U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE ANTA, GRUBERGHEALTH SERVICE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

EPIDEMIOLOGIC NOTES AND REPORTS TRANSFUSION MALARIA - Seattle, Washington

On May 12, 1968, a 54-year-old white American woman entered a hospital in Seattle, Washington, for insertion of an aorto-iliac bypass graft. On May 13, the day of her operation, she received 7 units of whole blood. Her post-operative course was uncomplicated, and she was discharged on May 22. On May 26, she developed low abdominal pain, nausea, vomiting, and fever, and was rehospitalized with a temperature of 104°F. During the next 8 days, she experienced daily temperature spikes up to 105°F. On June 4, numerous trophozoites of Plasmodium falciparum were identified on a routine differential blood smear. The patient gave no history of malaria, travel in malarious areas, or usage of commonly shared syringes.

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On June 4, the patient received 1 gm of choloroquine phosphate orally, followed by 500 mg on each of the next 6 days. She became afebrile on June 7; blood smears taken at this time revealed only a few trophozoites of *P. falciparum*, and no trophozoites were detected on June 10. Between May 27 and June 14, her hematocrit decreased from (Continued on page 298)

TABLE 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

A Company of the Comp	32nd WEEK	ENDED	MEDIAN	CUMULATIVE, FIRST 32 WEEKS				
DISEASE	August 10, 1968	August 12, 1967	1963 - 1967	1968	1967	MEDIAN 1963 - 1967		
Aseptic meningitis	186	102	60	1,587	1,281	1,026		
Brucellosis	2	3	8	127	163	163		
Diphtheria	1	1	1	100	62	108		
Encephalitis, primary:			The Park I					
Arthropod-borne & unspecified	44	53	***	597	884			
Encephalitis, post-infectious	7	28		333	585			
Hepatitis, serum	93	42	} 587	2,584	1,299	24,826		
Hepatitis, serum Hepatitis, infectious	840	646	301	26,824	23,535	1 24,020		
Malaria	30	28	4	1,296	1,213	63		
Measles (rubeola)	202	222	921	19,038	56,848	237,409		
Meningococcal infections, total	29	16	25	1,870	1,571	1,832		
Civilian	27	15	* * *	1,695	1,462	***		
Military	2	1		175	109			
Mumps	714		THE RESERVE OF	121,949				
Poliomyelitis, total	1 -1 -	1	3	33	21	59		
Paralytic	1	1	3	33	18	53		
Rubella (German measles)	319	187		42,494	39,036			
Streptococcal sore throat & scarlet fever	4,499	4,710	4,190	283,590	305,796	275,262		
retanus	3	7	7	88	131	152		
Tularemia		7.	7	123	109	155		
Typhoid fever	10	9	10	196	244	244		
Typhus, tick-borne (Rky. Mt. spotted fever).	15	19	12	162	187	162		
Rabies in animals	64	74	69	2,262	2,814	2,814		

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

and the second s	Cum.	THYSPOTISMS I Design	Cum.
Anthrax: Botulism: Leptospirosis: Ga1, La,-1 Plague: Psittacosis: Calif1	4 21 1	Rabies in man: Rubella, Congenital Syndrome: Trichinosis: N.J2, R.I1, W.Va2. Typhus, murine: Tex4	4 48

TRANSFUSION MALARIA - (Continued from front page)

47 to 26 percent and her BUN increased from 9 to 45 mg percent. Both parameters subsequently returned to normal, and the patient was discharged from the hospital in early July.

The donors of the 7 units of blood were contacted, and only one had ever traveled in a malarious area. This man, a 22-year-old American Negro, had served in the U.S. Army in Vietnam from July 29, 1966, until March 31, 1967, when he returned to the United States. While in Vietnam he had taken a combination tablet containing 300 mg chloroquine base and 45 mg primaquine base once weekly in addition to 25 mg diamino-diphenylsulfone (DDS) daily. He continued his chloroquine-primaquine tablets for 6 weeks after returning to the United States. He denied a history of malaria or commonly shared syringes and had experienced no unexplained illnesses except for a 3-day febrile episode in late May 1967 which resolved spontaneously. On May 2, 1968, 13 months after returning from Vietnam, he donated the infected blood. Serum was obtained from this donor on June 14, 1968, and analyzed for the presence of antibodies to malaria by the indirect fluorescent antibody technique; serum dilution end points were 1:80 against P. falciparum, 1:40 against P. ovale, and 1:20 against both P. vivax and P. malariae. These values are consistent with a recent P. falciparum infection. Also

on June 14, this donor's hemoglobin electrophoresis was normal, but the red cells were deficient in glucose-6-phosphate dehydrogenase. Blood smears obtained from the donor on July 2 were free of malaria parasites; he then underwent a 500 cc phlebotomy and further blood smears were obtained on the next day; again, no malaria parasites were detected.

