

MORBIDITY AND MORTALITY WEEKLY REPORT

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Tuberculosis - Maine

A private physician called the Maine Bureau of Health on December 9, 1976, to report a case of tuberculosis in a 20-year-old man. The patient had a positive tuberculin skin test, bilateral upper lobe infiltrates on chest X-ray, and sputum cultures which grew *Mycobacterium tuberculosis*. He had experienced a weight loss of over 20 pounds, had a persistent cough, and had fever for about 6 months. The patient had been identified in February 1976, as a household contact of an elderly man with tuberculosis but he had refused to be examined at that time.

The patient lived and worked on a large egg farm in a small community of 2,246 people. The approximately 700 employees on the egg farm not only worked together, but also lived in close proximity to one another and frequently saw each other socially. The patient lived transiently in about 6 different households in the community during the year before his diagnosis. Investigation identified 134 contacts of this patient — including persons residing in households in which he had lived, persons seen daily at work, and social contacts seen twice or more per week. The mean age of contacts was 27.1 years, and the mean age of employee non-contacts was 28.8 years.

All the contacts were skin tested. In addition, skin testing was offered to the rest of the employees at the chicken farm; approximately 98% were tested. Fifteen of 596 employees who were not considered contacts had a positive test (2.5%); in this group were 243 part-time teenage ememployees, 1 of whom was positive (0.4%). Among contacts, 34 of 134 (25.4%) had positive skin tests. Three cases of tuberculosis were found in the contacts. The infected persons are either receiving isoniazid (in approximately 30 cases) or being followed.

Reported by S Rosenblatt, MD, Lewiston, Maine; S Hodges, RN, A Kanuff, RN, W Nersesian, MD, Acting State Epidemiologist, Maine

Dept of Human Resources; and Tuberculosis Control Div, Bur of State Services, CDC.

Editorial Note: Whether the index patient had contracted tuberculosis from the elderly man with whom he lived in February 1976 or whether he had transmitted it to that man cannot be determined.

Skin test positivity in this small community was highly correlated with being a contact of the index patient. The test results from non-contact co-workers at the farm indicate a very low background level of mycobacterial infection in the community. It appears that the patient was an effective transmitter of tubercle bacilli, even though he did not have cavitary disease or a positive microscopic examination for acid-fast bacilli — conditions frequently associated with a high level of infectivity. The facts that he had been sick and coughing for a long time and that frequent opportunities for exposure resulted from his mobility and from the social and work conditions in this community combined to produce an unusually large number of contacts and a high level of infection among them.

Since almost every person with tuberculosis has at sometime been a contact of another person with tuberculosis, the identification, examination, and proper management of contacts of newly diagnosed cases is one of the highest priority activities in tuberculosis control (1). If a vigorous effort had been made to get this patient examined at the time of his exposure to another case in February 1976, and if he had received preventive treatment (2), this episode might not have occurred.

References

1. American Thoracic Society: Guidelines for the investigation and management of tuberculosis contacts. Am Rev Respir Dis 114:459-463, 1976

2. MMWR 24(8):71-78, 1975

Drug-Resistant Salmonella agona - New York

An outbreak of multiple drug-resistant Salmonella agona ^{was} recently reported in New York; the organism apparent-^{ly} originated in South America.

A 6-week-old male infant was admitted to a New York City hospital on September 8, 1976, because of pneumonia, ^{sepsis}, and shock. Born in Columbia, South America, the Patient was the second of male twins, who were placed in ^{an} orphanage for adoption when they were 3 days old. While at the orphanage, the patient was diagnosed as having pneumonia and was treated with penicillin and kanamycin. The twins were adopted by a New York City couple who brought them to the United States on September 5. The patient soon developed a runny nose and had several greenish diarrheal stools for which he was brought to the emergency room. Because he was thought to be septic, the child was admitted and therapy was begun with oxacillin and genta-

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micin; his condition improved during the next 2 days. (The patient's twin had also had a runny nose and diarrhea, but he did not require therapy or hospitalization.)

Subsequently, group B Salmonella organisms, later identified as S. agona, were recovered from both twins' stool cultures that had been collected in the emergency room. Because of this finding, oxacillin and gentamicin were discontinued, and ampicillin was begun. The next day antibiotic susceptibilities (Kirby-Bauer) revealed the 2 isolates to be resistant to ampicillin, carbenicillin, chloramphenicol, colistin, kanamycin, sulfasoxazole, tetracycline, and tobramycin; intermediate to cephalothin and gentamicin; and sensitive to nitrofurans and nalidixic acid. Ampicillin was discontinued and cephalothin and gentamicin begun. Simultaneously, urine and blood cultures collected from the patient on the day of admission yielded S. agona. Two-tube broth dilution susceptibility tests revealed both blood and stool isolates were resistant to ampicillin, carbenicillin, cephalothin, chloramphenicol, colistin, gentamicin, tetracycline, and tobramycin. When tested by the agar disc diffusion method, the organisms were sensitive to trimethoprim-sulfamethoxazole; this combination drug was then added to the therapeutic regimen. Follow-up blood and urine cultures from the patient were negative. Stool cultures collected 21 days after admission still contained S. agona organisms, which when re-tested were also found to be resistant to trimethoprim-sulfamethoxazole as well as to the previously tested antibiotics.

The index patient continued to improve and, all antimicrobial drugs were discontinued 36 hours before discharge on the 32nd hospital day. He is presently being followed by his private pediatrician and is doing well.

Six months after the original isolates were recovered, stool cultures of both twins were still positive for *S. agona*. Each of 3 isolates obtained from cultures at that time carried a different complement or resistance markers, suggesting that 2 or more plasmids were involved.

