Morbidity uses and Mortality

Vol. 21, No. 45

WEEKLY REPORT

For Week Ending

November 11, 1972

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE *HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION DATE OF RELEASE: NOVEMBER 17, 1972 — ATLANTA, GEORGIA 30333

INTERNATIONAL NOTES CHANGE IN YELLOW FEVER VACCINATION REQUIREMENT

On Nov. 9, 1972, the Public Health Service (PHS) announced the elimination of yellow fever vaccination requirements for travelers entering the United States. However, the PHS continues to recommend yellow fever vaccination for the protection of all U.S. travelers going to areas reporting cases.

Yellow fever is endemic in South America and Africa in areas approximately 15° above and below the equator. In South America, the disease is primarily Jungle Yellow Fever. A total of 22 cases have been reported from the deep interior of Venezuela since late June 1972, after a 5-year period with no reported cases. Brazil, Colombia, Bolivia, and Peru continue to report a few cases each year. In Africa, the only two countries that reported yellow fever in 1971 were Angola and Zaire. Angola reported 65 cases with 42 deaths, after at least 20 years with no reported cases, and Zaire reported two fatal

CONTENTS

International Notes	
Change in Yellow Fever Vaccination Requirement	385
Lassa Fever – Sierra Leone	386
Cholera	392
Epidemiologic Notes and Reports	
Influenza – Colorado	387
Rubella-Like Illness — Arizona	387

cases after quiescence for approximately 10 years.

The elimination of the yellow fever vaccination requirement by the United States follows the elimination of vaccination against cholera on Dec. 12, 1970, and the restricted requirement of vaccination against smallpox on Nov. 19, 1971. The only vaccination now required by the United States from persons arriving from international travel is that of smallpox, and this only when the traveler has been in a country reporting smallpox within the preceding 14 days.

(Reported by the Foreign Quarantine Program, CDC.)

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

The second section and the second sec	45th WEE	K ENDING	MEDIAN	CUMULA	TIVE, FIRST 4	5 WEEKS	
DISEASE	November 11, 1972	November 13, 1971	MEDIAN 1967-1971	1972	1971	MEDIAN 1967-1971	
Aseptic meningitis	125	114	114	3,708	4,615	3,890	
Brucellosis	3	5	4	166	146	196	
Chickenpox	1,635			120,511			
Diphtheria	3	5	7	97	158	158	
Encephalitis, primary:	New Percentile		J 145 15	1 19 0 18			
Arthropod-borne and unspecified	21	37	33	984	1,340	1,340	
Encephalitis, post-infectious	3	2	1	242	302	346	
Hepatitis, serum (Hepatitis B)	172	172	126	7,818	7,520	4,593	
Hepatitis, infectious (Hepatitis A)	1,088	1,200	1,112	47,511	52,510	41,129	
Malaria	10	38	48	779	2,656	2,656	
Measles (rubeola)	357	367	276	28,395	72,040	42,057	
Meningococcal infections, total	23	26	29	1,167	1,976	2,129	
Civilian	22	23	27	1,122	1,766	1,914	
Military	0.00	3	2	45	210	209	
Mumps	959	1,691		61,913	108,306		
Rubella (German measles)	255	209	317	22,869	41,090	46.086	
Tetanus	4	2	4	102	97	142	
Tuberculosis, new active	615			29,144			
Tularemia	2	I	70	115	167	150	
Typhoid fever	14	27	10	324	369	348	
Typhus, tick-borne (Rky. Mt. spotted fever) Venereal Diseases:†	3	2	2	512	394	330	
Gonorrhea	15,745	13,939		652,308	572,692		
Syphilis, primary and secondary		471		21,920	20,480		
Rabies in animals	53	50	50	3,590	3,494	2,994	

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

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Anthrax:	2	Poliomyelitis, total: Iowa – 1, N.Y. Ups. – 2	21
Botulism:	8	Paralytic: N.Y. Ups. – 2	19
Congenital rubella syndrome:	30	Psittacosis: Conn. – 1, Tex. – 1	32
Leprosy: Calif 2		Rabies in man:	1
Leptospirosis:	33	Trichinosis: Ind. – 1, Mo. – 1	73
Plague:	1	Typhus, murine:	13

