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MORBIDITY AND MORTALITY WEEKLY REPORT

Epidemiologic Notes and Reports

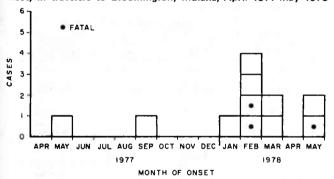
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Epidemiologic Notes and Reports

Legionnaires' Disease — Bloomington, Indiana

Eleven Legionnaires' disease cases with onset in the period from May 1, 1977, through May 31, 1978, in persons who visited Bloomington, Indiana, less than 2 weeks before becoming ill have been confirmed (Figure 1). All cases had pneumonia; 3 were fatal. The patients ranged in age from 34 to 71 years, and 9 were men. Eight cases were confirmed by 4-fold or greater rises in serum indirect fluorescent antibody titer and 3 by examination of lung tissue by direct fluorescence.

FIGURE 1. Cases of confirmed Legionnaires' disease, by month of onset, in travelers to Bloomington, Indiana, April 1977-May 1978



Ten of the 11 patients had stayed overnight in the Indiana Memorial Union (IMU), a hotel and convention complex owned by and located on the campus of Indiana University. The other patient had not been in the IMU on his visit to Bloomington.

A telephone survey of a random sample of 118 guests registered at the IMU in the first week of May 1978 identified 2 in whom pneumonia developed in the 2 weeks after departure. Both illnesses were confirmed Legionnaires' disease cases and are included in Figure 1.

Two studies are being conducted to determine whether exposure to the IMU poses an unusual risk of infection with the Legionnaires' disease bacterium and to identify additional cases. Approximately 1,000 guests registered at the IMU and other Bloomington hotels in the first week of May are being queried by mail about illness following their visits, underlying medical problems, and activities in Bloomington. Employees of the IMU and other Bloomington hotels are being asked about previous illness and activities within the hotels. Serum specimens are being taken from employees for measurement by indirect fluorescence of antibodies to the agent of Legionnaires' disease.

Reported by J Mohatt, T Bonus, Indiana University; R Telle, MD, State Epidemiologist, Indiana State Board of Health; and Bacterial Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: Discovery of a common history of travel in 11 cases, 9 of which had previously been categorized as sporadic cases, suggests a common source of exposure, but the broad distribution of these cases over 13 months rules against a source discrete in time. The surveys in progress may indicate whether or not the source is likely to be in or around the IMU or to be more widely distributed.

Lead Paint Poisoning in an Adult — Massachusetts

A 22-year-old male presented to the emergency room of a Boston hospital on February 23, 1978, complaining of several weeks of colicky, abdominal pain without nausea or vomiting. Examination revealed lead lines at the gum margins, diffuse abdominal tenderness with decreased bowel sounds, and no gross evidence of peripheral neuropathy. The hematocrit was 28.6% with approximately 5% basophilic stippled cells. X rays of the chest, kidneys, ureters, and bladder were normal. The patient was admitted to the hospital with a presumptive diagnosis of lead poisoning. A lead level on admission was 118 μ g/dl, and the free erythrocyte protoporphyrin (FEP) level was 139 μ g/dl. Treatment

consisted of intravenous CaEDTA (25 μ g/kg/day in 3 divided doses) for a total of 6 days. All symptoms resolved within 3 days, and by the sixth day after admission the lead level was 70 μ g/dl.

The patient had been employed by a small company for the past 4 months as a lead-paint stripper doing home deleading jobs. This was done by power sanding and by manual scraping, and while on the job, the patient had not used the paper mask with which he had been provided.

His 6 co-workers were asked to come to the hospital for lead tests. All were found to have elevated lead levels (72-108 μ g/dl), although none were symptomatic. After the

Lead Paint Poisoning — Continued

initial evaluation all were eventually admitted to one of several area hospitals and treated with intravenous CaEDTA (25 μ g/kg) on either a 1-day or a 3-day protocol.

