

MMWR

MORBIDITY AND MORTALITY WEEKLY REPORT

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International Notes

Cholera in 1975 — Worldwide

There has been a decrease in the number of countries reporting cholera—from 36 in 1974 to 29 in 1975, the smallest number since 1971 (Table 1). The extension of cholera was confined to only one new country in Africa (Comoros) in 1975. The total number of cholera cases reported to WHO (87,475) also showed a decrease of approximately 12,000 as compared with the previous year. The overall case-fatality rate has also shown a remarkable decline as compared with earlier years probably due to national and international efforts in disseminating knowledge of modern treatment methods and in making available essential supplies.

In Africa, the number of countries reporting cholera decreased from 19 in 1974 to 14 in 1975 (Table 2). The region also showed a considerable reduction in the number

of cases. In Asia, almost all the countries reporting cholera in 1974 were again affected in 1975; in addition, the infection reappeared in the Syrian Arab Republic, which had remained free since 1972. A marked decrease in the number of cases was noted in Sri Lanka. Cholera continued to occur in epidemic proportions in Portugal, and several indigenous cases were reported by Spain. Otherwise, in Europe only isolated imported cases were notified to WHO. The Americans and Oceania remained free of infection in 1975, but efforts continued to alert national health administrations to the possibility of extension of the infection to these areas.

Reported by the World Health Organization in the Weekly Epidemiological Record 51(18):137-138, April 30, 1976.

TABLE 1. Global cholera situation, 1971-1975¹

	1971	1972	1973	1974	1975
No. of countries infected ²	36	34	31	36	29
No. of cases	155,555	69,141	108,989	99,141	87,475

¹Data sources: *World Health Statistics Report* 25(4), 1972; 26(4), 1973; 27(3-4), 1974; 28(3), 1975. 1974 and 1975: provisional figures.

²Excluding those with imported cases only, and the United States of America in 1973 and France in 1975.

TABLE 2. Cases of cholera notified to WHO, 1975

Countries and Areas	Total	Countries and Areas	Total
AFRICA		ASIA	
Algeria	16	Bangladesh	4,888
Angola	88 ^a	Burma	2,895
Benin	29	Democratic Kampuchea	66 ^b
Cape Verde	20	India	20,714
Comoros	2,675	Indonesia	48,387
Ghana	170	Japan	(3) ⁱ
Kenya	1,093	Kuwait	(3) ⁱ
Liberia	704	Malaysia	
Mozambique	11	Sarawak	62
Nigeria	156	West Malaysia	48
Southern Rhodesia	615	Nepal	260
Uganda	(3) ⁱ	Philippines	680
United Republic of Cameroon	3	Republic of South Viet-Nam	5 ^c
Upper Volta	3	Singapore	10
Total	5,586^{(3) i}	Sri Lanka	1,453
		Syrian Arab Republic	67
		Thailand	1,335
		Yemen	1
		Total	80,877^{(6) i}
EUROPE		WORLD TOTAL	87,475^{(20) i}
France	10 ^{(9) i}		
Italy	(1) ⁱ		
Portugal	989		
Spain	11		
United Kingdom	(1) ⁱ		
Total	1,012^{(11) i}		

^aPeriod January to September

^bPeriod 4 January to 2 February

^cPeriod 4 January to 12 April

ⁱImported cases; number of imported cases in parentheses

*Epidemiologic Notes and Reports***Rubella Among Basic Trainees – South Carolina**

At Fort Jackson, South Carolina, 808 patients with rubella-like illness were hospitalized in 1974, 511 in 1975, and 320 in the period January 1-May 1, 1976. Paired sera, collected from a representative sample of these patients, have consistently confirmed the diagnosis. Cases in males have outnumbered those in females by 2.8:1; males outnumber females on the base by approximately 4:1. No major complications of rubella (persistent arthritis, encephalitis) have been observed.

Recruits from Puerto Rico accounted for a disproportionately large percentage of the cases. During the period January 1-June 1, 1974, 140 cases (23%) occurred in this group (28 cases per month). During this same period, these recruits constituted only 7% of the trainees. Rubella HI testing revealed 88% to 96% of recruits from the continental U.S. to be immune (HI titer $\geq 1:10$), compared with only 65% of male recruits from Puerto Rico (Table 3). Since September 1, 1974, all incoming male recruits from Puerto Rico were given rubella vaccine. In the period September 1974-May 1976, 33 cases of rubella occurred in this group (1.7 cases per month). Many of these cases oc-

TABLE 3. Surveys of rubella seroimmunity among basic trainees, Fort Jackson, South Carolina, 1974-75

Group	Home of Record	Number Tested	Percent Immune (HI titer $\geq 1:10$)
Male Basic Trainees	Continental U.S.	45	93
Male Basic Trainees	Puerto Rico	63	65
Female Basic Trainees	Continental U.S.	2,288	88

curred within one incubation period of the date of vaccination; others occurred later and may represent vaccine failure. Because of the morbidity and time lost from training, beginning January 16, 1976, all incoming male basic trainees received vaccine.

On April 21, 1975, an ongoing program was initiated for the selective vaccination of incoming female recruits. Vaccine is offered to susceptible, non-pregnant women. From April 21, 1975 to March 1, 1976, 1,671 susceptible women were identified; 569 (34%) received rubella vaccine.

Reported by SJ Vaeth, MAJ, MC, USA, JF John, MAJ, MC, USA, JP Canby, COL, MC, USA, Moncrief Army Hospital, Fort Jackson, SC.

