)

Editorial Comment:

Although echovirus types 6 and 9 have frequently been implicated in localized outbreaks of aseptic meningitis during each of the years from 1963 through 1970, echovirus

types 3 and 4 have been isolated only sporadically during most of this 10-year period; at this time, however, activity of echovirus types 3 and 4 appears to be increasing in 1970. Infection with echovirus type 30, an enterovirus frequently reported in association with aseptic meningitis during 1968*, has been implicated only rarely for outbreaks to date in 1970.

*1970 data are compared with 1968 data because 1969 data have not been finalized.

EPIDEMIOLOGIC NOTES AND REPORTS LEAD POISONING - Newark, New Jersey

In the 15-month period from January 1969 through March 1970, 94 children were hospitalized in Newark, New Jersey, for lead poisoning. Three of the cases in the spring and early summer of 1969 were fatal. It was estimated that 1,200 to 3,000 children in the city need medical attention for lead intoxication annually.

During the same 15-month period, 1,973 children underwent screening for lead intoxication by assessment of δ-aminolevulinic acid (ALA) in the urine. Although 113 were found to be positive, 61 of them did not receive subsequent blood determinations and were lost to surveillance. Of the 52 who did have subsequent blood determinations, 28 were hospitalized, but four others with blood levels over 60 µg percent and seven with levels of 40-59 µg percent were neither hospitalized nor further tested. An additional 134 children had blood lead determinations (no urine screening); 105 were found to have concentrations exceeding 40 μg percent. Of these, 43 were neither hospitalized nor followed adequately. Of the children hospitalized for lead poisoning or with blood levels over 60 µg percent, at least 60 percent of their known siblings (born 1963-1968) had neither blood lead determinations nor ALA urine screening done.

The children treated in hospitals by chelation usually responded favorably. When they were discharged again, it

was to environments unchanged from those in which they had been poisoned. Based on the 1960 census, over two-thirds of the approximately 40,000 Newark children in the age group 1 to 5 years reside in housing typical of lead poisoning environments.

One-third of the children with lead poisoning were rehospitalized during the 15-month period for repeated poisoning. This is illustrated by a fatal case. This patient was first hospitalized for lead poisoning in September 1968. He was treated successfully and discharged. In June 1969 he was readmitted with a 2-week history of lethargy and convulsions. The hemoglobin was 5.6 g, and the blood lead was 190 µg percent. Despite vigorous therapy, he died on the seventh hospital day.

In response to the evidence of a substantial lead problem in Newark, the New Jersey College of Medicine and Dentistry in collaboration with the Newark Division of Health and the New Jersey State Department of Health is initiating a program of detection, treatment, community intervention, and preventive education utilizing communitytrained health assistants.

(Reported by Anne Browder, M.D., Assistant Professor of Public Health and Preventive Medicine, New Jersey College of Medicine and Dentistry; and Aaron Haskin, M.D., Health Officer, Newark Division of Health.)

TRYPANOSOMIASIS - California

A 19-year-old man was hospitalized with a 7-day history of recurrent chills and fever on Aug. 31, 1970, the day after he returned to the United States from Africa. Since August 1, the patient and his family had been on a hunting safari in Botswana, Africa, where they had been heavily bitten by tsetse flies. On August 22, the patient had noted a small lesion on his left thigh followed 2 days later by weakness, anorexia, and headache. By August 25, the lesion had become indurated, and the patient had temperatures to 104°F. associated with periods of agitation, confusion, and hallucinations. He subsequently lost 12 to 15 pounds. Although parasitic disease was suspected, a blood smear taken in Nairobi, Kenya, was reported as negative for trypanosomes and malaria parasites.

On physical examination he appeared acutely ill, dehydrated, and lethargic but was well oriented without hallucinations. His temperature was 104.6°F., and there was a 6 cm chancre on the left thigh. He also had left inguinal lymphadenopathy, a palpable spleen, a petechial rash on the legs, and mild facial edema. Neurologic examination was normal.

Blood smears at the time of admission had approximately six trypanosomes per oil immersion field. Other pertinent laboratory findings included hematocrit 34, WBC 5,200 mm³, platelets 36,000 mm³, Na 120 mEq/L, Cl 94 mEq/L, bilirubin 1.0 mg percent, SGOT 327 units, LDH 4,000 units, BUN 29 mg percent, creatinine 1.5 mg percent, and a 1+ proteinuria. Lumbar puncture demonstrated increased pressures (250/150 mm water) but was otherwise normal (protein 17 mg percent, glucose 70 mg percent, and no cells or trypanosomes). Additional blood studies indicated disseminated intravascular coagulation and Coomb's positive hemolytic anemia.

Before Suramin* was available, the patient was given pentamidine,* but 24 hours later the parasitemia had not lessened. Suramin therapy was then instituted, and by September 2, parasites were no longer demonstrable in peripheral smears, and there was marked clinical improvement. Although heparin was considered, it was not used, since clotting factors returned to normal as the infection was controlled. Hemolysis has persisted, however. Therapy will continue intermittently over a period of 3 weeks.

There were nine other people on the safari, all of whom are asymptomatic. Smears from four were negative for parasites; smears are being obtained from the other five. (Reported by Abraham I. Braude, M.D., Professor of Medicine and Pathology, University Hospital of San Diego County; Donald G. Ramras, M.D., Assistant Director of Public Health, and J.B. Askew, M.D., Director of Public Health, County of San Diego Department of Public Health; James Chin, M.D., Chief, Bureau of Communicable Disease Control, California State Department of Health; and an EIS Officer.)

Editorial Comment:

Botswana, located in southern Africa, represents the southernmost distribution endemic for Trypanosoma rhodesiense (i.e., 20°S. latitude). The vector in this area is Glossina morsitans. The hunting lodge visited by this hunting party is situated along the Khwai River in the region of the Okavango Swamps and is in a dense tsetse fly area. It is also the site of many types of wild animals which are potential reservoirs of infection. The epidemiologic features of East African sleeping sickness make hunters, fishermen, and tourists visiting rural areas particularly susceptible. Chemoprophylaxis is not recommended at this time, and although heavy clothing and insect repellents may offer some protection against the bites of flies, travelers should be alerted to areas endemic for trypanosomiasis. A careful travel history by the physician can aid in the prompt diagnosis and treatment of this

*Available from the Parasitic Disease Drug Service, CDC.

