

INFLUENZA

The outbreak of influenza in the Manila area (MMWR, Vol. 17, No. 36) appears to be subsiding (Table 1). One index of the magnitude of the epidemic is that absenteeism among Philippine residents who are employed by the United States Agency for International Development was three times greater at the end of August than it was at the end of July. Cases and deaths from pneumonia in Manila (Table 2) were substantially increased during weeks 33-35 of 1968 over the 5-year median (1963-67). The clinical syndrome has been typical of influenza: 4 to 5-day illness characterized by malaise, fever, cough, headache, and myalgia.

The International Influenza Center for the Americas confirmed 10 viruses, isolated from the epidemic in Manila,

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as similar to the A2/Hong Kong/68 strains; 10 paired sera had rises in titer to an A2/Hong Kong/68 strain (Continued on page 346)

second pairs of the new well a	38th WEE	K ENDED	MEDIAN	CUMULA	TIVE, FIR	ST 38 WEEKS
DISEASE	September 21, 1968	September 23, 1967	1963 - 1967	1968	1967	MEDIAN 1963 - 1967
Aseptic meningitis	295	128	94	2,871	2,034	1,431
Brucellosis	5	4	6	158	188	192
Diphtheria	5	2	3	137	90	142
Encephalitis, primary:	61	20		0.20	1 170	
Arthropod-borne & unspecified	01	39		929	1,110	
Encephalitis, post-infectious	110	14		2 154	1 577	
Repatitis, serum	110		677	3,134	1,577	28,355
Melazia	1,051	708	· ·	32,312	27,744	70
Malaria	12	32	3	1,650	1,434	12
Measles (rubeola)	130	204	554	19,798	58,049	240,837
Giuilian	29	24	30	2,060	1,703	2,078
	28	23		1,880	1,589	
Military	1			180	114	
Mumps	609	0.65		125,661	00	
Pollomyelitis, total	1		2	41	26	71
Paralytic	1	_	2	41	22	67
Rubella (German measles)	215	146	0.00	44,116	40,022	
Streptococcal sore throat & scarlet lever	5,727	5,350	4,705	310,971	334,172	299,858
Tetanus	5	8	6	116	163	186
Tularemia	2	3	6	144	134	190
Typhoid fever	13	8	9	276	307	303
Typhus, tick-borne (Rky. Mt. spotted fever).	9	14	5	246	276	211
Rabies in animals	55	90	85	2.599	3,302	3,302

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

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Botulism: Leptospirosis: Plague: Psittacosis:	3 4 30 2 35	Rabies in man: Rubella, Congenital Syndrome: Trichinosis: Typhus, murine: Md1	- 5 47 23

INFLUENZA - (Continued from front page)

Table 1

Weekly Cases of Influenza-like Illness Reported From Public Health Facilities in Greater Manila (Approx. 1.5 million pop.)

V	1					1996	Wee	k Number	Control of					
Tear	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1965	65	46	42	54	50	61	46	32	47	43	44	22	52	35
1966	44	40	42	78	46	58	87	174	96	167	119	254	243	107
1967	46	29	69	130	57	85	152	250	255	251	214	230	140	144
1968	53	48	46	65	59	162	1,882	20,346	11,285	5,812				

Table 2

Weekly Reported Pneumonia Cases and Deaths in Manila (Cases/Deaths)

Vaar	10.00		Week Nu	mber		-				
Tear	31	31 32 33 34 35								
Median		100 (10								
1963-67	86/46	100/48	111/38	119/45	124/48	159/56				
1968	98/53	111/43	155/64	242/76	206/97	158/67				

when tested by the hemagglutination-inhibition technique.

In previous years influenza in the Philippines had seasonal peaks in August and September. The last severe epidemic of influenza was recorded in 1957 with the first appearance of the A2 strains.

A widespread outbreak of influenza has also been reported from the Northern Territory of Australia. Three virus isolates from this outbreak were similar to A2/Hong Kong/68 strains. Although there has also been a single isolation of a virus similar to the A2/Hong Kong/68 strains in Melbourne, Australia, only sporadic cases of respiratory illness have occurred in that area. Sydney, Melbourne, and Perth had extensive A2 epidemics in June and July. These were caused by strains more closely related to earlier A2 viruses than to the A2/Hong Kong/68 strains.

In addition to the recently reported A2 outbreaks, the first type B outbreak recognized in Trinidad has been reported. On July 19, 1968, the first influenza B isolate was obtained. Since the beginning of August an additional 31 isolates have been recovered from children and a few adults.

(Reported by J.J. Dizon, M.D., M.P.H., Chief, Disease Intelligence, Disease Intelligence Center, Department of Health, Manila, Philippines; Dr. Espiritu-Campos, Department of Microbiology, University of the Philippines, Institute of Hygiene; Elmer Z. Dahl, Colonel, MC, USAF, Commander of the Fifth Epidemiological Flight, Manila, Philippines; M.F. Warburton, Ph.D., Controller, WHO Influenza Center, Melbourne, Australia; Andries H. Jonkers, Ph.D., Acting Director, Trinidad Regional Virus Laboratory, University of the West Indies; and Respiratory Virus Infections Unit, Laboratory Program, and Respiratory Viral Diseases Unit, Epidemiology Program, NCDC.)

EPIDEMIOLOGIC NOTES AND REPORTS OUTBREAK OF CALIFORNIA ENCEPHALITIS - Southwestern Kentucky

During August and September 1968 a total of 10 persons in Trigg and Calloway Counties in southwestern Kentucky were hospitalized with a clinical diagnosis of encephalitis or aseptic meningitis. The patients, ranging in age from 14 to 40 years, presented with a clinical history of fever, chills, headache, and vomiting. All recovered uneventfully in 4-10 days. The patients with the exception of one pair of siblings were unrelated to each other. Other than the siblings, all but one patient denied any knowledge of similar illnesses in family, friends, or acquaintances. No common exposure could be determined.

Acute and convalescent sera from two patients demonstrated a fourfold or greater rise in titer to California encephalitis antigen. Other sera are now being processed. A survey of physicians in a 20-county area in western Kentucky revealed 12 additional cases of similar illnesses in Trigg and Calloway Counties and two cases in adjacent Graves County. Intensive surveillance is continuing in this 20-county area which is near Saline County, Illinois, the site of the recent outbreak of St. Louis encephalitis (MMWR, Vol. 17, No. 37).

(Reported by C. Hernandez, M.D., M.P.H., Director, Division of Epidemiology, B. F. Brown, M.D., M.P.H., Director, Division of Laboratory Services, J. W. Skaggs, D.V.M., M.P.H., Acting Director, Office of Communicable Diseases, and Wallace Guerrant, Field Investigations Unit, Kentucky State Health Department; and EIS Officers.)

CURRENT TRENDS CALIFORNIA ENCEPHALITIS - United States

In addition to the cases reported from Kentucky, there have been case reports of California encephalitis from five

other states in the summer and fall of 1968. On the basis of serologic data, Arkansas, Iowa, and Wisconsin each reported one confirmed case, while Minnesota reported two and Ohio four cases. On the basis of clinical data and serologic tests on a single serum specimen, one presumptive case was reported from Minnesota and five from Wisconsin.