(Reported by Donald R. Peterson, M.D., M.P.H., Epidemiologist, Seattle-King County Department of Public Health, Seattle, Washington.)

Editorial Comment

The persistence of asymptomatic P. falciparum infection in the responsible donor for a minimum of 13 months suggests that he had acquired significant immunity to his infection. However, since the patient had never traveled in malarious areas prior to his arrival in Vietnam and since he had no history of clinical malaria attacks, the acquisition of such immunity is difficult to explain. It is conceivable that despite the schizonticidal effects of his suppressive therapy, the strain of P. falciparum which caused his infection was able to persist in his peripheral blood at densities sufficient to stimulate immunity but insufficient to cause symptoms.

SUBHUMAN PRIMATE-ASSOCIATED HEPATITIS - New Jersey

Between April 1 and June 1, 1968, five animal handlers, who cared for approximately 50 subhuman primates caged as pets in an area of a private home in Toms River, . New Jersey, developed hepatitis. The onsets of illness were April 1, 3, 5, May 29, and June 1. All patients were males from 17 to 33 years of age, and all experiencednausea, upper abdominal discomfort, vomiting, fever, and jaundice. Bilirubin determinations ranged from 3.2 to 8.2 mg percent and SGOT's from 51 to 590. Three patients were hospitalized; there were no deaths. None of the patients gave a history of contact with a jaundiced person or ingestion of raw shellfish during the 2 months prior to their illness, and all denied transfusions of blood and the self administration of parenteral drugs during the 6 months prior to onset of illness.

The three animal handlers who had onsets of illness during the first week in April had begun work at the home from 2 to 6 months before becoming ill, and they left their employment 1 to 3 days after their illness began. The other two animal handlers each began work 1 month prior to developing hepatitis. One of these, however, worked only 4 days, May 1-4; he developed hepatitis on June 1. Neither of these two men had been employed during the onsets of illness of the first three cases.

The five patients had been responsible for cleaning the cages of the primates and feeding the animals. Their duties required them to come into close physical contact with the animals, and all five had been either bitten or scratched on the hands or forearms by the primates. Although seven other persons also had close contact with the animals, they reported no illness. Transaminase determinations performed on June 13 on these seven persons were normal.

Between April and June 1, 1968, the collection of primates in the home included six woolly monkeys, five spider monkeys, 19 capuchins, 17 ringtail monkeys, two Celebes apes, and two black siamangs. There have never been any chimpanzees on the premises. Of the animals in the home, 23 were acquired after January 1, 1968, and 19 of these were under 1 year of age. No cases of jaundice had occurred in the animals or in the employees of the two animal firms which supplied the primates acquired since January.

(Reported by Ronald Altman, M.D., Acting Director, Division of Preventable Diseases, and Paul Marzinsky, Senior Field Representative, New Jersey State Department of Health; and two EIS Officers.)

TUBERCULOSIS - Greene County, Alabama

In December 1967, a 51-year-old fifth grade teacher in Greene County, Alabama, developed fever, night sweats, weakness, anorexia, weight loss (11 lbs in 1 month), and

a productive cough. On January 27, 1968, she was hospitalized with hemoptysis. A tuberculin test at that time was negative; however, a chest X-ray was suggestive of tuberculosis and a direct sputum smear was positive for acid fast bacilli. She was transferred to the district tuberculosis hospital where cultures were positive for *Mycobacterium tuberculosis* and radiologic studies demonstrated far advanced pulmonary tuberculosis.

Since the woman had had a negative X-ray on July 20, 1966, in Dallas, Texas, another X-ray was not required when she was employed by the Greene County school system in September 1966. She had been well until October 1966 when following the death of her mother, she had a "nervous breakdown" and temporarily stopped teaching. In October 1967, she noted the onset of cough with a "rattling" in the left anterior chest and consulted a physician. A tuberculin test was negative, and a chest X-ray was not taken. She was treated for her symptoms and improved. In November 1967, during routine school tuberculin testing, the woman had a test reaction of 5 mm induration. This test was considered of doubtful significance and there was no follow-up. Upon review in January 1968, the X-ray taken in July 1966 was still considered negative.