CURRENT TRENDS ARTHROPODBORNE ENCEPHALITIS — United States 1970

So far this year there have been no reported outbreaks of encephalitis in humans due to arthropodborne viruses (arboviruses) in the United States; however, sporadic cases have occurred among humans, and limited outbreaks have occurred among equines.

Three confirmed human cases of Eastern equine encephalomyelitis (EEE) have been reported to date. One of the patients was a 45-year-old man from Florida, whose illness began in July 1970. A 12-year-old girl from Florida contracted encephalitis in mid-August, and blood specimens showed an acute titer of 1:80 and convalescent titer of 1:320 against EEE. The third patient was a 5-month-old baby from Massachusetts. No deaths have been reported. Thirty-five horses have reportedly died of EEE infection in Massachusetts and four in Louisiana.

Two states have reported California encephalitis (CE). Ohio reported eight confirmed and one presumptive cases of CE; all cases occurred in children less than 14 years

of age, and dates of onset ranged from June 11 to August 11. Iowa reported one case; acute serum from a 12-year-old resident of Iowa who visited Minnesota 2 weeks before onset of symptoms had a titer of 1:320 against CE virus by hemagglutination-inhibition testing.

St. Louis encephalitis (SLE) has been confirmed for a 63-year-old woman living in Caloosa County, California, whose symptoms developed in mid-July. One confirmed human case of SLE has been reported from New Mexico. Several horse deaths serologically related to recent infection with SLE virus also have been reported from New Mexico.

Only one case of human encephalitis due to infection with Western equine encephalomyelitis (WEE) virus has been reported in 1970. However, horse deaths attributed to WEE infection have been reported from Colorado, North Dakota, Texas, New Mexico, and Oklahoma.

(Reported by the Neurotropic Viral Diseases Unit, Viral Diseases Branch, Epidemiology Program, CDC.)

Morbidity and Mortality Weekly Report

SUMMARIES OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas July 1969 and July 1970 - Provisional Data

Reporting Area	Ju	ıly		ative - July	Reporting Area	Ju	ıly		lative - July
	1970	1969	1970	1969		1970	1969	1970	1969
NEW ENGLAND	44	42	317	209	EAST SOUTH CENTRAL	87	51	437	566
Maine	1	2	10	4	Kentucky.	21	6	108	103
New Hampshire	1	4	2	7	Tennessee.	13	8	103	165
Vermont	-	1	1	1	Alabama.	22	26	89	148
Massachusetts.	22	22	177	123		31	11		
Rhode Island	1	2	33	18	Mississippi	31	11	137	150
Connecticut	19	11	94	56	Secretary and a secretary secretary secretary				
Connectitut	19	111	94	36	WEST SOUTH CENTRAL	333	293	2,195	2,181
					Arkansas	29	23	157	113
MIDDLE ATLANTIC	481	332	3,021	2,145	Louisiana	53	67	416	496
Upstate New York.	45	17	226	158	Oklahoma	5	5	48	48
New York City	321	235	2,129	1,468	Texas	246	198	1,574	1,524
Pa. (Excl. Phila.)	10	12	83	88	Actions:		l .		
Philadelphia	18	14	118	125	MOUNTAIN.	69	75	354	365
New Jersey	87	54	465	306	Montana.	2	190	2	5
and the same of th			100		Idaho	-	1	1	5
EAST NORTH CENTRAL	194	225	1.446	1,479	Wyoming.	3	-	3	4
Ohio	25	31	212	209		5	6		
Indiana	37	33	269	206	Colorado		1	29	31
Downstate Illinois	9	32			New Mexico	11	37	75	163
	_		72	160	Arizona	32	19	153	113
Chicago	76	69	498	519	Utah	1	3	5	9
Michigan	41	54	338	371	Nevada	15	9	86	35
Wisconsin.	6	6	57	14					
		1			PACIFIC	278	166	1,420	1.062
WEST NORTH CENTRAL	36	31	323	192	Washington	2	5	27	32
Minnesota	3	11	51	27	Oregon	4	3	18	25
Ioua.	-	-	9	20	California.	269	157	1,364	999
Missouri	14	11	169	94	Alaska	1	132	5	2
North Dakota			3	3	Hawaii	2	1	6	2
South Dakota	4	141	12	7	mawall	4:	1	0	4
Nebraska.	2	3	15	18			1		
	13	6	64	23	U. S. TOTAL	1,891	1,587	12,309	10,994
Kansas	13	°	04	23	TERRITORIES.	60	54	568	699
	260	272	0.200		Puerto Rico.	60	54	550	682
SOUTH ATLANTIC	369	372	2,796	2,795	Virgin Islands.		34		
Delaware	5	6	76	27	virgin islands		-	18	17
Maryland.	30	25	248	245			1		
District of Columbia	55	48	294	316					
Virginia	16	36	152	156					
West Virginia	3	3	15	12					
North Carolina	27	36	294	306	Note: Cumulative Totals	faclude	routed a	nd dollare	
South Carolina	24	56	207	350	through previous		rearned a	ne delayer	reports
Georgia	94	91	741	580	curough previous	months.			
Florida	115	71	769	803					
ETOLION.	113	/1	/ 09	1 003					

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas August 1969 and August 1970 - Provisional Data

