



Morbidity and Mortality

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

EPIDEMIOLOGIC NOTES AND REPORTS

DIPHTHERIA - Louisiana

From September 1 to November 11, 1967, 39 cases of diphtheria were reported to the Louisiana State Department of Health. All but one of the cases have been confirmed by culture; the patient with the unconfirmed case has a sister who had a positive culture. Nineteen of the isolates have been characterized so far, with all but one being virulent mitis types.

Thirty-one of the cases occurred in the metropolitan New Orleans area, with 20 in Orleans Parish and 11 in Jefferson Parish. Some of the cases in Orleans Parish were clustered in two areas, the "Irish Channel" in up-town New Orleans and the Fischer Housing Project in Al-

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giers on the west bank of the Mississippi River. Both of these are in lower socioeconomic sections. However, the majority of cases has occurred sporadically throughout the city with two or three cases in a family or neighborhood.

Ages have ranged from 7 months to 46 years, with 33 cases less than 10 years of age. A 46-year-old man had an extremely mild case of pharyngeal diphtheria. Only five of

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	45th WEEK ENDED		MEDIAN 1962 - 1966	CUMULATIVE, FIRST 45 WEEKS		
	NOVEMBER 11, 1967	NOVEMBER 12, 1966		1967	1966	MEDIAN 1962 - 1966
Aseptic meningitis	72	40	40	2,665	2,622	1,862
Brucellosis	2	3	3	214	216	317
Diphtheria	15	2	5	141	171	233
Encephalitis, primary:						
Arthropod-borne & unspecified	25	23	---	1,422	1,903	---
Encephalitis, post-infectious	1	6	---	689	652	---
Hepatitis, serum	57	38	672	1,917	1,240	33,084
Hepatitis, infectious	724	598	3	33,251	27,682	93
Malaria	46	11	3	1,796	417	366,988
Measles (rubeola)	260	830	1,606	59,879	194,397	2,408
Meningococcal infections, total	22	42	42	1,911	3,023	---
Civilian	20	36	---	1,790	2,736	---
Military	2	6	---	121	287	---
Poliomyelitis, total	4	4	4	33	87	104
Paralytic	1	4	4	26	82	83
Rubella (German measles)	275	251	---	41,815	43,580	---
Streptococcal sore throat & scarlet fever	7,840	7,208	6,712	383,882	361,245	336,112
Tetanus	4	2	6	193	168	242
Tularemia	—	2	2	150	158	253
Typhoid fever	6	3	9	364	338	400
Typhus, tick-borne (Rky. Mt. spotted fever)	—	5	3	293	239	217
Rabies in animals	66	45	56	3,736	3,527	3,527

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Rabies in man:	2
Botulism:	2	Rubella, Congenital Syndrome: Ore.-1	7
Leptospirosis, Md.-1, Tenn.-1	37	Trichinosis: Wash.-1	53
Plague:	2	Typhus, murine: Tex.-1	40
Psittacosis: NYC-2	40	Polio, Unsp. Calif.-3	7

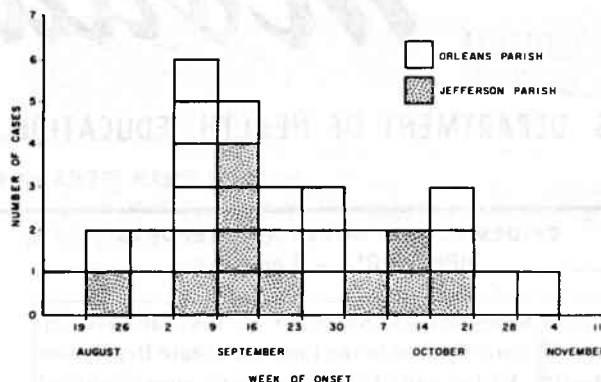
DIPHTHERIA - Louisiana (Continued from front page)

the cases had a record of adequate immunization. Two deaths occurred in children, ages 2 and 10. The 2-year-old boy was reported to have had a history of immunization, but no record was available. The 10-year-old girl was from Lafayette Parish where only one other diphtheria case has occurred this year. Last fall in this Parish there was an outbreak of 21 cases followed by a mass immunization campaign. This patient's only diphtheria immunization had been given during the mass campaign.

Intensive immunization campaigns have been conducted by the New Orleans Health Department in both areas where cases were clustered. The Jefferson Parish Health Unit has completed a parish-wide school immunization program.