Table I. Summary—Cases of Specified Notifiable Diseases: United States

[Cumulative totals include revised and delayed reports through previous weeks]

DISEASE	27th WEEK ENDING		MEDIAN 1971-1975	CUMULATIVE, FIRST 27 WEEKS		
	July 10, 1976	July 5, 1975		July 10, 1976	July 5, 1975	MEDIAN 1971-1975
Aseptic meningitis	62	93	80	1,021	1,150	1,131
Brucellosis	6	3	3	121	108	81
Chickenpox	1,345	1,380	---	142,202	111,726	---
Diphtheria	—	—	—	114	192	100
Encephalitis	Primary	8	12	395	351	434
	Post-Infectious	12	8	147	171	159
Hepatitis, Viral	Type B	205	129	7,513	5,754	4,795
	Type A	478	576	18,172	18,288	26,311
	Type unspecified	151	163	4,635	4,210	---
Malaria	11	6	9	195	162	162
Measles (rubeola)	593	350	347	32,331	19,568	22,722
Meningococcal infections, total	26	15	20	965	857	857
Civilian	26	15	19	958	840	862
Military	—	—	1	7	17	23
Mumps	341	708	760	30,449	43,139	50,874
Pertussis	5	23	---	465	662	---
Rubella (German measles)	138	98	141	9,979	14,081	19,327
Tetanus	—	1	1	21	38	39
Tuberculosis	667	601	---	17,337	16,927	---
Tularemia	2	—	3	63	60	67
Typhoid fever	11	7	7	171	152	158
Typhus, tick-borne (Rky. Mt. spotted fever)	34	31	27	314	323	282
Venereal Diseases:						
Gonorrhea	18,082	19,326	---	501,147	489,144	---
Civilian	906	593	---	14,985	15,336	---
Military	332	418	---	12,570	13,155	---
Syphilis, primary and secondary	10	2	---	179	178	---
Civilian	48	23	51	1,335	1,283	1,970
Military	—	—	—	—	—	—
Rabies in animals	—	—	—	—	—	—

Table II. Notifiable Diseases of Low Frequency: United States

	CUM.		CUM.
Anthrax	2	Poliomyelitis, total	5
Botulism: N. Mex. 1	10	Paralytic	5
Congenital rubella syndrome: Tenn. 1	15	Psittacosis: Calif. 1	23
Leprosy: La. 1	75	Rabies in man:	—
Leptospirosis	22	Trichinosis	58
Plague: N. Mex. 1	8	Typhus, murine	13

Table III
Cases of Specified Notifiable Diseases: United States
Weeks Ending July 10, 1976 and July 5, 1975 - 27th Week

AREA REPORTING	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	DIPHTHERIA		ENCEPHALITIS			HEPATITIS, VIRAL			MALARIA	
						Primary: Arthropod- borne and Unspecified		Post In- fectious	Type B	Type A	Type Unspecified		
	1976	1976	1976	1976	CUM. 1976	1976	1975	1976	1976	1976	1976	1976	CUM. 1976
UNITED STATES	62	6	1,345	-	114	17	8	1	205	478	151	11	195
NEW ENGLAND	1	-	203	-	-	1	-	-	6	12	5	1	9
Maine	-	-	5	-	-	-	-	-	-	2	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	1	-	-	-