Reporting Area	Aug	ust		ative - Aug.	Reporting Area	Aug	ust		ative - Aug.
	1970	1969	1970	1969	7 ° ° ' '	1970	1969	1969 1970	
NEW ENGLAND	34	40	351	249	EAST SOUTH CENTRAL	72	83	509	649
Maine	_	-	10	4	Kentucky.	29	12	137	115
New Hampshire	-		2	7	Tennessee	14	32	117	197
Vermont	_	-	1	1	Alabama	16	23	105	171
Massachusetts	19	27	196	150	Mississippi	13	16	150	166
Rhode Island	6	l a	39	26				-30	
Connecticut	9	l 5	103	61	WEST SOUTH CENTRAL	368	315	2,563	2,496
					Arkansas	22	24	179	137
MIDDLE ATLANTIC	529	405	3.550	2,550	Louisiana	73	74	489	570
Upstate New York	34	26	260	184	Oklahoma	14	1 3	62	51
New York City	400	304	2,529	1.772	Texas	259	214	1,833	1,738
Pa. (Excl. Phila.)	17	9	100	97	10.00	239	214	1,033	1,/30
Philadelphia	17	20	135	145	HOUNTAIN.	46	49	400	414
New Jersey	61	46	526	352	Montana.	3	1		
New Jersey	01	40	320	332			1	5	6
EAST NORTH CENTRAL	194	212	1,640	1,691	Idaho	-	1	1	9
Ohio	35	41	247	250	Wyoming	1		3	5
Indiana	34	27	303	233	Colorado	_	3	30	34
Downstate Illinois	11	9	83	169	New Mexico.	. 8	15	83	178
Chicago	59				Arizona	12	17	165	130
		84	557	603	Utah	4	3	9	12
Michigan	49	49	387	420	Nevada	18	8	104	43
Wisconsin	6	2	63	16	all a second sec				
				1	PACIFIC	233	185	1,653	1,247
WEST NORTH CENTRAL	29	46	352	238	Washington	1	7	28	39
Minnesota	3	5	54	32	Oregon	3	3	21	28
Iowa		6	9	26	California.	223	172	1,587	1,171
Missouri,	22	20	191	114	Alaska	4	3	9	5
North Dakota	-	3	3	6	Hawaii	2	-	8	4
South Dakota	1	2	13	9					
Nebraska		4	15	22	U. S. TOTAL	1,954	1,791	14,263	12,785
Kansas	3	6	67	29			100	494	
		1			TERRITORIES	68	103	636	802
SOUTH ATLANTIC	449	456	3,245	3,251	Puerto Rico	67	102	617	784
Delaware	7	3	83	30	Virgin Islands	1	1	19	18
Maryland	30	33	278	278					
District of Columbia	61	56	355	372				•	
Virginia	24	30	176	186					
West Virginia	4	1	19	13					
North Carolina	32	38	326	344	Note: Cumulative Totals	include	revised :	nd deless	
South Carolina	29	39	236	389	through previous	months	reares s	··· neraye	report
Georgia	154	125	895	705	am oagn previous	monetta.			
Florida	108	131	877	934					

SURVEILLANCE SUMMARY MALARIA — United States and Puerto Rico — 1969

A total of 3,806 cases of malaria with onset of illness in 1969 in the United States or Puerto Rico were reported to the Parasitic Diseases Branch, CDC. This compares with 2,610 cases reported in 1968 (MMWR, Vol. 18, No. 24). This increase was due entirely to a greater number of military cases imported from Vietnam. Military personnel, including recently discharged veterans, accounted for 3,679 cases and civilians for the remaining 127. The total number of Army cases (2,796) represented a 30.3 percent increase over 1968. This increase in Army cases was due to the increase of Army personnel returning from Vietnam, for the attack rate in Army returnees remained relatively constant. The Marines, however, with 19.2 percent of Vietnam-acquired malaria infections in 1969 experienced a 262.2 percent rise in malaria cases compared with 1968. This increase could not be attributed solely to improved reporting or increased numbers of returnees.

The number of military cases in 1969 was considerably in access of the annual totals for each year 1959 through 1968; the number of civilian cases was similar to totals for the past 6 years (Figure 2). Of the 3,806 cases, 3,801 were imported,* while five were acquired in the United States. Four of the five were classified as induced, and one was cryptic. No introductions were reported, as compared with five introduced cases in 1968. Cases were reported from all 50 states and Puerto Rico, but California, Georgia, Kentucky, North Carolina, and Texas accounted for 44 percent of the total, reflecting the location within these states of military bases receiving large numbers of Vietnam returnees.

The Plasmodium species were identified in 3,702 of the 3,806 cases (97.3 percent). P. vivax accounted for 79.2 percent of the infections (3,014 cases), and P. falciparum was diagnosed in 14.4 percent (548 cases); these percentages are nearly identical to those reported in 1968. P. malariae accounted for 1.0 percent (40 cases) in 1969, while 0.3 percent (10 cases) were due to P. ovale. Mixed infections, generally due to P. vivax and P. falciparum, accounted for 2.4 percent (90 cases) in 1969. The species was undetermined for 2.7 percent (104 cases) of infections.

U.S. citizens accounted for 83 of the 127 civilian cases and foreign visitors for the remaining 44 cases. College students or teachers accounted for more civilian cases than any other occupational group (30 cases), followed by tourists (17 cases). Only six cases were reported in Peace Corps Volunteers.

The onset of illness occurred more than 30 days after arrival in the United States in 73 percent of the 3,280 cases for which both date of onset and date of arrival in this country were known. As in previous years, a marked difference in time of onset was observed between falciparum and vivax malaria; 69.6 percent of the falciparum cases became ill within 1 month after arrival compared with 19.9 percent of the vivax cases.

There were nine malaria fatalities in the United States in 1969, all due to P. falciparum, giving an overall malaria case fatality ratio of 0.24 percent and a falciparum case

Figure 2 MILITARY AND CIVILIAN CASES OF MALARIA UNITED STATES - 1959-1969 4,000 3,500 3,000 2,500 ASES 000'2 1,500 1,000 500 1961 1965 1966 1967 1968

fatality ratio of 1.64 percent. Five were in civilians and four in servicemen returned from Vietnam. The five civilian fatalities occurred in four American citizens, who acquired their infections in Africa, and in one patient with transfusion-induced malaria. For the eight patients who sought medical attention, a delay of 1 to 12 days transpired (mean 6.1, median 6, and mode 6 days) before the diagnosis of malaria was established. All eight were seen initially by civilian physicians.

During 1969, a total of 233 malaria relapses were reported; 210 relapses were second attacks, 17 were third attacks, 4 were fourth attacks, and 2 were fifth attacks. Thus a total of 4,039 malaria attacks (3,806 primary attacks plus 233 relapses) were reported in 1969.

Infections acquired in Vietnam accounted for 3,629 of the 3,801 imported cases (95.2 percent). Only three of these 3,629 cases were nonmilitary personnel. P. vivax was the etiologic agent in 2,921 of the 3,629 cases (80.5 percent), P. falciparum in 496 cases (13.7 percent), P. malariae in 29 cases (0.8 percent), ** and mixed Plasmodium species in 89 cases (2.5 percent). In 90 cases (2.5 percent) the Plasmodium species was not identified. Army personnel accounted for 77 percent of the military cases from Vietnam, Marines for 19.2 percent, the Navy and Air Force personnel for less than one percent of the cases.