S. agona with the identical antibiogram was recovered on 2 subsequent occasions within 1 month following the above admission: once from a stool culture of a patient on the same pediatric ward, and once from a single culture of a finger wound from a patient on a separate pediatric ward 1 floor below. Before the positive cultures were obtained, both patients had been receiving antibiotics to which the multiple drug-resistant S. agona was resistant. Prior to the admission of the index patient, the hospital laboratory had not isolated drug resistant S. agona.

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Editorial Note: Until 1969, *S. agona* was rarely isolated in humans; since that time, however, it has emerged worldwide, as one of the leading causes of salmonellosis (1). In the *(Continued on page 135)*

CONTRACTOR AND A STATE OF A STATE OF A	15th,W	EEK ENDING	HELL - I - MARKIN	CUMULATIVE, FIRST 15 WEEKS				
DISEASE	April 16, 1977	April 1 1976	7, 1972–1978	April 16, 1977	April 17, 1976	MEDIAN 1972-1976		
Aseptic meningitis	26	33	34	520	523	523		
Brucellosis	1		3	47	68	34		
Chickenpox	5,986	5,833		89,551	84,245			
Diphtheria	1	-	4	22	88	69		
Frimary	8	13	14	173	227	234		
Post-Infectious	4	8	7	37	80	74		
(Type 8	314	289	199	4,542	4,169	2,791		
Hepatitis, Viral 2 Type A	561	581	1 961	9,541	10,273	12.821		
Type unspecified	150	219	f 801	2.754	2,584	f		
Malaria	11	5	5	98	90	75		
Measles (rubeola)	2.246	1.661	1,135	22,788	14,913	11,997		
Meningococcal infections, total	36	46	34	643	584	516		
Civilian	36	46	34	638	580	495		
Military	20110000 Aud		1	5	4	14		
Mumps	469	1.276	1.757	8,763	19,045	25,200		
Pertussis	10	13	I SHOW THE STOCK	183	314			
Rubella (German measles)	800	391	781	8 . 818	5.389	5,389		
Tetanus	1	1	1	11	9	14		
Tuberculosis	551	644		8.371	9.136			
Tularemia	3	1	NADE AND A REPORT OF A REPORT	19	29	27		
Typhoid fever	11	6	5	104	96	91		
Typhus, tick-borne (Rky. Mt. spotted fever)	Santa Inte	5	3	26	14	16		
Connection (Civilian	17,462	17,805		264,834	277,309			
(Military	535	512		7,528	8,341			
Sunhilis neimany and secondary (Civilian	418	482	The second s	6.313	7.480			
Military	6	9		91	115			
Rabies in animals	48	61	83	695	667	844		
Table II. N	otifiable Dis	eases of Lo	ow Frequency: Un	ited States	malai olea "	a view of		
est to compare motify and their television of the	1010100	CUM.	Alter and the second	1. 1. 1. 1.	10-10-51	CUM.		
Anthrax:		- 19	Poliomyelitis, total:	Calif 1		2		
Longenitai rusena synorome: Leprosy: La. 1	· · · · · · · · · · · · · · · · · · ·	33 13	Rabies in man:		· · · · · · · · · · · · · · · · · · ·			