(Reported by Bryant S. Swindoll, M.D., M.P.H., Director, Division of Chronic Disease Control, Arkansas State Board of Health; Arnold M. Reeve, M.D., M.P.H., Chief, Preventive Medical Service, Iowa State Department of Health; D. S. Fleming, M.D., M.P.H., Director, Division of Disease Prevention and Control, Minnesota Department of Health; Calvin B. Spencer, M.D., Acting Chief, Bureau of Preventive Medicine, Ohio Department of Health; and H. Grant Skinner, M.D., Chief, Section of Communicable Disease Control, Wisconsin Division of Health; and Wayne Thompson, D.V.M., Zoonoses Research Laboratory, University of Wisconsin.)

EPIDEMIOLOGIC NOTES AND REPORTS MENINGOCOCCAL AND ECHO-9 MENINGITIS - Manatee County, Florida

From May 7 to June 4, 1968, the Manatee County Health Department, Florida, serving a population of 80,000, was notified of 15 cases of meningitis, including one death. A detailed investigation confirmed five cases of meningococcal meningitis, eight cases of viral meningitis, and two viral illnesses occurring in six families.

The first case was diagnosed as fulminant meningococcemia by autopsy on May 7 (Figure 1 Town A). On May 22, 2 weeks later, a second case of meningococcal meningitis, documented by positive cerebral spinal fluid (CSF) culture, occurred in a child in the S. family who rode a church bus with the first case. Over the following 7 days, five siblings (cases 3, 4, 5, 6, 7) of the second case developed viral meningitis. Of these five siblings, three had ECHO-9 isolates in their stools. Two additional cases (8, 9 in the W. family) of ECHO-9 meningitis, documented by a fourfold rise in neutralizing antibody, occurred in next door playmates of the S. family on May 24 and May 26. Another case of ECHO-9 meningitis (case 10), documented by an ECHO-9 isolate in his stool and a fourfold antibody rise, occurred on May 28 in a 17-month-old male. This boy's grandmother drove the school bus and worked in the school cafeteria where the S. and W. children attended school.

A third case (11) of presumptive meningococcal meningitis, documented by positive CSF smear with negative culture, occurred on May 28 in a 6-year-old male who lived in another town several miles away (Figure 1 Town B). This patient had been on polycillin for 1 week prior to the spinal tap. No epidemiologic link could be established with the earlier cases of meningococcal or viral meningitis. Two of his brothers (cases 12, 13) had viral illnesses characterized by febrile headaches without stiff necks. Although no CSF or stool cultures were obtained, throat cultures were negative for bacterial pathogens. Serologic data are pending. On May 31, 3 days later, the next door playmate (case 14) of case 10 developed meningococcal meningitis following a 7-day illness characterized by fever, headache, vomiting, and a measles-like rash. Although she had been on antibiotics for 1 week, examination of the CSF revealed gram-negative diplococci on smear with a negative culture. On June 3, her father (case 15) developed meningococcal meningitis documented by positive CSF, blood, and throat cultures.



In summary, two families had cases of meningococcal meningitis occurring at the same time as a viral illness and/or ECHO-9 meningitis. Three cases (2, 11, 14) had prodromal symptoms of headache and fever for 4-7 days prior to the onset of meningococcal meningitis. Case 14 had a measles-like rash 2 days prior to the onset of meningeal signs, and case 2 had a dual infection with Neisseria meningitidis and ECHO-9.

Therefore, simultaneous outbreaks of meningococcal and ECHO-9 meningitis have been confirmed. Although no conclusions as to a causal relationship between these two outbreaks can be made at the present time, further studies are underway to evaluate this possibility.

(Reported by Irving Hall, M.D., Pediatrician, Manatee County; George Dame, M.D., Director, Manatee County Health Department; Elsie Buff, M.S., Chief Virologist, Charles Hartwig, Ph.D., Director, Tampa Regional Laboratory, James O. Bond, M.D., D.P.H., Director, Encephalitis Research Center, Nathan J. Schneider, Ph.D., Director, Laboratories, and E. Charlton Prather, M.D., M.P.H., Director, Division of Epidemiology, Florida State Board of Health, and an EIS Officer.)

MURINE TYPHUS -- Baltimore, Maryland

Murine typhus was diagnosed in a 27-year-old chief mate of a German freighter which docked in Baltimore, Maryland, on August 21, 1968. While the ship was on route from Mazatlan, Mexico, on August 19, the man became ill with fever, severe headache, and backache. On August 21, the man reported to a hospital; a urinary infection was diagnosed and he was given sulfa drugs but was not hospitalized. His symptoms persisted, and he returned to the hospital on August 26; again he was not admitted but was told that he had influenza. The man went to a private physician on August 29; because a malaria smear was negative and a white blood cell count was 13,800, he was hospitalized. On admission the patient had albuminuria, and during the hospital course, he developed a bibasilar pneumonitis.

Serologic studies revealed an OX19 titer of 1:320 on August 20 and 1:1250 on September 3. Complement fixation titers to murine typhus were 1:32 on September 3 and 1:128 on September 9, a fourfold rise. A fluorescent antibody test to murine typhus on September 9 had a titer of 1:80, and the diagnosis of murine typhus was made. There was no rise in titer to Rocky Mountain spotted fever or Q Fever. Titers to epidemic typhus are in progress. The patient was treated with tetracycline for 10 days and became afebrile after the third day of treatment. He was discharged on September 10 and returned to Germany.

The patient reported a large rat population on the docks in Mazatlan; however, he did not note any increased flea population. He made several visits to shore while the ship was docked. He also reported that two crew members had been hospitalized in Mazatlan with fever and gastroenteritis.

(Reported by John B. MacGibbon, M.D., Baltimore, Maryland; John H. Janney, M.D., Chief, Division of Communicable Diseases, and J.M. Joseph, Ph.D., Chief, Division of Virology, Bureau of Laboratories, Maryland State Health Department; and two EIS Officers.)

Editorial Note:

Because the average incubation period for murine typhus is 12 days, the patient probably contracted typhus by contact with an infected flea while the ship was docked at Mazatlan. Although it is possible that he contracted the disease while traveling from Mazatlan to Baltimore, the investigators found a good level of sanitation aboard the ship.

CLOSTRIDIUM BOTULINUM TYPE B DUE TO HOME-COOKED CHICKEN - St. Joseph, Michigan

An elderly couple, each 78 years old, developed botulism after eating leftover chicken. The chicken had been frozen until July 16 when it was stewed in a broth containing rice. It was described as "tasty" when served the same day. Leftovers were placed in a covered, plastic container and stored in a cellar-way where the temperature was later recorded at 75°F. It was warmed and served at lunch the next day when it was noted to taste "moldy." At noon on July 18 the chicken was again heated and served; the wife ate more than the husband who complained that it tasted "slimmy." A doctor was seen by the couple about 7:30 a.m. on July 20 because of visual and bulbar symptoms and impending respiratory failure. The wife's symptoms were more severe than the husband's; they were both hospitalized and treated with Clostridium botulinum type AB antitoxin. She died about 24 hours later; he made an uneventful recovery.