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

Figure 1
DIPHTHERIA IN THE METROPOLITAN NEW ORLEANS AREA
FALL 1967



GUILLAIN-BARRÉ SYNDROME CONFUSED WITH BOTULISM AND MYASTHENIA GRAVIS

A previously healthy and active 47-year-old man developed the sudden onset of fever and diarrhea on October 24 that lasted 2 days. He was asymptomatic until November 1 when he noticed fatigue and general weakness. The next day he consulted his physician because of shoulder and pelvic muscular weakness, and slight difficulty swallowing and speaking.

He was admitted to a local hospital on November 3 when he had developed increased difficulty swallowing, speaking, and walking. On physical examination the patient had normal blood pressure, pulse, respiratory rate, and temperature. There was weakness of the pharyngeal, laryngeal, shoulder, and pelvic muscles, but deep tendon reflexes were normal. Complete blood count, urinalysis, and serum chemistries and enzymes were normal. Spinal fluid pressure, cells, and protein were within the normal range. Over the next few days, bilateral facial paralysis developed, and the limited muscular weakness evolved into a total flaccid paralysis. However, there was no impairment of respiratory function or of extrinsic eye muscles. The patient had no sensory impairments, muscular pain, or fasciculations.

A diagnosis of myasthenia gravis was considered, but ruled out because of absence of muscular fatigability and failure of the patient to improve when given physostigmine or Tensilon^R. The diagnosis of botulism was also considered; however, no history of recent ingestion of fish or home-canned products could be elicited. Serum drawn 5 days after admission showed no evidence of toxin-like activity when injected into mice. Administration of types A, B, and E botulinum antitoxin produced no improvement.

One week after the onset of symptoms the patient began to complain of cramps in the legs; a repeat spinal fluid examination at this time showed an elevated protein

of 75 mg. percent. The patient's condition continued to deteriorate and he died on November 11. The final diagnosis was Guillain-Barré Syndrome.

(Reported by J. T. Herron, M.D., State Health Officer, Arkansas State Board of Health; and an EIS Officer.)

Editorial Comment:

This patient posed a difficult differential diagnosis. Myasthenia gravis, which may present with bulbar signs and proximal muscular weakness, usually requires at least several weeks to develop although it can evolve over a few days in rare cases.¹ The lack of muscular fatigability and the negative Tensilon^R test rule against this diagnosis.

The clinical course could be compatible with botulism, but cranial nerve signs including extraocular muscular weakness are usually fully developed before peripheral muscular weakness develops. The muscular cramps and the elevated spinal fluid protein are evidence against botulism.²

The Guillain-Barré Syndrome (also known as Landry Guillain-Barré Syndrome or infectious polyneuritis) classically presents as an ascending symmetrical paralysis, but the disease may appear with proximal muscular weakness and cranial nerve signs.³ The history of an antecedent illness, the development of leg cramps, and a rising spinal fluid protein strongly favor this diagnosis.

REFERENCES

- Garvin, John S.: Differential diagnosis of muscular weakness in myasthenia gravis, polymyositis and muscular dystrophy. *Med Clin N Amer* 49(1):189-202, 1965.
- Miller, Edward S.: "Botulism" in *Principles of Internal Medicine*, Edited by T. R. Harrison, McGraw Hill Book Co., New York, 1962.
- McFarland, H. R. and Heller, G. L.: Guillain-Barré disease complex: A statement of diagnostic criteria and analysis of 100 cases. *Arch Neurol* 14:196-201, 1966.

PERTUSSIS - Michigan

For the first 10 months of 1967, a total of 805 cases of pertussis was reported from Michigan. The city of Grand Rapids recorded 45 cases with information on age and vaccination status (Table 1). The clinical diagnosis of pertussis in the 45 cases was confirmed by positive cultures for *Bordetella pertussis*. Eighty percent of the cases occurred in persons over age 10, 75 percent of whom had prior vaccination. Although the size of the age groups cannot be estimated and exact age specific incidence rates cannot be calculated, the occurrence of pertussis in older age groups with a history of vaccination is unexpected.

The city of Detroit reported 567 cases of pertussis for this same period. Approximately 60 percent of patients in Detroit are preschool age. These cases may represent a lack of infant immunization in certain "core" low economic areas where the disease is presently epidemic in preschool children as well as in older children.