Table III **Cases of Specified Notifiable Diseases: United States** Weeks Ending April 16, 1977 and April 17, 1976 - 15th Week

be a los de la	ASEPTIC	c				E	NCEPHALIT	IS	HE	PATITIS, V				
AREA REPORTING	MENIN- GITIS	LOSIS	PO X	DIPHT	HERIA	Primary: / borne and	Arthropod- Unspecified	Post In- fectious	Type B	Туре А	Type Unspecified	MA	LARIA	
	1977	1977	1977	1977	CUM. 1977	1977	1976	1977	1977	1977	1977	1977	CUM. 1977	
UNITED STATES	26	1	5,986	1	22	8	13	4	314	561	150	11	98	
NEW ENGLAND		-	1,099		-		-	-	16	18	14	1	5	
Maine	-	-	4	-	-	-	-	-		-	-	-	-	
New Hampshire	-	-	20		-	-	-	- 2 -	1	2	-	1		
Massachusetts	-	-	425	-	-	-	-	-	1	ĩ	12		2	
Rhode Island	-	_	217	-	-	-	-	-	2	4	-	-	1	
Connecticut	-	-	428	-	-	-	-	-	12	9	2	-	1	
MIDDLE ATLANTIC	3		332	-	5	1	2	2	59	56	19	2	23	
Upstate New York	2	-	160	- 2 -	-	1	1	2	5	14	5	-	6	
New Jersev	-		NN	_	- 1		1	_	24	18	10	-	3	
Pennsylvania	1	1	13	-	-	-	-	-	11	15	3	-	1	
FAST NORTH CENTRAL	1		2.542		-	2	4	1	44	116	9	1	6	
Ohio*	-		210	-	-	ī	3	ī	15	33	_	î	4	
Indiana	-	-	129	-	-	-	-	-	1	5	5	-		
Mindis	1		579	-	-		-	-	14	33	-		1	
Wisconsin	1	-	508	-	-	-	1	-	6	7	-	- I	-	
	4		124		,	,	•			22				
WEST NORTH CENTRAL Minnesota	-	-	626	-	-	-	1	-	3	22		1	10	
lowa	-		158	-	-	-	-	-	ī	5	-		-	
Missouri *	4	-	14	-	1	-	1	-	8	3	10	1.1	4	
North Dakota* South Dakota*	-		12	_	-	-			-	1	-	1	1	
Nebraska*	-	-	110	-	-	1	-		-	-	-	_	-	
Kansas	-	-	249	-	-		-	-	5	7	-	-	1	
SOUTH ATLANTIC	2	1	520	_	-		1	1	23	46	23	2	18	
Delaware	-	-	19	-	-	-	-	-	2	2			1	
Maryland	-	-	6	-	-	-	-	-	7	2	1	1	6	
District of Columbia	-		27	-	-		1.2	_	1	6		-	3	
West Virginia*	-	-	105	-	-	-	-	-	ĩ	4	-		-	
North Carolina	-	1	NN	-	-	-	-	-	1	3	3	-	4	
Georgia	-	- 25	-	-	-	-	- 1	-	1	3	-	-	1	
Florida*	2	-	353	-	-	-	1	1	9	21	13	1	3	
EAST SOUTH CENTRAL	-	_	48	_	_	1	2	-	16	31	7	1.1	3	
Kentucky*	-	-	39	-	-	-	-	-	-	10	4		3	
Tennessee	-		NN	-	-	1	2	-	16	14	3	-	-	
Alabama	-	_	6		-	-					_	12.5		
			U							i.				
WEST SOUTH CENTRAL	1	-	232	-	1	-	1	-	9	41	13	2	6	
Louisiana	1	_	S NN		_		1		- 7	15	1	- 2 -		
Oklahoma	NĂ	NA	NA	NA	-	NA	-	-	-	ŇĂ	NĂ	NA	-	
Техаз	-	-	229	-	1		-	-	8	25	6	2	6	
MOUNTAIN	1	-	171	1	1	_		-	26	60	8		5	
Montana	-	-	31		-	-	-	-	1	1	1	-	-	
Idaho*	-	- E.	21	-	-		-	-	1	-	-	1.2	1.1	
Colorado	-		116	-	-	-	_		8	12	2	- 2.5	4	
New Mexico	1	-	-		-	-	-	-	3	16	1	-	2.6 -	
Arizona"	-		NN -	1	1	-	Ē.		9	19	4	-	1	
Nevada	_	-	1	_	_	-		-	1.1	10	_	-		
PACIFIC	• /					•	-	e						
Washington	2	-	370		14	-	-		3	5	46	2		
Oregon	-	-	2	-	-	2	-	-	5	26	3	-	1	
California *	11	-		-	-	1	2	-	96	139	40	2	17	
Hawaii	1	2	26	-	-		_	-	-	1	-	-	4	
														-
Guam*	NA	NA	NA	NĂ	-	NA	-		-	NA	NA	NA	-	
Puerto Rico	NA	NA	NA	NA		NA	-		-	NA	NA	NA	-	
virgin Islands	-	-	-		-	-	-	-	-	-	_	-	-	