Laboratory examination showed C. botulinum type B toxin in the serum from both the husband and wife and in the leftover chicken. The wife's serum contained 20 mouse LD_{50} doses/ml and the husband's, 10-20 mouse LD_{50} doses/ml. In addition, *Clostridium botulinum* type B was isolated from the chicken.

(Reported by C. E. Baggerly, D.O., Practicing Osteopath, Buchanan, Michigan; Robert P. Locey, M.D., Health Officer, Berrien County Health Department; Donald B. Coohon, D.V.M., Public Health Veterinarian, George Agate, M.D., M.S.P.H., Chief, Division of Epidemiology, and William W. Ferguson, Ph.D., Chief, Division of Microbiology, Michigan Department of Public Health; and the Anaerobic Bacteriology Laboratory, Bacterial Reference Unit, Bacteriology Section, Laboratory Program, NCDC.) Editorial Note:

Botulism resulting from the ingestion of poultry is quite rare in the United States. Of 640 reported outbreaks which occurred from 1899-1967 only one, also type B, was attributed to poultry. This is in agreement with the low incidence of *Clostridium botulinum* spores in raw meats in the United States and Canada.¹ Nevertheless, *C. botulinum* spores might well contaminate raw poultry, and it is possible that the heat resistant spores could survive normal cooking. In this outbreak storage of the leftover chicken in broth at room temperature undoubtedly permitted spores to germinate. This made possible the production of toxin; reheating on 2 subsequent days was obviously inadequate to inactivate all the toxin present.

Reference:

¹Ingram, M. and Roberts, T. A.: *Botulism 1966*, Chapman and Hall, Ltd., London, 1967, pp. 34-37. Based on the Proceedings of the Fifth International Symposium on Food Microbiology, Moscow, July 1966.

FOOD POISONING - Morton, Mississippi

An outbreak of food poisoning occurred on September 12, 1968, in Morton, Mississippi, among students who ate their noon meal in the cafeteria of a consolidated pub-

lic school with grades 1-12. Of the school's total enrollment of 1,409 pupils, 88.1 percent (1,241) ate the suspect lunch, resulting in 406 cases of illness characterized by nausea, vomiting, prostration, and less frequently diarrhea. The mean attack rate was 32.7 percent with children in the lower grades appearing to be at greater risk (Table 3). The epidemic curve demonstrates the short incubation period and common source nature of the illness (Figure 2).

Table 3 Attack Rate by Grade, Morton, Mississippi September 12, 1968

Grades	Children in Each Grade	Number Ill	Attack Rate
1	130	59	45.4
2	119	54	45.4
3	120	47	39.2
4	111	43	38.7
5	97	44	45.4
6	91	34	37.4
7	107	38	35.5
8	111	36	32.4
9	101	15	14.9
10	85	14	16.5
11	90	14	14.5
12	79	8	10.2
Total	1,241	406	32.7

Of the items on the menu the greatest disparity in attack rates between those who ate and those who did not eat the specified food was for tuna fish salad, the incriminated vehicle (Table 4). Except for chopped eggs prepared by hand the previous day, all other ingredients of the salad were mixed just prior to serving. Cultures of the tuna fish salad served grew abundant *Staphylococcus aureus*. All other ingredients, including canned tuna and other foods on the menu, were culture negative.

Table 4 Food Histories of Students Eating School Lunch

	Nur AT	nber Esp	person pecifie	ns who d food	Number who did NOT eat specified food				
Food Items	111	Not Ill	Total	Attack Rate Percent	III	Not Ill	Total	Attack Rate Percent	
Tuna Fish									
Salad	383	380	763	50.3	25	453	478	5.2	
Butter Beans	231	298	529	43.8	179	533	712	25.1	
Jello	248	338	586	42.5	148	507	655	22.6	
Vanilla Wafer	266	359	625	42.6	167	449	616	26.7	
Milk	333	512	845	39.5	59	337	396	14.9	
Ice Cream	190	354	544	35.0	225	472	697	32.4	

Although no apparent pustular skin lesions were detected on food handlers in the cafeteria, nose and/or throat cultures on nine of 11 food handlers grew *S. aureus*.





Phage typing and enterotoxin producing ability of all staphylococcal isolates as well as enterotoxin assay of the incriminated tuna fish salad are in progress.

(Reported by D. L. Blakey, M.D., M.P.H., Director, Division of Preventable Disease Control, Richard H. Andrews, M.S., Director, Division of Public Health Laboratories, and S. L. Moore, M.D., M.P.H., Director and Personnel Officer, Division of County Health Work, Mississippi State Board of Health; and an EIS Officer.)

MEASLES - Terrebonne Parish, Louisiana

On September 2, 1968, a 7-year-old girl was admitted to a hospital in New Orleans, Louisiana, with clinical measles and associated mild encephalitis from which she subsequently recovered. Epidemiologic investigation in a relatively isolated area of Terrebonne Parish revealed a (Continued on page 350)

MEASLES - (Continued from page 349)

total of 21 related cases and traced cases to June when the first case occurred in a day care center for retarded children (Figure 3). Cases had continued at a low rate because of the pupils' limited social contact. At the end of July a normal child was exposed at Bible School to a retarded child, and she subsequently exposed four siblings, one friend, and five cousins including the presenting case. None had been immunized although a community-wide measles program was held in December 1967.

Emergency vaccine supplies were obtained from NCDC and an intensified community immunization program was conducted during the week of September 9. As a result of this investigation, surveillance for measles in special institutions will be added to the present school reporting system in Louisiana.

(Reported by Charles T. Caraway, D.V.M., M.P.H., Chief, Section of Epidemiology, Louisiana State Department of Health; and an EIS Officer.)



ARSINE GAS POISONING - New Jersey

On May 29, 1968, three workers in a chemical plant in New Jersey developed nausea, vomiting, abdominal pain, and hematuria within 1 hour after cleaning a large vat containing several arsenic compounds. The workers' symptoms were compatible with those caused by the inhalation of arsine gas (AsH_3) .

The first case, a 44-year-old male, was exposed to the arsine fumes for approximately 5 minutes. Within 1 hour he had onset of weakness, blurred vision, headache, nausea, vomiting, epigastric pain, and hematuria. He was hospitalized the following day. When the history of exposure to arsenic was obtained, he was transferred to another hospital. On admission, he was found to have icterus, dusky tan skin, and a tender abdomen. His admission hemoglobin was 7.8 gm percent. He was treated by mannitol diuresis and received two exchange transfusions of 5 and 10 units of blood, respectively. Neurologic studies, urine output, and EKG and bone marrow biopsies were normal. At the present time, the patient is ambulatory and is in satisfactory condition. Kidney and liver function tests have returned to normal; however, the patient continues to be anemic.

