Morbidity was and Mortality

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EPIDEMIOLOGIC NOTES AND REPORTS PRIMARY AMEBIC MENINGOENCEPHALITIS - Virginia

Three cases of primary amebic meningoencephalitis associated with swimming have occurred in Richmond, Virginia, this year. In early May, a 17-year-old boy was admitted to a Richmond area hospital with a diagnosis of purulent meningitis. No organism was cultured and he died within 72 hours after admission in spite of antibiotic therapy. Histologic examination of the brain found amebae covering the cerebellum. Preliminary information revealed that the youth had swum in the James River 4 days prior to the onset of symptoms. Epidemiologic investigation is continuing.

The second case, a 14-year-old boy, was admitted to the Medical College of Virginia hospital on July 11. He frequently swam at inland lakes near Richmond, and on July 2 he went to Lake Chester for the first time where he

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did a considerable amount of diving and underwater swimming. On July 9 he had the onset of headache and fever and sought medical attention on July 10 because his symptoms increased in severity. Primary amebic meningoencephalitis was diagnosed on admission after motile amebae were detected on microscopic examination of a fresh, unstained specimen of spinal fluid. The patient was treated with intraventricular and intravenous amphotericin B, metronidazole, and chloroquine, but expired (Continued on page 242)

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

	28th WEEF	K ENDED	MEDIAN	CUMULATIVE, FIRST 28 WEEKS				
DISEASE	July 12, 1969	July 13, 1968	1964 - 1968	1969	1968	MEDIAN 1964 - 1968		
Aseptic meningitis	119	77	57	944	1,020	862		
Brucellosis	4	9	9	89	107	127		
DiphtheriaEncephalitis, primary:	4	5	3	80	93	87		
Arthropod-borne & unspecified	31	24	25	531	481	722		
Encephalitis, post-infectious	12	8	14	180	298	487		
Hepatitis, serum	84 730	67 828	} 566	2,768 25,016	2,208 23,389	22,103		
Malaria	40	54	7	1,410	1,161	165		
Measles (rubeola)	318	320	1,871	18,721	18,037	182,610		
Meningococcal infections, total	46	36	38	2,102	1,727	1,727		
Civilian	44	36		1,907	1,561			
Military	2	_		195	166			
Mumps	930	1,271		62,891	118,376			
Poliomyelitis, total	1	3	2	4	33	31		
Paralytic	1	3	2	4	33	29		
Rubella (German measles)	708	431		45,981	41,009			
Streptococcal sore throat & scarlet fever		4,916	4,515	268,457	265,764	265,764		
Tetanus	3	2	6	68	75	102		
Tularemia	1	11	10	79	113	113		
Typhoid fever	3	9	8	146	155	197		
Typhus, tick-borne (Rky. Mt. spotted fever).	22	9	14	200	102	102		
Rabies in animals	57	85	85	1.998	2.046	2.449		

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

AND THE RESERVE AND ADDRESS OF THE PARTY OF	Cum.		Cum.
Anthrax: Botulism: Leptospirosis: Calif2, Ohio-1 Plague: N. Mex2 Psittacosis: Tenn1	10 34	Rabies in man: Rubella congenital syndrome: Trichinosis: Ky1, N.Y.C1	5 148

AMEBIC MENINGOENCEPHALITIS - (Continued from front page)

after 72 hours without any response to treatment. Motile amebae were found in postmortem cisternal and ventricular fluid.

On July 12, a 24-year-old man was admitted to Richmond Memorial Hospital where following a spinal tap, primary amebic meningoencephalitis was diagnosed. He was then transferred to the medical College of virginia. The patient had had the onset of headache, nausea, and vomiting on July 10 which increased in severity through July 12. Following the diagnosis, the patient was immediately begun on intracisternal and intravenous amphotericin B, metronidazole, and chloroquine. Subsequent cisternal taps revealed nonmotile ameba which remained viable on culture. His condition gradually deteriorated over the next 2 days, he developed decerebrate posturing and required artificial ventilation, and he expired on the evening of July 15. On July 4 he had gone to Lake Chester where he too had done a considerable amount of underwater swimming and diving.

A sister of the second case who had also swum in Lake Chester on July 3 was examined and her spinal fluid was cultured after she developed a headache and fever, but no evidence of amebic meningoencephalitis was found. Companions of the second case were also examined, but no evidence of disease was noted.