(Reported by George H. Agate, M.D., Chief of the Division of Epidemiology, and Grace Eldering, Sc.D., Bureau of

Table 1
Patients with Positive *Bordetella pertussis* Cultures
Grand Rapids and Surrounding Area
January 1 - September 18, 1967

Age	Vaccination History*		Total
	Yes	No	
< 1	0	2	2
1-4	2	2	4
5-10	3	0	3
11-15	15	0	15
16-20	9	0	9
> 20	3	9	12
Total	32	13	45

*Vaccination history obtained from mother or other family member, and not followed up for confirmation.

Laboratories, both with the Michigan Department of Public Health.)

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: BY REPORTING AREAS OCTOBER 1967 AND OCTOBER 1966 - PROVISIONAL DATA

Reporting Area	October		Cumulative January-October		Reporting Area	October		Cumulative January-October	
	1967	1966	1967	1966		1967	1966	1967	1966
NEW ENGLAND.....	34	38	300	391	EAST SOUTH CENTRAL.....	138	184	1,487	1,939
Maine.....	4	-	6	5	Kentucky.....	17	15	142	119
New Hampshire.....	2	2	9	10	Tennessee.....	31	28	252	257
Vermont.....	-	-	3	2	Alabama.....	76	105	784	1,091
Massachusetts.....	23	23	175	268	Mississippi.....	14	36	309	472
Rhode Island.....	1	4	27	25	WEST SOUTH CENTRAL.....	351	267	2,693	2,308
Connecticut.....	4	9	80	81	Arkansas.....	21	17	126	133
MIDDLE ATLANTIC.....	289	346	3,004	3,382	Louisiana.....	71	62	542	544
Upstate New York.....	32	26	258	317	Oklahoma.....	7	13	95	118
New York City.....	150	205	1,780	2,068	Texas.....	252	175	1,930	1,513
Pa. (Excl. Phila.).....	32	25	208	169	MOUNTAIN.....	58	53	498	372
Philadelphia.....	30	25	271	227	Montana.....	1	2	5	28
New Jersey.....	45	65	487	601	Idaho.....	-	7	16	12
EAST NORTH CENTRAL.....	297	327	2,666	2,735	Wyoming.....	1	-	13	-
Ohio.....	47	70	516	546	Colorado.....	3	2	55	37
Indiana.....	29	6	138	80	New Mexico.....	21	14	157	87
Downstate Illinois.....	4	9	122	152	Arizona.....	27	26	225	180
Chicago.....	79	102	806	883	Utah.....	-	1	7	9
Michigan.....	135	132	1,062	987	Nevada.....	5	1	20	19
Wisconsin.....	3	8	22	87	PACIFIC.....	134	135	1,485	1,451
WEST NORTH CENTRAL.....	45	39	294	353	Washington.....	8	3	47	35
Minnesota.....	8	6	45	30	Oregon.....	2	1	42	39
Iowa.....	6	11	37	66	California.....	123	126	1,386	1,345
Missouri.....	18	13	96	127	Alaska.....	1	2	3	10
North Dakota.....	-	-	4	5	Hawaii.....	-	3	7	22
South Dakota.....	4	-	31	27	U. S. TOTAL.....	1,844	1,881	17,748	18,135
Nebraska.....	3	5	34	44	TERRITORIES.....	84	92	771	842
Kansas.....	6	4	47	54	Puerto Rico.....	82	90	736	818
SOUTH ATLANTIC.....	498	492	5,321	5,204	Virgin Islands.....	2	2	35	24
Delaware.....	10	4	60	44	Note: Cumulative Totals include revised and delayed reports through previous months.				
Maryland.....	54	57	539	473					
District of Columbia.....	85	57	710	420					
Virginia.....	24	25	258	266					
West Virginia.....	4	6	20	60					
North Carolina.....	61	59	655	741					
South Carolina.....	57	63	684	744					
Georgia.....	73	62	821	843					
Florida.....	130	159	1,574	1,613					