The second case, a 31-year-old male, was exposed to the arsine fumes for approximately 30 minutes; 15 minutes after exposure, he developed hematuria and then the onset of nausea, vomiting, myalgia, and headache. He received symptomatic medication that evening, but did not improve. Examination on May 30 revealed icteric sclera and a tender abdomen; arsenic poisoning was diagnosed and the patient was hospitalized. On admission the patient had dusky brown skin and a blood pressure of 158/80 with a pulse of 66. His initial laboratory tests included a hemoglobin of 11.7 gm percent which decreased to 8.0 gm percent over the next 2 weeks, a bilirubin of 13.6 mgm, and a plasma free hemoglobin of 2,180 mgm/100cc (normal is less than 5 mgm/100cc). Initial treatment included an exchange transfusion with 14 units of blood, six doses of 200 mg BAL every 4 hours, and peritoneal dialysis. His subsequent hospital course was complicated by high fever, pneumonia, persistant oliguria with azotemia, hyperkalemia, and mental aberration with hyperreflexia. Repeated transfusions, peritoneal dialysis, and ion exchange resins were employed, resulting in diuresis on June 20. Despite the return to normal of liver and kidney functions, the patient remains anemic.

The third case, a 44-year-old male, was believed to be exposed to a more concentrated volume of gas than the second case. He immediately became symptomatic with weakness, headache, nausea, frequent and severe vomiting, and right upper quadrant pain. He received symptomatic treatment that evening but continued to be ill and on May 20 was hospitalized. On admission he was disoriented and had a blood pressure of 100/60, pulse of 120/min, and respirations of 28/min. He had yellow sclera and his skin was greyish brown. He was diffusely tender throughout the abdomen, particularly in the right upper quadrant. His admission hemoglobin was 5.9 gm percent and his plasma free hemoglobin was 2,500 mgm/100 cc. The patient's course was similar to that of the second case with anuria, azotemia, hyperkalemia, and mental agitation. Treatment with BAL, blood transfusions, peritoneal dialysis, and ion exchange resin, resulted in diuresis by the third week of his hospital stay. After discharge from the hospital the patient complained of weakness in his legs. Liver function returned to normal, but his kidney function remains impaired.

(Reported by Norman Plummer, M.D., Coordinator, Pesticides Program, Division of Environmental Health, and Arthur DePalma, M.D., Pesticides Project, New Jersey State Department of Health; and the Pesticides Program, Food and Drug Administration, Atlanta, Georgia.) Editorial Note:

The legs of the aluminum ladder which was used to enter the vat were actually in contact with the arsenic compounds in the vat. The following chemical reactions probably occurred. NaAsOo, Hoo NaOH, HAGOO

 $NaAsO_2 + H_2O \rightarrow NaOH + HAsO_2$ $3NaOH + Al \rightarrow NaAlO_3 + 3H^{\circ}$ $6H^{\circ} + HAsO_3 \rightarrow 2H_2O + AsH_3$

Recently, two cases of malaria due to *Plasmodium* falciparum were reported to NCDC.

Case No. 1: San Antonio, Texas

On June 27, 1968, while on duty in Vietnam, a 41year-old American serviceman developed chills, fever, blurred vision, and generalized weakness. He returned to his home in the United States on June 28, having received emergency leave because of illness in his family. His chills and fever persisted, and on July 1, he sought medical attention at a nearby military hospital. On physical examination, his temperature was 103°F.; he was drowsy, moderately confused, and appeared somewhat toxic; his liver and spleen were enlarged and tender. Initial laboratory studies showed a hematocrit of 43 percent, a BUN of 32 mg percent, a CO₉ of 19 meq per liter, and a bilirubin of 3.8 mg percent. A urinalysis was normal. Peripheral blood smears showed that approximately 50 percent of the red cells were parasitized with Plasmodium falciparum.

The patient was treated with intravenous quinine sulfate and oral chloroquine phosphate. Because of progressive signs of cerebral involvement, he was also treated with dexamethasone, 6 mg intramuscularly every 6 hours. On July 2 his platelet count was 5,000; the prothrombin time, partial thromboplastin time, and fibrinogen level were normal, and there were no petechiae or signs of blood loss. Because the thrombocytopenia suggested disseminated intravascular coagulation, he was treated with intravenous heparin, 50 mg every 4 hours. He also developed hemoglobinemia and hemogloginuria, associated with a decline in hematocrit to 30 percent. Although he was treated by forcing fluids and with mannitol and diuretics, he became oliguric and azotemic. On July 3 his platelet count was still 5,000 and his hematocrit had decreased to 26 percent; he received four units of packed cells and 12 units of platelets. Also on July 3 he had a grand mal seizure, necessitating treatment with diphenylhydantoin. On July 4 he began to show signs of improvement; his temperature returned to normal, and his mental status improved slightly; his BUN stabilized at 150 mg percent, and his urine output increased to 100-150 cc per hour. Peripheral blood smears at this time showed a 10 to 15 percent parAlthough arsine gas (AsH₃) has a distinct garlic odor, the three patients could not remember smelling this odor. A possible explanation for this is that sodium arsenite (NaAsO₂), also present in the vat, has a strong odor and may have masked the arsine gas odor.

Hematuria, cephalgia, jaundice, and abdominal pain, commonly seen in arsine gas poisonings, are caused by the acute hemolytic crisis resulting from arsine inhalation. The persistance of nausea and vomiting in the patients was probably caused by the effects of arsine gas, the systemic effects of arsenic, and the azotemia which the patients developed.

MALARIA

asitemia. By July 5 the platelet count had risen to 25,000 and the hematocrit was stable at 32 percent. On July 6, however, he again became febrile and a chest film showed bilateral pulmonary infiltrates. His sputum contained both gram negative positive organisms as well as leukocytes. Blood cultures were drawn, and he was started on cephalosphorin and sodium collistimethate. However, he developed progressive respiratory insufficiency, and despite a tracheostomy, he died on July 7, the seventh hospital day. The blood cultures drawn on July 6 subsequently grew Staphylococcus aureus and Pseudomonas aeruginosa.

On postmortem examination, the lungs showed an acute necrotizing confluent bronchopneumonia with pulmonary edema and congestion. The kidneys showed focal acute inflammation and necrosis with occasional colonies of gram positive cocci; hemoglobin casts were found in the distal tubules. The brain showed multiple small foci of acute inflammation, one of which contained gram positive organisms; in addition, focal perivascular hemorrhage with ischemic necrosis was noted. The heart showed focal acute myocarditis. There was marked hyperplasia of both myeloid and erythroid elements in the bone marrow. *P. falciparum* parasites were not detected in any tissues, but malaria pigment was found in virtually every organ. Postmortem cultures of the lungs grew *S. aureus* and *Ps. aeruginosa*.

(Reported by Charles L. Hedberg, Colonel, MC, Acting Chief, Department of Medicine, Brooke Army Medical Center, Ft. Sam Houston, Texas; and M.S. Dickerson, M.D., Director, Communicable Disease Division, Texas State Department of Health.)