Family members of the third case who had accompanied him to Lake Chester but had not done underwater swimming or diving were examined, and nasal cultures for free-living ameba were obtained. No evidence of disease was noted; however, results of the cultures are pending. Because of the association of swimming in Lake Chester with previous and the present fatal cases of amebic meningoencephalitis, county officials closed the lake for swimming on July 13.

(Reported by William P. Wagner, M.D., Director, Chesterfield County Health Department, Chesterfield, Virginia; and Richard J. Duma, M.D., and Read F. McGehee, M.D., Infectious Disease Division, and Cary G. Suter, M.D., Chief, Neurology Division, Department of Medicine, Medical College of Virginia, Richmond.)

Editorial Comment:

Since 1951-1952, a total of 13 cases of primary amebic meningoencephalitis have been diagnosed in the Richmond, Virginia, area. This is a uniformly fatal disease due to a free-living ameba recently identified as Naegleria gruberi. A prior history of swimming or other aquatic activity is common to almost all cases of this disease. Epidemiologic investigations are currently in progress to define the role of swimming in the transmission of this disease. Antibiotics, antiparasitic agents, and antimetabolites have all been tried unsuccessfully in the chemotherapy of this disease.

FOLLOW-UP PLAGUE - New Mexico

The 3-year-old boy in Jemez Springs, New Mexico, with confirmed plague (MMWR, Vol. 18, No. 27) has shown marked improvement following treatment. No other cases have been reported.

Moderate populations of chipmunks, pack rats, mice (Genus Peromyscus), and a few rock squirrels were noted in the area. No dead animals were found. There have been no indications of plague in any of the animals processed to date. Flea control measures with bait boxes placed on the ground were initiated on July 14, 1969.

(Reported by Bruce Storrs, M.D., Director, and T. H. Tomlinson, Jr., M.D., Division of Medical Services, Neil Weber, Mammalogist, and Daniel Johnson, Ph.D., the Public Health Laboratory, New Mexico Department of Health; and the Ecological Investigations Program, NCDC, Kansas City, Kansas, and Fort Collins, Colorado.)

INTERNATIONAL NOTES DENGUE - Puerto Rico

The outbreak of dengue in Puerto Rico is continuing. During the week ending July 12, a total of 1,275 cases were reported, bringing the total to date to over 6,000 cases. Few cases have been reported from the southern part of the island where previous Aedes aegypti eradication efforts had been concentrated. Illnesses have been mild with many affected persons continuing to work, and there have been no cases reported with hemorrhagic manifestations. A control program of ground spraying is underway in areas reporting illness and additional measures were begun in areas with high incidence of disease.

Aerial spraying was started in Manati and surrounding areas on July 16, and is being considered for a heavily populated river valley in eastern Puerto Rico where many cases have occurred. A survey conducted between July 8 and 14 of 2,544 persons in these areas, found 21.2 percent reporting a dengue-like illness during the previous 4 weeks (Table 1). The aerial spraying is an attempt to reduce the total number of adult and infected mosquitoes and to interrupt the cycle of infection. Two cycles of spraying at 5-day intervals are being used. The interval is based on the anticipated duration of viremia in infected

Table 1 Cases of Dengue-like Illness During 4 Weeks Prior to July 8 in the 4-Area Survey

Age Group	Number Surveyed	Number Ill	Percent Ill
0-4	334	56	16.8
5-9	411	82	20.0
10-19	665	143	21.5
20-39	587	150	25.6
40+	547	109	19.9
Total	2,544	540	21.2

individuals and the time for development of newly hatched *Aedes aegypti* mosquitoes.

(Reported by Dr. Ernesto Colon-Yordan, Secretary of Health, Dr. Raphael Correa-Coronas, Auxiliary Secretary of Health for Preventive Medicine, Dr. Luis Mainardi, Chief, Communicable Diseases Control Program, and Dr. Angel Alberto Colon, Director, Institute of Laboratories of Health, Puerto Rico Department of Health; and a team from NCDC.)

CURRENT TRENDS ENCEPHALITIS - California

Record precipitation during the past winter in California particularly in some parts of the San Joaquin Valley has provided optimum conditions for an outbreak of arthropodborne encephalitis there this summer. Large areas of normally arid land will remain under water throughout the summer enhancing the production of the *Culex tarsalis* mosquito, the vector of Western equine (WE) and St. Louis (SLE) encephalitis, both of which are endemic in large areas of California.