FOR WEEKS ENDED

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			
					Primary including unsp. cases		Post- Infectious	Serum		Infectious	
	1967	1966			1967	1966	1967	1967	1966	1967	1966
UNITED STATES...	72	40	2	15	25	23	1	57	38	724	598
NEW ENGLAND.....	3	-	-	-	-	1	-	-	2	27	33
Maine.....	-	-	-	-	-	-	-	-	-	1	7
New Hampshire.....	1	-	-	-	-	1	-	-	-	-	2
Vermont.....	-	-	-	-	-	-	-	-	-	-	1
Massachusetts.....	2	-	-	-	-	-	-	-	1	17	9
Rhode Island.....	-	-	-	-	-	-	-	-	-	1	1
Connecticut.....	-	-	-	-	-	-	-	-	1	8	13
MIDDLE ATLANTIC.....	6	1	-	-	5	6	-	17	20	123	87
New York City.....	2	-	-	-	-	3	-	12	10	58	18
New York, up-State.....	1	-	-	-	2	1	-	-	3	13	22
New Jersey.....	1	-	-	-	-	-	-	2	5	20	19
Pennsylvania.....	2	1	-	-	3	2	-	3	2	32	28
EAST NORTH CENTRAL...	16	5	-	-	7	5	-	3	2	111	94
Ohio.....	5	1	-	-	6	1	-	-	-	37	24
Indiana.....	-	-	-	-	-	-	-	-	-	16	9
Illinois.....	4	2	-	-	-	2	-	1	2	32	21
Michigan.....	7	-	-	-	1	1	-	2	-	23	34
Wisconsin.....	-	2	-	-	-	1	-	-	-	3	6
WEST NORTH CENTRAL...	4	2	-	-	5	3	-	-	-	42	43
Minnesota.....	4	2	-	-	-	1	-	-	-	3	3
Iowa.....	-	-	-	-	-	1	-	-	-	5	7
Missouri.....	-	-	-	-	-	-	-	-	-	24	30
North Dakota.....	-	-	-	-	-	-	-	-	-	2	2
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	1	-	-	-	2	1
Kansas.....	-	-	-	-	5	-	-	-	-	6	-
SOUTH ATLANTIC.....	15	2	-	5	3	2	-	3	-	90	57
Delaware.....	-	-	-	-	-	-	-	-	-	2	-
Maryland.....	8	-	-	-	1	-	-	1	-	20	15
Dist. of Columbia..	2	-	-	-	-	-	-	-	-	1	2
Virginia.....	1	-	-	5	-	1	-	-	-	16	8
West Virginia.....	-	-	-	-	-	-	-	-	-	16	4
North Carolina.....	1	1	-	-	1	1	-	2	-	9	8
South Carolina.....	-	1	-	-	1	-	-	-	-	9	4
Georgia.....	-	-	-	-	-	-	-	-	-	6	7
Florida.....	3	-	-	-	-	-	-	-	-	12	9
EAST SOUTH CENTRAL...	4	4	1	-	1	1	-	-	-	46	32
Kentucky.....	1	3	-	-	1	-	-	-	-	21	14
Tennessee.....	2	-	-	-	-	1	-	-	-	17	10
Alabama.....	-	-	-	-	-	-	-	-	-	1	5
Mississippi.....	1	1	1	-	-	-	-	-	-	7	3
WEST SOUTH CENTRAL...	5	6	-	10	-	2	-	1	2	57	50
Arkansas.....	1	-	-	-	-	-	-	-	-	9	3
Louisiana.....	1	2	-	6	-	1	-	1	2	12	4
Oklahoma.....	-	3	-	-	-	-	-	-	-	1	2
Texas.....	3	1	-	4	-	1	-	-	-	35	41
MOUNTAIN.....	-	1	-	-	1	-</					

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
 FOR WEEKS ENDED
 NOVEMBER 11, 1967 AND NOVEMBER 12, 1966 (45th WEEK) - CONTINUED