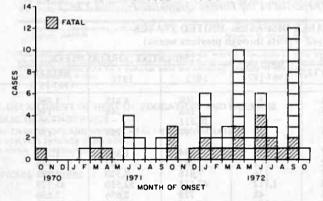
INTERNATIONAL NOTES LASSA FEVER — Sierra Leone

Between Oct. 1, 1970, and Oct. 1, 1972, 64 persons from Sierra Leone, Africa, had prolonged fever unresponsive to antibiotics and antimalarials and clinically compatible with Lassa Fever and were admitted to the Panguma Mission Hospital (62) or the nearby Tongo Hospital (2). Twenty-three (36%) died. Over the last 16 months, cases have been observed with increasing frequency, and 12 patients were hospitalized in September 1972 (Figure 1). At the time that an increasing number of Lassa Fever cases were being admitted, the total number of admissions to these two hospitals remained relatively constant.

One of the 64 cases was in a nurse at the Panguma Mission Hospital. On April 26, 1972, she pricked her finger on an intravenous needle from a patient who subsequently died of clinical Lassa Fever. The nurse developed fever, myalgia, headache, cough, and abdominal pain 8 days later, but recovered after a prolonged illness. Convalescent sera tested by complement-fixation subsequently demonstrated a 1:8 titer against Lassa virus.

Fourteen of the 64 cases were in residents of Panguma (estimated population 3,100), and 18 were in residents of Tongo (estimated population 11,700). These two towns lie 10 miles apart in a rural area of cutover rain forest in Eastern Sierra Leone. The attack rate in each town was 4.5 and 1.5 cases per 1,000, respectively. Cases occurred in all age groups:

Figure 1
CLINICAL CASES OF LASSA FEVER ADMITTED TO
PANGUMA AND TONGO HOSPITALS, BY MONTH OF ONSET
SIERRA LEONE – OCTOBER 1970-OCTOBER 1972



the attack rate for males was 1.7 cases per 1.000 and females, 2.7 cases per 1.000. Among women ages 20-29 years, the attack rate was 8.3 cases per 1.000. Among pregnant women, the case fatality ratio was 75% (6/8).

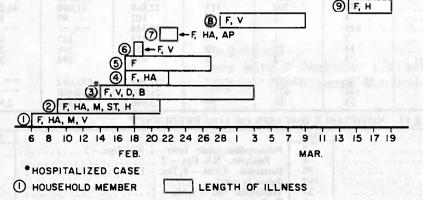
Fifty-four of the 64 cases were in patients who had no known direct or indirect contact with the Panguma or Tongo Hospitals in the month before they became ill. Five cases were in Panguma Hospital staff, and one was in a patient who fell ill during her hospitalization for routine delivery. Four others had visited the outpatient departments in the two hospitals prior to their illness.

Families of 35 cases were located and interviewed concerning febrile illness within 1 month of the index case. Intervals between primary and secondary cases of clinical disease compatible with Lassa Fever ranged from 3 to 14 days in these households. Fever with onset within 1 month of the Lassa Fever case and lasting 4 or more days was reported by 21% (19/92) of the persons sleeping in the same room as the person with clinical Lassa Fever and by 11% (34/304) of household members sleeping in different rooms. The difference is statistically significant. Intrafamilial spread of illness compatible with Lassa Fever was described by one family as follows:

On Feb. 2, 1972, a 36-year-old man from Faranah, Guinea, visited a family in Largo, 10 miles south of Panguma. On February 6, he had onset of fever, myalgia, headache, and vomiting (Figure 2). During his illness, a 28-year-old woman of the house prepared his food and washed his clothes. On February 9, she developed fever, headache, tinnitus, sore throat, neck pain, and back pain. On February 14, this woman's 7-year-old daughter became ill with fever, epistaxis, vomiting, diarrhea, and hematochezia and was hospitalized at Panguma Hospital on February 21 (one of the 64 cases in this report). Six other family members developed febrile disease in the next 4 weeks. All ill family members recovered.