To lessen the possibility of an epidemic of encephalitis, in addition to the usual annual measures of surveillance of water conditions and mosquito production and testing specimens from suspected cases for confirmation of viruses, special efforts are being made. Mosquito control efforts and surveillance of equine cases have been intensified, and a special surveillance program for human cases has been established. Under this surveillance program, by early July, over 50 hospitals in the 20 counties of the Sacramento and San Joaquin Valleys (Figure 1) began submitting daily reports of hospital admissions with certain central nervous system conditions to the health officials of their respective counties. The county officials send the reports weekly to the state health officials. This information directs epidemiologists to areas where cases are occurring. Also a more intensified effort is being made by state and federal vector control specialists and the School of Public Health, Berkeley, and the Division of Infectious and Tropical Diseases, UCLA, to test mosquitoes from various locations in the Central Valley and Imperial and Owens Valleys for arthropodborne viruses. Weekly encephalitis bulletins are issued to feed back promptly all the information collected.

As of July 12, no laboratory confirmed human cases have been detected, and no WE or SLE viruses have been isolated from the mosquito pools tested.

(Reported by Richard W. Emmons, M.D., and R. Marlor, M.D., Epidemiologists, Bureau of Communicable Disease Control, G. Humphrey, D.V.M., Chief, Veterinary Public

Figure 1
HOSPITALS IN SURVEILLANCE PROGRAM
FOR CASES OF ENCEPHALITIS IN HUMANS
CALIFORNIA — 1969



Health Section, E. H. Lennette, M.D., Chief, Viral and Rickettsial Disease Laboratory, and R. Peters, Chief, Bureau of Vector Control, California Department of Public Health.)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED JULY 12, 1969 AND JULY 13, 1968 (28th WEEK)

	ASEPTIC	BDUCE		ENCEPHALITIS				HEPATITIS		12.1	
AREA	MENIN- GITIS	BRUCEL- LOSIS	DIPHTHERIA	-	including cases	Post- Infectious	Serum	Infec	tious	MAL	ARIA
and the second of	1969	1969	1969	1969	1968	1969	1969	1969	1968	1969	Cum. 1969
UNITED STATES	119	4	4	31	24	12	84	730	828	40	1,410
NEW ENGLAND	15	espline)	4 (40)	3	_ =	1	2	35	34	2	46
Maine*		_				-		4	3	1	3
New Hampshire	_	_	_	-			_	2	_	_	2
Vermont	-	-	_	_	_	- 1	-	3	_	_	_
Massachusetts	1	1		= 1	1 -	1 1	-	12	14	_	33
Rhode Island Connecticut	14	=1_	<u> </u>	2	= =	- 1	1	6 8	10 7	1	3 5
MIDDLE ATLANTIC	13			5	1	3	29	124	150	2	154
New York City	6	_	_	2	l i	_]	16	12	53	_	13
New York, up-State.	-			_	_	l – i	3	28	25	2	25
New Jersey*	6	-		1.0	7 3 - 3 -		7	42	35	-	54
Pennsylvania	1	-	-	2	7TTus	3	3	42	37	-	62
EAST NORTH CENTRAL		1		6	7	-	8	80	156	5	138
Ohio	-	-	_	4	3	- 1	2	22	39		14
IndianaIllinois	n nicht	1 7 1	LATE TO		1 2	- 1	1	5	13 49	_	10
Michigan	1 1	DESCRIPTION OF	18 THE R		1	1-0-	5	16 32	49	5	78 35
Wisconsin.	1 T - 3		-			= [10	5	11	_	1
WEST NORTH CENTRAL	3			3	3		1	61	47	2	90
Minnesota	2	_	-	_	2	_	i	2	11		7
Iowa	_	-	-	2			-	8	7	-	7
Missouri	-		_	1	1	-		37	17	1	24
North Dakota	1	_	J -	-	-		-	1		-	2
South Dakota	-	-	- 1			201-0-1		· -	1	-	-
Nebraska Kansas		1 2 - 1		= 1			/. =	13	1 10	1	3 47
SOUTH ATLANTIC	4		90	3	2				(5		
Delaware	-	12 -	<u>=</u> :		1 1	2	1	88	65	17	442
Maryland	2	_) Inc.	1			_ 2	11	20	2	18
Dist. of Columbia	_	_	40 40 50	-	1 2	1 1	-	3	2		1
Virginia	_	-	1, 2	_	1	_	-	8	3	1	17
West Virginia	_	- 70		-	-	- 1	-	7	1	-	-
North Carolina South Carolina	1		1000	2	-	-	-	3	6	4	201
Georgia	1	1-6		-	-	- 1	-	15	2	2	41
Florida		- 12-3		_	_	1	1	17 24	5 23	7	139 23
EAST SOUTH CENTRAL		1 8									
Kentucky*	6	S. To m	4000	3	_		-	45 11	48	Ĩ	52
Tennessee.	2	3/20	1.20			-11 21 5	1 [31	12 29	Ī	42
Alabama	4		1.2	2	-	4 = 3 = 4		3	3		8
Mississippi	-	-	- ,	1	-			4_1 = 1	4	-	2
WEST SOUTH CENTRAL	6	1.0	(3	- 2	3	71	50	1 2	40
Arkansas	_	4 32 50	3.2		_			<u>'-</u>	- 50	_	6
Louisiana	3	-		l _	2 2		3	14	12	_	28
Oklahoma Texas		-	-	-	1	-	2	16	7	2	6
- 1570000 (AT)	3	-1	7		-	= -	-	41	31	-	-
MOUNTAIN	2	-	4	3	2	-	1	26	36	1	108
Montana	2		J-	3	1	The street	-		12	-	- :-
Idaho	-	7 -	-	-	-	-		1	2	-	3
Wyoming. Colorado	-			-	-	-	-	-	-	-	-
New Mexico		2	-	-	1	- 1	_	5	-	1	93
Arizona			4	_	<u> </u>	11 2 6 7	1	1 12	5 12	-	6
Utah	200		-	_	- 1		-	7	4		1
Nevada	7-11	3 7	-770011	11 4	_	-	-	HALL-I	1	-	4
PACIFIC	70	2	-	5	6	6	39	200	242	9	340
Washington	4	1			1	39	- 1 =	21	11	III PR	5.1
Oregon	10	- - -		- - -	7 1		-	24	12	100	7
Alaska	10 56	1		5	4	6	38	153	214	4	258
Hawaii	30	THE PARTY	1	3 U564	1			2	3 2	4	68