NA: Not available NN: Not notifiable

*Delayed reports:

Asep. Meng.: S. Dak. add 1 (1976), Mo. delete 2, Idaho add 1 (1977); Bruc.: Mo. delete 1 (1977); Chickenpox: N. Dak. add 14 (1976), Mo. delete 1, W. Va. add 1, Fla. delete 1, Calif. add 78, Guarn add 1 (1977); Hep. B: N. Dak. delete 4 (1976), Ohio delete 1, Mo. delete 2, Fla. add 1, Guarn add 1 (1977); Hep. A: N. Dak. add 5, S. Dak. add 15, Ky. delete 1 (1976), Nebr. delete 1, W. Va. adelete 3, Fla. delete 2, Ark. add 2, Ariz. delete 1 (1977); Hep. unsp.: N. Dak. delete 1, S. Dak. delete 7, Ky. add 2 (1976), Nebr. add 1, Ark. add 1 (1977); Melaria: Mo. delete 1 (1977).

Table III-Continued Cases of Specified Notifiable Diseases: United States Weeks Ending April 16, 1977 and April 17, 1976 – 15th Week

	MEASLES (Rubeola)		MENINGO	COCCAL IN TOTAL	FECTIONS	ML	MPS	PERTUSSIS	RUB	TETANUS		
REPORTING AREA		сими	LATIVE		сими	LATIVE						
	1977	1977	1976	1977	1977	1976	1977	CUM. 1977	1977	1977	CUM. 1977	CUM. 1977
UNITED STATES	2,246	22,788	14,513	36	643	585	469	8, 763	10	800	8,818	11
NEW ENGLAND	117	1,071	134	-	32	28	20	426	-	62	390	-
Maine		3	3		2		1	30	-		13	
New Hampshire*	13	244	3	-	3	2		65	-	22	83	-
Vermont	64	303	2	-	c R	8	5	73	-	14	154	
Massachusetts *		6	14	-	-	4	- í	34	_	14	13	
Connecticut	38	292	112	-	16	13	13	219	-	12	77	
MIDDLE ATLANTIC	343	2,942	3,172	3	92	74	27	545	2	150	2,355	-
Upstate New York	133	885	1,123	1	27	28	8	94	1	99	1,316	
New York City	14	123	133	1	17	18	11	219	1	25	136	
New Jersey • Pennsylvania	196	1,862	1,617	1	23	11	4	95	-	8 18	136	-
EAST NORTH CENTRAL	485	5,399	6,052	10	65	72	214	3,104	2	112	2,014	-
Ohio	40	318	181	3	28	25	15	452	-	30	529	
Indiana	269	2,655	1,150	4	7	4	14	174	-	27	621	
Illinois	41	666	2 1 9 2	1	8	20	55	1.050		24	150	-
Michigan *	88	1,313	1,921	-	6	6	85	1,061	-	11	214	-
WEST NORTH CENTRAL	285	4,157	287	2	39	44	104	2,142	-	35	270	2
Minnesota	115	692	100	2	17	9	-	3	-	1	9	-
towa	135	2,420	8	-	2	7	20	1,017	-	3	99	-
Missouri *	27	392	6		14	11	12	443		5	21	1
North Dakota		10	1	-	4	2	25	50	-			-
South Liakota	-	85	36	-	-	3	2	19	_	-	1	
Kansas	8	554	135	-	1	11	45	603		26	140	1
SOUTH ATLANTIC	116	1,304	960	9	142	120	24	344	2	153	823	4
Delaware	1	19	106	1	2	2	5	66	_	1	14	-
Maryland		122	414	1	10	9	1	22	_	-	-	-
District of Columbia	74	750	120	-	_	2		2	-	-	100	- T
Virginia"	6	55	150	-	8	12	9	PR -	-	9	53	1
North Carolina	6	24	-	2	37	20	í	15	-	62	327	IX - 1
South Carolina	19	112	1	-	12	19	-	9	-	-	152	-
Georgia	2	206 15	209	3	28 36	11 41	- 8	8 92	- 1	4 26	35 53	3
		6.20	354	7	73	30	17	453		144	1 373	
EAST SUUTH CENTHAL	10	121	335	<u> </u>	17	5	8	66		3	31	1
Теппезсее	63	339		1	19	18	6	252	-	143	1,301	-
Alabama	15	55	-	2	23	11	-	123	-	19	37	
Mississippi	1	13	14	4	13	5	3	12	-	1	3	
WEST SOUTH CENTRAL	136	1,237	344	1	114	92	20	732	1	45	452	3
	1	56	26	<u> </u>	42	14	1	27	1		1 0	1
Oklahoma	NÂ	41	204	2 C - 1	3	15	NĂ	283	NA	NÂ	20	-
Texas*	135	1,139	114	-	62	60	16	414	-	44	422	2
MOUNTAIN	145	1,329	2,881	2	17	22	10	360	-	6	243	-
Montana	101	798	106	-	2	2	-	2	-	-	7	-
Idaho		28	1,147		1	1	5	70	_	-		-
Wyoming	20	247	124	1	1	-	-	159		-	1 100	
Colorado	29	341	120	a - 2 -	5	1	2	150		-	190	_
Arizona	3	90	200	1	6	5			<u> –</u>	-	1 i i	C 100 - 10
Utah	1.0	5	1,277	12 F	-	4		52	-	1	41	-
Nevada	11	54	17	10 -	1	-	-	1	-	-	3	1
PACIFIC	530	4.821	72 9	2	70	94	33	657	3	71	899	1
Washington	12	257	75		11	17	9	143	1	3	230	-
California	06	4.401	630		6	42	17	264	2	8	50	1
Alaska		48	-	<u> </u>	9	4		17	-		- 007	
Hawaii	-	6	2	-	í	2	1	8	- T.	1	6	-
0			V. Star		-			r b				
Puerto Rico	NA NA	270	70	_	216	2	NA NA	215	NA	NΑ	11	3
Virgin Islands	-	6	2		27	-	3	135	-	-	-	-

NA: Not available
*Delayed reports: Measles: N. Hamp. add 53, Mass. delete 3, Mo. add 7, Va. delete 1, Tex. delete 2 (1977); Men. Inf.: Mo. add 7 (1977); Mumps: Mo. delete 10 (1977); Pertussis: Mich. add 2, S. Dak. add 2 (1976), Mo. delete 1 (1977); Rubella: N. J. delete 4, Mo. add 1 (1977).

MORBIDITY AND MORTALITY WEEKLY REPORT

Table III-Continued Cases of Specified Notifiable Diseases: United States Weeks Ending April 16, 1977 and April 17, 1976 - 15th Week