The patient lived alone and gave no history of contact with a known or suspected tuberculosis case. Following the diagnosis of her case, 15 friends and relatives were tuberculin tested; six had positive reactions, and all six had negative chest X-rays. In the school where the woman taught, all available students and adults who had not had a previous positive tuberculin test were tested and 34 had positive reactions (Table 1). All 41 students in the patient's fifth grade class were tested and 20 (48.8 percent) were positive; four of these 20 positives had been previously tested in November 1967 and had negative reactions. Of the 40 students in the other fifth grade in the school, 28 were tested and only one was positive. Of the 34 persons with positive reactions, two were hospitalized with

active primary tuberculosis — one was a student in the patient's room and the other was a third grade student in a room across the hall. Three others were considered inactive primaries and two had chest X-rays suggestive of tuberculosis. These five as well as the other 27 persons

Table 1
Results of Tuberculin Testing in the Patient's School
Greene County, Alabama — February 1968

Grade	Number Positive	Number Negative	Total	Percent Positive
1	0	85	85	0
2	0	84	84	0
3	1	89	90	1.1
4	5	60	65	7.7
5	21	48	69	30.4
6	0	82	82	0
7	1.	54	55	1.8
8	0	44	44	0
9	0	47	47	0
10	1	75	76	1.3
11	3	65	68	4.4
12	2	53	55	3.6
Total	34	786	820	4.1

with positive tuberculin tests and negative X-rays were treated with isoniazid.

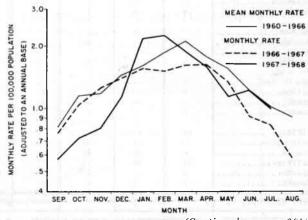
(Reported by Frederick S. Wolfe, M.D., Director, Division of Tuberculosis Control, Bureau of Preventable Diseases, Alabama Department of Public Health; Sidney J. Williams, M.D., Health Officer, Greene County; Tuberculosis Program, NCDC; and an EIS Officer.)

CURRENT TRENDS MENINGOCOCCAL INFECTIONS — United States

The monthly incidence of meningococcal infections in the United States for May, June, and July 1968 remained below the mean monthly rate for the period 1960-1966 (Figure 1). For the first 6 months of 1968 a total of 1,661 meningococcal infections were reported in the United States compared with 1,405 reported for the first 6 months of 1967. The Middle Atlantic, South Atlantic, and West South Central divisions reported the largest increases in reported infections compared with the previous year (Table 2). Military cases accounted for 9.8 percent of the 6-month total (163 of 1,661) in 1968 compared with 7.4 percent of the total (104 of 1,405) for the similar period in 1967.

Of 355 meningococcal isolates received by NCDC between January 1 and June 30, 1968, for serogrouping and sulfadiazine sensitivity testing, 157 or 44.2 percent were identified as Serogroup B, 143 or 40.3 percent as Serogroup C, 20 or 5.6 percent as either Serogroup X, Y, or Z, and the remainder were not typed.