*Delayed reports: Hepatitis, serum: N.J. delete 15, Ky. 1 (1968) Hepatitis, infectious: Me. 2, N.J. delete 5

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 12, 1969 AND JULY 13, 1968 (28th WEEK) - CONTINUED

	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
AREA	Cumulative				Cumulative			Total	Para	lytic Cum.	
	1969	1969	1968	1969	1969	1968	1969	1969	1969	1969	1969
UNITED STATES	318	18,721	18,037	46	2,102	1,727	930	1	1	4	708
NEW ENGLAND	42	987	1,082	_	70	88	141	_	_	1	67
Maine *		5	35	_	6	6	27		_	_	5
New Hampshire	_	228	141	_	2	7	_	1 -	-	_	1
Vermont		2	1	-		1	2			-	3
Massachusetts.*	12	181	334	_	31	38	68			-	28
Rhode Island	- 1	22	1	_	6	7		_	-	-	2
Connecticut	30	549	570	-	25	29	44	II-	- 1	1	28
MIDDLE ATLANTIC	120	7,067	3,466	4	335	304	83			L - 15	28
New York City	47	4,672	1,635	2	69	65	68	-			17
New York, Up-State.	15	566	1,155	-	51	48	NN	-			7
New Jersey.*	18	835	571	1 1	142	111	15	_	-	_	2
Pennsylvania	40	994	105	1	73	80	NN	-	-	-	2
AST NORTH CENTRAL	22	1,902	3,539	12	288	208	247				187
Ohio	7	344	279	9	107	56	46		-	_	23
Indiana.*	_	453	616	_	34	26	29	_	-		28
Illinois	6	405	1,319	1	40	47	18	_	-	_	5
Michigan	-	197	238	1	89	62	58		_		98
Wisconsin	9	503	1,087	1	18	17	96	7-	-	-	33
FET MARTI CRAPPAT	0	400	261		111	94	4.0				
EST NORTH CENTRAL	8	489	361	3	111	86	42	_		-	6
Minnesota		324	15	1	24	19	1		-	_	1
Iowa	4	324	93	-	15	6	19	_	-	_	2
Missouri	_	16	80	2	48	31	15			-	2
North Dakota	2	9	123	-	-	3	3	-		-	1
South Dakota	_	3	4	_	1	4	NN	-			
Nebraska Kansas	2	128 4	36 10	3	9	17	2 2	-			1111111
					le le Y		-				
OUTH ATLANTIC	24	2,359	1,370	10	373	351	100	1	1	1.0	150
Delaware	7	369	14		4	6	1	_	- 2		3-1-0-07
Maryland	-	63	82		33	26	5	-	-	T	4
Dist. of Columbia	-	054	6		9	13	7	-	_	-	1
Virginia	1 2	854	289	7	46	28	14	-	_	-	37
West Virginia	8	164	249	1	18	9	55	-	-	1.641194	49
North Carolina	1	299	281 12	4 2	66	69	NN		_		
South Carolina	_	110	4	3	54	55	14		_	- 11	6
Georgia	5	499	433	3	64 79	61 84	- 4	1	1	1	53
AST SOUTH CENTRAL	_	100	464	2	132	148	44	1	_		37
Kentucky	_	59	95		46	57	16	-		_	10
Tennessee	_	17	55	1	50	49	28	-	_	-	20
Alabama	_	3	- 85	1	21	22	-	-		-	1 - 1
Mississippi	_	21	229	_	15	20	-	-	_		7
EST SOUTH CENTRAL	62	4,141	4,482	5	285	286	81	-	10.0	2	66
Arkansas	-	16	2	-	28	19	-		-	-	-
Louisiana	-	120	5	-	74	81	1	-	-	-	
Oklahoma	5	135	110	1	29	49	3	-	-	-	1
Texas	57	3,870	4,365	4	154	137	77	-	-	2	65
OUNTAIN	28	726	929	1	37	27	86		-	-	40
Montana.*	_	10	57	_	5	3	8	_	-		2
Idaho	4	88	20	_	6	11	_	_	-	_	1
Wyoming.	-	_	50		1	_	-	_	_	_	2
Colorado	_	115	479	_	6	8	5	_		_	15
New Mexico	5	217	85	_	6	_	3	_	_	_	2
Arizona	19	289	212	1	10	1	69	-	11 -		15
Utah	_	6	21	-	2	1 -	1	_	- 1		3
Nevada	-	- 1	5	- '	2	3	-	-	-	-	-
ACIFIC	12	950	2,344	9	471	229	106				127
Washington.	-	57	514	9	50	37	106				127
Oregon.	1	191	454		11	17	17				16
California	7	667	1,340	9	389	162	68		L.		58
Alaska		8	2	-	11	2	2			-	Ja
Hawaii.	4	27	34		10	11	9		<u> </u>		51
										77.00	
Puerto Rico	58	1,164	347	_	15	19	22	-	_	100 (00)	78