		Weeks	S Enur			TYPHUS SEVER		April 17		BARIES				
	TUBERCULOSIS		TULA-	TYP	HOID	TICK-E	BORNE		VENEREAL	DISEASES (Civili	an Cases	Daly)		RABIES
REPORTING AREA			I S NO A	'	, v n	(RM	ISF)		GONORRHEA		SY	PHILIS (Pri.	& Sec.)	ANIMALS
	1077	CUM.	CUM.	1077	CUM.	1077	CUM.	1077	CUMULA	ATIVE	4077	сими	LATIVE	CUM
		1977	1977	13//	1977		1977	1977	1977	1976	19//	1977	1976	1977
UNITED STATES	551	8,371	19	11	104	1	26	17,462	264, 834	277,742	418	6,313	7,470	695
NEW ENGLAND	19	304	1	_	5	-	-	429	6,972	7,631	27	232	214	8
Maine	3	25	-	H.	-	-	_	24	576	640	-	7	6	8
New Hampshire		8	-	-	-	-	-	31	271	194	1	1	3	
Vermont	2	14		-	-	_		12	173	156	2.2	3	2	-
Massachusetts	5	20	1		3	- 2 -		195	512	3,024	- 22	115	1 2 2	- 2 -
Connecticut	5	80	-	-	ī	-	-	119	2,391	2,500	4	46	37	-
	108	1.320	_	1	21	_	2	2,015	29,617	29,961	70	909	1.287	8
Upstate New York	34	210	-	-	3	-	2	427	4,431	4,707	9	80	80	7
New York City	47	457			8	-	-	712	13,128	12,852	42	567	830	
New Jersey	16	323	-	1	8	-	-	341	4,565	5,073	10	123	181	1
Pennsylvania	11	026		-	2	_		232	/, 49 3	1, 329	9	139	196	
EAST NORTH CENTRAL	90	1,368	2	3	13	-	- e	2,349	39,144	44,554	29	716	696	21
Ohio*	13	157	1	2	-	-		158	3,449	4.029	4	179	162	
Indiana	36	512		- E	1	1	-	646	13,266	16.030	13	384	371	4
Michigan *	36	423	100	-	7	-	-	598	8,927	9,094	3	72	88	2
Wisconsin*	5	59	1	-	-	-	-	290	3,817	4,184	1	33	38	14
WEST NORTH CENTRAL	27	270	3	2	8	-	3	830	13,831	14,006	11	143	139	152
Minnesota	6	57	-	-	1	-	-	196	2,462	2,700	5	47	32	54
lowa	1	26	-	-	-	-	-	99	1,666	1.786	1	11	17	21
Missouri *	13	105	2	1	4	_	2	355	5,862	5,439	4	50	53	14
North Dakota	-	13	1	_	_		_	28	220	216	_		2	32
Nebraska	1	ĩĩ	÷	-			_	54	1,103	1,178	1	16	12	-
Kansas*	5	49		1	3	-	1	86	2,143	2,279	-	18	23	12
SOUTH ATLANTIC	112	1,932	6	-	15	1	11	4,525	63,308	67,405	127	1,795	2,183	80
Delaware*	-	15	-	-	-	-	-	58	773	948	-	12	17	-
Maryland*	21	288	-	-	-		-	550	7 + 99 1	9,269	5	118	196	-
District of Columbia	5	200			-	_	-	404	3, 743	4,591	15	189	175	-
Virginia	10	203	- 2 -		2		-		862	849	10	119	14	2
North Carolina*	13	339	1		ī	1	7	661	9,625	9,938	30	267	453	2
South Carolina	7	178	2	-	-	-	-	255	5,760	6,289	2	80	121	-
Georgia [*]	9 40	218 514	3	_	7	-	2	1,294	12,480	12,612	21	326	249	59
EAST SOUTH CENTRAL	58	141	- 2	_	1	-	5	1,571	22,753	25,115	6	201	308	27
	20	251	1 2 1	_	_		3	761	9,118	3,272	3	58	128	12
Alabama	- 9	201		-	1	-	ĩ	274	6,205	7.110	2	40	58	5
Mississippi	8	118	-	-	-	-	-	409	4,327	4,998		82	74	-
WEST SOUTH CENTRAL	61	931	3	-	1	-	5	1,925	33,982	38,063	67	8 50	856	284
Arkansas*	5	97	-	-	-	-	-	72	2,633	3,462	-	18	26	27
	11	182	-	-	_		-	684	4,887	5,486	29	176	1 82	2
Uklahoma	45	567	2	- NA	ī	NA _	4	1.169	23,556	25,573	3.8	637	610	105
TEX03		501						1,10,	257550	221213	50	051	010	130
MOUNTAIN	15	221	3	-	8	-	-	731	11,014	10,750	10	138	2 0 2	16
	1	1 5	1	_		_		28	552	549		-	3	10
Wyomine		15				-	12		303	229		9	5	
Colorado	-	33	2	-	6		-	180	2,794	2,693	4	38	55	-
New Mexico	2	37	-	-	-	-	-	102	1,619	2,185	-	24	58	-
Arizona*	7	105		_	1	-		219	3,165	3,035	3	55	57	6
Utah	3	12		_	1		1	58 95	642 1,396	630 864	3	4	2 13	
PACIFIC		1 070		-	2.5			3 9 7 7		10 000		1 225		
Washington	61 NA	1,278	1	5	32	12	1	199 L	44,213	40,257	V1 NA	1,329	1,585	99
Oregon	1	52	-	_	2	-	1 -	208	3,217	2,967	_	43	49	- C
California	46	963	1	4	28		- 1	2,522	35,387	31,987	69	1,218	1,465	90
Alaska		16		-			-	64	1,405	1,090		6	2	9
riawaii	14	187		-	1	_		94	948	787	2	13	26	-
Guam *	ΝA	16	-	NA	1	NA		NA	67	194	NA	,	,	-
Puerto Rico	NA	91		NA	2	NA	-	NA	841	766	NA	169	1 62	10
Virgin Islands	-	1	-	-	-	-	-	5	44	80	-	1	26	-
and the second second		-							The second second			-	DK UNC	

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NA: Not available
 Delayed reports: TB: Ohio delete 3, Md. delete 2, Ky. add 10 (1976), Mich. delete 3, Wisc. add 2, Mo. add 7, Kans. delete 1, Del. add 1, N. C. delete 3, Guam add 1 (1977); Tularemia: Ark. add 1 (1977); RMSF: Tex. add 1 (1976), Mo. delete 1, (1977); GC: Nev. add 1089 (1976), Ariz. delete 117, Guam add 6 (1977); Syphilis: Nev. add 8 (1976), Wisc. delete 5, Ariz. delete 7 (1977), An. rabies: Ga. delete 4 (1977).

MORBIDITY AND MORTALITY WEEKLY REPORT

Table IV Deaths in 121 United States Cities* Week Ending April 16, 1977 - 15th Week