Vermont	-	-	7	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	110	-	-	-	-	-	1	3	5	-	4
Rhode Island	1	-	31	-	-	-	-	-	4	2	-	1	2
Connecticut	-	-	50	-	-	1	-	-	1	4	-	-	3
MIDDLE ATLANTIC	13	-	160	-	-	4	1	-	47	76	13	3	32
Upstate New York	4	-	47	-	-	-	-	-	1	3	-	1	6
New York City	-	-	103	-	-	-	-	-	13	21	-	1	16
New Jersey*	7	-	NN	-	-	2	1	-	18	37	13	-	2
Pennsylvania	2	-	10	-	-	2	-	-	15	15	-	1	8
EAST NORTH CENTRAL ..	1	-	642	-	-	1	1	-	29	56	17	-	14
Ohio	-	-	-	-	-	-	1	-	-	21	-	-	7
Indiana	-	-	26	-	-	-	-	-	-	-	8	-	-
Illinois	-	-	77	-	-	-	-	-	13	4	2	-	2
Michigan	1	-	216	-	-	1	-	-	9	25	7	-	5
Wisconsin	-	-	323	-	-	-	-	-	7	6	-	-	-
WEST NORTH CENTRAL ..	-	1	20	-	4	2	-	-	12	33	9	-	6
Minnesota	-	-	-	-	-	-	-	-	1	-	-	-	3
Iowa	-	1	4	-	-	-	-	-	-	2	-	-	-
Missouri	-	-	2	-	1	2	-	-	2	15	7	-	-
North Dakota	-	-	4	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	3	-	-	-	-	2	-	-	2
Nebraska	-	-	3	-	-	-	-	-	-	1	-	-	1
Kansas	-	-	7	-	-	-	-	-	9	13	2	-	-
SOUTH ATLANTIC	7	2	152	-	-	2	3	-	34	76	15	7	36
Delaware*	-	-	6	-	-	-	-	-	4	1	-	-	-
Maryland	2	1	9	-	-	-	-	-	12	11	7	1	5
District of Columbia ..	-	-	17	-	-	-	1	-	2	2	-	-	5
Virginia	-	1	28	-	-	-	1	-	2	3	2	2	8
West Virginia	-	-	81	-	-	-	-	-	-	1	-	-	1
North Carolina	-	-	NN	-	-	1	-	-	3	9	2	-	3
South Carolina	-	-	-	-	-	-	-	-	2	3	1	-	1
Georgia	-	-	-	-	-	-	-	-	-	22	-	2	4
Florida	5	-	11	-	-	1	1	-	9	24	3	2	9
EAST SOUTH CENTRAL ..	3	2	6	-	-	1	-	-	9	32	1	-	1
Kentucky	-	1	2	-	-	-	-	-	-	7	-	-	-
Tennessee	3	1	NN	-	-	1	-	-	8	21	1	-	-
Alabama	-	-	4	-	-	-	-	-	-	2	-	-	-
Mississippi	-	-	-	-	-	-	-	-	1	2	-	-	1
WEST SOUTH CENTRAL ..	32	1	67	-	1	2	1	-	10	63	43	-	7
Arkansas	2	-	-	-	-	-	-	-	-	12	3	-	-
Louisiana	-	-	NN	-	-	-	-	-	2	12	5	-	1
Oklahoma	1	1	20	-	-	1	-	-	8	14	7	-	-
Texas	29	-	47	-	1	1	1	-	-	25	28	-	6
MOUNTAIN	-	-	65	-	3	-	2	-	13	37	9	-	8
Montana	-	-	11	-	-	-	-	-	1	1	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	1	2	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	46	-	3	-	1	-	3	6	4	-	5
New Mexico*	-	-	1	-	-	-	1	-	-	12	1	-	1
Arizona	-	-	-	-	-	-	-	-	1	11	1	-	1
Utah	-	-	7	-	-	-	-	-	2	2	1	-	-
Nevada*	-	-	-	-	-	-	-	-	6	4	-	-	1
PACIFIC	5	-	30	-	106	4	-	1	45	93	39	-	82
Washington	1	-	14	-	103	-	-	-	1	10	7	-	2
Oregon	-	-	2	-	-	1	-	-	5	12	3	-	5
California*	3	-	-	-	1	1	-	1	35	70	28	-	74
Alaska	1	-	1	-	2	1	-	-	-	-	-	-	-
Hawaii	-	-	13	-	-	1	-	-	4	1	1	-	1
Guam*	-	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	4	-	1	-	-	-	2	8	-	-	1
Virgin Islands	-	-	-	-	-	-	-	-	-	-	-	-	-