*Delayed reports: Measles: Mass. delete 1, N.J. delete 1

Meningococcal Infections: Ind. delete 1

Mumps: Me. 7

Rubella: Me. 13, Mont. 1

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

JULY 12, 1969 AND JULY 13, 1968 (28th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID FEVER		TICK	S FEVER -BORNE . Spotted)	RABIES IN ANIMALS	
			Cum.		Cum.	357	Cum.		Cum.		Cum.
	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969
UNITED STATES	4,259	3	68	1	79	3	146	22	200	57	1,998
EW ENGLAND	697		4	e110	14	- 11	5	_	1 Page 191	2	11
Maine*	6	-	-	_	-	- 1	1	- I	_	_	
New Hampshire	13	-	-	-	-	-	- 1	-	1	_	
Vermont	13		-		14	-	-		41 = L	-	
Massachusetts	70	-	-	-	-		3			-	1
Rhode Island	56	-	-		-	-	1	107 - 1	3.7	-	-
Connecticut	539	-	-	-	- 1	-	-	-	-	2	
IDDLE ATLANTIC	242	1	11		3	1	1.5	,	24	0	
New York City	13		5	4 [-	1		15	4	24	9	8
New York, Up-State.	204		2	6. Z	2		5	D(-	5	9	70
New Jersey	NN	1	2		_]	3	6	-	"
Pennsylvania	25		2	_	_	1	4	1	13	_	3
			-		-550						
AST NORTH CENTRAL	289	- 15	9		7		13	_		3	131
Ohio	23	-	_	- 1	_		7	_		_	3.
Indiana	81	1- 33	-		1		-	_		_	40
Illinois	39	-	6	I	2	-1	2	-	- 1	2	25
Michigan	112	-	3		- 1	- 1	4		- 1	1	4
Wisconsin	34	-	-	-	4	' - I	- 1	-	- 1	_	27
	100		_ ,1		1 1 1	1 301					-
EST NORTH CENTRAL	153	-	4	1	8	- 1	4	h = .	2	9	372
Minnesota	7	-	-	-	-	-	1	-	- 1	2	91
Iowa	39	-	-	-	_	-	-	-	1	_	54
Missouri	10	-	1	1	5	-	2	-		3	105
North Dakota	52	-	-		-		-	- 1		1	50
South Dakota	17	-	-		- 1	-	40 7	0	1	_	13
Nebraska.	28	1	3		-	_	1	-	- 1		10
Kansas		15-1	3	-	3	-		-		3	49
SOUTH ATLANTIC	500	1	14		19		26		100	0	
	- 000		-	_		-	26	9	108	8	535
Delaware	41	_	_		-	_	1	-	2	-	
Maryland.*	2		2		_		1	-	25	-	-
Virginia	73		_		3			3	36	7	278
West Virginia	193	12.00	1		2		1	-:27	4	1	84
North Carolina	NN	_	2	- X -	5		4	1	29	_	4
South Carolina	46		1	_	2	_	1	i	6		
Georgía.	1	_			3	_	7	4	6	_	48
Florida	144	1	8	- 1/4	4	_	7		_	_	121
edit grown by tremely			- 0				5 A 4 W				
AST SOUTH CENTRAL	917	1	10	011_	9	1	16	5	32	7	311
Kentucky	75		3		_		2	_	5	2	163
Tennessee	778	_	4	3 - 1.1	8	1	12	5	26	1	111
Alabama	36	1	2	O -	-	_		_	1	1	34
Mississippi	28	-	1	-	1	-	2	-	- 1	3	3
And the Parties of						le II		777	0.00		100
VEST SOUTH CENTRAL	420	-	13	77-11	- 11	1	20	4	21	11	271
Arkansas		- it /	-	13 - I	1	-	10	-	4	1	21
Louisiana	3	-	5	9 - 1	2	1	1 1		F F - I I	1	17
Oklahoma	13	-	1	h- 1	5	-	T T	4	14	1	41
Texas.*	404	-	7	-	3	-	9	-	3	8	192
(OUNTATA)	902		1	0 -			20	10.50			
OUNTAIN	25	1	_	0.14	8 -	8	20		8	11	92
Montana.*Idaho	49			100 - 100 - 1	- [-	7 - 7 -		-
Wyoming.	1	_ [_	- <u>-</u>	2		3 5	-	1		1.5
Colorado	603	Ī	1	60 H	_		5 2	1	-	1	48
New Mexico	106		_		ī		5	107	7	Verifica.	3
Arizona	81	- I	_ = h				4	72		_	22
Utah	37	Ē 1	_		5		4	1 -			22
Nevada	1 1		- 9 -				1			- 11	8
	100		. 1				10.7	464	100-1		1 6
ACIFIC	139	1 4	6		1112	_ 4	27	_	5	7	194
Washington	73	1 1	1	H = 1	5 i= 1	_ 1	1	_	3	112	1 194
	49		_			_	6	1 (12)	1 - 1		i
oregon.		10-5	5		1000	_ 1	20	10.00			
Oregon				_		_	20	_	2	/	1 197
	17	<u> </u>		5-1	3 - 1	3-11	-	II A-		7	192
California											

