NATIONAL COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

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REPORT

For Week Ending March 15, 1969

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE FEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION
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EPIDEMIOLOGIC NOTES AND REPORTS BOTULISM - Chicago, Illinois

On March 6, 1969, in Chicago, a 41-year-old man died from botulism. On March 2, he had eaten a late evening snack of eggs, onions, and mushrooms. The mushrooms were home-canned and were noted by the patient to have a spoiled odor. Approximately 10 hours later, he developed dizziness followed by nausea, diarrhea, diplopia, dyspagia, generalized weakness. and progressive respiratory distress. He remained afebrile. On March 3 he was hospitalized and later that evening sustained a respiratory and probable cardiac arrest. He was resuscitated, tracheostomized, and placed on a respiratory. Following the arrest, he remained comatose with dilated pupils. Botulism was diagnosed and on March 4 trivalent (A, B, and E) Clostridium botulinum antiserum was administered. Following

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treatment, he showed little improvement and died 35 hours later.

The mushrooms were gathered locally and canned in October 1968. The canning procedure involved washing, slicing, and boiling at atmospheric pressure for 4 hours. While still hot, the mushrooms were poured into jars, sealed, and stored at 60°F; 21 quarts were prepared. Prior (Continued on page 90)

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

199	11th WEEF	KENDED	MEDIAN	CUMULATIVE, FIRST 11 WEEKS				
DISEASE	March 15, 1969	March 16, 1968	1964 - 1968	1969	1968	MEDIAN 1964 - 1968		
Aseptic meningitis	25	34	34	318	300	307		
Brucellosis	Transfer to 1 seems of	2	4	17	12	40		
Diphtheria	7		2	29	28	29		
Encephalitis, primary:	THE RESERVE OF THE PERSON NAMED IN COLUMN	120, 500	Service Transfer Service	- C. C. C. C.		III SHEET SERVICE		
Arthropod-borne & unspecified	18	1111	30	216	160	264		
Encephalitis, post-infectious	7	8	20	47	93	131		
Hepatitis, serum	116 1,221	80 848	859	1,093 9,984	744 9,024	9,045		
Malaria	50	26	11	497	491	63		
feasles (rubeola)	859	653	9,652	5,070	6,208	75,605		
Meningococcal infections, total	91	74	80	869	882	882		
Civilian	87	67	of breverable	822	803			
Military	4	7	• • •	47	79			
iumps	3,030	5,470		25,258	55.637			
Poliomyelitis, total	Street Production	2 1	2	1-1	10	5		
Paralytic	ATTORNEY ST.	2	2	1	10	4		
Rubella (German measles)	1,803	2,372		9,432	10.602			
Streptococcal sore throat & scarlet fever	13,398	11,791	13,302	126,993	126,914	126,856		
Cetanus	10 10 10 10	2	2	18	22	33		
'ularemia	1 2 3	1 1 6	2	23	16	46		
Typhoid fever	7	4	2	46	42	56		
Typhus, tick-borne (Rky. Mt. spotted fever) .	The section of the section of		AND LABOR.	1	3	6		
Rabies_in animals	85	55	93	755	796	823		

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Botulism: Ky1 Leptospirosis: Calif1 Plague: Psittacosis:	10	Rabies in man: Rubella congenital syndrome: Trichinosis: Calif1, Colo1 Typhus, murine:	1 17

BOTULISM - (Continued from front page)

to this man's illness, approximately 16 quarts had been ingested by several persons with no known ill effects.

Laboratory analysis of the patient's serum (prior to treatment) and leftover mushrooms demonstrated type A botulinum toxin. The food was found to contain 400,000 mouse LD/50 doses/g. Cultures of the food are in progress.

(Reported by Hans Flach, M.D., and Louis Kolokoff, M.D., Attending Physicians; Morgan J. O'Connell, M.D., Acting Health Commissioner, Olga Brolnitsky, M.D., Chief Epidemiologist, and June DeSalles, Bacteriologist, Laboratory, Chicago Board of Health; Norman J. Rose, M.D., M.P.H., Chief, Bureau of Epidemiology, Illinois Department of Public Health; and the Anaerobic Bacteriology Laboratory, Bacterial Reference Unit, Laboratory Program, NCDC; and an EIS Officer.)