NN: Not notifiable

*Delayed Reports: Chickenpox: N. Mex. add 8, Calif. add 1, Guam add 1; Enceph: N. J. add 1; Hep. B: Del. delete 1; Hep. A: Del. add 2, N. Mex. delete 5, Nev. add 5; Hep. unsp. Del. add 4

Table III-Continued
Cases of Specified Notifiable Diseases: United States
Weeks Ending July 10, 1976 and July 5, 1975 - 27th Week

REPORTING AREA	MEASLES (Rubella)			MENINGOCOCCAL INFECTIONS TOTAL			MUMPS		PERTUSSIS	RUBELLA		TETANUS
	1976	CUMULATIVE		1976	CUMULATIVE		1976	CUM. 1976	1976	1976	CUM. 1976	CUM. 1976
		1976	1975		1976	1975						
UNITED STATES	593	32,331	19,568	26	965	857	341	30,449	5	138	9,979	21
NEW ENGLAND	12	365	257	1	41	49	20	1,168	-	3	261	-
Maine	-	6	11	-	-	6	-	105	-	-	3	-
New Hampshire	1	10	19	-	3	2	3	25	-	-	11	-
Vermont	8	27	44	-	3	-	-	8	-	-	1	-
Massachusetts	-	39	90	-	11	15	-	147	-	2	130	-
Rhode Island	-	14	1	-	4	3	4	419	-	-	5	-
Connecticut	3	269	92	1	20	23	13	464	-	1	111	-
MIDDLE ATLANTIC	79	6,643	1,542	3	126	86	52	2,630	1	53	2,191	-
Upstate New York	38	2,769	459	2	48	27	4	335	-	33	551	-
New York City	9	402	114	-	34	22	37	1,332	-	3	131	-
New Jersey	6	581	446	-	17	12	5	471	-	17	1,321	-
Pennsylvania	26	2,891	523	1	27	25	6	492	1	-	188	-
EAST NORTH CENTRAL ..	222	13,709	5,822	3	152	121	118	12,842	-	52	3,725	1
Ohio	5	555	97	1	82	25	-	1,843	-	-	267	1
Indiana	57	2,979	334	-	5	6	22	1,369	-	12	638	-
Illinois	9	1,424	1,502	1	13	19	8	1,714	-	4	1,136	-
Michigan	108	5,514	2,942	1	44	55	29	4,752	-	32	1,302	-
Wisconsin	43	3,237	947	-	8	16	59	3,164	-	4	382	-
WEST NORTH CENTRAL ..	4	1,092	4,811	1	61	48	6	3,207	-	-	375	3
Minnesota	-	388	180	-	12	10	-	543	-	-	25	-
Iowa	-	31	462	-	8	5	1	1,137	-	-	81	-
Missouri	2	16	250	1	21	22	4	299	-	-	29	1
North Dakota	-	3	1,034	-	3	-	-	119	-	-	1	1
South Dakota	-	4	355	-	1	1	-	6	-	-	18	-
Nebraska	-	54	394	-	3	2	1	97	-	-	3	-
Kansas	2	596	2,136	-	13	8	-	1,006	-	-	218	1
SOUTH ATLANTIC	162	1,976	254	4	178	176	26	2,298	-	4	1,235	7
Delaware	2	128	32	1	4	6	4	40	-	-	30	-
Maryland	-	671	41	-	16	18	5	604	-	-	3	2
District of Columbia ..	-	9	1	-	2	5	1	97	-	-	45	-
Virginia	155	681	22	1	23	16	4	182	-	3	224	1
West Virginia	5	177	122	-	4	5	8	714	-	1	271	-
North Carolina	-	-	-	-	34	34	3	367	-	-	17	-
South Carolina	-	4	-	-	31	29	-	37	-	-	588	-
Georgia	-	1	11	-	16	9	-	-	-	-	1	-
Florida	-	305	25	2	48	54	1	257	-	-	56	4
EAST SOUTH CENTRAL ..	12	756	260	-	80	130	56	2,571	3	10	319	2
Kentucky	5	711	81	-	14	55	-	915	-	2	148	1
Tennessee	7	30	168	-	35	43	51	1,369	2	8	167	1
Alabama	-	-	3	-	22	23	5	241	1	-	1	-
Mississippi	-	15	8	-	9	9	-	46	-	-	3	-
WEST SOUTH CENTRAL ..	20	654	257	5	149	134	23	2,111	1	4	479	5
Arkansas	-	-	-	-	8	8	-	68	-	-	189	-
Louisiana	4	184	-	-	26	24	-	20	-	-	85	2
Oklahoma	2	287	116	-	18	9	4	605	-	3	55	-
Texas	14	183	141	5	97	93	19	1,418	1	1	150	3
MOUNTAIN	3	4,994	1,256	1	35	32	13	1,046	-	2	460	1
Montana	1	202	37	1	4	5	-	20	-	-	232	-
Idaho	-	2,020	5	-	3	5	1	432	-	-	18	-
Wyoming	-	3	1	-	-	-	-	1	-	-	2	-
Colorado	-	296	1,064	-	11	9	5	206	-	-	21	-
New Mexico	-	15	13	-	3	4	3	127	-	-	31	-
Arizona	-	225	56	-	8	1	-	-	-	-	-	1
Utah	2	2,170	56	-	4	7	4	146	-	2	139	-
Nevada *	-	63	24	-	2	1	-	114	-	-	17	-
PACIFIC	79	2,142	5,109	8	143	81	27	2,576	-	10	934	2
Washington	2	315	254	4	24	15	-	839	-	2	154	-
Oregon	10	143	188	-	13	4	5	318	-	1	124	1
California	66	1,681	4,609	3	93	61	21	1,381	-	7	641	1
Alaska	-	-	-	1	11	-	1	18	-	-	-	-
Hawaii	1	3	58	-	2	1	-	20	-	-	15	-
Guam	-	9	21	-	1	2	-	10	-	-	5	-
Puerto Rico	2	252	493	-	3	1	8	595	-	1	7	3
Virgin Islands	1	8	8	-	-	-	-	21	-	-	8	1

* Delayed reports: Rubella. Nev. add 1

Table III-Continued
Cases of Specified Notifiable Diseases: United States
Weeks Ending July 10, 1976 and July 5, 1975 - 27th Week