In this and other families, there was clustering of disease in crowded bedrooms (Figure 3), suggesting further evidence of person-to-person spread. Of 14 persons sleeping in two rooms of seven persons each, eight became ill. Of eight per-

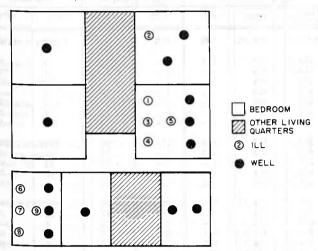
Figure 2
FEBRILE DISEASE IN HOUSEHOLD MEMBERS OF HOSPITALIZED LASSA FEVER CASE,
BY TIME AND SYMPTOMS – LARGO, SIERRA LEONE, FEBRUARY-MARCH, 1972



F-FEVER
HA-HEADACHE
M-MYALGIA
AP-ABDOMINAL PAIN
ST-SORE THROAT
V-VOMITING
D-DIARRHEA
H-HEARING DIFFICULTY

H-HEARING DIFFICULTY
B-ABNORMAL BLEEDING

Figure 3
BEDROOMS OCCUPIED BY ILL AND WELL
HOUSEHOLD MEMBERS
LARGO, SIERRA LEONE – FEBRUARY-MARCH 1972



sons living in the five bedrooms of three or fewer occupants, only one became ill. The difference is statistically significant.

Control measures which have been instituted in the epidemic area include prompt isolation of all patients at Panguma Mission Hospital who are suspected of having Lassa Fever. Gowns, gloves, and masks are worn by nurses and other staff working in the isolation ward, and gloves and masks are worn by laboratory personnel working with blood and urine specimens from isolated patients. Attempts are being made to identify and isolate all febrile family contacts of patients with suspected Lassa Fever. Severe suspect cases at the Panguma Mission Hospital are treated with plasma from survivors who have demonstrable complement-fixation titers against Lassa

virus. Some have shown a marked improvement after receiving this immune plasma, but statistical evidence of its efficacy has not been obtained.

(Reported by Dr. Mary Maher. Panguma Mission Hospital, Panguma; M. S. Ibrahim, S. N. Kamara, A. Kargbo-Reffell, Endemic Diseases Control Unit, Bo; Paul Goff, M.D., Peace Corps physician, Freetown; Dr. E. Cummings, F. A. Findlay, Dr. R. Beresford Cole, Ministry of Health, Freetown; Rockefeller Foundation, Yale Arbovirus Research Unit, New Haven; Arbovirology Section, Laboratory Division, CDC; and two EIS Officers.)

Editorial Note

The present epidemic of Lassa Fever in Sierra Leone is the largest yet reported. Unlike the previous nosocomial outbreaks in Nigeria and Liberia, it consists primarily of community-acquired infection. The epidemiologic investigation in Sierra Leone has produced evidence of family outbreaks of Lassa Fever in which spread has occurred among those with most intimate contact. Previous work has shown that ill patients carry Lassa virus in the pharynx and may excrete virus in the urine for several weeks after recovery (1). Either respiratory droplets or infected urine, therefore, may be the vehicle of spread of the virus in crowded sleeping quarters.

Lassa virus is antigenically related to the Tacaribe group of rodent-associated viruses, which include the lymphocytic choriomeningitis virus. Machupo virus, and Junín virus. No animal source of Lassa virus has yet been found, but the trapping of animals in the Sierra Leone investigation concentrated on rodents and may clarify the source of introduction of the virus into the human population.

Reference

1. Leifer E, Gocke DJ, Bourne H: Lassa fever, a new virus disease of man from West Africa. II. Report of a laboratory-acquired infection treated with plasma from a person recently recovered from the disease. Am J Trop Med Hyg 19:677-679, 1970

EPIDEMIOLOGIC NOTES AND REPORTS INFLUENZA — Colorado

During the week ending November 4, admissions to the hospital and quarters at Lowry Air Force Base, Colorado, exceeded their threshold level of 5 per 1.000. The illness responsible for this increase was characterized by sudden onsets of high fever, malaise, myalgias, headache, and cough. Men were moderately ill with illness lasting 2-3 days.