	T	A	LL CAUSI	ES		Pneu-	T	ALL CAUSES					
REPORTING AREA	ALL	65 Years	45-64	25-44	Under	monia and Influenza	REPORTING AREA	ALL	65 Years	45-64	25-44	Under	monia and Influenza
	AGES	and Over	Years	Years	1 Year	ALL AGES		AGES	and Over	Years	Years	1 Year	ALL AGES
NEW ENGLAND	650	432	152	33	17	33	SOUTH ATLANTIC	1,163	665	336	84	31	55
Boston, Mass	168	110	38	8	7	9	Atlanta, Ga	1 37	75	44	9	2	5
Bridgeport, Conn Cambridge Marr	37	29	6	2	-	ź	Charlotte N C	203	34	16	22	í	4
Fall River, Mass.	17	12	4	ī	-		Jacksonville, Fla.	94	47	29	8	ź	2
Hartford, Conn	60	35	17	4	2	4	Miami, Fla.	108	68	28	6	4	4
Lowell, Mass	31	17	10	2	_	2	Norfolk, Va	53	26	12	4	5	2
Lynn, Mass.	25	21	3			3	Savannah Ga	42	27	22	2	2	5
New Haven, Conn	67	42	15	7	3	1	St. Petersburg, Fla.	86	68	17	1	_	7
Providence, R.I.	66	41	19	2	4	5	Tampa, Fla.	61	35	21	2	2	4
Somerville, Mass.	3	1	2	- 7	-	-	Washington, D. C Wilmington, Del	198	109	58	16	7	11
Waterbury, Conn.	31	25	6	-	-	2	winnington, Det	23	51	14	4	3	1
Worcester, Mass	54	34	15	2	-	2							
							EAST SOUTH CENTRAL	7 26	438	175	42	39	50
MIDDLE ATLANTIC	2.092	1.955	746	101	1.00	126	Birmingham, Ala.	1 35	79	31	10	9	12
Albany, N. Y.	55	38	12	1 1	4	-	Knovville Tenn	61	46	11	1	2	3
Allentown, Pa.	27	17	8	1	1	1	Lauisville, Ky.	93	58	17	11	5	8
Buffalo, N. Y.	128	86	25	5	5	9	Memphis, Tenn.	183	103	47	9	11	8
Camden, N. J.	41	22	10	4	2	1	Mobile, Ala.	62	34	18	5	2	4
Erizabeth, N. J	34	22	9	2	-	2	Montgomery, Ala Nachville Tenn	90	57	22	3	4	5
Jersey City, N. J.	68	46	13	3	5	1		70			-		
Newark, N. J.	109	43	35	16	9	5							
New York City, N. Y	1,501	940	311	98	44	29	WEST SOUTH CENTHAL	1,241	693	365	85	45	26
Philadelphia Pa.	308	168	93	27	12	20	Baton Rouge, La.		17	14	2	1	1
Pittsburgh, Pa.	248	162	63	9	7	15	Corpus Christi, Tex.	39	23	6	4	3	-
Reading, Pa.	34	29	4	-	-	2	Dallas, Tex.	1 99	109	64	15	5	5
Rochester, N. Y.	97	69	18	2	5	10	El Paso, Tex.	46	28	14	3	-	2
Scranton, Pa.	38	25	10	2	_	1	Houston, Tex.	3 10	161	90	32	7	5
Syracuse, N. Y.	81	52	22	4	1		Little Rack, Ark	65	38	17	2	8	2
Trenton, N. J.	58	34	12	8	1	4	New Orleans, La. 👾 .	1 20	59	38	11	7	-
Utica, N. Y	25	16	7	2	-	-	San Antonio, lex Shrevenort La	1 51	85	46	7	5	4
runkers, m. 1		25	a	5	-	2	Tulsa, Okla.	55 86	57	16	5	3	4
EAST NORTH CENTRAL	2.367	1.404	634	153	95	71	· · · · · · · · · · · · · · · · · · ·						
Akron, Ohio	62	38	15	2	7	-	MOUNTAIN	613	362	153	41	23	27
Canton, Ohio	50	30	13	4	2	2	Albuquerque, N. Mex	95	. 47	25	10	4	5
Chicago, III	514	295	140	52	15	16	Colorado Springs, Colo.	34	21	28	-	5	5
Cleveland, Ohio	213	113	65	9	12	4	Las Vegas, Nev.	25	12	28	3	5	3
Columbus, Ohio	131	68	37	15	5	4	Ogden, Utah	21	14	5	1		- E.
Dayton, Ohio	133	84	34	8	2	5	Phoenix, Ariz.	1 72	102	46	10	-	3
Detroit, Mich	313	184	82	21	11	7	Pueblo, Colo	34	27	4	1	1	6
Fort Wayne Ind	50	36	3	6	1	3	Tucson Ariz.	50	43	14	2	2	2
Gary, Ind	26	16	8	1	ī	2					•	-	
Grand Rapids, Mich	75	49	21	2	3	3							
Indianapolis, Ind.	139	79	42	5	7	4	PACIFIC	1,637	1,042	391	87	63	36
Milwaukee Wis	134	79	41	6	4	2	Fresno Calif	64	42	14	-	-	2
Peoria, III	56	33	13	3	4	2	Glendale, Calif.	19	13	5	1	ĩ	
Rockford, Ill	36	25	6	1	3	4	Honolulu, Hawaii	61	42	12	4	3	1
South Bend, Ind.	42	28	11	1	-	2	Long Beach, Calif.	106	212	30	3	4	3
Youngstown Ohio	52	40	10	í	1	-	Dakland Calif	79	55	120	<u>رد</u>	21	4
							Pasadena, Calif.	27	20	3	-	2	
							Portland, Oreg.	1 33	75	32	8	13	-
WEST NORTH CENTRAL	731	470	162	43	29	27	Sacramento, Calif San Diego, Colif	150	42	18	5	5	-
Duluth, Minn.	22	19	2	1	-	î	San Francisco. Calif.	130	92	30	7	2	* 1
Kansas City, Kans.	37	22	5	5	3	-	San Jose, Calif	56	31	19	3	-	ž
Kansas City, Mo.	128	86	24	5	9	5	Seattle, Wash	1 26	89	25	3	3	3
Lincoln, Nebr	20	14	17	1 7	-	-	Tacoma Wash	44	37	7		-	5
Omaha, Nebr	102	63	25	5	4	-	1000,	28	20	'	1	-	1
St. Louis, Mo.	150	88	44	11	3	7			-		-		_
St. Paul, Minn Wichita Kana	62	44	13	3	2	2	TOTAL	12,110	7,361	3,114	759	442	461
	58	50	14			7	Expected Number	11,850	7,263	3,064	738	375	478

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

The Morbidity and Mortality Weekly Report, circulation 62,700, is published by the Center for Disease Control, Atlante, 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 suc-

carefing Fiday. 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. Send mailing list additions, deletions, and address changes to: Center for Disease Control, Attn.: Distribution Services, GSO, 1-SB-36, Atlanta, Georgia 30333. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

April 22, 1977

Salmonella agona — Continued

United States the numbers of isolates of *S. agona* reported to CDC, by year, from 1969 to 1976 are: 0, 4, 44, 524, 864, 1,037, 1,333, and 1,461. In 1976, *S. agona* ranked third among the 10 most frequently reported serotypes from human sources.