Editorial Comment:

Since 1899, 16 outbreaks of botulism secondary to ingestion of mushrooms have been recorded. Four were due to type A, one to type B, one to type E, and in the remaining outbreaks the types were undetermined. It is of interest that mushrooms are the only vehicle other than fish that has been responsible for a type E outbreak. The not infrequent finding of mushrooms as a cause of botulism and the extremely high toxin titer found in the food responsible for this outbreak suggest that mushrooms provide an excellent medium for growth and toxin production of *C. botulinum*.

This is the second fatal case of type A botulism occurring within the past 3 weeks (MMWR, Vol. 18, No. 9). Of the three common toxin types (A, B, and E), type A binds most rapidly to tissues. This stresses the importance of early diagnosis and treatment with trivalent antiserum.

AN OUTBREAK OF MEASLES IN PREVIOUSLY IMMUNIZED CHILDREN - Florida

Between Dec. 28, 1968, and Feb. 28, 1969, 325 cases of measles were reported from Florida; 293 of these were from Duval County (Jacksonville). During this Duval County epidemic, a private kindergarten in Jacksonville with an enrollment of 145 children from middle and upper socioeconomic families reported 28 measles cases (attack rate 19.3 percent). An unimmunized child who became ill on Dec. 20, 1968, was the index case in the kindergarten (Figure 1). Sporadic cases then occurred in the kindergarten until the week of January 18 when 18 cases were reported.

Of the 28 cases, 25 had histories of previous immunization with live, attenuated measles virus vaccine with Measles Immune Globulin (MIG). In no case was the amount of MIG recorded. Of these 25, 24 had been immunized by physicians in the Jacksonville area and one child had been immunized in Virginia. Dates of vaccination ranged from October 1963 through September 1965. At the time of immunization, 18 of the 25 children were under 12 months of age and seven were from 13 to 20 months of age.* Although vaccine lot numbers were not recorded, it is likely that more than one lot of vaccine was used by the physi-

MEASLES CASES IN A KINDERGARTEN BY DATE OF ONSET* JACKSONVILLE, FLORIDA DECEMBER 20, 1968 – JANUARY 31, 1969

DATE OF ONSET UNKNOWN IN 2 CASES

DEC

cians immunizing in two cities over a 2-year period. Preliminary analysis of clinical illness in the 25 previously immunized children indicates that immunization may have mitigated the disease in some cases. Convalescent sera were obtained from seven of the kindergarten cases. Six of these seven had been previously immunized and five had been immunized before 12 months of age (Table 1).

Control specimens were obtained from nine non-ill children in the same kindergarten. All nine had also been immunized with live, attenuated measles virus vaccine with MIG; six of these nine had been immunized under 12

Table 1
Rubeola Hemagglutination Inhibition Titers in Seven Kindergarten Cases of Measles
Jacksonville, Florida — February 1969

Case	Present Age (Years)	Age at Immunization	Date of Immunization	Time Interval Between Onset of Illness and Serum Collection (Days)	Rubeola HI Titer
1	5	6 mos.	3-23-64	9	1:80
2	5	8½ mos.	4-17-64	22	1:160
3	5	no vaccine		9	1:40
4	5	9 mos.	7-21-64	17	≥1:320
5	5	9 mos.	11-19-63	19	>1:320
6	5	13 mos.	5-11-65	20	>1:320
7	5	9 mos.	6-30-64	41	1:320

months of age. All nine sera had measles antibody (Table 2).

An additional control group of five children ranging in age from 5 to 7 years was examined serologically. Each child had received live, attenuated measles virus vaccine with MIG from one of the physicians who had immunized the kindergarten children. Of these five, three had been immunized before 12 months of age. Sera from these three had no detectable antibody, but sera from the two children immunized at 13 and 18 months of age had detectable antibody (Table 3).

Between Feb. 16 and 23, 1969, a county wide mass immunization program was conducted in Duval County; 50,724 doses of vaccine were given with 23,713 doses going to preschool children. An additional 2,647 doses had been administered from November through January in local clinics and school epidemic control programs. Although exact numbers are unknown, local physicians

also reported a large increase in measles vaccine utilization during this period.