Figure 1
MONTHLY INCIDENCE OF MENINGOCOCCAL
INFECTION - UNITED STATES, 1960-1968



(Continued on page 304)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

__ AUGUST 10, 1968 AND AUGUST 12, 1967 (32nd WEEK)_____

AND REAL PROPERTY.	ASEPTIC MENINGITIS				ENCEPHALITIS Primary			HEPATITIS			100 500
AREA			BRUCELLOSIS	RUCELLOSIS DIPHTHERIA		including Post- unsp. cases			Infectious		MALARIA
	1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
UNITED STATES	186	102	2	1	44	53	7	93	840	646	30
NEW ENGLAND	6	1						,	26		
Maine.*	-	1						4	36	28	
New Hampshire				10 201		Links I			1 -	1	
Vermont		to the same	mark and a					-	4	1	
Massachusetts	3						1 1 1 1 1 1	-	16	16	
Rhode Island	3					a t tol			4	16	ALLATE .
Connecticut	-	-				Euro- off		4	11	6	11111
MIDDLE ATLANTIC	23	6	1000	200		5					
New York City	8	1			6	_	-	34	148	73	1
New York, up-State.	3	î			1	2		18	48	5	-
New Jersey	9	3		100 100	2	1	- 1,55 lo-5	4	39	19	100
Pennsylvania.*	3	1	- 75		3	_		12	38	28	-
Tennisy I vania	,	1				2		-	23	21	1
EAST NORTH CENTRAL	37	9	-	- 1	13	22	2	4	129	74	1
Ohio	30	1	100		10	19	304	2	46	14	
Indiana	1	-			-	2	1	_	13	5	
Illinois	1	3	7	- 1	3	1	Harrie Harri	1	26	17	-
Michigan	5	5	- H A	-		14.71.77	1	1	39	34	1
Wisconsin	-						-	-	5	4	
VEST NORTH CENTRAL	4					10.44	1 , 1				
Minnesota	2	-					1	1	50	33	5
Iowa	1			777	-		1	1	20	2	-
Missouri	1			1000	-	_		-	4	3	-
North Dakota			-		- 110	191-191		-	9	22	
South Dakota	_	-	-	-	-	-	the state of the state of	TT V	2		-
					-	-	-		4	-	-
Nebraska	- 1- 11			100	1 -	1112-11	1000-000-0	3001-1	4	1	-
Kansas	-		State of the	(CM)	- 1		11 Aug 1	100	7	5	5
OUTH ATLANTIC	33	22	10000	1	5	10	2000	5	46	92	7
Delaware	1						100		4	1	-
Maryland		19			-	1		4	1	16	1
Dist. of Columbia	- 111	30	100000000000000000000000000000000000000		- 1	30 Hz 10	DESCRIPTION OF THE PARTY OF THE			2	10.00
Virginia	29	1	200.000	46 9.39	3	1		-	6	13	1
West Virginia	1	-			1	3			1	6	
North Carolina	-	2	1	77.	-	1	2		14	8	5
South Carolina		-	-	1	_				1	2	-
Georgia *		- 12	-	-	-	_	2		9	19	-
Florida	2	-	-	-	1	4		1	10	25	
AST SOUTH CENTRAL	2	11	_	4000	1	4		1	42	32	
Kentucky.	1	2	-	-	_		and the state of	-	15	9	
Tennessee	1	1	SHIP DRI		1	4	CHIMIE		17	18	
Alabama					-		-	1	3	5	
Mississippi	3.00	8	-	-				-	7		-
EST SOUTH CENTRAL	23	11	2		5	- 3				4	
Arkansas	-	1	2		,			1	84	81	-
Louisiana	7	2	1		5	1	The Deliver	-	6	4	
Oklahoma		2	1	_			ALCOHOLD T	1	12	15	
Texas	16	6	1	. 194		1		A. 1123-61	8 58	58	
OUNTE TO	-										
OUNTAIN		-	-	-	3	1		1	34	28	8
MontanaIdaho	TIO SE	Section 1	UT RESOLUTION	AV MATERIAL			THE A STREET	W 700	7	1	in the
DOLLAR CO. CO.	975							-	1	7	-
Wyoming.		3.3	-		-				1	1	
Colorado		70		6 0 0	3	1 L	THE PERSON NAMED IN	1	13	12	8
New Mexico	- Jan	- 20	Sec		10 To 10	April No.	La les esta	dil Tolu	4	3	She Jo
Arizona						-		Dett.	4	14	
Nevada			A STATE OF	1000	1	777	The state of	5347 40	4	2	1186
	75		1000			A WAS A			11/2/2017	and the same	111111
ACIFIC	58	42	1111	16 3/1	?1	8	4	42	271	205	8
Washington	1	1	- 5	-	704	100	the state of the	man is	29	15	-
Oregon.		4			- 90	1	3.0	2	10	14	-
California	55	28		ا منطلقا	10	7	4	40	229	175	5
Alaska	1	-		-	1	10071	1 2 2		1	ALC: 10	
Hawaii	1	9		775		-		Grant F	2	1	3

* Delayed reports: Encephalitis, primary: Me. 1
Encephalitis, post-infectious: Pa. delete 1
Hepatitis, infectious: Me. 2, Ga. 31