*Delayed reports: SST: Me. 8

Tularemia: Tex. delete 1, Mont. delete 1

RMSF: Md. Delete 1

Week No. 28

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JULY 12, 1969

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

	A11 C	uses	Pneumonia	Under		A11 C	auses	Pneumonia	
Area	A11 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
NEW ENGLAND:	747	446	38	30	SOUTH ATLANTIC:	1,282	686	43	47
Boston, Mass	242	148	16	9	Atlanta, Ga	137	57	2	4
Bridgeport, Conn	47	32	6	1	Baltimore, Md	229	130	10	9
Cambridge, Mass	30	23	4	2	Charlotte, N. C	53	30	1	1
Fall River, Mass	29	16	-	2	Jacksonville, Fla	100	45	1	2
Hartford, Conn	45	21	-	1	Miami, Fla	109	61	-	6
Lowell, Mass	35	20	2	1	Norfolk, Va	57	28	3	2
Lynn, Mass	24	11	2	-	Richmond, Va	92	64	7	3
New Bedford, Mass	39	25	1	1	Savannah, Ga	51 97	23 74	2	5
New Haven, Conn Providence, R. I	55 59	28 33	1	4 2	St. Petersburg, Fla	77	47	7	1
Somerville, Mass	9	6		-	Tampa, Fla	240	104	5	8
Springfield, Mass	29	21	3	1	Wilmington, Del	40	23	1 1	3
Waterbury, Conn	28	19	_	i	withington, bei				
Worcester, Mass	76	43	3	5	EAST SOUTH CENTRAL:	696	410	29	24
The second second		-			Birmingham, Ala	78	46	1	3
IIDDLE ATLANTIC:	3,319	1,932	145	137	Chattanooga, Tenn	57	41	5	1
Albany, N. Y	54	22	1	6	Knoxville, Tenn	46	33	2	2
Allentown, Pa	28	18	1	-	Louisville, Ky	123	77	9	4
Buffalo, N. Y	156	104	3	5	Memphis, Tenn	179	105	3 4	3
Camden, N. J	38	15	2	4	Mobile, Ala	63	30	4	8
Elizabeth, N. J	37	21	2	1	Montgomery, Ala	111	23	-	-
Erie, Pa	40	30	3	-	Nashville, Tenn	111	55	5	3
Jersey City, N. J	79 79	48	5	1		1 320	701	4.5	70
Newark, N. J	1,669	29 960	3	63	WEST SOUTH CENTRAL:	1,320	701	45	72
New York City, N. Y	37	19	68	63	Austin, Tex	51	17	1	3
Paterson, N. J	401	230	13	21	Baton Rouge, La	38	21	100	1
Philadelphia, Pa	227	124	11		Corpus Christi, Tex	166	69	4	11
Pittsburgh, Pa	56	40	1	8	Dallas, Tex	49	23	8	5
Reading, Pa	118	84	,	8	El Paso, Tex	99	49	3	10
Rochester, N. Y	38	22	2	1	Fort Worth, Tex	194	97	4	13
Schenectady, N. Y	56	39	5	2.00	Houston, Tex	63	30	2	6
Scranton, Pa	99	56	2	7	Little Rock, Ark	217	132	1	5