(Reported by J. K. David, Jr., M.D., J. W. Walker, M.D., M. A. Price, M.D., and R. G. Skinner, M.D., Pediatricians, Jacksonville; M. C. Ginter, M.D., Epidemiologist, Jacksonville City Health Department; E. Charlton Prather, M.D., Director, Division of Epidemiology, and the Virology Laboratory, Florida State Board of Health; Laboratory Program, NCDC; and an EIS Officer.)

*For maximum efficacy the Public Health Service Advisory Committee on Immunization Practices now recommends that live, attenuated measles virus vaccine be administered when children are at least 12 months old. The Committee notes, however, that the vaccine may be given to infants between 9 months and 1 year of age with the expectation of decreased efficacy especially if administered simultaneously with Measles Immune Globulin. The amount of Measles Immune Globulin administered is weight dependent, and the individual manufacturer's directions regarding administration should be followed. (MMWR, Vol. 16, No. 32.)

Table 2
Rubeola Hemagglutination Inhibition Titers in Nine Non-III Immunized Kindergarten Students
Jacksonville, Florida — February 1969

Control	Present Age (Years)	Age at Immunization	Date of Immunization	Date of Serum Collection	Rubeola HI Titer
8	5	13 mos.	7-1-64	2-5-69	≥1:320
9	4	11 mos.	8-16-65	2-5-69	1:20
10	5	18 mos.	4-13-65	2-5-69	1:40
11	5	9 mos.	12-21-63	2-7-69	1:20
12	5	9 mos.	2-19-65	2-7-69	1:5
13	5	10 mos.	12-16-63	2-7-69	1:5
14	5	18 mos.	11-6-64	2-12-69	1:80
15	5	8 mos.	9-14-63	2-13-69	1:160
16	6	11 mos.	1-7-64	2-10-69	1:320

Table 3 Rubeola Hemagglutination Inhibition Titers in Five Students Jacksonville, Florida — February 1969

Control	Present Age (Years)	Age at Immunization	Date of Immunization	Date of Serum Collection	Rubeola Hl Titer
17	5	9 mos.	4-16-64	2-5-69	<1:5
18	5	9 mos.	10-64	2-7-69	<1:5
19	6	10 mos.	8-2-63	2-7-69	<1:5
20	6	13 mos.	7-20-63	2-7-69	1:20
21	7	18 mos.	7-8-63	2-12-69	1:10

MADUROMYCOSIS (MADURA FOOT) - Florida

On Aug. 24, 1968, a 49-year-old man saw a physician because of a chronic, hard, indurated granulomatous infection with draining sinuses on his left foot. The patient reported a 6-year history of chronic swelling which began when he stepped on a hard object with his shoes on and bruised his foot. The foot had never returned to normal size or configuration. In 1967, sinuses with drainage of bloody white material developed in the foot. The patient reported some discomfort in his ankle but no actual pain in his foot. He was fully mobile without loss of sensation, but he had had a 15 lb. weight loss during the last year. He gave no history of a penetrating wound in his foot.

He had remained active at work in an orange grove. The physician diagnosed Madura foot and referred the patient to a state medical school for confirmation.

On physical examination at the medical school, there were no systemic findings except for those related to the foot which was greatly swollen with numerous draining sinus tracts over the dorsal, medial, and plantar surfaces. There was no swelling of the ankle, but there were three 3 cm nodes in the left inguinal region. An X-ray showed evidence of severe osteomyelitis of the phalanges and metatarsals. A punch biopsy of lesion was interpreted

(Continued on page 96)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED MARCH 15, 1969 AND MARCH 16, 1968 (11th WEEK)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MARCH 15, 1969 AND MARCH 16, 1968 (11th WEEK) - CONTINUED