Of the 2,918 military returnees from Vietnam who developed vivax malaria in the United States in 1969, 127 later suffered a vivax relapse for a relapse rate of 4.4 percent; the corresponding rate for 1968 was 7.8 percent, for 1967, 18.4 percent, and for 1966, 29.4 percent. The relapse rate for falciparum infections in military Vietnam returnees

(Continued on page 362)

MALARIA - (Continued from page 361)

in 1969 was 1.4 percent (seven relapses in 496 infections) as compared with 1.2 percent in 1968, 6.8 percent in 1967, and 8.5 percent in 1966. The 1969 relapse rates should be considered preliminary estimates since relapses of 1969 cases may continue to occur in the future.

Of the four induced cases, all had received blood transfusions. Three were due to *P. falciparum*, and one to *P. vivax*. One of the falciparum cases was fatal. The infective donor was identified in all cases. Three of the donors were Vietnam returnees, and one was a visitor from West Africa.

(Reported by the Parasitic Diseases Branch, Epidemiology Program, CDC.)

*TERMINOLOGY (1, 2)

- 1. Autochthonous
 - a. Indigenous malaria acquired by mosquito transmission in an area where malaria is a regular occurrence.
 - b. Introduced malaria acquired by mosquito transmission from an imported case in an area where malaria is not a regular occurrence.

- 2. Imported
- Malaria acquired outside of a specific area (the United States and Puerto Rico in this report)
- 3. Induced
- Malaria acquired through artificial means, i.e., blood transfusion, common syringes, or malariotherapy.
- 4. Relapsing
- Renewal of clinical activity occurring after an interval from the primary attack greater than that due merely to periodicity.
- Cryptic
 An isolated case of malaria not associated with secondary cases as determined through appropriate epidemiologic investigation.
- **P. ovale in 4 cases (0.1 percent)

References:

- Terminology of Malaria and of Malaria Eradication. Geneva, World Health Organization, 1963, p 32
- WHO Expert Committee on Malaria Tenth Report. WHO Techn Rep Ser No. 272, p 34

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

Center for Disease Control Attn: Chief, Parasitic Diseases Branch Epidemiology Program Atlanta, Georgia 30333

INTERNATIONAL NOTES SALMONELLA AGONA INFECTIONS — United Kingdom

Salmonella agona, up to this time an unusual serotype, has recently been reported as the cause of several outbreaks in different parts of England. Details of some of these are now available.

In mid-May all five members of one family living in northwestern England became ill with diarrhea and vomiting 24 to 48 hours after eating cold roast pork; S. derby was isolated from all of them. No pork was available for examination. A foodhandler at the retail shop where the pork was sold, who had herself eaten some of it, was found to be a symptomless excreter of this organism. No salmonella was isolated from cold meats or surfaces at the shop. At the butcher's shop which supplied the pork, strains of salmonellae were isolated from the feces of one of four members (S. agona) and from four of 15 swabs of equipment (S. agona and S. derby). Two other strains, one from feces of another staff member and one from boning knives, gave preliminary agglutination test results consistent with either S. agona or S. derby. It was established that cooked meat was placed on surfaces that had been used for raw meat. After cleaning the premises, another 18 swabs of the environment and utensils were negative, and investigations at two other branches of the firm were also negative. S. agona was, however, isolated from an asymptomatic staff member at one of these branches. Since this episode, S. derby has been isolated from nine persons in eight households in the area, and S. agona from 14 persons in 13 households; most of these persons were symptomatic. No connection has been demonstrated between these cases and the butcher's shop.

At about the same time as this episode, another small outbreak took place in north Wales. A 36-year-old man became ill with vomiting, diarrhea, and fever which lasted

36 hours. During the next 2 days, his father-in-law was also ill with diarrhea. S. agona was isolated from both patients. The wives of both men were symptomless excreters, but feces from the two children in the family were negative. The day before the first patient became ill, two oven-cooked chickens had been bought in the morning and kept at room temperature. One was eaten cold that evening and the other for lunch the next day. All members of the family ate the chicken. No chicken remained for examination, and chicken heads from the same shop a week later gave negative results.

The third outbreak took place in northeastern England. The first case was in a mother who had diarrhea while in a maternity hospital. On investigation of her home contacts, four children including a 16-day-old infant thought to be ill with pyloric stenosis were found to be excreting S. agona. S. agona was also isolated from a mincing machine and chopping blocks at a food shop that supplied the first family with chickens, and from swabs taken from a shelf at the wholesalers where chickens were stored. Investigation at a farm produced S. agona from a wooden sticking tray. Other symptomless excreters were found among contacts and foodhandlers. There may have been other infected persons in the community since S. agona was isolated from three separate blind-ended sewers in the locality. In another part of the northeast, the infection was reported in two families and another sporadic case.

In June, S. agona was isolated from chicken carcasses from a farm in the west midlands. Both the farmer and his wife had had gastroenteritis in May; S. agona was isolated from the farmer and his two children who were symptomless.

S. agona has also been isolated from 12 of 19 sets of broiler giblets from a batch of chickens killed in June,

from imported fish meal used as raw material for animal food, and from raw poultry offal which is processed into poultry offal meal, a constituent of animal feed.

In most of these outbreaks, there was direct or indirect evidence that chicken was the source of infection. Since strains of *S. agona* have also been isolated from bovine sources and pork sausages, other sources of infection must be considered; pork may have been the source of the first outbreak described above. *S. agona* has also been isolated from fish meal believed to have been produced in England, although the possibility of mixing with foreign fish meal cannot be overlooked. It is known that this fish meal is being used as poultry feed as well as in feed for other animals.

(Based on reports to the Public Health Laboratory Service from Public Health and Hospital Laboratories in the United Kingdom and Republic of Ireland for the week ending July 24, 1970.)

Editorial Comment:

Since 1963, only three sporadic isolations of *S. agona* have been reported from human sources in the United States. The most recent isolation was made in Illinois in May 1970. Louisiana reported one isolation of this serotype in both 1967 and 1968. Three isolations of *S. agona* from turkeys in Texas in 1969 accounted for all nonhuman isolations since 1963.

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: Italy

Insert: Cholera - And from Guinea (by air), Israel, Jordan, Lebanon, Libya, Syria.

Kenya

Insert: Cholera — And from the Middle East and USSR. Kuwait

Insert: Cholera - And from Bahrain, Iran, Iraq, Jordan, Lebanon, Libya, Morocco, Muscat and Oman, Qatar, Syria, Turkey, Southern Yemen, Trucial Oman, UAR, Yemen. Libya

Insert: Cholera - Certificate required from travelers leaving the country.