Case No. 2: Minneapolis, Minnesota

On July 13, 1968, following an untreated illness of 8 days duration, a 25-year-old American woman in Minneapolis, Minnesota, died. On July 14, postmortem examination revealed a normally proportioned Caucasian female with slightly icteric skin. The liver and spleen were enlarged and slate grey in color, and the brain appeared slightly congested and edematous. On microscopic examination, the capillaries of all organs were found to contain red cells parasitized with *Plasmodium falciparum*. Hemoglobin casts (Continued on page 356)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

SEPTEMBER 21, 1968 AND SEPTEMBER 23, 1967 (38th WEEK)

					P	NCEPHALIT	IS		HEPATITIS		
AREA	ASE MENI	PTIC NGITIS	BRUCELLOSIS	DIPHTHERIA	Pri incl unsp.	mary uding cases	Post- Infectious	Serum	Infec	tious	MALARIA
.21	1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
UNITED STATES	295	128	5	5	61	39	8	116	1,051	708	72
NEW ENCLAND	12	2	1		1	_	. }	2	67	50	
Maine*					-			-		2	
New Hampshire					-		-	-	-	-	-
Vermont	-	-	-		-	-	-	-	13	-	1 -
Massachusetts	-	1	1	- 1	-	-		-	23	22	1 -
Rhode Island	3	1	-	- 1	-	-	-	-	11	6	-
Connecticut	9		-	-	1	-	-	2	20	20	-
MIDDLE ATLANTIC	67	9	-		6	9	-	49	168	112	9
New York City	24	3		-	-	2	-	37	67	43	-
New York, up-State.	6	100	-		4	-	-	6	36	17	-
New Jersey."	26	3	-		1		-	5	47	24	5
Pennsylvania"	11	3	-	- 1	1	7	-	1	18	28	4
	50										
LAST NORTH CENTRAL	29				27	15			140	80	
Un10	13	2	-		18	15	1	-	29	26	-
Indiana	5	2		-		-		-	9	5	
Michigan	.0	2			4	-	-		35	15	
Wieconsir	40	5			5	_	2		67	- 33	
wisconsin	1		-		-	-		-	-		-
WEST NORTH CENTRAL	13	5	2	1.00	5	1		2	E 0	/ E	· · ·
Minnesota	9	5	Ĺ Ĺ		1	1		2	16	45	
Topa *	4	-	1		3	1	2	2	10		
Missouri			1 î		5		1		21	23	1
North Dakota	_	-			1				1	25	1
South Dakota	-	-	-	-	-				1		
Nebraska	-	-		-		-		_	Å		_
Kansas			1.15	1	-	-		-	4	3	-
COUTUL ATTANTA	19	4.2			2	2				0.1	
Delaware	-10	42			2	Z		1	9/	81	1/
Maruland	1	32			1			-	12	12	
Dist of Columbia	1	-			1				12	- 17	1
Virginia	6	1	_		_	_			11		
West Virginia	5	1	-	- 1	1	-		-	8	á	_
North Carolina	4	7	-	- 1	-	2	-	1	19	7	7
South Carolina	2	71	-		_	1		-	3	5	
Georgia	-	-		-	-	_		-	17	10	7
Florida	-	1	-	-	-	-		-	23	14	i
EAST SOUTH CENTRAL	17	24		4	4	2	1	-	55	42	1
Kentucky.	5	13	-	-	-	1			21	14	1
Tennessee.	6	2	-		2	1	1	-	18	7	-
Alabama	3			4	-	-	-	-	7	8	-
M1SS1SS1pp1	3	9		- T. (C.	2		1		9	13	
WEST SOUTH CENTRAL	8	5	1	1	1			6	77	75	-
Arkansas	1 1019 2	-		-	-	-		-	: 7	7	
Louisiana	4	2	-	1	-	-	1 - 1	Э	16	15	-
Oklahoma	1	-	1			-	- 1		8	2	-
Texas	1 1		1	-	1	A	-	3	46	51	
MOUNTAIN	4	1			1				59	30	7
Montana	2	1 1			1				8		
Idaho	1	-	-			_			3	1	-
Wyoming.						_		_			
Colorado.	1	4051-0-5	D	The set	1	-	- 1		33	8	5
New Mexico		-		-	-	-	1		4	4	1
Arizona	1.1.2		-	_			- 1	1 m.	7	4	1
Utah	No. of Concession, Name	1		1.5 1.00		-		-	4	9	
Nevada		-	-	-		-	S 11.	-			
PACIFIC	07	22	1.0		14	10		E.C.	220	102	37
Washington	3/	33	1		14	10	2	26	330	193	/د
Oregon *	14				The second				30	8	1
California	70	30	1		12	10		54	16	177	
Alaska	2	32	1		51	10	2	20	280	1//	4
Hawaii	-	1	-	-	- 1		-		1	1	31
Puerto Rico*							<u> −−−− </u>				
I GELEO RICO				-	-	-		-	21	49	-

*Delayed reports: Aseptic meningitis: Ore. 1 Encephalitis, primary: Pa. delete 1 Hepatitis infectious: Me. 3, P.R. 4 Malaria: N.J. 2, Iowa 1