Throat washings from ill individuals grew an influenza A virus. Antiserum against an Australian influenza strain identical to A/England/42/72 inhibited hemagglutination of this virus to a greater extent than did antiserum against the Hong Kong/68 strain of virus.

(Reported by Robert A. Watson, Colonel, MSC, Director,

Base Medical Services, Lowry Air Force Base, Colorado; Gordon Meiklejohn, M.D., Professor, University of Colorado Medical School, Denver, Colorado; and Thomas M. Vernon, Jr., M.D., State Epidemiologist, Colorado State Department of Public Health.)

Editorial Note

This is the first documented influenza outbreak in the continental United States for the current season. Following patterns seen in other countries this year, the influenza A virus responsible for this outbreak is moderately different from previously isolated Hong Kong strains and most closely resembles the A/England/42/72 variant.

RUBELLA-LIKE ILLNESS - Arizona

Between Sept. 11 and Nov. 1, 1972, 29 persons from Greenlee County, Arizona, had onset of a rubella-like illness, characterized by rash, low grade fever, and slight catarrhal manifestations. Of the 29 patients, 21 were among 223 high school students, five were older siblings of these students, two were teachers, and one was an infant. Twenty-one patients (18 students, the two teachers, and the infant) were examined on October 13. Twelve of the 21 complained of joint pains, and eight had lymphadenopathy and exhibited a

light pink to red macular rash on the upper extremities. Results of rubella hemagglutination-inhibition tests and viral studies from throat washings and stool specimens obtained from these 21 patients are pending.

Epidemiologic investigation revealed that the index case in the community was a 20-year-old serviceman, home on leave from Fort Leonard Wood, Missouri. On September 11, he sought treatment for rash at a local hospital, and his illness

(Continued on page 392)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING NOVEMBER 11, 1972 AND NOVEMBER 13, 1971 (45th WEEK)

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*Delayed reports: Aseptic meningitis: W. Va. 1 Chickenpox: Me. 9, W. Va. 139, V.I. 4 Encephalitis, primary: Mont. 3

Hepatitis B: lowa 1

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING NOVEMBER 11, 1972 AND NOVEMBER 13, 1971 (45th WEEK) — Continued

AREA	MALARIA MEA			ASLES (Rube	ola)	MENINGO	COCCAL INI TOTAL	ECTIONS,	MU	MPS	RUE	BELLA
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Pennsylvania	1.50	20		63	1,926		39	72	14	780	2	270
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V Eginia	17 110	ģ	2	69	1,605	1	57	40	18	1,193		7
west Virginia *	. 4 - 311	2	2	298	538		8	11	24	2,514	2	418
North Carolina	-34	39	- 1	37	1,949	- 1	30	59	NN	NN	1	32
South Carolina Georgia	199	12 28		216 183	919 1,133		20 19	20 24	1	181		5
Florida	120	15	3	1,380	1,924		72	127	10	1,313	10	1,600
AST SOUTH CENTRAL		160	15		0 /12		91	181	33	3,182	19	1,59
wethracks.	2 2	168 146	3	1,071	8,412 3,962		28	53	9	482	11	884
rennessee	374	-	1	194	1,025	1	29	71	21	2,014	7	54:
Alabama Mississippi	- 11-235	18	-	154	1,954	- 1	20	31	3	566	- 1	5
	-20	4		185	1,471	100	14	26		120		113
VEST SOUTH CENTRAL	_0.00	85	32	1,609	12,628	2	139	171	74	5,257	34	1,656
Arkansas	1173	5	-	13	778	1	11 42	5 62	- 1	167 323		35
Oklahoma	and Ecol	6		99	1,701 757	=13 9	9	10	1	163		39
Texas	-129	68	32	1,487	9,392	1	77	94	73	4,604	34	1,48
OUNTAIN		49	20 F	1 026	2 /01	in the same	29	60	54	3,181	4	1,14
"''Unicana *	1	2	3	1,926	3,491 925	1	4	7	1	200		34
rustio .	-95	3	1 1	151	272	-	8	11	2	214	1	3-
Wyoming Colorado	201	1	-	51	85		1	2	16	275 768		52
New Mexico		31 3		534 127	836 399	275	5	7 5	1 16	634	1	11
OTIZODA I		7	2	888	631	- 1 - 3	1	8	18	905	2	39
Utah .	11-0	2	-	158	336	1	6	17	(i) 10	138	110.71	3
Nevada	ultin.		18 11	E 11 1	7		1	3	141	47		
ACIFIC	1 1	119	17	4,444	4,704	5	199	486	202	12,415	92	6,00
Washington	- 17	.1	1	983	1,070	- I- 3	17	30	43	3,825	12 8	87 41
Caultornia	1	11 92	6 10	141 3,209	377 2,720	5	14	39 407	17 134	1,733	72	4,63
A185Ka	11-16	3		13	56	-	8	1.0	5	153	44L=5	2
Hawaii	18	12	- 1	98	481	-	3	9	3	295	- 1	5
Uam	-									10		
uarn Perto Rico		2 5	28	16 836	581		13	10	3	10 889		1 3
irgin Islands		, ,	20	3	17		2	-	3	130	_	