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

AUGUST 10, 1968 AND AUGUST 12, 1967 (32nd WEEK) - CONTINUED

	MEA	SLES (Rube	ola)	MENINGO	COCCAL INF TOTAL	ECTIONS,	MUMPS	POLIOMYELITIS			RUBELLA
AREA		Cumu1	ative		Cumulative			Total	Para	lytic Cum.	445
	1968	1968	1967	1968	1968	1967	1968	1968	1968	1968	1968
UNITED STATES	202	19,038	56,848	29	1,870	1,571	714	1	ī	33	319
ATTEN TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE TO										,	
NEW ENGLAND	7	1,141	822 234	2	94	65 3	82 1		1 -	1	48 3
Maine.*		35 141	74	1]	6 7	2	2		_		_
New Hampshire		2	34		1 1	1	6			1 1	2
Vermont Massachusetts	4	364	330	1	42	32	48			1	32
Rhode Island		5	62	1	7 7	4	8		-	1	7
Connecticut	3	594	88	1	31	23	17			-	4
- meeticut	_	371		1							
AIDDLE ATLANTIC	82	3,855	2,204	9	338	256	69		- 0	-	43
New York City	50	1,900	436	-	68	46	67	-	-	- 0	22
New York, Up-State.	22	1,206	557	3	58	61	NN	-	-	- 1	21
New Jersey	7	608	480	4	122	91	2	-	-	-	-
Pennsylvania *	3	141	731	2	90	58	NN		-		7. July 200
EAST NORTH CENTRAL	28	3,676	5,237	6	227	210	148	-	-	1	49
Ohio	1	288	1,130	2	62	71	12	-		-	10
Indiana	-	643	587	1	29	22	16	1 -	-		4
Illinois	5	1,347	927	-	51	52	9	-	-	1	3
Michigan	2	256	902	3	65	50	20 91				17 15
Wisconsin	20	1,142	1,691		20	15	91	-	-	-	13
WEST MODELL CENTERS	5	377	2,820	3	100	67	10	H		1	12
WEST NORTH CENTRAL	-	15	131	1	23	16	2			1	1
Iowa		96	744	_	6	13	8	_			6
Missouri		81	332	1	32	13	-	-	_	1	3
North Dakota	3	131	845		3	1		- 10	10 - 30		2
South Dakota	_	4	52	-	5	6	NN	-	_ 100	100	-
Nebraska	2	40	623	-	6	12	-	- 5	-		and the same
Kansas	-	10	93	1	25	6	-				-
								-			
SOUTH ATLANTIC	20	1,471	6,790	3	380	303	60	-	-	1	40
Delaware	-	15	43	1	8	6	9	-	- 1	7 04	2
Maryland	-	94	149	-	28	37	6			-	1
Dist. of Columbia	-	6	22	-	14	10	-	-		Joseph	v
Virginia	3	296	2,167	-	30	37	2	-	-		3
West Virginia	8	279	1,362	-	9	21	24	-	-	100	24
North Carolina	-	282	842	1	75	66	NN	-	-	1	
South Carolina. *	-	12	507	-	56	29	-	-	-	197	-
Georgia	-	4	32	1 1	73	44		-	-	- 1	-
Florida	9	483	1,666	1	87	53	19		-	1 5 -	10
C.1.C.		101	5 104		160	100	20			1	18
EAST SOUTH CENTRAL	3	486	5,104	1	160	123	38 8	1 :	1 2 7	1	3
Kentucky*		103	1,316	-	64 51	34 51	24				14
Tennessee	1	58 93	1,813	1	24	25	5			4 100	1
Alabama	1	232	1,316 659	1	21	13	1				-
Mississippi	1	232	039	1	21	13		4.			
WEST SOUTH CENTRAL	28	4,634	17,102	_	297	212	103	1	1	18	23
Arkansas	-	3	1,404		20	28	1	- 3	- 1	-	-
Louisiana	_	2	151		84	83	-		- 1		40 11-0
Oklahoma.		111	3,325	-	49	16	2	- 1	-	1	-
Texas	28	4,518	12,222		144	85	100	1	1	17	23
			11 11			1 10 7					
MOUNTAIN	8	971	4,578	T - >	29	27	40	- 7	- 1	300	37
Montana	-	67	277		3		. to -1 '	- 1			T
Idaho	-	20	375		11	1	3	- 3	- 5	dia • 21	Letter.
Wyoming	-	51	180	- 1	11 - 3	1	-	- 11	1 TM		F13451
Colorado	2	494	1,539	-	10	12	10		192	4 7 7	17
New Mexico	4	92	576	-		3	8	-	-	E = 34	6
Arizona	2	221	1,005	-	1	4	19	-	-	-	14
Utah	- 1	21	357	1	1	4		-	- 1	-	-
Nevada	-	5	269	T - 1	3	2	-	1	- 1	-	1 - 1
PACITAG			16			202	101			10	10
PACIFIC	21	2,427	12,191	5	245	308	164			10 1	49
Washington	-	515	5,414	1	37	27	18	-		1 -	7
Oregon	5	488	1,563	1	19	25	23		1 5	9	28
California	16	1,387	4,919	4	176	243 9	101			-	11
Alaska	2000	2 25	133	1.5	2 11	4	12	4-1			3
Hawaii		35	162	_	11	4	12				,
uerto Rico	9	383	2,087	4.16	19	12	16		- 160		2