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

SEPTEMBER 21, 1968 AND SEPTEMBER 23, 1967 (38th WEEK) - CONTINUED

	MEA	SLES (Rube	eola)	MENINGO	COCCAL INF TOTAL	ECTIONS,	MUMPS	P	OLIOMYELIT	IS	RUBELLA
AREA		Cumul	ative	- 1	Cumu 1	ative		Total	Para	lytic	
	1968	1968	1967	1968	1968	1967	1968	1968	1968	1968	1968
UNITED STATES	130	19,798	58,049	29	2,060	1,703	609	11	1	41	215
NEW ENGLAND	5	1,162	848		121	68	76			1	32
Maine	-	37	239		6	3	-		- L.	-	3
New Hampshire	-	141	74		7	2	2	-	- 1	-	Page 1 - 1
Vermont	-	2	34		1	1	12		- 50	-	1
Massachusetts	1	366	349		63	32	36		-	1	12
Rhode Island		5	62		9	4	10			-	5
Connecticut	4	611	90	- 1	35	26	16	-	-	-	- 11
MIDDLE ATLANTIC	23	4,114	2,276	8	371	280	14	-	-	-	25
New York City	20	2,130	464	2	75	49		-	-	-	16
New York, Up-State.	-	1,218	587	3	67	68	NN	-		-	8
New Jersey	3	639	490	-	128	93	14	-	- 15	-	1
rennsylvania	-	127	/35	3	101	70	NN		-	-	-
EAST NORTH CENTRAL	31	3,811	5,501	6	251	231	186	-	-	1	71
Ohio	2	296	1,150	3	67	80	7		- 1		5
Indiana	4	676	597	-	35	23	18		- 1		11
Illinois	5	1,369	979	2	56	55	11	-	-	1	7
Michigan	6	272	937	1	73	56	30			-	28
Wisconsin	14	1,198	1,838	-	20	17	120	-	- 1	-	20
WEST NORTH CENTRAL	1	385	2,868	3	111	73	54	-	- 61	2	15
Minnesota		16	134		26	18	1	- 31	- 1		(Tot 7, 54)
Iowa	1	99	749	1	7	14	48	- 1		-	12
Missouri	-	81	333	2	37	15	1			2	3
North Dakota		134	870	-	3	1				-	- 1
South Dakota	-	4	54	-	5	6	NN		-	-	
Nebraska		41	635	-	6	13	4		-	-	
Kansas		10	93		27	6		1.1	- 13	-	1.12
SOUTH ATLANTIC	8	1,515	6,898	2	412	329	35	1	1	3	13
Delaware		16	46	-	8	6	-	-		- 64 (19)	2
Maryland	4	100	161		34	43	7		Du		2
Dist. of Columbia*.		6	22		14	10	-		- 11	1	
Virginia	1	302	2,191	1	36	40	2				-
west Virginia	1	289	1,390		11	26	13	I	1	1	Z
South Carolina		12	511	1	56	20					
Georgia			36		95	29 //9					
Florida	2	504	1,688	-	91	56	13	-	-	-	7
EAST SOUTH CENTRAL		496	5 213	2	187	129	40			2	7
Kentucku		100	1 337	1	85	35	40		_	ĩ	
Tennessee		62	1,880	1	54	55	31		-	1	5
Alabama	-	94	1 329		26	26	1	1 - 11	- 1	1	2
Mississippi	4	240	667	1	22	13	1			-	
110-								1			
WEST SOUTH CENTRAL	27	4,806	17,439	3	308	222	45	1.1		21	16
Arkansas	-	2	1,404	-	20	31	1				P Disc
Louisiana		2	155	1	89	88		-		-	
Oklahoma Texas	6 21	123	3,351	- 2	50 149	87	43	1.1		2 19	16
MOUNTATA		001	4 670		20	20	E 1				
MUNIAIN.	14	994	4,672	1	32	32	51		-	-	9
Idaha	1	29	28/	1	5	1	9		1.1		2
Wyom fr		51	101		11	1	-				1
Colorada *		501	1 560		10	13	11			_	2
New Marrian	10	112	586		10	13	4	_	-	-	3
Arizona*	3	224	1.019		2	4	17	1 - 13		-	1
Utah	_	21	376		1	4	6	-	-	-	- 1
Nevada		5	269	-	3	3	-	i - I	-		-
PACIFIC	17	2 515	12 224		267	220	109			11	27
Washington	12	2,22	5 / 20	1	207	20				1	21
Oregon*	2	525	1,600	1	21	25	10			1	0
California	2	1,420	4,975	3	193	269	89			10	5
Alaska	- î	2	140		2	10	5	_			5
Hawaii		35	171		12	4	4	-	- 1		nan'i- Tr
Puerto Rico	5	412	2,126	1	20	12	23	-	_		3
ALCO		411	-,	-							

*Delayed reports: Measles: Colo. delete 1, Ariz. delete 1, Ore. delete 3 Poliomyelitis, paralytic: D.C. 1 Rubella: Ore. 3

Morbidity and Mortality Weekly Report

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

SEPTEMBER 21, 1968 AND SEPTEMBER 23, 1967 (38th WEEK) - CONTINUED

AREA	STREFTOCOCCAL SORE THROAT & SCARLET FEVER	TET	ANUS	TULA	REMIA	TYP	HOID	TYPHU TICK (Rky. Mt	S FEVER -BORNE . Spotted)	RA B I AN I	ES IN MALS
and the second second	. 968	1968	Cum.	1968	Cum.	1968	Cur.	1069	Cum.	1068	Cum.
UNITED STATES	5,727	5	116	2	144	13	276	9	246	55	2,599
	(10	10.1		1.11	16	1		10.1		1.0	
NEW ENGLAND	640		2		46	1	8		1		70
Maine:	26		-				1				2
Vermont	11				46	-1	-		_		11
Massachusetts	97		1	-		1	4	-	1	-	3
Rhode Island	39		- 1				-	-		- 1	-
Connecticut	465	-	1	-	-	-	3	-	-	-	1
MIDDLE ATLANTIC	119	2	15		7	-	21	-	18	1	40
New York City	101	2	0 4		-	-				1	33
New fork, up-state.	NN	1 2 3	-		<u>'</u>		4		6	-	
Pennsylvania	14		3	_	-	-	3		8	-	7
				1.14							
EAST NORTH CENTRAL	415		10		8	1	36		8	7	249
Ohio	53	- 20	-	-	1	1	14	-	6		86
Indiana	92		2	-	1	-	3	-	- 5	3	80
Illinois	57	- 10	5	-	5	-	18	-	2	1	35
Michigan	100	-	2	-	1	-		-	-	1	13
Wisconsin	115		1	Ē.	-	-	1	-	-	2	35
UEST NORTH CENTRAL	240	1	a		13	1	31		a	٩	633
Minnesota	240	-	2		13		51		, , ,	5	195
Towa	94	- 1	3		_		1	-	1 1	2	105
Missouri	7		2	_	7	1	24		3	2	92
North Dakota	46		-	- 1	-	-	-	-		-	102
South Dakota	14			-	3	-	1	-	4	-	79
Nebraska	45	1	2	-	-	-	3	-	1		25
Kansas	6	-	-	-	3	-	2	-	-		35
SOUTH ATLANTIC	620	-	25	1	10	_	54	7	134	6	296
Delaware	2	-	-	-		-	-	-	-		-
Maryland	118		3	-	-	-	9	1	-15	1	5
Dist. of Columbia	28		2	-	-	-	1		- 1		1
Virginia	204		4		2	-	9	- 11 C	42	1	108
West Virginia	137		2	-	-	-	-	2	2		34
North Carolina	11		2	-	2	-	2	3	37		11
South Carolina	31		3		7 -	-	3	1	9	-	
Georgia	4	11 - XII.	-	1 .	4	-	14		26	4	53
Florida	ده		9		2	-	10	-	3	1	84
FAST SOUTH CENTRAL	1.055	1	15	-	8	2	31	1	46	12	561
Kontucky	132	1.1	1		ī		6		10	7	285
Tennessee	778	1	6	-	5	-	16	1	31	5	253
Alabama	57	- 9	5		-	2	2	- 100	3	D. Same	22
Mississippi	88	-	3	-	2	-	7	-	2	-	1
WEST SOUTH CENTRAL	572	1	22	1	43	4	36	1	24	5	424
Arkansas	15		4	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	14	2	7		5	-	54
Louisiana.	3	1	9	- 1 U	6	1	6	200 - UU		2	40
Oklahoma	45		1 1	- Card	8	-	12	1	12		117
Texas	509	-	9	1	15	1	11	-	7	3	213
MOUNTAIN	1,161	-			7	1	15	- N	5	3	74
Montana	19	-			1 - 2						
Idaho	89		-			-		- I-	1		
Wyoming	33	1		-	1	-	1	(E) = (i) a			3
Colorado	749		-	1.1	3		2	100 - LU A	4		3
New Mexico	135	-12	-	- L	-	1	8	460 - 11 J		1	31
Arizona	90	-0			-		3	12 - 11		2	36
Utah	46		-		3					-	1.0
Nevada	10.00	-	-	1.5	-	1	1			-	1
PACIFIC	905		18	11-12	2	3	44		1	12	252
Washington	250	1 - ol 1	1	- 11 - 11 -	1 - 1		2			- 1	2
Oregon	42	- 11	1		1		5			-	6
California	386	2	16	- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1	1	3	37		1	12	244
Alaska	81	1	1.	1.500	5 . L. T. H		Sec.	D. •			
Hawaii	146	-	-	-	-	-	-			1000	
Puerto Rico	10		8			1	3				17