The facility with which this organism was transmitted to 2 other patients in the same hospital in this outbreak, the finding of secondary cases in other outbreaks, as well as the rather dramatic increase in frequency of isolation of *S. agona* in this country all imply enhanced virulence. Though the factors underlying this virulence are uncertain at present, it may be speculated that this strain, as compared to

Follow-up on Botulism - Michigan

Forty-six cases of type B botulism were diagnosed in Michigan in the period March 31 - April 6, 1977, in persons who ate at a Mexican restaurant located in Pontiac. Michigan, from March 28 to March 31 (MMWR 26[14], 1977). All ill persons had neurologic symptoms and signs except 1. This individual had symptoms without objective neurologic abnormalities, but his stool had type B botulinal toxin identified by the Anaerobic Section at CDC. Forty-four patients were hospitalized. Thirty-three persons who were skin-test negative to trivalent (ABE) botulinal antitoxin of equine origin were treated with antitoxin. There were 2 immediate adverse, but mild reactions watery eyes in 1 case and an erythematous non-urticarial rash in the other - which resolved when treated with an antihistamine. Eight persons were admitted to an intensive care unit at some time during their course, and 3 required intubation and respiratory assistance. There were no deaths.

All of the patients had consumed a hot sauce either by adding it to their food or by eating a nacho which contained the sauce. When the food histories of patients and asymptomatic hospital employees who ate at the restaurant during the outbreak period were compared, illness was found to be significantly associated with consumption of hot sauce (p=.0002). Type B botulinal toxin has been identified in the stools of 4 clinically confirmed cases and also

Current Trends

Influenza - Worldwide

United States: Pneumonia and influenza mortality has remained within the expected range for all regions of the United States. Influenza activity has now decreased to normal levels throughout the United States with the exception of 4 states which are still reporting outbreaks of influenza-like illness. A/Victoria/3/75-like isolates continue to be made from sporadic cases throughout the country.

Several localized outbreaks of influenza have recently been reported. An outbreak of influenza involving 33 of 101 patients and 10 of 40 staff members in 2 Dalton, Georgia, nursing homes occurred in the latter part of March. The influenza A strains isolated are A/Victoria/3/75. Two of the 3 deaths that occurred during the epidemic were possibly related to influenza. None of the residents was vaccinated against influenza A.

Six of 9 residents of a domicile for the chronically ill in Yonkers, New York, developed a respiratory illness beginning in the first or second week in April, and an additional Patient died suddenly with no preceding acute illness. Three other *Salmonella* serotypes, may be transmitted by relatively low infectious inocula.

Antibiotic susceptibility tests of 759 Salmonella isolates, including 20 S. agona organisms referred to CDC in 1975, revealed that all 20 S. agona isolates were multiply sensitive compared to the 18.6% multiple drug resistance found in all other serotypes of Salmonella (p<.01). This finding emphasizes the unusual nature of multiple drug resistance in the S. agona organisms found in this outbreak.

Reference

1. Clark GM, Kaufmann AF, Gangarosa EJ, Thompson MA: Salmonella agona: Epidemiology of an international outbreak. Lancet ij:490-493, 1973

in 1 jar of the home-canned jalapeno peppers used in the preparation of hot sauce.

Reported by L Glass, MD, Bloomfield Hills; R Locey, MD, A Markowitz, MD, Oakland County Health Dept, Michigan; the staff of the following hospitals: St. Joseph Mercy Hospital, Pontiac; Crittenton Hospital, Rochester; William Beaumont Hospital, Royal Oak; Little Traverse Hospital, Petoskey; and St. Lawrence Hospital, Lansing, Michigan; and Medical College of Ohio Hospital, Toledo, Ohio; NS Hayner, MD, State Epidemiologist, Michigan State Dept of Public Health; TJ Halpin, MD, State Epidemiologist, Ohio State Dept of Health; Food and Drug Administration; Enterobacteriology Br, Bacteriology Div, Bur of Laboratories, Field Services Div, and Enteric Diseases Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: This is the second outbreak of botulism in the United States in 1977 caused by improperly home-canned jalapeno peppers. In this instance the peppers were home-canned in October 1976 because a shortage of these peppers was expected for the winter of 1976-77. It is not known whether this shortage was a factor in the previous outbreak.

In Michigan, as in most states, serving home-canned foods in a commercial establishment is a violation of state health regulations. If other commercial establishments attempt to avoid product shortages or rising prices by homecanning, more botulism cases may occur.

of the 9 patients died; findings at autopsy were consistent with viral pneumonia in all 3. An H3N2 influenza A virus has been isolated from autopsy specimens from 2 of the patients. None of the patients had been vaccinated against influenza. Two isolates of A/Victoria/3/75 were also made from unrelated sporadic cases in the community during the week of the outbreak.

Reported by E McGhee, MD, Dalton, Georgia; M Deck, RN, Whitfield County (Ga) Health Dept; JE McCroan, PhD, State Epidemiologist, and D Smith, BA, Georgia Dept of Human Resources; I Spiegland, MD, Montefiore Hospital, New York City; J Goldman, MD, Westchester County (NY) Health Dept; and JS Marr, MD, Director, Bur of Preventable Diseases, New York City Health Dept; and the National Influenza Immunization Program, CDC.