REPORTING AREA	TUBERCULOSIS		TULA- REMIA	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (RMSF)		VENEREAL DISEASES (Civilian Cases Only)						RABIES IN ANIMALS
								GONORRHEA			SYPHILIS (Pri. & Sec.)			
	1976	CUM. 1976	CUM. 1976	1976	CUM. 1976	1976	CUM. 1976	1976	CUMULATIVE		1976	CUMULATIVE		
									1976	1975		1976	1975	
UNITED STATES	667	17,337	63	11	171	34	314	18,082	501,147	489,144	332	12,570	13,155	1,335
NEW ENGLAND	29	639	-	-	17	-	4	361	13,483	13,302	9	373	452	23
Maine	1	44	-	-	-	-	-	34	1,164	946	-	8	9	14
New Hampshire	1	25	-	-	2	-	-	13	366	368	-	6	10	-
Vermont	1	17	-	-	-	-	-	14	333	312	1	3	5	-
Massachusetts	22	394	-	-	13	-	3	120	6,420	6,234	6	272	294	8
Rhode Island	1	41	-	-	-	-	1	20	888	1,028	2	15	5	1
Connecticut	3	118	-	-	2	-	-	160	4,312	4,414	-	69	129	-
MIDDLE ATLANTIC	155	3,300	1	-	28	2	9	2,829	57,050	56,875	52	2,106	2,411	12
Upstate New York	38	535	1	-	5	2	3	250	8,745	10,167	4	132	225	4
New York City	71	1,331	-	-	15	-	1	1,233	25,632	24,717	36	1,308	1,363	-
New Jersey	20	621	-	-	6	-	5	650	8,977	7,746	6	308	383	3
Pennsylvania*	26	813	-	-	2	-	-	696	13,696	14,245	6	358	440	5
EAST NORTH CENTRAL ..	127	2,372	-	1	15	-	6	3,367	80,279	79,360	33	1,137	1,095	73
Ohio	8	418	-	1	5	-	4	738	19,753	20,662	10	268	258	-
Indiana	12	294	-	-	-	-	-	393	7,698	7,625	3	56	71	16
Illinois	65	813	-	-	3	-	-	1,305	28,587	27,556	13	625	530	13
Michigan*	31	712	-	-	6	-	2	646	16,672	15,652	7	133	181	2
Wisconsin	11	135	-	-	1	-	-	284	7,569	7,865	-	55	55	42
WEST NORTH CENTRAL ..	16	622	14	1	11	1	7	977	25,784	24,078	7	222	302	325
Minnesota	3	119	3	-	6	-	-	190	4,686	4,963	-	45	60	71
Iowa*	1	49	1	-	1	-	-	119	3,225	3,338	1	30	16	74
Missouri	8	310	9	-	3	1	7	417	10,308	8,710	2	92	166	41
North Dakota	-	15	-	-	-	-	-	7	376	373	-	-	5	70
South Dakota	1	29	-	-	-	-	-	25	712	925	-	2	4	14
Nebraska*	1	32	-	-	-	-	-	33	2,192	2,125	2	16	4	11
Kansas	2	68	1	1	1	-	-	186	4,285	3,644	2	37	47	44
SOUTH ATLANTIC	168	3,810	4	3	20	18	164	3,780	120,741	121,422	92	3,702	4,090	198
Delaware*	1	45	-	-	-	-	1	56	1,612	1,650	-	39	53	2
Maryland	15	540	1	-	-	-	12	458	16,444	13,901	14	324	305	11
District of Columbia ..	3	160	-	-	-	-	-	237	7,209	7,209	7	333	345	-
Virginia	45	623	-	1	3	4	47	253	12,487	11,893	3	333	296	33
West Virginia	3	158	-	-	2	-	2	70	1,603	1,449	-	17	13	8
North Carolina	44	683	3	-	1	10	66	687	17,686	17,323	18	697	525	2
South Carolina	18	308	-	-	3	2	23	NA	11,481	11,655	NA	200	280	2
Georgia	12	468	-	-	2	2	12	720	22,597	22,082	11	399	541	109
Florida	27	825	-	2	9	-	1	1,299	29,622	34,260	39	1,360	1,732	31
EAST SOUTH CENTRAL ..	40	1,444	11	-	7	5	51	1,536	44,759	41,400	13	507	572	73
Kentucky	-	330	1	-	4	-	8	172	5,593	5,404	2	75	88	41
Tennessee	15	418	10	-	3	4	36	679	17,668	16,204	5	199	213	21
Alabama	16	437	-	-	-	-	3	467	12,791	11,505	6	101	136	11
Mississippi	9	259	-	-	-	1	4	218	8,707	8,287	-	132	135	-
WEST SOUTH CENTRAL ..	21	1,928	24	-	7	7	66	1,914	66,060	61,395	46	1,467	1,145	343
Arkansas	4	256	12	-	2	-	12	120	6,168	6,408	3	47	33	86
Louisiana	10	286	2	-	2	-	-	436	9,820	11,440	12	323	275	2
Oklahoma	7	188	6	-	-	7	50	204	6,090	5,725	3	58	43	88
Texas*	-	1,198	4	-	3	-	4	1,154	43,982	37,822	28	1,039	794	167
MOUNTAIN	20	503	2	1	17	-	2	560	19,029	18,910	4	402	323	71
Montana	-	28	2	-	2	-	-	45	1,010	1,053	-	4	4	49
Idaho	-	16	-	-	1	-	1	63	1,040	907	-	23	9	-
Wyoming	2	11	-	-	-	-	-	3	387	455	-	7	6	1
Colorado	2	93	-	-	4	-	-	165	4,968	4,798	1	90	58	4
New Mexico	2	87	-	-	1	-	1	NA	3,711	3,306	NA	112	92	3
Arizona	14	229	-	1	8	-	-	243	5,628	5,150	3	128	112	14
Utah	-	22	-	-	1	-	-	4	934	1,180	-	16	10	-
Nevada*	-	17	-	-	-	-	-	37	1,351	2,061	-	22	32	-
PACIFIC	91	2,719	7	5	49	1	5	2,758	73,962	72,402	76	2,654	2,765	217
Washington	8	264	2	-	2	-	4	164	6,251	6,623	-	62	94	1
Oregon	2	94	1	-	-	-	-	201	5,514	5,342	-	59	66	1
California*	47	1,973	4	5	46	1	1	2,205	58,666	57,502	74	2,464	2,573	175
Alaska*	7	41	-	-	-	-	-	115	2,097	1,776	-	11	3	40
Hawaii	27	347	-	-	1	-	-	73	1,434	1,159	2	58	29	-
Guam*	-	24	-	-	-	-	-	-	159	230	-	1	3	-
Puerto Rico	-	179	-	-	-	-	-	56	1,377	1,441	7	300	361	27
Virgin Islands*	-	2	-	-	-	-	-	3	133	86	1	36	20	-

NA: Not available

*Delayed Reports: TB: Mich. delete 2, Del. delete 1, Nev. add 3, Alaska add 7, V.I. add 2; Typhoid: Calif. add 4; RMSF: Texas delete 1; GC: Pa. delete 1, Nebr. add 21, Del. delete 81 civ.; add 81 mil., Nev. add 97, Guam add 5, V.I. add 4; Syphilis: Iowa delete 8, Nev. add 2, V.I. add 4

Table IV
Deaths in 121 United States Cities*
Week Ending July 10, 1976 — 27th Week