*Delayed reports: SST: Me. 6

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED SEPTEMBER 21, 1968

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

Area All Cause Presental and Ages Under soft Area All Cause Ages Presental and ver Ages Presental and ver All Ages Presental and ver Ages Presental and ver Ages Presental and ver All Ages Presental All Ages Presenta				I						
Area All Ages end end end end end end end end end end		All Ca	uses	Pneumonia	Under		A11 Ca	uses	Pneumonia	Under
Alt Alt Base Alt Bas	Area	411		and	1 year	Area	411	100	and	1 year
Table Model Course Course <thcourse< th=""> <thcourse< th=""> <thcours< td=""><td>Alea</td><td>All</td><td>and over</td><td>Influenza</td><td>A11</td><td>Area</td><td>ATT</td><td>b) years</td><td>Influenza</td><td>A11</td></thcours<></thcourse<></thcourse<>	Alea	All	and over	Influenza	A11	Area	ATT	b) years	Influenza	A11
NEW BARGE. 695 407 29 30 3000000000000000000000000000000000000		Ages	and over	All Ages	Causes		Agea	and over	All Ages	Causes
Barton, R., Bartageor, C., Conner, C., Song, Song, Song, Song, Song, Song, Song, Song, Song,	NEW ENCLAND:	695	407	29	38	SOUTH ATLANTIC.	1.161	565	44	76
Bit diggert, icon	Boston Mass	197	113	8	12	Atlanta Ca	130	51	2	11
Case Sectors, Lam. 24 11 -1 -2 -11 -2 -21 -21 -21 -21 -21 -21 -21 -21 -21 12 -21 12 -21 12 -21 13 -22 11 -23 -21 13 -21 13 -21 13 -21 13 -21 13 -21 14 -21 13 -21 14 -21<	Boston, Mass.	39	21	7	2	Atlanta, Ga.	252	130	5	8
Tang Tage, Mais. 20 11 - 21 Control to the second secon	Bridgeport, Conn		11	· ·	-	Baltimore, Md	2.52	150		,
All Alver, Mass	Cambridge, Mass	24	11			Charlotte, N. C	51	21	1	4
Listford, Conn	Fall River, Mass	20	15		1 2	Jacksonville, Fla	62	24	1	5
1. met. 1. Mus	Hartford, Conn	60	28	د ا		Miami, Fla	119	60	2	· · ·
Jyme, Kasa,	Lowell, Mass	28	16	-	2	Norfolk, Va	59	32	3	3
Base BackGord, Mess	Lynn, Mass	19	11			Richmond, Va	68	33	5	2
Nume Raven, Conn	New Bedford, Mass	22	16	1	1 1	Savannah, Ga	52	28	5	1
Providence, R. I. Ge 13 2 3 -	New Haven, Conn	62	37	1	- 1	St. Petersburg, Fla	71	57	4	1
Scenerville, Mass	Providence, R. I	66	41	4	4	Tampa, Fla	66	36	9	-
Springfeid, Mas	Somerville, Mass	12	9	-	1	Washington, D. C	197	75	5	34
Water bury, Com. 25 12 - 2 EAST SOUTH CENTRAL: 665 364 26 31 MIDDL ATLANTC: 3, 109 1,792 116 139 Birminghan, Ala. 101 53 24 8 Allencom, N. X. 51 36 12 12 Interval 101 53 24 8 Mathay, N. X. 50 86 2 116 139 106 114 101 537 8 2 3 Mathay, N. X. 43 25 5 3 Mobile, Ala. 14 77 12 2 Stranton, N. J. 30 13 4 25 75 3 21 1 - - 12 114 12 Austin, Tex. 13 21 1 - - 77 33 21 1 - - - - 77 33 21 1 - - - - - -	Springfield, Mass	48	30	2	3	Wilmington, Del	34	18	2	2
Worester, Mass	Waterbury, Conn	25	12	-	2					
MDDL ATLANTIC: 3,109 1,722 116 139 Allenge, A. Tamanoni, T	Worcester, Mass	68	47	3	2	EAST SOUTH CENTRAL:	665	364	26	31
Data Laker Laker 3, Log 1, P2 116 13 Chattenoge, Imp 36 32 4 3 Allery, N. Particle, N. Y 130 86 2 9 Memphis, Tenn 36 73 8 7 12 Andrey, N. Y	MIDDIR ANT ANTIC		1 700		1.00	Birmingham, Ala	101	55	2	8
Allamy, N. Y	MIDDLE ATLANTIC:	3,109	1,792	116	139	Chattanooga, Tenn	56	32	4	3
Allentcom, Pa	Albany, N. Y	48	27	1	2	Knoxville, Tenn	46	32	2	-
Buffale, N. Y	Allentown, Pa	51	36	-	1	Louisville, Ky	136	75	8	2
Canden, N. J	Buffalo, N. Y	150	88	2	9	Memphis, Tenn	144	71	-	12
Elizabeth, N. J	Camden, N. J	43	25	5	3	Mobile, Ala	45	20	-	2
Erter partery 37 21 4 2 Nashville, Tenn	Elizabeth, N. J	39	26	4	3	Montgomery, Ala	47	27	5	2
Jersey City, N. J	Erie, Pa	37	21	4	2	Nashville, Tenn	90	52	5	2
New York (N. J	Jersey City, N. J	50	37	2					HALL DO NO.	41.29
New York City, N. Y 1,552 913 54 62 Austin, Tex 33 21 1 Phitsakurgh, Pa 406 205 6 20 Corpus Christi, Tex 23 17 - Pittskurgh, Pa 59 39 3 2 El Paso, Tex	Newark, N. J	70	32	3	4	WEST SOUTH CENTRAL:	1,141	619	25	75
Pate area of the set of	New York City, N. Y	1,552	913	54	62	Austin, Tex	33	21	1	-
Phitsburgha, Pa 406 205 8 20 Corpus Christi, Tex 23 17 - - Pittsburgh, Pa 59 39 3 2 El Paso, Tex	Paterson, N. J	37	22	4	1	Baton Rouge, La	29	19		-
Pittsburgh, Pa 175 86 5 14 Dallas, Tex 158 87 - 9 Reading, Pa 59 39 3 2 El Paso, Tex, 40 19 2 5 Rochester, N. Y 43 26 2 - Little Rock, Ark 87 47 8 10 Syracuse, N. Y 84 53 34 4 New Orleans, La 137 83 46 - 2 Uitca, N. Y 26 19 2 - San Antonio, Tex, 134 64 3 11 Yonkers, N. Y 21 14 1 - Sheweport, La 78 31 5 6 Akron, Ohio	Philadelphia, Pa	406	205	8	20	Corpus Christi, Tex	23	17	-	
Reading, Ta	Pittsburgh, Pa	175	86	5	14	Dallas, Tex	158	87	-	9
Rochester, N. Y 134 75 8 5 Fort Worth, Tex 74 42 1 4 Schenettady, N. Y 43 26 2 - Little Rock, Ark 87 47 8 10 Syracuse, N. Y 84 53 3 4 New Orleans, La 83 46 - 2 Uita, N. Y 26 19 2 - San Antonio, Tex, 134 64 3 11 Yonkers, N. Y 21 14 1 - Shreweport, La. 58 31 5 Akron, Ohio 37 25 - 1 Albuquerque, N. Mex 64 20 2 4 Colorado Springs, Colo. 33 20 4 5 Ogden, Utah	Reading, Pa,	59	39	3	2	El Paso, Tex	40	19	2	5
Schemectady, N. Y 31 19 3 Houston, Tex 192 105 1 12 Syratom, Pa 43 26 2 - Little Rock, Ark 87 47 8 10 Syratom, N. J 53 29 2 7 Kahoma City, Okla 134 64 3 11 Yonkers, N. Y 21 14 1 - - 134 64 3 11 Yonkers, N. Y 21 14 1 - - 134 64 3 11 Yonkers, N. Y 21 14 1 - - 134 64 3 11 Yonkers, N. Y 21 14 1 - - 138 64 3 12 Cator, Ohdo	Rochester, N. Y	134	75	8	5	Fort Worth, Tex	74	42	1	4
Stranton, Pa	Schenectady, N. Y	31	19	3	1 1	Houston, Tex	192	105	1	12
Systems N. N. J 84 53 3 4 New Orleans, La 157 83 1 Re Vankers, N. J 26 19 2 7 Oklahoma City, Okla 83 64 3 11 Vankers, N. Y 21 14 1 - 5an Antonio, Tex 134 64 3 11 Vankers, N. Y 21 14 1 - 5an Antonio, Tex 134 64 3 11 Vankers, N. Y 21 14 1 - - 134 64 3 11 San Antonio, Tex 73 38 3 8 - - 136 14 - - 137 38 3 8 Catton, Ohio	Scranton Pa	43	26	2	-	Little Bock, Ark	87	47	8	10
Trenton, N. J. 53 29 2 7 Oklahoma City, Okla. 63 46 - 2 Utics, N. Y. 21 14 1 - - 58 31 5 6 PART, N. Y. 21 14 1 - - 134 64 3 11 Sheveport, La. 73 38 3 8 3 8 3 8 EAST NORTH CENTRAL: 2,555 1,398 71 139 Houwstain 427 253 19 28 Canton, Ohio	Syracuse N. Y	84	53	3	4	New Orleans, La.	157	83	1	8
111101, N. Y 26 19 2 1 1 134 64 3 11 Yonkers, N. Y 21 14 1 - 134 64 3 15 EAST NORTH CENTRAL: 2,555 1,398 71 139 139 139 139 Canton, Ohio 73 37 - 9 Albuquerque, N. Mex, 48 20 2 4 Chicago, Ill 79 37 - 9 Albuquerque, N. Mex, 48 20 2 4 Chicago, Ill 79 37 26 6 Derver, Colo 107 76 4 5 Cleveland, Ohio 73 46 3 21 1 Phoenix, Ariz 107 76 4 5 Dayton, Ohio	Trenton N Lassesse	53	20	2	7	Oklahoma City Okla	83	46		2
Unitar, N. Y. 21 14 1 - Shreweport, La 58 31 5 6 EAST NORTH CENTRAL: 2,555 1,398 71 139 - 9 WUNTAIN: 427 253 19 28 Canton, Ohio	litica N V	26	19	2	1 1	San Antonio Tev	134	64	3	11
Interest, N. I. Image of the second seco	Vorkana N. Y.	20	14	2		Shrayaport Is a	59	31	5	6
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All Causes, Under 1 Year of Age---