AREA	MALARIA	MEASLES (Rubeola)		MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS			RUBELLA	
	1967	1967	Cumulative		1967	Cumulative		Total	Paralytic		1967
			1967	1966		1967	1966	1967	1967	Cum. 1967	
UNITED STATES...	46	260	59,879	194,397	22	1,911	3,023	4	1	26	275
NEW ENGLAND.....	2	11	896	2,434	-	74	139	-	-	-	56
Maine.....	-	6	245	260	-	3	12	-	-	-	17
New Hampshire.....	-	-	77	80	-	2	9	-	-	-	-
Vermont.....	1	-	42	302	-	1	4	-	-	-	2
Massachusetts.....	1	4	377	810	-	35	57	-	-	-	7
Rhode Island.....	-	-	62	72	-	4	17	-	-	-	5
Connecticut.....	-	1	93	910	-	29	40	-	-	-	25
MIDDLE ATLANTIC.....	7	38	2,404	18,238	2	312	382	-	-	5	17
New York City.....	-	5	486	8,340	-	54	61	-	-	1	5
New York, Up-State.....	2	7	613	2,585	1	78	106	-	-	1	5
New Jersey.....	5	21	545	1,899	-	103	107	-	-	-	5
Pennsylvania.....	-	5	760	5,414	1	77	108	-	-	3	2
EAST NORTH CENTRAL...	3	45	5,822	69,527	1	278	484	-	-	6	63
Ohio.....	-	2	1,168	6,388	-	90	138	-	-	-	7
Indiana.....	1	4	625	5,759	-	47	85	-	-	3	2
Illinois.....	1	7	1,058	11,447	1	60	88	-	-	-	5
Michigan.....	1	8	979	14,825	-	63	126	-	-	3	24
Wisconsin.....	-	24	1,992	31,108	-	18	47	-	-	-	25
WEST NORTH CENTRAL...	1	8	2,909	8,957	3	91	157	-	-	3	15
Minnesota.....	-	1	124	1,660	-	21	35	-	-	-	1
Iowa.....	-	1	764	5,358	-	18	22	-	-	1	10
Missouri.....	-	-	339	537	-	17	61	-	-	-	-
North Dakota.....	-	2	877	1,233	-	3	11	-	-	-	1
South Dakota.....	-	-	58	40	-	7	5	-	-	-	-
Nebraska.....	-	4	653	129	2	15	9	-	-	-	3
Kansas.....	1	-	94	NN	1	10	14	-	-	2	-
SOUTH ATLANTIC.....	14	20	7,109	15,602	1	364	512	-	-	2	27
Delaware.....	-	-	50	262	-	7	4	-	-	-	-
Maryland.....	1	-	169	2,121	-	50	49	-	-	1	4
Dist. of Columbia..	1	1	24	388	-	14	14	-	-	-	-
Virginia.....	-	5	2,227	2,213	-	42	66	-	-	-	3
West Virginia.....	-	7	1,444	5,412	-	35	35	-	-	-	14
North Carolina.....	12	1	917	519	1	72	131	-	-	1	-
South Carolina.....	-	1	512	660	-	30	53	-	-	-	-
Georgia.....	-	1	37	236	-	56	66	-	-	-	-
Florida.....	-	4	1,729	3,791	-	58	94	-	-	-	6
EAST SOUTH CENTRAL...	1	31	5,401	19,980	4	148	260	1	1	2	7
Kentucky.....	1	3	1,407	4,754	2	44	90	-	-	-	1
Tennessee.....	-	18	1,976	12,467	2	64	90	-	-	-	6
Alabama.....	-	9	1,345	1,725	-	26	56	-	-	-	-
Mississippi.....	-	1	673	1,034	-	14	24	1	1	2	-
WEST SOUTH CENTRAL...	1	53	17,853	25,346	1	237	410	-	-	8	1
Arkansas.....	-	-	1,404	979	-	33	36	-	-	1	1
Louisiana.....	-	-	156	99	1	95	152	-	-	-	-
Oklahoma.....	1	-	3,358	534	-	18	21	-	-	1	-
Texas.....	-	53	12,935	23,734	-	91	201	-	-	6	-
MOUNTAIN.....	1	15	4,793	12,273	2	39	91	-	-	-	18
Montana.....	1	-	319	1,871	1	5	5	-	-	-	-
Idaho.....	-	-	393	1,657	-	3	5	-	-	-	-
Wyoming.....	-	3	188	214	-	1	6	-	-	-	-
Colorado.....	-	3	1,606	1,348	-	13	49	-	-	-	12
New Mexico.....	-	7	598	1,150	1	5	10	-	-	-	-
Arizona.....	-	2	1,037	5,333	-	5	10	-	-	-	6
Utah.....	-	-	383	648	-	4	1	-	-	-	-
Nevada.....	-	-	269	52	-	3	5	-	-	-	-
PACIFIC.....	16	39	12,692	22,040	8	368	588	3	-	-	71
Washington.....	-	14	5,579	4,375	-	35	43	-	-	-	27
Oregon.....	1	6	1,676	2,005	3	30	37	-	-	-	6
California.....	7	18	5,116	14,930	5	288	486	3	-	-	31
Alaska.....	-	-	140	581	-	11	18	-	-	-	6
Hawaii.....	8	1	181	149	-	4	4	-	-	-	1
Puerto Rico.....	-	6	2,223	3,167	-	14	17	-	-	-	1