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		100			6 1/5			3 =		4-0-9	
AST SOUTH CENTRAL	6	42	118	5	41	71	139	-			196
Kentucky	4	17	40	2	10	27	62	-	333 -	the later	49
Tennessee	2	10	16	2	21	20	72	-	-		44
Alabama	-	-	33	-	7	12	5	-	200		100
Mississippi		15	29	1	3	12	N	73	3 - 1		103
								100			CHIRCHE
EST SOUTH CENTRAL	174	1,227	1,536	14	116	192	332			1	160
Arkansas		2	-	4	15	10	2			1000	
Louisiana		8	1	2	33	46	1		- 1		-
Oklahoma.	1	103	73		6	39	1	-		10000-002	3
Texas*	173	1,114	1,462	8	62	97	328	-	- 3	1	157
			7 11			terrain in the			77	9000	62,160
OUNTAIN	17	95	318	2	27	12	164	- 5	- 3		144
Montana	-	3	54	- 1	2	1	15		-	>> 1 - 1 - 1 - 1 - 1 - 1	4
Idaho	-		10	2	5	2	7	-	- 0	1000000	1
Wyoming	-	-	31	- 74			2		- 1	diam'r	44
Colorado	8	15	110		6	6	18			÷1 - 0	65
New Mexico	7	41	36	-	5	-	30	_	100	1)	3
Arizona	2	34	73		6	1	89	-			
Utah		1	2		1		3	-		1 200	26
Nevada	-	î	2		2	2	3				1
		-	9		_		OH IN 194	1. 1.5	1 13	- remed	
ACIFIC	52	279	1,013	20	223	121	611		-		317
Washington	4	24	275	2	14	19	188				55
Oregon	2	36	220	1	7	11	17	10		- Alexander	20
California	44	207	497	17	196	82	393		44		
Alaska	1	10	7/			02			12		222
Hawaii	1	2	21	2 2 T	6	9	10				3
			- 1	-	0	9	10	-	-		17

*Delayed reports: Measles: Mass. delete 4, Tex. delete 120 Mumps: Me. 5 Rubella: Me. 1, Md. delete 4