*Delayed reports: Measles: N.H. 18, W. Va. 11 Meningococcal infections: Mont. 1 Mumps: Me. 2, W. Va. 27 Rubella: W. Va. 4

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING NOVEMBER 11, 1972 AND NOVEMBER 13, 1971 (45th WEEK) — Continued

		TB	THE DE	DADIE DO	TVD	HOID		S FEVER	VENEREA	L DISEASES	DAR	IES IN
AREA	TETANUS	(New Active)	TULA	REMIA		VER		BORNE potted fever)	GONOR- RHEA	SYPHILIS (Pri. & Sec.)	ANI	MALS
IN TO	1972	1972	1972	Cum. 1972	1972	Cum. 1972	1972	Cum. 1972	1972	1972	1972	Cun 197
UNITED STATES	4	615	2	115	14	324	3	512	15,745	565	53	3,5
IEW ENGLAND	ň	24	127	- 4	- 1	15	1 -	2	378	12	-	11
Maine		1 -		-		2	_		15 14	1 1		
Vermont	_	-11	-		-	_	_		1	_	_	
Massachusetts	- 134	11	1-1		11 = 13	11	-75	2	137	6	-	
Rhode Island		6 6	ΛΞ:		1	_ 2	-		46 165	- 4	T	
								20			2	
Upstate New York		114 9	_	1 -	1	52 15	1_	38	2,193 455	112	1	
New York City*	- 1	47	12.1	_		27	1 -1	2	873	74	_	14
New Jersey	- 10	30	-	1	1	6	-	15	325	21		
Pennsylvania *		28	-			4	1	15	540	8	1	
AST NORTH CENTRAL	1 1	100	11-51	³ - 1	- 100	22	-16	27	1,930	43	- 5	
Ohio*	T - T	29	151	1	-	7	- 1	23	613	2	-	
Illinois		7 20	_	_	_	- 6		3	425 171	15	1	1.0
Michigan		25	-	_	977	7		3	480	24	<u> </u>	
Wisconsin	1 17	19	-		-101	2	-	1	241	2	4	
ST NORTH CENTRAL	100 L 100	16	2	28	210	8		20	791	2	23	1,
Minnesota	-	7	_	-	-	1	-	_	197	2	13	-
lowa	P	1	-	-	-		-	2	110		2	
Missouri		1	-	21	-	3	-	11	248		_	
North Dakota *		1	<u>-</u>	1 1	_	_		- 4	12 29		6	
Nebraska					1 10	1			94		_	
Kansas		6	2	5	1-1	3	1 -	3	101	0 -	2	
UTH ATLANTIC	41 20	113	_	10	1	41	1	254	4,558	162	6	um)
Delaware		2	_	'-	_			1	32	1	_	
Maryland		10	-	1		9	-	31	282	10	1	
District of Columbia	- 1	6	-		-	3		1	418	16		
Virginia		24 3	<u> </u>	7	-	11	1.5	56 3	455	68	1	
North Carolina *	- 50	22	1-12	= =	-	E -C	1	119	54 573	10		
South Carolina	- - 111	10	-		7	3	-	20	1,022	13	_	- 10
Georgia	- De	12 24	-	1 1	1	4 10		22 1	620 1,102	24 20	2 2	
		49		8	_	39		98	1,413	105	4	
ST SOUTH CENTRAL	_	8	-	-		13	_	4	138	82	1	
Tennessee	10	14	-	7		11		60	612	14	2	
Alabama	-	11 😿	-5	1	-,67	10		19	390	2	1	
Mississippi	-	16	-11		-110	5	11-	15	273	7	_	
ST SOUTH CENTRAL	3	89	-6	53	-	40	1	62	1,615	47	10	7.03
Arkansas	1	17		29	- 1	13		15	177	-	-	
Louisiana *		14 8	_	11		7	1	34	279 107	10	2	
Texas *	2	- 50		9		17	1	13	1,052	33	8	
										i		
UNTAIN	H - W	22	-	10	1	12	1 - 1	9	579	-11	-	-
Montana	_ [J	1	_	1	=	1 1 5		6	48 59		A I	
Wyoming	<u>-</u> 157		_					_	10	1		
Colorado	-	2	-	1	1	2	-	-	221	2	·	
New Mexico	- 1	6	-	-	- 1	1	-		75	-		144
Arizona *		12	_	6	5111	7 2		1	122 29	8 –	_ [7010
Nevada	2 Ja	- E T	<u> </u>	-	_	_			15		Ξ.	116
				,	1.	0.5		,	2 200	71	3	
CIFIC		88 8	-	4	11	95 2		2 1	2,288 290	- 1		111
Oregon	- 0	5	_	1		-		1	192	I	i -	160
California	F - W	71	-	2	10	89	11 1- ju	ш-ш	1,727	69	3	-31
Alaska	_	-	1	1 -	- 1	4		-	28 51	_ 2	-	- 4
										eff.		
am		2	-	_	_	11-	1 - 5	1 -	2			
erto Rico	2	9	-	-	-	7		-	77	12	-	
gin Islands *			_		-				3	1 1	_	