Syracuse, N. Y	35	19	3	1	New Orleans, La	96	53	3	- 2
Trenton, N. J	31	26	8	_	Oklahoma City, Okla	158	97	2	5
Utica, N. Y	41	26	2	1	San Antonio, Tex	67	41	7	4
Yonkers, N. Y	A = E	20	-		Shreveport, La	73	43	7	4
AST NORTH CENTRAL:	2,701	1,528	95	156	Tulsa, Okla				10 (11)
Akron, Ohio	82	45	-	2	MOUNTAIN:	496	281	25	34
Canton, Ohio	41	20	3	3	Albuquerque, N. Mex	48	20	1	5
Chicago, Ill	692	370	27	38	Colorado Springs, Colo.	27	18	4	1
Cincinnati, Ohio	170	100	6	3	Denver, Colo	127	72	8	6
Cleveland, Ohio	211	113	5	16	Ogden, Utah	25	14	4	2
Columbus, Ohio	142	88	3	8	Phoenix, Ariz	100	53	4	13
Dayton, Ohio	81	58	2	4	Pueblo, Colo	40	23	1	2
Detroit, Mich	360	191	8	26	Salt Lake City, Utah	65	41	1	3
Evansville, Ind	47	30	4	2	Tucson, Ariz	64	40	2	2
Flint, Mich	72	34	3	6					
Fort Wayne, Ind	52	34	1	-	PACIFIC:	1,772	1,062	39	68
Gary, Ind	40	21	4	1	Berkeley, Calif	26	18	4	1
Grand Rapids, Mich.	54	33	6	2	Fresno, Calif	66	36	1	2
Indianapolis, Ind	163	99	3	9	Glendale, Calif	39	21	- 20	4
Madison, Wis	32	16	2	3	Honolulu, Hawaii	54	22	Tarre	4
Milwaukee, Wis	161	97	4	15	Long Beach, Calif	108	62	1	3
Peoria, Ill	33	15	-	5	Los Angeles, Calif	652	392	9	25
Rockford, Ill	38	25	1	1 !	Oakland, Calif	82	42	the state of	7
South Bend, Ind	41	22	3	1	Pasadena, Calif	42	34	-	-
Toledo, Ohio	127	81	9	5	Portland, Oreg	97	59	6	8
Youngstown, Ohio	62	36	1	6	Sacramento, Calif	65	35	1	1
3112	012	555	25		San Diego, Calif	81	45	-	-
EST NORTH CENTRAL:	913	555	25	52	San Francisco, Calif	177	104	3	4
Des Moines, Iowa	61 20	37	2	5	San Jose, Calif	33	23	6	-
Duluth, Minn	20	11	1	2	Seattle, Wash	152	96	3	5
Kansas City, Kans	43 162	23	2	9	Spokane, Wash	58	41	1	1
Kansas City, Mo	162	97	1 1	12	Tacoma, Wash	40	32	3	3
Lincoln, Nebr	30 113	21	1	-	m 1	40 044	7 (**	Sec.	(22
Minneapolis, Minn	113	72	_	6	Total	13,246	7,601	484	620
Omaha, Nebr	70 275	160	7	6		1	E . B		
St. Louis, Mo	275 76	169	7	5		mulative '			-10-
St. Paul, Minn	76 63	53 39	9	3	including report	ed correc	tions for p	revious we	eks
Wichita, Kans	63			4	A11 Courses 411 4			274 7	136
					All Causes, All Ages			374,7	30
					All Causes, Age 65 and				14.7