Morbidity and Mortality Weekly Report

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

MARCH 15, 1969 AND MARCH 16, 1968 (11th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TET	ANUS	TULA	REMIA		HOID VER	TICK	S FEVER -BORNE . Spotted)		ES IN
	1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969
UNITED STATES	13,398	1	18	1	23	7	46		1	85	755
Total Total	1 507			_		0.00	190		10.00	0.14	2
EW ENGLAND	1,587 29	111	1				100				1
Maine.*	25	15	1		3 1		1,646	100 0		P. 4	
New Hampshire	23		1			<		P 1			1
Vermont	205	100	1	E		0.7	1 (6)	-01			
Massachusetts	70	10.00	į į			X _ [Tit.			_101	No. 1 of Sec.
Rhode Island		V	1		det .	P	THE A	1001	III T IS	- n - 74	
Connecticut	1,256	10	1	_ 7		- T					
TIDDLE ATLANTIC	649	_ 99	2	91 4 1	1	1	8	1000	155-11	2	12
New York City	26	I- 35		-	1	-	5	1001	-		-
New York, Up-State.	501	1	2	-	_	-	1	10.0	- 1	2	12
New Jersey	NN	1 10	_				1		23 - 23	110	100
Pennsylvania	122	_	-		-	1	1	-	-		-
1 cmmy 1 cmm 2 cm 1 cm 1 cm 1 cm 1 cm 1 cm 1 c				. 1				100	100		1
EAST NORTH CENTRAL	1,413	H 00	3		2	1	2	-		5	34
Ohio	316	- 1	-		- 1	1	2	-	-	2	6
Indiana	519	- 63	- 4		1	-	-	-		2	6
Illinois	183	1- 0	1	-	1	1 - 1	-	112	2.5	100	5
Michigan	241	-	2	- 1	S - 1	-	701	100	The A	h 12	1
Wisconsin	154	_	1	-	- 1	- 1	100	100		1	16
	F F 14 9				- I		100		1001 11		
JEST NORTH CENTRAL	614	- 37		-	3		7.		-	17	130
Minnesota	49	- 31	-	-		-	12.	5.4	27	8	39
Iowa	186	1	-	-		1		17.4	-	4	24
Missouri	190	1 9	_		3	2-4-1	17			3	43
North Dakota	100	1 3.4	× 4	_		_	1970	-	4	2	18
South Dakota	34	4 15	-	4		1	15.2				V 1
The state of the s	11	112 -0	_	4	-10-	A _ II	100	1	_ 1		111
Nebraska Kansas	44	_		7 25 3	4 -	Y - 3	100	_	- 1		6
Kallsas	1 1 2 - 1		- 1	sc. (1.17)							
SOUTH ATLANTIC	1,592	1	6	94 LV 1	10	1	5		/mg 1	29	255
Delaware	21		1 200		_		10.2			1 1	
Maryland	254	. 22	2.0	Re (V)		1	1		-		
Dist. of Columbia	1.7 11 27	4.	2	0.02	S - 11	E 2 2 3	100	_		7	100
Virginia	673	11 - 21	1	- 43		_	100	444	100	17	172
West Virginia	333	- 1S	1		2	- 1	1000	00.4			32
	18		1	-	4	_	1	100.24	_	5	1
North Carolina	81	4	1			35	1	10.0		- T-H	
South Carolina		_	_	-			1		7.E E		16
Georgia	16	1	2	21	4	74 1	1	145	679	1	16
Florida	196	16	-		4	S	1			6	34
AST SOUTH CENTRAL	1,745			1	3	2	6	_	1	15	139
	216	1-00	_	C 112	_		_	1.1.	635	6	84
Kentucky	1,176	11. 15		1	3	2	5	BT= II	1	7	44
Tennessee	171	16. 3	_	1			V	1.2	4.5	2	11
Alabama	182	100	- 2	e 3	-11	T1	1	177	1		11
Mississippi	102		- 10	- Q	a: - 7.1	3.24	1				
EST SOUTH CENTRAL	878		3	F 4	2	1	7	58541	ME 1	8	89
Arkansas	16	1 7	-	-	5	- 1	4		- 1		4
Louisiana	7		2	-			_	(C)-	- 100-		4
Oklahoma.	33		1		2	- 11		A COLUMN	100	3	14
Texas	822	-	De.	-	9 -	1	3	135,7	4634	5	67
TEXAGO					311	Laborate State			72.0 5	2 - 1	
MOUNTAIN	3,208	1 - 23	_	-	2	1 - 1	10	-	360111	3	23
Montana	39	100	-	-		131 - 11		-			1
Idaho	164	11-	-	-	-	-	-	-	12 4	11000	
Wyoming.*	314	11-3		- 10			5		2.2	1	7
Colorado	2,167	3 - 0	-	100 4		100	1	250 000	1 - 4	1600	1
New Mexico	304	11 15	11.	-	1		2	2.00	3.4	1	7
Arizona.*	88		-	_		A	ī		200	î	5
	132	CT- 3		_	1	720	10.0			cope-o	0.00
Utah Nevada		100	00112	- 1	20		1		3 2 1	mirror de	3
mevaua			1000		3L Th	13.1					
ACIFIC	1,712		4	1 1		1	8	100		6	71
Washington	524			_	2	1 2		0.61	50 -1		100
Oregon	124	1. 35		_		10.	1365	200		1	
California	942	31. 31	4		27	1	8	100	22	6	71
Alaska	37				0.00		_	.040	-3 EVIII	-	2 4
Hawaii.	85	4							63	College	- 79
			-				-				
uerto Rico	1		1				1	_			2000

Rabies in animals: Wyo. 3, Ariz. 2

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MARCH 15, 1969

т.