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED

NOVEMBER 11, 1967 AND NOVEMBER 12, 1966 (45th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967
UNITED STATES...	7,840	4	193	-	150	6	364	-	293	66	3,736
NEW ENGLAND.....	994	-	2	-	1	-	8	-	1	1	96
Maine.....	71	-	-	-	-	-	-	-	-	1	23
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	45
Vermont.....	66	-	-	-	-	-	-	-	-	-	22
Massachusetts.....	143	-	1	-	1	-	4	-	1	-	4
Rhode Island.....	86	-	-	-	-	-	1	-	-	-	2
Connecticut.....	628	-	1	-	-	-	3	-	-	-	-
MIDDLE ATLANTIC.....	161	-	13	-	1	-	37	-	35	2	91
New York City.....	2	-	7	-	-	-	18	-	-	-	-
New York, Up-State.....	118	-	1	-	1	-	10	-	9	2	75
New Jersey.....	NN	-	1	-	-	-	4	-	15	-	-
Pennsylvania.....	41	-	4	-	-	-	5	-	11	-	16
EAST NORTH CENTRAL...	791	1	22	-	12	-	40	-	22	16	358
Ohio.....	49	-	4	-	-	-	13	-	11	10	127
Indiana.....	234	-	3	-	2	-	11	-	1	3	81
Illinois.....	50	-	10	-	10	-	6	-	10	2	67
Michigan.....	351	1	4	-	-	-	8	-	-	-	22
Wisconsin.....	107	-	1	-	-	-	2	-	-	1	61
WEST NORTH CENTRAL...	433	-	16	-	21	-	20	-	4	15	873
Minnesota.....	15	-	5	-	-	-	2	-	1	3	172
Iowa.....	133	-	1	-	1	-	3	-	-	3	118
Missouri.....	12	-	8	-	8	-	9	-	1	1	156
North Dakota.....	132	-	-	-	-	-	-	-	-	4	150
South Dakota.....	48	-	1	-	2	-	-	-	-	-	116
Nebraska.....	60	-	-	-	-	-	4	-	2	2	60
Kansas.....	33	-	1	-	10	-	2	-	-	2	101
SOUTH ATLANTIC.....	777	-	40	-	10	1	56	-	116	7	454
Delaware.....	1	-	-	-	-	-	-	-	-	-	-
Maryland.....	196	-	-	-	-	-	2	-	21	-	3
Dist. of Columbia..	23	-	-	-	-	-	3	-	-	-	6
Virginia.....	243	-	9	-	-	-	6	-	28	2	193
West Virginia.....	152	-	1	-	2	-	2	-	1	-	60
North Carolina.....	23	-	7	-	-	-	4	-	46	-	3
South Carolina.....	6	-	1	-	2	-	10	-	5	-	2
Georgia.....	22	-	4	-	5	1	17	-	15	3	113
Florida.....	111	-	18	-	1	-	12	-	-	2	74
EAST SOUTH CENTRAL...	1,498	1	31	-	10	5	64	-	53	9	706
Kentucky.....	176	1	4	-	1	-	24	-	15	1	162
Tennessee.....	1,045	-	8	-	7	-	11	-	26	7	489
Alabama.....	175	-	11	-	-	-	12	-	12	-	45
Mississippi.....	102	-	8	-	2	5	17	-	-	1	10
WEST SOUTH CENTRAL...	727	2	48	-	79	-	37	-	42	13	829
Arkansas.....	2	-	5	-	46	-	12	-	14	-	105
Louisiana.....	3	-	4	-	8	-	14	-	2	-	66
Oklahoma.....	16	-	3	-	18	-	7	-	16	10	314
Texas.....	706	2	36	-	7	-	4	-	10	3	344
MOUNTAIN.....	1,147	-	2	-	10	-	20	-	9	-	110
Montana.....	43	-	-	-	1	-	2	-	-	-	-
Idaho.....	70	-	-	-	-	-	-	-	-	-	-
Wyoming.....	66	-	-	-	2	-	1	-	-	-	5
Colorado.....	689	-	1	-	1	-	12	-	9	-	10
New Mexico.....	110	-	1	-	-	-	2	-	-	-	34
Arizona.....	113	-	-	-	-	-	3	-	-	-	49
Utah.....	56	-	-	-	6	-	-	-	-	-	3
Nevada.....	-	-	-	-	-	-	-	-	-	-	9
PACIFIC.....	1,312	-	19	-	6	-	82	-	11	3	219
Washington.....	375	-	-	-	2	-	2	-	2	-	2
Oregon.....	159	-	1	-	1	-	3	-	3	-	4
California.....	663	-	14	-	3	-	74	-	6	3	213
Alaska.....	41	-	-	-	-	-	-	-	-	-	-
Hawaii.....	74	-	4	-	-	-	3	-	-	-	-
Puerto Rico.....	17	1	17	-	-	-	7	-	-	-	30