Malawi

Insert: Cholera — And from Bahrain, Burma, Cyprus, India, Indonesia, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Qatar, Muscat and Oman, Nepal, Pakistan, Saudi Arabia, Southern Yemen, Trucial Oman, Turkey, UAR, USSR, Vietnam, Yemen.

Morocco

Insert: Cholera - And from Bulgaria, Guinea, Iran, Iraq, Jordan, Kuwait, Lebanon, Libya, Mauritania, Romania, Saudi Arabia, Sudan, Syria, UAR, USSR.

Romania

Insert: Cholera - And from Iran, Iraq, Lebanon, Syria, Turkey, United Arab Republic.

Saudi Arabia

- 1. Delete "During the period September to March (season of periodic mass congregations:", and insert: "During the period 2 September 1970 to 25 February 1971 (season of periodic mass congregations)."
- 2. At the end of the second paragraph, delete: "time spent on board a vessel . . ." and insert: "time spend on board a healthy ship . . ."
- 3. Delete: "During the period April through August" and insert: "As from 26 February 1971."

Sierra Leone

Insert: Cholera - Vaccination required from arrivals from Guinea.

Southern Yemen

Insert: Cholera - And from Iran, Iraq, Jordan, Lebanon, Syria, Turkey, UAR, USSR.

Switzerland

Insert: Cholera - > 1 year.

Turkey

To the note concerning cholera add: Lebanon, Syria, Union of Soviet Socialist Republics, United Arab Republic.

Union of Soviet Socialist Republics

In the note concerning cholera, insert: Iran.

Yuaoslavia

Insert: Cholera - And from Guinea, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Syria, UAR.

Changes in the "Supplement - United States Designated Yellow Fever Vaccination Centers," MMWR, Vol. 18, No. 53

The following additions should be made in the list of United States Designated Yellow Fever Vaccination Centers:

ARIZONA

Phoenix

Maricopa County Health Dept. A fee is now charged

CALIFORNIA Fresno

County Dept. of Public Health
Change clinic hours to 2-3 p.m.
every other week by
appointment
(Continued on page 368)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

SEPTEMBER 12, 1970 AND SEPTEMBER 6, 1969 (36th WEEK)

	ASEPTIC	PRICEI -	DIR	El	NCEPHALITI	S		HEPATITIS			
AREA	MENIN- GITIS	BRUCEL- LOSIS	DIPH- THERIA		including cases	Post In- fectious	Serum	Infect	tious	MALA	RIA
	1970	1970	1970	1970	1969	1970	1970	1970	1969	1970	Cum. 1970
UNITED STATES	276	7	27	50	40	5	111	933	845	36	2,333
NEW ENGLAND	13	-		6	2	1-	8	94	87	1	69 6
Maine	1	_		-	_	-	-	7	12	-	5
New Hampshire Vermont	-	=	_	_	=	_	-	3 14	5 1	_	5
Massachusetts	9	-	-	1	2	_	4	40	39	_	34
Rhode Island	2	-	-	5	-	:	1	15	30	-	8
Connecticut	1	-	-	×=	-	: -	3	15	-	1	11
MIDDLE ATLANTIC	57	-	-	5	6	2	53	164	170	4	250
New York City	33	_	-	÷	: :	: 	25	14	23	1 1	30 72
New York, Up-State	3 17	-	-	3	1 3	S=-	2 19	25 45	23 58	1 1	69
New Jersey Pennsylvania	4	=	-	2	2	2	7	80	66	i	79
EAST NORTH CENTRAL	32	_	_	18	13	1 1	13	127	110	2	137
Ohio	9	-	-	14	6	3 77	2	21	22	-	27
Indiana	2	-	-	0.50	-		-	15	11	1	14
Illinois	7	95.00	-	2	2	1	2	19	17	-	58
Michigan	14		_	2	4	_	9	65 7	54 6	1	-
			578/4			7,544	1,000			2,12	010
WEST NORTH CENTRAL	14	4	-	2	2	1	-	42	32	5	210 19
Minnesota	13	3	_	2	1	1	Ξ	4 15	14	_	19
Missouri				n in		1 No.	12	15	7		19
North Dakota	1	-	-	-	-	_	-	-	_	-	2
South Dakota	-	-	-	_	-	×-	-	-	2	-	2 3
Nebraska	-	1	_	- E	1	=	_	3 5	2	5	146
Kansas	=	•	=	1 = 1	'	-		5	3	3	
SOUTH ATLANTIC	54	_	3	9	4	1	5	124	77	9	438
Delaware	1 7	_	3	1	2	_	_	17	13	1	48
Maryland Dist. of Columbia	ĺí	_	200		12	-	1	11	1	-	2
Virginia	33	-) =)	1	-		1	31	6	2	59
West Virginia	2	_	-	2	1		-	2	7	_	171
North Carolina	1 1	<u>-</u>	_	_	_	= 0	_	15 9	2 8	1	38
Georgia	i -	_	_	_	_	_	_	22	16	5	68
Florida	8	-	-	5	1	1	3	27	22	_	43
EAST SOUTH CENTRAL	29	S-		1	1	22	1 1	59	56	2	162
Kentucky	21	-	ı -		-	(-)	-	27	11	1	133
Tennessee	7	_	_	1 -	1 -	_	1	18 11	31	_	18
Alabama Mississippi	í	_		_	_	_	_	3	7	1	11
WEST SOUTH CENTRAL	9	2	23	1	1	_	7	108	78	4	414
Arkansas. *	_	=	_		_	_		-	-	_	9
Louisiana	_	2.77	2	-	_		2	12	14	2	30 69
Oklahoma	9	1	21	1	1 1	-	5	11 85	12 52	_ 2	306
Texas	9		21	1 '	_	_	3	0.5	52	2	11.9
MOUNTAIN	8	-	1	1	2		5	53	52	1	191
Montana	<u></u>	_	_	=	<u> </u>	=	1	2 1	1 _	_	3
Idaho		_	_] [-	<u>'</u>	i	1 1	_	-
Colorado	5	-	_	_	1	-	1	8	14	-	161
New Mexico	-	_	-	-	1	-	1	11	7	1	6
Arizona*	3	_	1 -	_	_	<u>-</u>	1	11 3	13	_	3
Utah Nevada	_	_	-	1	_	-	= 1	16	11	_	-
PACIFIC	60	1	-	7	9	-8	19	162	183	8	462
Washington.	4	1	-	-	-	_	-	19	11	-	15
Oregon	-7	_	_	3	9		10	23	26	1	293
California	54	_	<u> </u>	4	_	_	19	120	146	4	1
Alaska Hawaii	2	_		_	_		-	-		3	108
Puerto Rico	-	_	_	-	3		2	20	21	-	9
Virgin Islands	_	_	i –	_		- divisi		-		_	- 2