REPORTING AREA	ALL CAUSES					Pneumonia and Influenza ALL AGES	REPORTING AREA	ALL CAUSES					Pneumonia and Influenza ALL AGES
	ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year			ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year	
NEW ENGLAND	612	384	155	32	17	32	SOUTH ATLANTIC	933	499	283	70	45	29
Boston, Mass.	185	108	46	13	6	8	Atlanta, Ga.	96	58	25	8	2	3
Bridgeport, Conn.	36	24	12	—	—	3	Baltimore, Md.	154	78	57	6	7	2
Cambridge, Mass.	24	18	6	—	—	3	Charlotte, N. C.	49	24	10	6	4	2
Fall River, Mass.	19	10	8	1	—	—	Jacksonville, Fla.	85	55	17	4	7	—
Hartford, Conn.	50	28	15	2	2	1	Miami, Fla.	87	51	27	5	4	1
Lowell, Mass.	28	19	7	1	1	1	Norfolk, Va.	62	29	22	6	3	7
Lynn, Mass.	17	14	1	1	—	—	Richmond, Va.	76	33	24	8	6	5
New Bedford, Mass.	17	13	3	1	—	3	Savannah, Ga.	25	9	10	5	—	3
New Haven, Conn.	52	32	14	3	2	1	St. Petersburg, Fla.	55	43	9	1	2	1
Providence, R.I.	53	32	14	3	1	4	Tampa, Fla.	63	29	20	5	4	1
Somerville, Mass.	6	4	1	—	—	1	Washington, D. C.	127	61	44	12	6	1
Springfield, Mass.	37	21	9	3	1	1	Wilmington, Del.	54	29	18	4	—	3
Waterbury, Conn.	32	21	9	1	1	1							
Worcester, Mass.	56	40	10	3	3	5							
MIDDLE ATLANTIC	2,812	1,745	695	175	88	120	EAST SOUTH CENTRAL	551	289	171	43	22	31
Albany, N. Y.	52	34	12	3	1	3	Birmingham, Ala.	108	54	35	9	6	4
Allentown, Pa.	19	12	3	2	—	—	Chattanooga, Tenn.	49	28	13	1	1	7
Buffalo, N. Y.	107	62	34	5	2	3	Knoxville, Tenn.	34	24	9	1	—	—
Camden, N. J.	45	33	10	1	—	—	Louisville, Ky.	85	56	27	1	1	10
Elizabeth, N. J.	22	13	7	1	1	1	Memphis, Tenn.	100	56	23	10	7	1
Erie, Pa.	39	27	10	—	—	3	Mobile, Ala.	50	26	13	5	1	3
Jersey City, N. J.	49	33	12	2	1	2	Montgomery, Ala.	31	14	7	6	—	—
Newark, N. J.	32	18	8	4	1	1	Nashville, Tenn.	94	31	44	10	6	6
New York City, N. Y.	1,486	926	362	105	37	46	WEST SOUTH CENTRAL	932	467	277	78	41	24
Paterson, N. J.	48	25	15	2	4	4	Austin, Tex.	27	14	11	—	2	1
Philadelphia, Pa.	402	228	106	29	29	37	Baton Rouge, La.	27	19	3	1	2	—
Pittsburgh, Pa.	171	100	48	8	5	4	Corpus Christi, Tex.	22	12	5	—	3	—
Reading, Pa.	40	31	5	1	—	1	Dallas, Tex.	140	70	44	14	4	2
Rochester, N. Y.	87	62	14	5	1	2	El Paso, Tex.	28	12	9	3	1	—
Schenectady, N. Y.	16	13	2	1	—	1	Fort Worth, Tex.	70	40	23	4	1	1
Scranton, Pa.	39	28	10	—	—	1	Houston, Tex.	244	121	70	31	6	6
Syracuse, N. Y.	81	48	19	3	3	2	Little Rock, Ark.	36	18	7	5	2	2
Trenton, N. J.	40	25	14	—	1	5	New Orleans, La.	119	47	48	9	10	—
Utica, N. Y.	13	7	2	3	1	2	San Antonio, Tex.	128	77	33	9	6	4
Yonkers, N. Y.	24	20	2	—	1	2	Shreveport, La.	38	22	13	1	2	5
							Tulsa, Okla.	53	35	11	1	2	3
EAST NORTH CENTRAL	1,963	1,116	535	143	70	46							
Akron, Ohio	40	25	8	5	—	—	MOUNTAIN	421	231	123	32	19	17
Canton, Ohio	42	27	10	1	1	2	Albuquerque, N. Mex.	44	23	13	4	4	3
Chicago, Ill.	500	295	131	36	14	7	Colorado Springs, Colo.	23	13	9	—	1	—
Cincinnati, Ohio	108	57	31	11	6	2	Denver, Colo.	91	50	25	7	5	4
Cleveland, Ohio	163	87	52	4	4	7	Las Vegas, Nev.	24	12	8	3	—	3
Columbus, Ohio	136	73	42	12	2	4	Ogden, Utah	17	11	2	—	—	2
Dayton, Ohio	100	57	28	6	4	4	Phoenix, Ariz.	108	59	29	10	6	—
Detroit, Mich.	246	131	66	29	7	3	Pueblo, Colo.	18	12	2	2	1	2
Evansville, Ind.	39	20	12	4	2	2	Salt Lake City, Utah	34	17	13	4	—	2
Fort Wayne, Ind.	42	23	10	2	2	1	Tucson, Ariz.	62	34	22	2	2	1
Gary, Ind.	11	4	6	1	—	1							
Grand Rapids, Mich.	57	38	10	—	7	1	PACIFIC	1,536	896	416	102	59	31
Indianapolis, Ind.	111	58	29	11	8	1	Berkeley, Calif.	21	16	5	—	—	—
Madison, Wis.	19	8	5	2	1	—	Fresno, Calif.	58	19	20	6	9	—
Milwaukee, Wis.	101	56	28	4	8	1	Glendale, Calif.	18	12	5	1	—	—
Peoria, Ill.	28	15	9	2	—	2	Honolulu, Hawaii	50	25	18	5	1	1
Rockford, Ill.	44	28	6	5	1	2	Long Beach, Calif.	99	64	24	6	—	1
South Bend, Ind.	30	25	4	—	—	3	Los Angeles, Calif.	468	281	115	36	16	8
Toledo, Ohio	77	49	19	5	2	3	Oakland, Calif.	82	54	15	5	4	4
Youngstown, Ohio	69	40	19	3	1	—	Pasadena, Calif.	31	19	8	2	2	—
							Portland, Oreg.	101	63	23	5	8	2
WEST NORTH CENTRAL	593	379	139	22	24	7	Sacramento, Calif.	68	40	19	5	—	—
Des Moines, Iowa	50	26	14	1	1	1	San Diego, Calif.	117	62	34	9	5	1
Duluth, Minn.	29	17	12	—	—	—	San Francisco, Calif.	177	95	60	13	3	3
Kansas City, Kans.	24	13	9	2	—	1	San Jose, Calif.	53	34	12	1	3	1
Kansas City, Mo.	108	63	28	3	10	1	Seattle, Wash.	102	54	39	3	3	4
Lincoln, Nebr.	29	24	3	—	1	—	Spokane, Wash.	55	36	10	2	5	6
Minneapolis, Minn.	52	34	13	2	1	—	Tacoma, Wash.	36	22	9	3	—	—
Omaha, Nebr.	57	36	15	3	3	—							
St. Louis, Mo.	143	97	29	5	7	—	TOTAL	10,353	6,026	2,794	697	385	337
St. Paul, Minn.	76	56	12	4	—	2	Expected Number	11,596	6,908	3,047	774	373	344
Wichita, Kans.	25	13	4	2	1	2							