Morbidity and Mortality Weekly Report

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Week No.
45

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED NOVEMBER 11, 1967

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

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	734	446	36	34	SOUTH ATLANTIC:	1,153	574	40	75
Boston, Mass.-----	243	135	7	12	Atlanta, Ga.-----	128	57	5	9
Bridgeport, Conn.-----	44	34	10	1	Baltimore, Md.-----	265	128	3	19
Cambridge, Mass.-----	43	25	-	-	Charlotte, N. C.-----	54	26	4	3
Fall River, Mass.-----	31	20	-	2	Jacksonville, Fla.-----	63	30	-	1
Hartford, Conn.-----	57	24	2	4	Miami, Fla.-----	61	35	1	2
Lowell, Mass.-----	28	18	2	1	Norfolk, Va.-----	63	26	3	4
Lynn, Mass.-----	18	15	1	1	Richmond, Va.-----	91	40	7	7
New Bedford, Mass.-----	25	18	-	2	Savannah, Ga.-----	29	13	1	3
New Haven, Conn.-----	47	26	-	2	St. Petersburg, Fla.-----	70	60	2	1
Providence, R. I.-----	59	32	3	2	Tampa, Fla.-----	88	54	6	8
Somerville, Mass.-----	11	7	1	-	Washington, D. C.-----	200	84	6	15
Springfield, Mass.-----	52	37	5	4	Wilmington, Del.-----	41	21	2	3
Waterbury, Conn.-----	20	15	-	1					
Worcester, Mass.-----	56	40	5	2	EAST SOUTH CENTRAL:	583	324	32	18
MIDDLE ATLANTIC:	3,281	1,929	117	157	Birmingham, Ala.-----	123	63	2	2
Albany, N. Y.-----	60	37	-	1	Chattanooga, Tenn.-----	52	29	4	2
Allentown, Pa.-----	36	23	1	2	Knoxville, Tenn.-----	32	18	8	1
Buffalo, N. Y.-----	134	85	2	8	Louisville, Ky.-----	105	64	12	3
Camden, N. J.-----	45	27	2	1	Memphis, Tenn.-----	115	64	2	7
Elizabeth, N. J.-----	27	14	1	2	Mobile, Ala.-----	39	22	-	2
Erie, Pa.-----	46	24	4	2	Montgomery, Ala.-----	25	16	1	-
Jersey City, N. J.-----	75	44	6	2	Nashville, Tenn.-----	92	48	3	1
Newark, N. J.-----	109	40	5	26	WEST SOUTH CENTRAL:	1,165	593	32	70
New York City, N. Y.-----	1,627	958	57	61	Austin, Tex.-----	58	30	7	4
Paterson, N. J.-----	35	15	1	2	Baton Rouge, La.-----	49	26	1	3
Philadelphia, Pa.-----	503	295	11	23	Corpus Christi, Tex.-----	43	22	-	2
Pittsburgh, Pa.-----	185	113	5	8	Dallas, Tex.-----	149	74	1	10
Reading, Pa.-----	54	39	5	2	El Paso, Tex.-----	28	13	2	7
Rochester, N. Y.-----	112	74	10	8	Fort Worth, Tex.-----	75	42	4	6
Schenectady, N. Y.*-----	27	16	1	1	Houston, Tex.-----	220	93	5	8
Scranton, Pa.-----	44	28	4	2	Little Rock, Ark.-----	46	28	2	2
Syracuse, N. Y.-----	59	32	-	1	New Orleans, La.-----	172	78	2	9
Trenton, N. J.-----	44	23	-	2	Oklahoma City, Okla.-----	89	48	1	3
Utica, N. Y.-----	26	20	1	-	San Antonio, Tex.-----	121	68	2	6
Yonkers, N. Y.-----	33	22	1	3	Shreveport, La.-----	43	26	2	3
EAST NORTH CENTRAL:	2,526	1,425	79	132	Tulsa, Okla.-----	72	45	3	7
Akron, Ohio-----	47	29	-	1	MOUNTAIN:	373	201	20	27
Canton, Ohio-----	40	26	3	1	Albuquerque, N. Mex.-----	30	15	7	1
Chicago, Ill.-----	791	434	31	49	Colorado Springs, Colo.-----	19	12	3	1
Cincinnati, Ohio-----	137	82	4	11	Denver, Colo.-----	94	46	4	9
Cleveland, Ohio-----	157	92	-	3	Ogden, Utah-----	14	8	1	-
Columbus, Ohio-----	125	61	4	5	Phoenix, Ariz.-----	93	43	1	9
Dayton, Ohio-----	71	43	2	2	Pueblo, Colo.-----	26	21	2	1
Detroit, Mich.-----	339	176	5	11	Salt Lake City, Utah-----	42	26	-	2
Evansville, Ind.-----	46	26	1	1	Tucson, Ariz.-----	55	30	2	4
Flint, Mich.-----	47	22	4	6	PACIFIC:	1,570	899	47	67
Fort Wayne, Ind.-----	48	32	6	2	Berkeley, Calif.-----	17	10	-	-
Gary, Ind.-----	43	24	2	4	Fresno, Calif.-----	40	26	1	3
Grand Rapids, Mich.-----	41	31	3	2	Glendale, Calif.-----	29	21	3	1
Indianapolis, Ind.-----	140	74	2	8	Honolulu, Hawaii-----	40	21	2	4
Madison, Wis.-----	54	32	-	3	Long Beach, Calif.-----	81	53	1	-
Milwaukee, Wis.-----	145	96	-	6	Los Angeles, Calif.-----	496	285	20	9
Peoria, Ill.-----	38	24	-	4	Oakland, Calif.-----	95	56	1	2
Rockford, Ill.-----	33	20	4	2	Pasadena, Calif.-----	33	23	1	3
South Bend, Ind.-----	20	13	-	1	Portland, Oreg.-----	114	67	4	6
Toledo, Ohio-----	103	57	8	8	Sacramento, Calif.-----	67	40	-	2
Youngstown, Ohio-----	61	31	-	2	San Diego, Calif.-----	108	50	2	10
WEST NORTH CENTRAL:	789	504	26	41	San Francisco, Calif.-----	184	93	2	11
Des Moines, Iowa-----	59	40	2	4	San Jose, Calif.-----	34	25	1	4
Duluth, Minn.-----	28	19	-	1	Seattle, Wash.-----	133	74	8	8
Kansas City, Kans.-----	42	22	4	5	Spokane, Wash.-----	60	30	1	4
Kansas City, Mo.-----	112	70	1	3	Tacoma, Wash.-----	39	25	-	-
Lincoln, Nebr.-----	15	12	1	-	Total	12,174	6,895	429	621
Minneapolis, Minn.-----	115	78	3	3	Cumulative Totals including reported corrections for previous weeks				
Omaha, Nebr.-----	73	39	3	3	All Causes, All Ages-----	552,094			
St. Louis, Mo.-----	225	138	6	17	All Causes, Age 65 and over-----	314,762			
St. Paul, Minn.-----	80	59	1	3	Pneumonia and Influenza, All Ages-----	19,269			
Wichita, Kans.-----	40	27	5	2	All Causes, Under 1 Year of Age-----	28,098			