*Estimate - based on average percent of divisional total.

MALARIA - (Continued from page 351)

were found in the renal tubules, and vacuolar degeneration was noted in the proximal tubular cells. The bone marrow showed marked erythroid hyperplasia. The heart and lungs were normal.

The woman had no history of previous malaria attacks and had not received blood transfusions. She and her husband had lived in Sierra Leone from September 1967 until June 15, 1968, and then had returned to the United States, arriving in San Francisco on July 5. During their return journey they had visited several countries in southeast Asia, including Thailand. While abroad, the woman had not used malaria chemoprophylaxis. On July 5 she complained of dizzy spells and by July 10 appeared febrile and intermittently delirious. Because of her religious beliefs, she had not sought medical attention.

(Reported by Calvin Bandt, M.D., Hennepin County Medical Examiner's Office, Minneapolis, Minnesota; Fred G. Gunlaugson, M.D., Director, Bureau of Disease Prevention and Control, Minneapolis City Health Department; and D.S. Fleming, M.D., Director, Division of Disease Prevention and Control, Minnesota State Health Department.)

Editorial Note:

The time between the onset of the woman's illness and her departure from Sierra Leone was 20 days. Since the usual incubation period for mosquito-transmitted falciparum malaria is 12 days, she almost certainly acquired her infection during her return journey, probably in southeast Asia.

CURRENT TRENDS MORBIDITY REPORTING

The "Manual of Procedures for National Morbidity Reporting and Surveillance of Communicable Diseases" has recently been revised and is available on request from:

> National Communicable Disease Center Atlanta, Georgia 30333

Attn: Acting Chief, Statistics Section Epidemiology Program

The manual describes procedures by which data are collected for the "Morbidity and Mortality Weekly Report" and the "Annual Supplement" to the MMWR, includes instructions for submitting surveillance forms on individual cases of diseases under national surveillance, and exhibits current surveillance forms used by various programs of the NCDC. THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 17.000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

DIRECTOR, NATIONAL COMMUNICABLE	DISEASE CENTER
	DAVID J. SENCER, M.D.
CHIEF, EPIDEMIOLOGY PROGRAM	A.D. LANGMUIR, M.D.
ACTING CHIEF, STATISTICS SECTION	IDA L. SHERMAN, M.S.
EDITOR	MICHAEL B. GREGG, M.D.

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 OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OFFICIALS AND WHICH ARE ORDEVING ADDITIONS SHOULD BE ADDRESSED TO: NATIONAL COMMUNICATIONS SHOULD BE

ED TO: NATIONAL COMMUNICABLE DISEASE CENTER ATLANTA, GEORGIA 30333 ATTN: THE EDITOR MORBIDITY AND MORTALITY WEEKLY REPORT

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 ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