†Delayed Report for Week Ending 7/3/76

The Morbidity and Mortality Weekly Report, circulation 52,000, is published by the Center for Disease Control, Atlanta, Georgia. 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.

The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn.: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

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Ciguatera Fish Poisoning — Midway Atoll

A family of four at Midway Atoll, located in the mid-Pacific approximately 1,200 miles northwest of Oahu, Hawaii, contracted Ciguatera fish poisoning after eating a fish salad made with freshly-caught California Yellow-tail fish. This is the first case of confirmed Ciguatera poisoning caused by this species of fish in this locale.

The fish was caught in the mid-Pacific about 4 miles west of Midway Atoll on February 11, 1976. After being cleaned and filleted, part of the fish was frozen and the remainder refrigerated until it was eaten 2 days later in a salad by the family.

The husband and 2 sons ate 2 or less cups of the fish salad and had mild illnesses lasting less than 48 hours. Their symptoms included abdominal discomfort, diarrhea, malaise, and paresthesias. The incubation periods ranged from 6 to 18 hours.

The wife, who ate approximately 5 cups of the fish salad over a period of 18 hours, was the most severely ill. About 6 hours after eating 2½ cups of the fish salad, she experienced general malaise, abdominal pain, and back pain, followed by nausea and diarrhea. About 10 hours later the symptoms had abated somewhat, and she again ate a small portion of the same salad, followed 2 hours later by another 2 cups.

Approximately 2 hours after eating the last portion, she began experiencing severe weakness in her limbs, numbness and tingling of the lips, tongue, and back of the mouth, paradoxical temperature sensations of the lips and mouth, and some difficulty breathing and swallowing. She was taken to the Navy dispensary where she was noted to have hyperesthesia and paresis of the limbs. She experienced several short but severe episodes of bronchospasm. She

was treated with intravenous aminophylline and neostigmine and improved rapidly; 1 hour later her only symptoms were hyperesthesia and tingling of the lips and mouth. Over the next 3 days the patient had variable signs and symptoms including fever of 101°F, occipital headache, profuse pruritis, decreased urinary output, a burning sensation upon urination, and mild bladder distension. Her urinalysis and complete blood count were unremarkable. By February 19 all of her symptoms had remitted except for continued hyperesthesia of the fingers.

The portion of the fish which had been frozen was sent to the University of Hawaii laboratory where ciguatoxin was found.

Reported by GR Brown, Lt, LR Swink, MD, Medical Service Corps, US Navy; AH Banner, PhD, Y Hokama, PhD, University of Hawaii, and Enteric Diseases Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: Three outbreaks of ciguatera fish poisoning were reported to CDC in the 8-year period 1966-1973. In 1974, 26 outbreaks were reported, probably because of greater awareness and improved surveillance. Fish most commonly implicated are barracuda, red snapper, amberjack, and grouper. Larger fish are more likely to contain higher concentrations of ciguatoxin. In a study of red snapper caught in the Pacific in 1958, 69% of fish weighing 6 pounds 2½ ounces or more were toxic compared with 18% of fish below that weight (1). Fish containing ciguatoxin do not appear spoiled, and ordinary cooking does not destroy the heat-stable toxin.

Reference

1. Hessel DW, Halstead BW, Peckham NH: Marine biotoxins. I. Ciguatera poison: Some biological and chemical aspects. *Ann NY Acad Sci* 90:789-797, 1960

Current Trends

Tuberculosis in 1975, Final Figures

During 1975, 33,989 cases of tuberculosis were reported in the United States (Table 4). The case rate was 15.9 per hundred thousand population. Because new recommendations for reporting tuberculosis became effective in January 1975, comparison with case rate information from previous years is not feasible. Tuberculosis data from 1975 form a new base for following the trend of annual morbidity statistics.