*Delayed reports: TB: Ohio delete 1, N. Dak. delete 1, W. Va. 10, N.C. delete 2, La. delete 1 Gonorrhea: N.Y.C. 1,007, W. Va. 47, V.I. 8 Syphilis: N.Y.C. 66, W. Va. 2, Utah 1 Rabies in animals: Pa. 4, Tex. 3, Ariz. 1

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING NOVEMBER 11, 1972

Week No. 45

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

		All Causes		Pneumonia			11.11.11	Pneumonia	
Area	All Ages	65 years and over	Under 1 year	and Influenza All Ages	Area	All Ages	65 years and over	Under 1 year	and Influenza All Ages
			100		SOUTH ATLANTIC	1,230	662	79	53
NEW ENGLAND	689	435	26	39	Atlanta, Ga.	131	71	2	4
Boston, Mass.	213	131	10	10	Baltimore. Md.	231	130	7	5
ortageport, Conn.	32	18	1	3 6	Charlotte, N. C.	65	27	2	NO COL
Cambridge, Mass.	28 27	21 18	nt conta	0	Jacksonville. Fla.	74	42	4	2 7
Fall River, Mass. Hartford, Conn.	53	32	23	4	Miami, Fla.	107 61	54 30	6	6
Lowell, Mass.	24	14	21/2	2	Norfolk. Va	88	53	4	6
Lynn, Mass	20	15		3	Savannah. Ga.	31	19	5	5
New Bedford Mass	33	21	11	=	St. Petersburg, Fla.	93	73	- 1	7
Haven Conn	42	24	2	1	Tampa, Fla.	76	43	3	2
"Tovidence R	65	33	3	8	Washington, D. C.	227	94	44	7
Somerville, Mass.	12	9	_		Wilmington. Del.	46	26	-	2
Springfield, Mass. Waterbury, Conn.	44 35	29 26	2	3	file and file	630	275	25	
Worcester, Mass.	61	44	5	1	EAST SOUTH CENTRAL	678 130	375 66	25 6	23
	01	THE PERSON	BUT I		Birmingham. Ala	43	21	3	4
MIDDLE ATLANTIC	3,353	2,006	97	124	Chattanooga. Tenn	42	30	home -	in the second
moany, N. Y	64	45	2	1	Louisville, Ky.	103	64	1	5
Allentown Pa	36	28	1	5	Memphis, Tenn.	162	90	3	3
Buffalo, N. Y.	153	82	10	18	Mobile, Ala.	65	31	6	1
Camden, N. J.	54	36	2	2	Montgomery, Ala.	43	28	2	4
Elizabeth, N. J. Erie, Pa	36	21	1		Nashville, Tenn.	90	45	4	4
Jersey City, N. J.	48 60	28 38	3 2	2	WEST SOUTH CENTRAL				
Newark, N. J.	70	35	2	5 2	Austin, Tex.	1,183	651	67	39
New York City N V +	1,542	952	30	48	Baton Rouge, La.	45 39	33 18	2	2
raterson, N I	53	26	3	7	Corpus Christi. Tex.	24	15	-	43735
unadelphia Po	598	343	15	4	Dallas, Tex.	167	79	6	2
""ISDUIGH Pa	249	132	10	18	El Paso, Tex.	40	27	3	3
Reading, Pa.	53	35	2	3	Fort Worth, Tex.	94	50	3	5