Worldwide: Influenza virus similar to A/Victoria/3/75 has been isolated in association with influenza-like illness this winter in several countries. Turkey has reported sporadic cases of influenza since January, and Egypt reported local outbreaks in January and February. Belgium has identified A/Victoria/3/75 as the virus associated with an outbreak reported there in February. Pakistan and Sri Lanka both reported an outbreak of influenza during February. Israel reported an outbreak of influenza-like illness in young adults at the end of February; 11 virus isolates were made. Sporadic cases of influenza-like illness during the month of March have yielded virus isolates in Ireland and Spain. Finland has reported influenza-like illness in several military units in southern Finland and scattered cases in the general population. Canada and Scotland have also reported viral isolates from scattered cases of influenza-like illness. In none of these countries have any isolates of virus strains

Primary and Secondary Syphilis - United States, February 1977

Reported cases of primary and secondary syphilis (provisional data) numbered 1,842 in February 1977, down 8.8% from the number reported in February 1976 (Table 1). This represents the 11th consecutive month in which a decline of cases has been reported. Also, early latent (less than 1-year duration) syphilis declined from 3,327 cases reported in February 1976 to 2,890 in February 1977, down 13.1%.

similar to A/Texas/1/77 been made, although Sri Lanka had

5/72 have been made. In Sweden, where scattered cases of

influenza-like illness have been reported, evidence of

both influenza A (A/Victoria/3/75) and influenza B has

Reported by the World Health Organization in the Weekly Epidemiological Record 52:114, 129, 1977; Communicable Diseases Scot-

land 77(10):iii, 1977; and by the Laboratory Centre for Disease

Control in the Canada Diseases Weekly Report 3:56, 1977.

Since mid-February, influenza-like illnesses have been reported from Rumania; 6 isolates similar to B/Hong Kong/

2 isolates of A/England/864/75.

been found.

Reported by the Venereal Disease Control Div, Bur of State Services, CDC.

TABLE 1. Summary of reported primary and secondary syphilis cases by reporting area, February 1977 and February 1976 – Provisional Data

Reporting Area by HEW Regions	Calendar Year February Cumulative January—February		Reporting Area by HEW Regions	Cal February Cs Janua		Calan Cum January	lar Year ulative -February	Raporting Area by HEW Regions	Fai	ruary	Calendar Yeer Cumulative January—February			
and the second second	1977	1976	1977	1976	and the second	February Calendar Year Cumulative January-February Reparting Area by HEW Regimes 1977 1976 February 1977 1976 February 1977 1977 1976 1977 1976 1977 1977 1978 La Chicage) 11 137 1976 1977 1978 La Chicage) 10 3 11 12 1 1976 1976 1977 1976 La Chicage) 10 3 11 12 1 11 12 1 11 12 1976 13 14 16 11 12 16 16 16 17 16<	1977	1976						
Connecticut	17	8	32	23	Illineis (Exel. Chicaeo)	17	11	38	25	Arizone	10	23	21	40
Maina	4	1	6	1 7	Chicago	58	75	150	165	California (Excl. LA & SF) .	144	196	305	385
Mussachusetts	42	34	84	69	Indiana (Excl. Indianapolis)	10	3	11	12	Los Angeles"	121	146	226	374
New Hampshire	0	0	0	0	India appolis"	4	6	8	8	San Francisco*	85	64	168	138
Rhode Island	2	3	3	5	Michigan	23	25	45	49	Hawaii	3	7	6	11
Vermant	1	0	3	1	Minneseta	13	8	25	22	Neveda	1	4	2	10
REGION I TOTAL	66	46	121	105	Ohio	54	57	112	93	REGION IX TOTAL	364	440	728	968
					Wiscensin	7	2	16	11			cours-		
New Jersey	24	50	63	92	REGION V TOTAL	186	187	405	345	Alaska	3	1	4	1
New Yark (Excl. NYC)	24	17	48	38				110.000		Idaho	0	5	2	8
New York City	187	178	334	421	Arkinses	8	12	1 11	20	Oregan	13	14	29	28
REGION IL TOTAL	236	245	446	561	Legislana	49	50	103	98	Washington	11	12	21	27
the second se			100 million (1990)		New Mexico	6	23	14	40	REGION X TOTAL	27	32	58	64
Delaware	- 4	7	9	13	Okinheme	3	11	12	24					
District of Columbia	51	60	112	110	Texas	231	126	350 -	264					
Maryland (Excl. Baltimora)	15	16	31	32	REGION VI TOTAL	297	222	490	446	UNITED STATES TOTAL	1,842	2,020	3,610	4,205
Beltimore	22	28	-45	67				(20.25.5	232354					
Panasylvania (Excl. Phila.)	14	18	27	33	lawa	4	9	8	11			1		
Philadelphia	27	34	51	49	Kansas	8	9	14	15	Puerte Rico	52	50	106	85
Virginia	49	51	91	105	Missouri	9	9	22	40	Virgin Islands	3	7	4	11
West Virginia	1	4	1 1	6	Nebraska	11	2	12	5	United States, Including				
REGION III TOTAL	183	218	367	415	REGION VII TOTAL	32	29	56	71	Outlying Arms	1,887	2,077	3,720	4,301
Alabama	9	17	19	29	Colorado	9	9	24	30					7.1
Florida	187	202	377	475	Montana	0	2	0	3					
Georgia (Excl. Atlanta)	61	57	120	106	North Dakota	1	0	1	1					
Atlanta*	37	56	72	101	South Dakota	1	1	1	1	Note: Cumulation totals include	معاندهم الم	م المعرب المالية الم		
Kentucky	7	24	13	32	Utah	0	0	2	1	months	LUNINGCI III		aports thro	ugn press
Mississippi	31	29	48	44	Wyaming	٥	0	2	4	Source: CDC 9 98 HEW.CDC.8	SS.VD Co	tent Divisio		Georgia
North Caroline	81	145	177	239	REGION VIII TOTAL	11	12	30	40				a, Auenti,	200.9.4
South Carolina	14	27	43	71					10175	1				
Tegnessee	14	32	36	73	1		1	1						
REGION IN TOTAL	441	589	906	1,170										

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

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