^{*} Delayed reports: Measles: Pa. delete 2, S. C. delete 1, Ky. delete 76 Rubella: Me. 2, S. C. 1

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

AUGUST 10, 1968 AND AUGUST 12, 1967 (32nd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TUL	REMIA	ТҮРНОІО		TICH	JS FEVER (-BORNE . Spotted)		RABIES IN ANIMALS	
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	
UNITED STATES	4,499	3	88	-	123	10	196	15	162	64	2,262	
NEW ENGLAND	585	4	2	_	46	2	7			2	68	
Maine.*	11	_			40	_			1 2 2 1	2	53	
New Hampshire	12	_		-	1 4		1		_	-	2	
Vermont	66		-	-	46	1	1 1	_		_	10	
Massachusetts	99		1	_	- 1	1	3	_			2	
Rhode Island	30			-		-	-	-		-		
Connecticut	367	L - M	1		-	1	3	-		-	1	
MIDDLE ATLANTIC	150	J 2 48	12		7	1	20	1	14	5	31	
New York City	1		6	_	<u> </u>	1	9	_	14	-	3,	
New York, Up-State.	148		4		7		3	1	2	5	24	
New Jersey	NN						5	_	6			
Pennsylvania	1		2		-	-	3	-	6		7	
EAST NORTH CENTRAL	251		8		0		26	4		10	210	
Ohio	45		° -		8		26 12	1,52	6	10 7	210 84	
Indiana	43	1 2	1		1		3		4	2	70	
Illinois.	46		5		5		10		2	1	25	
Michigan	74	- 0	2		1		-		_	_	10	
Wisconsin	43	= 1X	- 11		-	-	1				21	
WEST NORTH CENTRAL	220		4		0					0	550	
Minnesota	220		1		9	1	8	-	4	9	559	
Iowa	43	1 2	1				1	1 1	1	5	164	
Missouri	17		2		7	12.1	3	1 1	1	1	81	
North Dakota.*	76	-	7-	-	_		_	-		_	88	
Sourh Dakota	4	-	_	_	1	_	1	-	1	-	79	
Nebraska	58		- 21) - T	-	-	3		1	1	25	
Kansas				-	1	- 1	-		- 1	2	31	
SOUTH ATLANTIC	389	2	19		8			10	0.7		2/2	
Delaware	2	-	-		0	1	43	10	87	8	243	
Maryland	59	1	2				9	3	10		5	
Dist. of Columbia.		-	2	_	_	<u> </u>	2	_	10		1	
Virginia	117	1	4		1		8	3	31	1	92	
West Virginia	72	-	1	-	_		-	14-			31	
North Carolina	2	- 20	2	- 1	2	-	2	2	27	-1	9	
South Carolina	2	1	2		-		-	2	6	A-100		
Georgia Florida	3		-	120	3	1 1	11		11	2	38	
1101104	132		6		2	1 1	11		2	5	67	
EAST SOUTH CENTRAL	834	_000	10	- 50	6	1	24	2	29	14	506	
Kentucky	18	-	1	-	1	-	5		6	5	248	
Tennessee	640	-	3	-	4	- 4	13	2	19	9	236	
Alabama	106		3	-		1	-	-	3		21	
Mississippi	70	-	3		1	1	6	-	1		1	
WEST SOUTH CENTRAL	490	1	18		32	5	26	2	16	6	388	
Arkansas	6	_	4		6	1	4	-	1	1	45	
Louisiana	16	1	7	1 - 1 - 0	6	-	3		-1	ī	35	
Oklahoma	3	-	11 -00		8	3	9	1	8	1	114	
Texas	465	- 85	7		12	2	10	1	7	3	194	
MOUNTAIN	993	- 00	- m		6	- 1	12		5	1	59	
Montana	12		-	-	-	1- 1	-			_	-	
Idaho	123		- 1	1)-11					1		-	
Wyoming	14	- 15	- 1	-	1	1- 0	1	-	1 -	-	3	
Colorado	676		11-111	-	3	1- 4	2		4		3	
New Mexico	111		-	- H -	-		6	- 1			23	
Arizona*	25			-	-	1	3	-		1	30	
Nevada	32			1 .	2	1 1	_					
					1 1 1 1 1	141 1						
PACIFIC	587	-	15	- 54	1	1	30		1	9	198	
Washington	41		1	-11		1 1	2	- 1	1.43	1	1	
Oregon	59		1	11-01	1	7.7	4		Se	1	5	
Alaska	378	1537	13	1 -45-	-	1	24		1	7	192	
Hawaii	20 89					11 3					algoretti.	
	- 7						_			-		