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

Amas		uses	Pneumonia and	Under 1 year	The state of the s		uses	Pneumonia and	Unde 1 yea
Area	All Ages	65 years and over	Influenza All Ages	All Causes	Area	All Ages	65 years and over	Influenza All Ages	
NEW ENGLAND:	756	481	55	27	SOUTH ATLANTIC:	1,310	697	63	61
Boston, Mass	254	156	18	10	Atlanta, Ga	170	75	7	12
Bridgeport, Conn	57 20	41	6	4 10 1	Baltimore, Md	264	133	10	15
Cambridge, Mass Fall River, Mass	30	13 23	1		Charlotte, N. C	57	33	2	4
Hartford, Conn	57	35	2	6	Jacksonville, Fla Miami, Fla	124 108	65 62	8 2	3
Lowell, Mass	27	20	2	44-66-1	Norfolk, Va	54	32	4	5
Lynn, Mass	20	7	2	- A	Richmond, Va	86	48	3	1
New Bedford, Mass	33	22	- 4	2	Savannah, Ga	38	16	4	2
New Haven, Conn	54	29	2	2	St. Petersburg, Fla	121	100	8	3
Providence, R. I Somerville, Mass	54 12	36 7	5 3	1	Tampa, Fla	82	41	8	6
Springfield, Mass	41	25	2	3	Wilmington, Del	155 51	67	5	4
Waterbury, Conn	27	17		2		31	25	2	-
Worcester, Mass	70	50	4	1	EAST SOUTH CENTRAL:	729	398	46	30
and force to the	- 1 - 1	4 50 11	10.6	IX =	Birmingham, Ala	110	58	5	5
IIDDLE ATLANTIC:	3,628	2,131	135	189	Chattanooga, Tenn	56	26	5	2
Albany, N. YAllentown, Pa	46 32	28 22	-	1	Knoxville, Tenn	47	30	5	1
Buffalo, N. Y	150	77	3	1 12	Louisville, Ky Memphis, Tenn	158	89	19	11
Camden, N. J	51	30	- 1	2	Mobile, Ala	161 50	80 30	6 2	3
Elizabeth, N. J	33	21		2	Montgomery, Ala	33	18	3	4
Erie, Pa	31	21	4	1	Nashville, Tenn	114	67	i	4
Jersey City, N. J	83	47	7	6					
Newark, N. J	83	36	1	5	WEST SOUTH CENTRAL:	1,240	677	71	90
New York City, N. Y Paterson, N. J	1,797 26	1,067	78	90	Austin, Tex Baton Rouge, La	31	17	5	2
Philadelphia, Pa	705	14 406	7	2 42	Corpus Christi, Tex	47	25	1	3
Pittsburgh, Pa	172	94	6	4	Dallas, Tex	25 159	13 81	1 9	111
Reading, Pa	50	36	1	3	El Paso, Tex. *	41	22	4	4
Rochester, N. Y	120	78	13	6	Fort Worth, Tex	80	44	9	4
Schenectady, N. Y	14	8	1	1	Houston, Tex	245	107	10	31
Scranton, Pa	43 78	27 52	4	1	Little Rock, Ark	48	29	1	4
Syracuse, N. Y Trenton, N. J	50	24	2 2	3	New Orleans, La Oklahoma City, Okla	169	86	6	3
Utica, N. Y	33	23	4	1	San Antonio, Tex	132 133	82 83	7 3	8 13
Yonkers, N. Y	31	20	1	3	Shreveport, La	61	38	9	4
				1	Tulsa, Okla	69	50	6	2
AST NORTH CENTRAL:	2,652	1,531	101	126	1000 0000		Service Assert		- 102
Akron, Ohio	66	44	3	1	MOUNTAIN:	487	281	25	24
Canton, Ohio Chicago, Ill	35 766	23 398	3 29	1 38	Albuquerque, N. Mex	46	26	4	2
Cincinnati, Ohio	162	103	8	8	Colorado Springs, Colo. Denver, Colo	25 145	12	3	3
Cleveland, Ohio	206	106	4	17	Ogden, Utah	26	84	6 3	4 2
Columbus, Ohio	131	82	3	3	Phoenix, Ariz	112	59	4	7
Dayton, Ohio	84	52	6	4	Pueblo, Colo	24	16	3	1
Detroit, Mich	351	197	13	19	Salt Lake City, Utah	48	31	1	3
Evansville, Ind	46 48	32	1	-	Tucson, Ariz	61	36	1 - 1	2
Flint, Mich Fort Wayne, Ind	46	22 35	1 4	2	PACIFIC:	1 700		- Con. 17	A SILL F
Gary, Ind	44	22	5	3	Berkeley, Calif	1,792 15	1,131	66	71
Grand Rapids, Mich.	58	37	4	2	Fresno, Calif	47	15 26	2	5
Indianapolis, Ind	176	91	3	10	Glendale, Calif	48	36	2	-
Madison, Wis	44	23	5	6	Honolulu, Hawaii	57	27	1	3
Milwaukee, Wis	105	80		1	Long Beach, Calif	88	59	4	2
Peoria, Ill.	50 27	29	1	3	Los Angeles, Calif	592	384	22	21
Rockford, Ill South Bend, Ind	44	18 35	1 2	2 1	Oakland, Calif	81	57	2	5
Toledo, Ohio	107	63	4	3	Pasadena, Calif Portland, Oreg	43 152	41	2	1
Youngstown, Ohio	56	39	1	1	Sacramento, Calif	60	88 36	9	4
2 3				- 1	San Diego, Calif	104	52	1	6
EST NORTH CENTRAL:	878	550	40	36	San Francisco, Calif	222	129	5	7
Des Moines, Iowa	64	43	3	1	San Jose, Calif	45	27	2	1
Duluth, Minn	12	20	2	1	Seattle, Wash	140	94	7	7
Kansas City, Kans Kansas City, Mo	45 138	29 83	3	2 7	Spokane, Wash	45	23	4	6
Lincoln, Nebr	21	13	3		Tacoma, Wash	53	37	2	3
Minneapolis, Minn	122	78	4	6	Total	13 /-72	7 977	602	651
Omaha, Nebr	75	48	i	2	The second second second	13,472	7,877	602	654
St. Louis, Mo	271	160	7	11	Cur	nulative T	otals		
St. Paul, Minn	66	49	5	4	including reports			revious we	eks
Wichita, Kans	64	41	9	3	contings, at all at				
				15.0	All Causes, All Ages All Causes, Age 65 and o				