*Estimate - based on average percent of divisional total.

INTERNATIONAL NOTES QUARANTINE MEASURES

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

Section 4 — Page 22

Paragraph 1, line 4 insert (page 11).

Section 5

AMERICA

French Guiana — Page 45

Under yellow fever, delete previous information and insert: Yellow fever vaccination required, 1 year of age and over, except travelers arriving from non-infected areas and staying less than 2 weeks in French Guiana.

ASIA

Iraq — Page 57

Delete the note after smallpox.

Saudi Arabia — Page 61

CHOLERA

Delete the information after cholera. Insert: Cholera. All arrivals* are required to possess a certificate showing 2 injections at not less than 7 days' and not more than 30 days' interval.

In addition, arrivals from countries any parts of which are infected are required to submit a certificate, dated not more than 7 days before their departure, recording the negative results of stool culture. This certificate must be delivered by a licensed laboratory and attested to by the health authority.* Arrivals from these countries must further possess a certificate showing that prior to arrival they spent 5 days in an area free of cholera (time spent on board a vessel may be considered as a period spent in a cholera-free area).*

YELLOW FEVER

Under yellow fever add, "Certificate also required of those coming from a country when only part of that country is included in the endemic zone.*"

The following changes should be made in the list of Yellow Fever Vaccination Centers in Section 6:

Page 84

Under Imperial County Health Center, El Centro, California, delete, Extension 263 and insert 265. Under Clinic Hours, delete Friday, 2 p.m., and insert "By appointment."

Summary — Page 119

I. Immunizations Needed for

Insert "(Southern)" after Asia.

*Conformity of these measures with the Regulations may be open to question and the World Health Organization is in communication with the health administration concerned.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION 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 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
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.

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