Of the 1.8 million dwelling units in Massachusetts, roughly two-thirds (1.2 million) were built before 1950, when the lead content of paint often exceeded 1%; the lead content of most interior paints has been markedly lower since 1950. Because of legislation passed in 1973 ordering the removal of existing lead paint in dwellings where children under 6 years of age reside, there has been an increase in the number of people engaged in deleading homes. Much of this is undertaken by small private firms that operate without state licensure and are not obliged to monitor employee

lead levels or to enforce the wearing of protective equipment. Consequently, many of these workers are at risk of developing elevated lead levels (1).

Editorial Note: It is well-recognized (and is demonstrated by this report) that elevated blood lead levels may not be accompanied by symptoms, and practitioners must be aware of the possibility of lead paint poisoning in adults in this occupational group.

Reported by D Rosenfeld, MD, Boston City Hospital and the Boston University School of Medicine, Boston; E Alpert, MD, R Cecil, BA, J Diggs, MD, B Powers, MD, Boston City Hospital.

1. Feldman RG: Urban lead mining: Lead intoxication among deleaders. N Engl J Med 298:1143-1145, 1978

Injuries Due to Falls — Washington

Excluding motor vehicle deaths, falls are the greatest cause of injury-related deaths in the United States. Each year approximately 16,000 persons die from injuries due to falls, and in Washington State the annual number of deaths from falls is approximately 300. In an attempt to examine fatalities due to falls and to determine patterns among nonfatal injuries caused by falls, a retrospective epidemiologic study of the nature and causes of injuries attributed to falls was conducted by the Washington State Department of Social and Health Services for CDC.

Findings from that study were made from several data bases covering approximately 12,000 injuries associated with falls. Because all data bases were not standardized, the data cannot be presented as 1 study nor can comparisons be made between the studies that make up the report. The following summaries state the results of separate studies

Continued on page 197

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

[Cumulative totals include	revised and delayed reports through previous weeks
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NES CONTRACTOR OF THE PERSON O	22nd WE	EK ENDING		CUMULATIVE, FIRST 22 WEEKS			
DISEASE	June 3, 1978	June 4, 1977†	MEDIAN 1973-1977††	June 3, 1978	June 4, 1977†	MEDIAN 1973-1977††	
Aseptic meningitis	58	43	47	853	3 44	820	
Brucellasis	2	9	4	57	84	78	
Chickenpox	5.412	4,486	4,486	98,601	136,963	124,870	
Dightheria	3	1	2	36	45	102	
Enconholisia J Primary	19	12	14	237	257	317	
Encephalitis Post-Infectious	_	9	8	70	83	119	
(Type B	241	339	192	6,112	6,895	4,661	
Hepatitis, Viral Type A	534	5 53	699	11,773	13,505	15,262	
Type unspecified	145	150	1 099	3,609	3,763	13,202	
Malaria	17	8	5	198	167	112	
Measles (rubeola)	1,206	2,610	1.073	16,499	42,377	19,739	
Meningococcal infections, total	52	27	26	1,211	9 3 8	747	
Civilian	51	27	26	1,196	933	729	
Military	1	_	-	15	5	17	
Mumps	416	395	1.166	9,918	12,820	35,712	
Pertussis	16	11		757	3 37		
Rubella (German measles)	696	680	680	10,466	15,243	12,130	
「etanus	7	4	3	28	22	27	
Tuberculosis	436	508	553	12,095	12,598	13,453	
Tularemia	_	4	4	31	49	40	
Typhoid fever	8	12	6	173	1 46	138	
Typhus, tick-borne (Rky. Mt. spotted fever)	20	41	26	137	221	135	
Venereal Diseases:							
Gonorrhea Civilian	14,654	15,526	16,577	385,168	392,087	394,959	
Military	421	471	471	10,044	11,216	12,549	
Syphilis, primary and secondary Civilian	349	268	358	8,639	8,668	10,570	
Military	3	5	5	130	1 29	146	
Rabies in animals	67	59	59	1,239	1,226	1,226	
	_						