^{*} Delayed Reports: Aseptic Meningitis: N.J. Delete 2, Ariz. 2 Hepatitis, Serum: N.J. Delete 3 Hepatitis, Infectious: N.J. Delete 5, Ark. Delete 1

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

SEPTEMBER 12, 1970 AND SEPTEMBER 6, 1969 (36th WEEK) - CONTINUED

Mar La	MEA	SLES (Rube	ola)	MENINGO	COCCAL INF	ECTIONS,	MUN	1PS	Poi	LIOMYELITI	s
AREA		Cumu1	ative		Cumu1a	tive		Cum.	Total	Paral	
	1970	1970	1969	1970	1970	1969	1970	1970	1970	1970	Cum. 1970
UNITED STATES	118	39,508	20,258	23	1,844	2,346	552	75,443	-	-	18
NEW ENGLAND	5	881	1,101	1	81	87	33	8,888	_	_	-
Maine	_	204	8		3	6	4	684	_		-
New Hampshire	_	50	238	_	8	2	2	330			_
Vermont	_	8	3	_	7		ī	586		_	_
Massachusetts. *	2	414	213	_	36	34	12	2,802	_	_	_
Rhode Island	ī	120	23	_	5	11	7	1,495	_		
Connecticut	2	85	616	· 1	22	34	ż	2,991	_	-	=
MIDDLE ATLANTIC	9	4,832	7,485	4	335	386	28	7,499	-	_	_
"CW IOTK City	6	871	4,905	_	81	73	16	2,745	-	_	-
York, Un-State	1	269	596	-	66	72	NN	NN	-	-	_
"lew Jersey	2	1,704	896	2	128	157	4	2,070	_	-	_
ennsylvania	_	1,988	1,088	2	60	84	8	2,684	-	-	-
EAST NORTH CENTRAL	29	9,762	2,180	4	209	320	200	20,158	-	-	2
OHTO	4	3,805	375	3	83	121	26	3,610		_	_
-uolana.	1	270	466	_	20	38	13	1,800	_	-	-
1111nois.	3	3,048	495	1	45	44	9	1,739	-		-
"Ichigan	14	1,718	273	_	52	95	41	4,965	_	-	1
Wisconsin	7	921	571	-	9	22	111	8,044	-	-	1
WEST NORTH CENTRAL	_	3,863	525	3	96	118	23	3,762		_	1
"Innesota	-	38	7	_	13	25	_	353	_	-	-
-towa.	-	1,142	330	-	12	16	16	2,297	_	-	_
111880uri	_	1,275	26	1	56	51	_	270	_	_	1
Worth Dakota	-	318	14	2	5	1	6	286	-	-	_
South Dakota	_	93	3	_	_	1	_	40	_	_	_
"epraska	-	924	138	_	5	ا و ا	1	380	_	_	_
Kansas		73	7	-	5	15	_	136	-	-	-
	•	7 152	2 400	3	276	404	F 0	0.660			
SOUTH ATLANTIC	6	7,152	2,490	3	376	404	58 7	8,669	_		1_
Delaware		260	373	- 7	3	8		304	_		
Maryland	-	1,376	75	1	35	38	6	931	_	-	
Lat. of Columbia	_	343	-	_	3	9	1	188	_		- T
Virginia	17	1,981	883	-	40	50	6	1,995	-	-	10.00
"est Virginia	1	312	193	-	10	18	10	2,097	_	T	1
"ofth Carolina	2	861	315	-	76	69	NN	NN	-	-	7,5110
Jouth Carolina	1	595	116	. 7	44	55	6	842	-	-	-
Georgia.	2	1 410	522	1	34	70	-	2 210	-		
Florida	2	1,410	533	1	131	87	22	2,310			-
EAST SOUTH CENTRAL	11	1,319	107	_	133	144	37	4,383	_	_	-
	1	755	63	_	45	50	6	1,582	-	-	-
- cimessee	3	377	17	_	58	54	26	2,493	-	-	_
"Tapama".	6	98	4	-	21	24	4	261	_	-	-
Mississippi	1	89	23	-	9	16	1	47	-	-	-
Arkanas	33	7,549	4,496	5	251	320	76	7,234	-	_	14
	_	30	16	_	22	30	2	119		-	-
~ouisiana	1	100	120	_	62	84	1	28	-	_	_
~ LADOMS	3	452	136	_	19	31	10	2,402	-	-	_
-cads	29	6,967	4,224	5	148	175	63	4,685	-	-	14
MOUNTAIN	10	1,522	852	1	38	43	36	3,463	-	-	_
	_	61	17	_	1	8	6	727	_	_	-
-44BO	3	40	89	_	6	8	-	87	_	_	-
Juliano		11	_	_	2	- 1	1	35	-	_	-
-010Lado	1	183	140	_	12	7	6	1,106	_	_	-
"CW Mexico	4	202	245	_	1	6	13	670	_	_	_
	2	969	351	_	13	10	10	714		_	_
Utah	_	35	9		2	2	_	124	_	_	1 -
Nevada	-	21	í	1	ī	2	-	-	-	-	-
PACIFIC	15	2,628	1,022	2	325	524	61	11,387	_	_	_
Washington	1	525	59	_	43	54	2	4,214	-	_	
Oregon.		228	198	_	25	15	4	993	_	_	
California.	13	1,554	719	2	255	434	30	4,687	_	_	
Alaska.	1	138	8	-	233	11	_	379		41.18	
Hawaii	<u>-</u>	183	38		2	10	25	1,114	-	1.7-1.4	-
ruerto Rico	8	887	1,448		5	19	17	733			
irgin Islands											

^{*} Delayed Reports: Measles: Mass. Delete 2 Meningococcal Infection: Ariz. Delete 1