INTERNATIONAL NOTES INFLUENZA - South America*

Outbreaks of A2/Hong Kong/68 influenza have been confirmed in Argentina, Brazil, Chile, and Uruguay. In Brazil, a progressive increase in incidence of influenzalike disease was observed in the state of Guanabara during the first 2 weeks of March 1969 and in Belem, Para State, in February and March. Four strains of A2/Hong Kong/68 influenza were isolated from residents of Rio de Janeiro, Guanabara, between March 14 and 18 and three strains were recovered from Belem. A survey of 9,002 persons in 11 establishments in Belem revealed that more than half of them had been affected since January 1, with the highest incidence occurring during the week of March 15.

In Argentina, two outbreaks of influenza-like disease were reported between May 7 and 21. The first occurred in Comodoro Rivadavia City in Patagonia. Although school and labor absenteeism remained normal for the season, cases were observed especially from May 12-15. Their number is now decreasing. The second outbreak occurred in the southern suburbs of Buenos Aires City where only a few cases were detected. In both outbreaks, the disease was mild, and several strains of A2/Hong Kong/68 were isolated. A third outbreak occurred in Cordoba City and other cities in Cordoba Province during the first week of June. Twenty-two strains of A2/Hong Kong/68 were recovered.

In Chile, isolated confirmed cases were noted at the end of May or beginning of June, and in Uruguay an epidemic began in mid-June.

(Reported by Dr. E. Pearson and Miss Manuela Vicente, Departamento de Virus, Instituto Bacteriologico de Chile; Dr. Juan C. Rivadeneira, Director, Instituto de Virologia, Universidad Nacional de Cordoba; and the WHO, International Influenza Center for the Americas, Atlanta.)

*Source: World Health Organization Weekly Epidemiological Record, 44(23 and 26):391, 426.

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In the list of Yellow Fever Vaccination Centers, the fee for yellow fever vaccination at the Ochsner Clinic should be changed from "No" to "\$6.00 for first patient and \$1.00 for each additional member of a family up to a total of five."

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DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

NATIONAL COMMUNICABLE DISEASE CENTER 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 NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES AT CLOSE OF BUSINESS ON FRIDAY; COMPILED DATA ON A NATIONAL BASIS ARE OFFICIALLY RELEASED TO THE PUBLIC ON THE SUCCEEDING FRIDAY.

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