* Delayed reports: SST: Me. 5

Typhoid: Ariz. 1

Rabies in animals: N.D. 6, D.C. 1

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED AUGUST 10, 1968

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

	A11 C	auses	Pneumonia	Under		All Ca	uses	Pneumonia	Under
Area	All Ages	65 years and over	and Influenza All Ages	l year All Causes	Area	All Ages	65 years and over	and Influenza All Ages	l year All Causes
EW ENGLAND:	672	4.16	21	20	COUTH ATLANTIC.	1 167	501	/ 2	7/
Boston, Mass	672 210	416 129	31 15	29 10	SOUTH ATLANTIC: Atlanta, Ga	1,167 148	581	42	74
Bridgeport, Conn	30	16	- 13	3	Baltimore, Md	229	66 120	3 2	13
Cambridge, Mass	22		1200		Charlotte, N. C				
	25	15	2	1	Jacksonville, Fla	50	21	2	3
Fall River, Mass	51	13 32	2	3 3	Miami, Fla	67	34	2 9	3
Hartford, Conn Lowell, Mass	39	23	_	1	Norfolk, Va	81 69	41		
Lynn, Mass	25	16	1	1	Richmond, Va		25	2	2
New Bedford, Mass		22	1	1	Savannah, Ga	79	37	1	10
	33					35	21	4	4
New Haven, Conn	53	38	-	2	St. Petersburg, Fla	74	56	5	3
Providence, R. I Somerville, Mass	54 17	34	5	2	Tampa, Fla	79	50	6	4
_ 1		9	3	1		224	92	4	16
Springfield, Mass	49	30	1		Wilmington, Del	32	18	2	5
Waterbury, Conn	21	13	-	1	EAST SOUTH CENTRAL:	501	206	0.1	
Worcester, Mass	43	26	1		Birmingham, Ala	591	296	21	46
IDDIE ATIANTIC.	2 072	1 705	122	107		78	37	-	3
IDDLE ATLANTIC:	3,073	1,785	122	127	Chattanooga, Tenn	56	29	3	5
Allenterm Pa	54	31	7	5	Knoxville, Tenn	41	27	2	1
Allentown, Pa	27	16	4	1	Louisville, Ky Memphis, Tenn	107	62	8	16
Buffalo, N. Y	136	72	2	10		138	63	*1	8
Camden, N. J	·35	26	1	-	Mobile, Ala	45	20		3
Elizabeth, N. J	40	21	7000	1	Montgomery, Ala	40	16	2	5
Erie, Pa	52	30	4	3	Nashville, Tenn	86	42	6	5
Jersey City, N. J	48	36	6	3	WEST COUTH CENTRAL.	1 007	570	10	1
Newark, N. J	62	27	2	2	WEST SOUTH CENTRAL: Austin, Tex	1,087	573 13	40	66
New York City, N. Y	1,506	870	65	52		29		90,100	3
Paterson, N. J	32	21	1	-	Baton Rouge, La	47	28 15	11 15 151	1
Philadelphia, Pa	503	288	9	22	Corpus Christi, Tex	25		3	6
Pittsburgh, Pa	160	86	5	8	Dallas, Tex	141	72	1	7
Reading, Pa	66	45	3	1	El Paso, Tex	50	22		3
Rochester, N. Y	122	74	8	8	Fort Worth, Tex	72	39	1	11
Schenectady, N. Y	26	18	1		Houston, Tex	178	79	5	4
Scranton, Pa	31	21	4	1	Little Rock, Ark	66	40		
Syracuse, N. Y	75	48	1	4	New Orleans, La	180	88	11	13
Trenton, N. J	38	18		2	Oklahoma City, Okla	76	46	5 4	5
Utica, N. Y	28	17	- 5	1	San Antonio, Tex	107	68		5
Yonkers, N. Y	32	20	1	3	Shreveport, La	61	33	3	2
					Tulsa, Okla	55	30	4	-
AST NORTH CENTRAL:	2,527	1,370	67	131	MOUNTA TN.	1.65	247	19	26
Akron, Ohio	59	34	-	4	MOUNTAIN:	445	20	3	4
Canton, Ohio	28	15	-	1	Albuquerque, N. Mex	50		3	1
Chicago, Ill	741	366	23	50	Colorado Springs, Colo.	24	17	3	9
Cincinnati, Ohio	158	95	5	7	Denver, Colo	119	65	2	2
Cleveland, Ohio	196	86	1 :	10	Ogden, Utah	10	49		2
Columbus, Ohio	123	68	2	5	Phoenix, Ariz	90		3 3	
Dayten, Ohio	97	55	2	4	Pueblo, Colo	30	22	3	3.5
Detroit, Mich	329	183	4	9	Salt Lake City, Utah	62	38		5
Evansville, Ind	42	28	3	2	Tucson, Ariz	60	29	5	5
Flint, Mich	48	25	1 -	5	I PAGENTO.	1	611	20	
Fort Wayne, Ind	49	26	5	2	PACIFIC:	1,551	914	20	59
Gary, Ind	23	11	2	1	Berkeley, Calif	20	16	2	3
Grand Rapids, Mich	59	38	7	4	Fresno, Calif	48	23		1007
Indianapolis, Ind	154	77	3	8	Glendale, Calif	31	22	-	3
Madison, Wis	56	27	7	3	Honolulu, Hawaii	44	23	2	3
Milwaukee, Wis	131	78	1	1	Long Beach, Calif	88	58		2
Peoria, Ill	38	17	-	5	Los Angeles, Calif	475	273	4	16
Rockford, Ill	24	19	-	1	Oakland, Calif	75	46	2	6
South Bend, Ind	27	19	1	2	Pasadena, Calif	30	19		-
Toledo, Ohio	104	76	2	4	Portland, Oreg	121	76	1	5
Youngstown, Ohio	41	27	- 30	3	Sacramento, Calif	59	36		
The state of the s					San Diego, Calif	90	49	2	5
EST NORTH CENTRAL:	745	460	22	24	San Francisco, Calif	200	107	2	8
Des Moines, Iowa	56	33	1	2	San Jose, Calif	33	19	1 1 1	1
Duluth, Minn	32	20	2	1	Seattle, Wash	152	92	5	6
Kansas City, Kans	29	12	3	1	Spokane, Wash	47	30		1
Kansas City, Mo	125	76	4	3	Tacoma, Wash	38	25	-	3
Lincoln, Nebr	23	19	-	-					
Minneapolis, Minn	104	69	2	4	Total	11,858	6,642	384	582
Omaha, Nebr	78	47	1	4				•	
St. Louis, Mo	199	123	3	5		mulative '			
St. Paul, Minn.	56	35	1	1	including report	ed correc	tions for	previous w	eeks
Wichita, Kans	43	26	5	3	All Causes, All Ages All Causes, Age 65 and Pneumonia and Influenza	over		239,02	0