MADUROMYCOSIS - (Continued from page 91)

as showing "acute and chronic inflammatory reactions with ulceration of the epidermis." The lesions were "consistent with actinomycosis or nocardiosis." The patient was started on a course of therapy consisting of 10 g. triple sulfa daily for 4 weeks and followed by 5 g. daily for 2 to 4 months.

On Dec. 1, 1968, the patient was seen after 1 month of treatment and the foot appeared markedly improved with less edema, inflammation, and purulence. The patient was seen again during the first week in March: continued improvement was noted. The sulfa treatment is continuing and the patient is ambulatory and working.

(Reported by Donald D. Dieter, M.D., Physician, Eustis, Florida: E. R. Woodward, M.D., Professor and Head, Department of Surgery, and L. E. Cluff, M.D., Professor and Chairman, Department of Medicine, The J. Hillis Miller Health Center, University of Florida; J. Basil Hall, M.D., Health Officer, Lake County Health Department; E. Charlton Prather, M.D., Director, Division of Epidemiology, Florida Board of Health; and an EIS Officer.)

Reference: ¹ Freese, J.W., et al: Pulmonary infection by Nocardio asteroides: Findings in 11 Cases. J. Thorac Cardiov Surg 46(4): 537, 1963.

INTERNATIONAL NOTES INFLUENZA - 1969

EUROPE

Belgium (reported February) - Three strains of influenza B were isolated during the influenza A2/Hong Kong/68 epidemic in Brussels and the surrounding area.

Denmark (reported January 25) - Sporadic cases of influenza-like disease were noted in various parts of the country. Serologic evidence of A2 infection was obtained in five cases.

Finland (reported February 1) - An epidemic of influenza was developing in the general population; 15 strains of A2/Hong Kong/68 were isolated, and serologic evidence was obtained in many cases. Scattered cases had been noted earlier in January.

France (reported March) - Influenza-like disease has increased in Paris and the surrounding area and in the eastern, western, and southwestern parts of the country. In addition, localized outbreaks and sporadic cases were reported in Lyons. All age groups were affected. The disease was generally mild. Strains of A2/Hong Kong/68 were isolated and serologic evidence of A2/Hong Kong/68 was also obtained.

Ireland (reported January 11) - A family outbreak of influenza-like illness associated with A2/Hong Kong/68 virus occurred in Dublin in late December following the return from London of one of the children. There has been no evidence of increased incidence in the population generally.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 17,000 IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MOBILITY, 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 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 AT CLOSE OF BUSINESS ON FRIDAY; COMPILED DATA ON A NATIONAL BASIS ARE OFFICIALLY RELEASED TO THE PUBLIC ON THE SUCCEED

HEAL Ħ HEALTH, EDUCATION, SERVICES AND COMMUNICABLE DISEASE CENTER PUBLIC HEALTH SERVICE NATIONAL MENTAL HEALTH ADMINISTRATION GEORGIA AND 30333 WELFARE c POSTAGE DEPARTMENT OF AND FEES m *