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

SEPTEMBER 12, 1970 AND SEPTEMBER 6, 1969 (36th WEEK) - CONTINUED

AREA	RUBE	LLA	TETA	NUS	TULAR	EMIA	TYPH(FEV)		TYPHUS TICK- (Rky. Mt.	BORNE	RABII ANIN	
	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970
UNITED STATES	292	49,252	4	81	9	101	11	208	10	289	55	2,14
EW ENGLAND	19	2,425	144	3	_	1	_	7	_	_	1	7
Maine	-	386	-	_	_	-	_	-	_		1	1
New Hampshire		150	-	_	-	_	_	_	-	_	-	
Vermont	4	53	-	_	_	- 7	_	_	_	_	_	
Massachusetts Rhode Island	8 5	1,178	_	2	_	1	_	5	-	-	-	
Connecticut	2	551	_	1	_		_	2	_		_	
GIDDLE ATLANTIC	8	3,932	1	8	_	2		45	_	12	3	1 1
New York City	3	580	· ·	3	_	1 -	_	11		'-	_	
New York, Up-State	3	422	1	1	_	_ 1	_	16	l –	6	2	18
New Jersey	-	854	_	3	_	_		10	_	1 3 1		
Pennsylvania	2	2,076	_	1	_	1	_	8	_	3	1	
EAST NORTH CENTRAL	38	10,238	_	14	_	18	1	28	1	9	4	17
Ohio	12	2,027	_	1	-	2	_	10	1	8		
Indiana	14	1,844	-	6	-	12	-	1	-	-	2	
Illinois. Michigan	2 1	1,690 2,649		3 4	_	2	1	7 8		1	1	
Wisconsin	9	2,028	_	-	_	2		2	_		1	
WEST NORTH CENTRAL	12	3,278	_	4	1	25	_	7	_	2	18	4
Minnesota		117		1	i	1	_	í	_	-	6	
Iowa	2	2,001	1	1	_	_	_	1	l –	_	4	
Missouri	6	411	-	1	_	_ 21		1		2	2	
North Dakota	3	148	-	-		1	_	2	_	- 1	1	2
South Dakota		1	-	1		1	_	-	-	-	-	- 0
Nebraska Kansas	1	544 56		=			_	2	-	_	- 5	
SOUTH ATLANTIC	33			24				3.0	_	405		4:
Delaware		6,235	2	21		9	_	30	7	196	6	7
Maryland	1.0	315		_	_	_		9	I I	20	_	100
Dist. of Columbia		19	_	1	-	-	_	1	_	-	-	
Virginia	_	692	1	1	_	1	-	4	4	51	3	18
West Virginia	11	1,286	_	_	_	_	_	_	-	5	2	11
North Carolina	_	39	_	3		4	_	2	1	73	-	
South Carolina	7	642	-	1	_				2	35	-	7
Georgia Florida	14	3,201	1 -	12	=	3 1	=	8		8	1	e
EAST SOUTH CENTRAL	23	2,622	_	9	=_	4	6	21	1	32	8	13
Kentucky	5	921	_	ĺĺĺ		1	5	6	1 - 1	32	4	9
Tennessee.	11	1,345	_	3	_	3	_	9	1	20	1	
Alabama	7	278	_	5	_	_	1	6		6	3	
Mississippi	-	78	-	-		-	_	-	-	3	_	
WEST SOUTH CENTRAL	117	8,763	1	13	1	26	3	18	1	31	4	3
Arkansas	-	34	_	3	_	10	7	3	-	5	-	6
LouisianaOklahoma		150	_	3	1	4 9	1	2	1	1 1	_	
Texas	117	808 7,771	= -	7	-	3	2	1 12		20	2 2	13
MOUNTAIN	16	1,968	_	_	7	10	=1	13	_	6	7	
Montana	-	315	_	_		10		1	_	1 1		144
Idaho	7	189	_	_	_	_			_	, ż	_	
Wyoming	1	134	_	_	_	_			_	1	_	
Colorado	-	393	_	-	-	-	-	3	-	2	4	
New Mexico	3	209	-	-	-	-	1	6	_	= -=	2	
Arizona	5	566	-	_		-	-	2	_		_	
Utah Nevada	Ξ	162	= -	_	7 -	10	_	1 -	_		1	-
PACIFIC	26	9,791	_	9		6		39	_	1	4	2
Washington.	_	4,600	_	2	_	2	_	4	_	<u> </u>	-	
Oregon	3	839	_	3	_	1	_	1	_		_	- 10
California	21	4,051	_	4	_	3	1111 _	31	_	1	4	2
Alaska	2	95		-		_	- :-	2	-	-	-	
Hawaii		206		-	-	-		-	-	 -		+
Puerto Rico	-	26	1	9	_	i = -	1	4		~	4	