Rochester, N. Y.	116	71	4	1	Houston, Tex.	229	110	13	4
Schenectady, N. Y. Scranton, Pa.	20	12	mb es	Sample S. N.	Little Rock. Ark.	57	34	7	7
Syracuse N. V.	22	13	1		New Orleans, La.	146	83	110	3
Syracuse, N. Y. Trenton, N. J.	84 40	49 24	3	1	Oklahoma City. Okla. *	84	50	5	2
orica, N. V	29	20	1	4	San Antonio, Tex.	122	63	13	2 3
Yonkers, N. Y.	26	16		2	Tulsa. Okla.	67 69	42	3 1	5
				43.0	Open and the second				THE RESERVE
EAST NORTH CENTRAL Akron, Ohio	2,495	1,476	99	71	MOUNTAIN	550	307	24	24
Million Ohio	57	41		-	Albuquerque, N. Mex.	61	35		6
CIICARO. III	41 710	30 404	30	17	Colorado Springs, Colo	29 147	13 88	1 9	3 5
Concinnati, Ohio	182	117	6	2	Las Vegas, Nev.	19	9		1
Greeland Ohio	177	97	8	i	Ogden. Utah	13	9	-	-
Columbus Ohio	139	77	4	2	Phoenix. Ariz.	113	54	6	185-1
Jaylon, Ohio	122	71	3	5	Pueblo, Colo.	29	18	632	5
Detroit, Mich.	325	188	18	6	Salt Lake City, Utah	72	37	5	HTQARE
Evansville, Ind. Fort Wayne, Ind.	35	27	-	2	Tucson, Ariz.	67	44	2	2
Gary. Ind.	72	40	5	7	PACIFIC			HE SHIPSHIP	0.54,501
Grand Rapids Mich	37	22	1	3	PACIFIC	1,603	952	55	28
"dianapolis, Ind.	66 147	41 80	1 4	5	Fresno. Calif.	26	17	-	_
madison. Wis	28	17	2	4	Glendale, Calif.	50	31	3	4447
"all Waukee Wis	105	65	1	4	Honolulu, Hawaii	13 48	17	4	1
cona, III	10	6	_	100	Long Beach, Calif	102	61		1
Norkford, III.	35	25	4	4	Los Angeles, Calif	508	321	21	11
South Bend, Ind	29	19	1	1	Oakland, Calif.	81	51	5	2
Foledo, Ohio	102	64	8	na 1	Pasadena, Calif	36	28	-	-
Youngstown, Ohio	76	45	3	1	Portland, Oreg	129	75	3	1
WEST NORTH CENTRAL	834	539	36	8	San Diego, Calif.	62 100	33 60	3	1
	61	45	2	1	San Francisco, Calif.	157	84	5	6
Tuluth, Minn	23	15	ī	2	San Jose, Calif	44	29	2	-
Talisas City Kans	39	26	4	4	Seattle, Wash	137	68	4	1
III Mo	123	67	3	3	Spokane, Wash,	65	41	i	3
-iicuin Nehr	39	29	3	1	Tacoma, Wash	45	27	2	1
Minneapolis, Minn. Omaha, Nebr.	93	64	4	1	Total	12,615	7,403	508	409
Luuis Mo	99	66	6	-	Total		ļ		
" raul. Minn	225	148	10	2	Expected Number	12,566	7,220	556	429
Wichita, Kans.	73 59	42 37	3	3	Cumulative Total (includes reported	E60 010	224 400	22 520	21 067
See	79	3/			corrections for previous weeks)	569,218	331,190	22,539	21,867