The year 1975 was the first in which information was available on the bacteriologic status of all reported cases. Bacteriologic examination was known to have been performed on 82.3% of all cases; of these, 82.2% were found to be positive. For the individual States, the percentage of cases with a reported bacteriologic examination ranged

from 32.7% to 100%; the percentage of these cases in which the diagnoses were bacteriologically supported ranged from 25.7% to 100%.

Editorial Note: Ideally, all reported cases of tuberculosis should be confirmed bacteriologically, since there is always an element of doubt about the correctness of the diagnosis in unconfirmed cases. However, it is not always possible to obtain bacteriologic proof of diagnosis. From 1975 onward it will be possible to determine what proportion of cases had a reported bacteriologic examination and to follow the morbidity trend not only for total reported cases but also for cases with bacteriologically supported diagnoses.

Tuberculosis — Continued

TABLE 4. Tuberculosis cases by state, 1975

State	Total Cases	Case Rate	Rank by Rate	Bacteriology Completed			State	Total Cases	Case Rate	Rank by Rate	Bacteriology Completed		
				Number	Percent	Percent Positive					Number	Percent	Percent Positive
UNITED STATES	33,989	15.9	—	27,428*	82.3	82.2	Missouri	550	11.5	31	487	88.5	91.4
Alabama	780	21.6	7	721	92.4	98.3	Montana	94	12.6	27	83	88.3	78.3
Alaska	74	21.0	11	60	81.1	85.0	Nebraska	40	2.6	50	40	100.0	100.0
Arizona	422	19.0	13	401	95.0	82.8	Nevada	36	6.1	42	35	97.2	100.0
Arkansas	501	23.7	4	488	97.4	85.5	New Hampshire	30	3.7	49	29	96.7	72.4
California	3,633	17.1	18	2,987	82.2	93.2	New Jersey	1,271	17.4	17	1,161	91.3	62.3
Colorado	220	8.7	35	209	95.0	78.9	New Mexico	146	12.7	26	140	95.9	91.4
Connecticut	240	7.8	38	213	88.8	100.0	New York	3,934	21.7	6	1,285	32.7	89.6
Delaware	101	17.4	16	93	92.1	64.5	North Carolina	1,166	21.4	8	1,107	94.9	77.1
Dist. of Col.	382	53.4	**	359	94.0	75.8	North Dakota	25	3.9	48	24	96.0	87.5
Florida	1,758	21.0	10	1,504	85.6	88.6	Ohio	1,200	11.2	33	1,050	87.5	73.6
Georgia	1,031	20.9	12	906	87.9	83.2	Oklahoma	369	13.6	23	353	95.7	88.1
Hawaii	591	68.3	1	584	98.8	25.7	Oregon	194	8.5	37	183	94.3	78.7
Idaho	36	4.4	46	36	100.0	72.2	Pennsylvania	1,540	13.0	24	1,423	92.4	79.3
Illinois	1,345	12.1	29	614*	88.9	81.1	Rhode Island	120	12.9	25	93	77.5	84.9
Indiana	607	11.4	32	526	86.7	83.8	South Carolina	627	22.2	5	559	89.2	83.4
Iowa	125	4.4	47	121	96.8	71.9	South Dakota	72	10.5	34	67	93.1	82.1
Kansas	194	8.6	36	179	92.3	79.9	Tennessee	1,033	24.7	3	882	85.4	93.2
Kentucky	642	18.9	14	566	88.2	93.3	Texas	2,600	21.2	9	2,119	81.5	76.0
Louisiana	593	15.6	20	572	96.5	79.2	Utah	60	5.0	44	58	96.7	84.5
Maine	78	7.4	39	75	96.2	85.3	Vermont	31	6.6	41	30	96.8	90.0
Maryland	1,035	25.3	2	922	89.1	77.5	Virginia	908	18.3	15	835	92.0	80.4
Massachusetts	719	12.3	28	616	85.7	89.8	Washington	427	12.0	30	393	92.0	85.2
Michigan	1,271	13.9	22	1,197	94.2	84.5	West Virginia	263	14.6	21	243	92.4	82.3
Minnesota	194	4.9	45	178	91.8	87.1	Wisconsin	264	5.7	43	252	95.5	70.6
Mississippi	390	16.6	19	346	88.7	79.8	Wyoming	27	7.2	40	24	88.9	58.3

* Excluding Chicago

** District of Columbia is classed as a city and is not ranked with the States

Influenza — Worldwide

United States: No outbreaks of influenza-like illness have been reported. Influenza B isolates from sporadic cases have been reported by the National Institute of Allergy and Infectious Diseases (NIAID) Influenza Surveillance Centers in Colorado and North Carolina, and by the New Jersey Department of Health. A/Victoria-like isolates from sporadic cases in Pennsylvania and Mississippi were also reported.

Reported by JL Sarandria, MS, Allegheny County Dept of Health, Pittsburgh; DL Blakey, MD, State Epidemiologist, Mississippi State Board of Health; R Altman, MD, State Epidemiologist,

M Goldfield, MD, New Jersey State Dept of Health; and Infectious Disease Br, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland.

Worldwide: Outbreaks of influenza A in May have been reported from Malaysia and South Africa. Nearly all of the isolates of influenza A reported from recent outbreaks in the Southern Hemisphere [MMWR 25(24)] have resembled A/Victoria/3/75. No swine influenza-like isolates have been reported.

Reported by the World Health Organization in the Weekly Epidemiologic Record 51(26): 214, 1976.

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