MENINGOCOCCAL - (Continued from page 299)

Table 2
Reported Meningococcal Infections
United States
January through June 1968 and 1967

Division	Jan June 1968 Total	Jan June 1967 Total
New England	87	57
Middle Atlantic	286	219
East North Central	198	179
West North Central	86	63
South Atlantic	344	270
East South Central	144	117
West South Central	274	199
Mountain	25	25
Pacific	217	276
Total United States	1,661	1,405

(Reported by the Bacterial Diseases Section and Statistics Section, Epidemiology Program, and the Bacterial Serology Unit and Bacterial Reference Unit, Bacteriology Section, Laboratory Program, NCDC.)

EPIDEMIOLOGIC NOTES AND REPORTS FOLLOW-UP SUSPECT WOUND BOTULISM — California

The 44-year-old farm laborer who developed a clinical syndrome suggestive of botulism following a compound fracture (MMWR, Vol. 17, No. 22) has gradually improved. He is fully ambulatory with residual mild muscle weakness. Attempts to isolate *Clostridium botulinum* from the wound were unsuccessful, and toxin could not be demonstrated in this patient's serum. The case has been reported as wound botulism.

(Reported by Philip K. Condit, M.D., M.P.H., Chief, Bureau of Communicable Diseases, California State Department of Public Health; William Defries, M.D., Health Officer, Fresno County Health Department; Fresno General Hospital; and an EIS Officer.)

INTERNATIONAL NOTES QUARANTINE MEASURES

Additional Immunization Information for International Travel, 1967-68 edition, Public Health Service Publication No. 384

The following information change should be made in Section 6.

Page 85

Under District of Columbia: Washington, USPHS Out-Patient Clinic, Clinic Hours,

Delete: Tuesday, Thursday, and Friday 3:00 p.m., Registration, 2:45 p.m.

Insert: Monday, Tuesday, Thursday, and Friday 2:00 p.m., Registration, 1:45 p.m. THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION 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
DIA 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 OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

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.

16 COMMUNICABLE DISEASE CENTE

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