thelayed report for week ended Nov. 4, 1972 Estimate based on average percent of divisional total

RUBELLA - Continued

was diagnosed as rubella. On September 26, his brother, a 17-year-old high school student, visited the same hospital and was found to have a rash which was also diagnosed as rubella.

There has been no reported spread of the disease to children 1 to 13 years of age or to pregnant women. An immunization survey of 496 school children 5 to 13 years of age showed that 15 had not been vaccinated against rubella. (Reported by Robert V. Horan, M.D., Health Officer, Greenlee County; Philip M. Hotchkiss, D.V.M., Division Director, Epidemiology and Acute Disease Control, Arizona State De-

partment of Health; and a Public Health Advisor, Immunization Branch, State and Community Services Division, CDC.) Editorial Note

Prior to the introduction of vaccine, rubella outbreaks occurred occasionally in junior and senior high school students. These can be expected to continue for several years until children vaccinated at a younger age reach high school. The most significant fact about this outbreak is that there was no extensive spread of rubella in the community because of high levels of immunization in pre-pubertal children. Furthermore, no exposures to susceptible pregnant women were documented.

INTERNATIONAL NOTES CHOLERA

Worldwide

As of Oct. 31, 1972, there has been no extension of cholera into countries not previously infected. The number of cases reported this year is some 90,000 fewer than for the corresponding period in 1971. Eighteen countries in Africa and 14 in Asia have reported approximately 53,000 cases and 6,600 deaths in the first 10 months of 1972. Unofficial reports of minor outbreaks in some previously infected territories have not been confirmed by official sources. Despite incomplete reporting, it appears that the cholera situation in general has been calmer than in 1971.

Imported Cholera - Australia, New Zealand

In Australia, an imported case of cholera, *V. cholerae*, biotype El Tor, serotype Inaba, was reported on Nov. 7, 1972. The patient was a passenger on an international flight

which arrived in Sydney on November 4. Food taken on board at an airport in transit is believed to be a possible source of infection. Nine additional passengers are under investigation. In New Zealand, three cases of suspected cholera, one of which was fatal, have been imported. The three persons were passengers on the same international flight into Sydney reported by the Australian Health Administration.

The attention of health administrations is drawn to the fact that no part of Australia or New Zealand should be considered as infected on the basis of the importation of a cholera case or cases. The last case of cholera imported into Australia was in December 1969. There were no secondary cases.

(Reported by the World Health Organization: Weekly Epidemiological Record, Vol. 47, No. 45.)

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Director, Center for Disease Control Director, Epidemiology Program, CDC Editor, MMWR

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The data in this report are provisional, based on weekly telegraphs to CDC by 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.

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting outbreaks or case investigations of current interest to health officials.

Address all correspondence to:

Center for Disease Control Attn: Editor Morbidity and Mortality Weekly Report Atlanta, Georgia 30333

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION CENTER FOR DISEASE CONTROL ATLANTA, GEORGIA 30333

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