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED SEPTEMBER 12, 1970

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

	All Causes		Pneumonia	Under		All Ca		Pneumonia	Under
Area	A11	65 years	and	1 year	Area	A11	65 years	and	1 year
	Ages	and over	Influenza All Ages	All Causes		Ages	and over	Influenza All Ages	All Causes
Alter									
NEW ENGLAND:	676	413	49	24	SOUTH ATLANTIC:	1,114	584	48	52
Boston, Mass	178	101	21	7	Atlanta, Ga	128	61	5	10
Cambridge, Mass	29	17	4	2	Baltimore, Md	203	95 33	2	5
Fall River, Mass	37 29	25 19	6		Charlotte, N. C Jacksonville, Fla	57 97	50	-	4
Hartford, Conn	62	37	_		Miami, Fla	105	52	3	
Lowell, Mass	33	22	2	2 2	Norfolk, Va	53	32	7] 3
Lynn, Mass	23	14	1	_	Richmond, Va	72	40	8	2
New Bedford, Mass	28	19	-	-	Savannah, Ga	22	14	2	2
New Haven, Conn	54	27	3	5	St. Petersburg, Fla	96	76	3	3
Providence, R. I	53	31	3	3	Tampa, Fla	71	38	8	E
Somerville, Mass	14	9	-	-	Washington, D. C	180	74	7	8
Springfield, Mass	42	28	5	-	Wilmington, Del	30	19	3	-
Waterbury, Conn	29	17	-	1				1	
Worcester, Mass	65	47	4	2	EAST SOUTH CENTRAL:	504	275	11	19
MIDDLE ATLANTIC:	2,907	1,703	98	131	Birmingham, Ala Chattanooga, Tenn	71 42	41	1	
Albany, N. Y	42	28	1 7	171	Knoxville, Tenn	28	18	l i	
Allentown, Pa	41	28	l i	1	Louisville, Ky	92	44	3	
Buffalo, N. Y	122	68	5	5	Memphis, Tenn	117	62	2	
Camden, N. J	33	19	1	4	Mobile, Ala	38	20	ī	- -
Elizabeth, N. J	23	12	l i	-	Montgomery, Ala	22	16	3	
Erie, Pa	40	26	<u>š</u>	2	Nashville, Tenn	94	55	1	1 2
Jersey City, N. J	55	22	6	1					
Newark, N. J	62	34	2	3	WEST SOUTH CENTRAL:	1,021	550	31	71
New York City, N. Y	1,600	963	48	74	Austin, Tex	32	16	_	-
Paterson, N. J	39	19	-	4	Baton Rouge, La	43	24	2	5
Philadelphia, Pa	302	162	1	17	Corpus Christi, Tex	29	8	_	5
Pittsburgh, Pa	161	78	11	7	Dallas, Tex	137	62	5	13
Reading, Pa	42	27	!	_	El Paso, Tex	45	25	-	
Rochester, N. Y	100	57	1	9	Fort Worth, Tex	79	48	3	5
Schenectady, N. Y	28	15	7	-	Houston, Tex	198	100	5	10
Scranton, Pa	30	20	_	-	Little Rock, Ark	40	22	2	
Syracuse, N. Y	102	63	2	-	New Orleans, La	157	94	3	9
Trenton, N. J	33	18	1	1	Oklahoma City, Okla	64	39	5	1 2
Utica, N. Y	18	16 28	3	2	San Antonio, Tex	90 43	57 18	1 3	1 4
Yonkers, N. Y	34	_ ^°] 3	- 2	Shreveport, La Tulsa, Okla	64	37	2	
EAST NORTH CENTRAL:	2,331	1,326	59	108	luisa, okia.	0.7	, ,	_	
Akron, Ohio	46	22	-	4	MOUNTAIN:	436	259	13	30
Canton, Ohio	36	25	-	l i	Albuquerque, N. Mex	51	32	4	
Chicago, Ill	643	363	22	26	Colorado Springs, Colo.	36	21	7	3
Cincinnati, Ohio	109	62	2	7	Denver, Colo	107	61	1	12
Cleveland, Ohio	205	109	5	16	Ogden, Utah	21	9	-	-
Columbus, Ohio	135	77	-	5	Phoenix, Ariz	114	66	1	(
Dayton, Ohio	87	45	1	5	Pueblo, Colo	12	10	-	-
Detroit, Mich	291	158	9	7	Salt Lake City, Utah	50	28	-	3
Evansville, Ind	56	38	2	2	Tucson, Ariz	45	32	-	1 3
flint, Mich	46	19	1 1	3				4.0	١
Fort Wayne, Ind	51	29	1 1	· -	PACIFIC:	1,209	721	19	65
Gary, Ind	32	19	1	2	Berkeley, Calif	30	23	_	1 .
Grand Rapids, Mich	55 173	38 101	3		Fresno, Calif	50 18	26		4
Indianapolis, Ind	173 40	20	7	11	Glendale, Calif Honolulu, Hawaii	18 48	22	1	
Madison, Wis Milwaukee, Wis	83	50	-	4	Long Beach, Calif	85	53	5	
Peoria, Ill	43	23	-	5	Los Angeles, Calif	285	158	6	3
Rockford, Ill	32	24	2	2	Oakland, Calif	68	45	Ĭ	7
South Bend, Ind	41	25	3	2	Pasadena, Calif	28	22	1 -	.
Toledo, Ohio	82	50	_	2	Portland, Oreg	120	66	1 -	
Youngstown, Ohio	45	29	_	3	Sacramento, Calif	48	25	· -	1
,		1			San Diego, Calif	72	41	1	9
WEST NORTH CENTRAL:	739	468	19	37	San Francisco, Calif	133	82	1	-
Des Moines, Iowa	50	32	1	3	San Jose, Calif	38	29	_	1
Duluth, Minn	21	9	2	3	Seattle, Wash	100	66	1	.24
Kansas City, Kans	41	26	2	2	Spokane, Wash	52	30	2	
Kansas City, Mo	125	81	-	3	Tacoma, Wash	34	22	1	
Lincoln, Nebr	16	9	2	3		10 00-	6 22-		
Minneapolis, Minn	108	77	3	4	Total	10,937	6,299	347	540
Omaha, Nebr	67	40	2	8	Expected Number	11 01-		222	4.0
St. Louis, Mo	226	140	5	5	Expected Number	11,916	6,811	338	484
St. Paul, Minn	51	35	-	3	Cumulative Total		L		
Wichita, Kans	34	19	2	3	(includes reported corrections for previous weeks)	465,469	265,723	18,377	21,970
Las Vegas, Nev.*	19	6	2	3	*Mortality data are being collected table, however, for statistical reason				

⁺ Delayed report for week ended September 5, 1970

Napa

QUARANTINE MEASURES - (Continued from page 363)

Loma Linda Dept. of Preventive Medicine

School of Public Health

Loma Linda University 92354

714, 796-8333

Clinic hours: Wed., 8 a.m.-12

noon Fee: Yes

County Health Dept. 2261 Elm St., 94558

707, 224-5433

Oakland Thomas Reich, M.D.

> Change clinic hours to Tues. and Thurs., 1-2 p.m. and by

appointment only.

Sacramento County Health Dept.

Change clinic hours to Thurs.

and Fri., 2-4 p.m.

DISTRICT OF COLUMBIA Freedmen's Hospital

Sixth and Bryant Streets, NW

202, 232-6262

Clinic hours: Tues., 1 p.m.

and by appointment

Fee: Yes

FLORIDA

Jacksonville U.S. Public Health Service

Clinic

Change address to 311 West

Monroe St.

Change clinic hours to Tues.

and Thurs., 2-3 p.m.

INDIANA

Elkhart County Health Unit

Change telephone number to

219, 294-2224

Indianapolis Indiana University Medical

Center

Change clinic hours to Fri.,

9:30 a.m.

NORTH DAKOTA

Grand Forks

Student Health Service

University of North Dakota

McCannel Hall 58201

701, 777-3963

Clinic hours: Tues., 1:30 p.m.

Fee: No

RHODE ISLAND

Providence

Dept. of Health

Change telephone number to

277-2362

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.

MANAGING EDITOR

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

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 THE PUBLIC HEALTH SERVICE
HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION
CENTER FOR DISEASE CONTROL
ATLANTA, GEORGIA 30333 OFFICIAL BUSINESS

OF HEALTH, EDUCATION, AND WELFARE

COMMUNICABLE DISEASE CENTER 46=1-10,18,19,22

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