Table II. Notifiable Diseases of Low Frequency: United States

and the professor frame or ready than 1977. The final	CUM.		CUM.
Anthrax:	3	Poliomyelitis, total:	_
Botulism: *	49	Paralytic:	_
Congenital rubella syndrome:		Psittacosis: * N.H. 2, Minn. 1	47
eprosy: * Pa. 1		Rabies in man:	-
eptospirosis: Wash. 1	18	Trichinosis:*	18
Plague:		Typhus, murine: Tax. 1	15

[†] Delayed reports received for calendar year 1977 are used to update last year's weekly and cumulative totals.
†† Medians for Gonorrhea and Syphilis are based on data for 1975-1977.

*Delayed reports: Botulism: Calif. 1; Leprosy: Calif. 9; Psittacosis: Tex. 1, Trichinosis: Calif. 1

Table III

Cases of Specified Notifiable Diseases: United States Weeks Ending June 3, 1978 and June 4, 1977 — 22nd Week

	ASEPTIC	BRUCEL-	CHICKEN-	DIBUT	HERIA		NCEPHALIT		ПЕ	PATITIS, V			4014
AREA REPORTING	MENIN- GITIS	LOSIS	POX	DIPHI	HENIA		Arthropod: Unspecified	Past In- fectious	Type B	Тура А	Type Unspecified	MA	LARIA
	1978	1978	1978	1978	CUM. 1978	1978	1977 [†]	1978	1978	1978	1978	1978	CUM 1978
UNITED STATES	58	2	5,412	3	36	19	12	-	241	534	145	17	198
EW ENGLAND	£	-	554	-	-	_	-	_	4	18	15	-	7
Maine	1	-	172	-	-	-	-	-	1	2	1	-	1
New Hampshire	_	_	22 14	_	_	_	_	_	_	3	_	-	1
Vermont	2	_	211	_	_	_	_	_	_	3 2	9	-	1
Massachusetts	_	_	56	_	_	_	_	_	_	3	-		
Connecticut	2	_	7 9	-	-	-	-	-	3	5	5	-	4
IDDLE ATLANTIC	12	-	653	-	1	3	1	-	31	39	17	4	44
Upstate New York	4	-	536	-	-	1	-	-	2	15	2	1	7
New York City *	-	-	79	_	ı	_	-	-	11	10	5	2	19
New Jersey *	6 2	-	NN 38	_	_	2	_ 1	_	18	14	10	1	12
AST NORTH CENTRAL	4	_	2,355	_	_	2	_	_	52	83	15	1	12
Ohio		_	571	_	_	2	_	_	9	31	-	-	- 12
Indiana*	_	-	325	_	-	_	_	_	6	6	2	-	3
Illinais	59	_	249	-	-	-	_	-	23	31	4	1	3
Michigan	4	-	658	-	_	-	-	-	11	13	8	-	5
Wiscansin *	-	-	552	-	870	_	: 	-	3	2	1	•	1
EST NORTH CENTRAL	1	-	694 -	-	1_	2	-	_	9	34	= =	-	11
Minnesota	_	_	489		_	_	= =	Ξ	6	16 4	_	_	3
Missouri *	1	_	10	_	1	1	_	_	1	3	_	_	4
North Dakota	_	_	14	_	_	_	_	_	_	2	_	_	
South Dakota	-	-	10	_	_	_	_	_	_	_	_	_	_
Nebraska	-	-	16	_	_	-	_	_	1	1	_	_	3
Kansas	-	-	155	-	-	1	-	-	1	8	=	-	1
UTH ATLANTIC	7	-	489	-	-	3	2	-	33	49	24	4	40
Delaware	-	-	-	_	-	_	-	-	-	_	-	-	1
Maryland	1	_	128	_	_	2	1	_	_	_	-	-	9
District of Columbia	3		56	_	_	_	1	_	1	3	11	2	10
West Virginia *		-	184	_	_	_		_	4	í	-	-	1
North Carolina	_	-	NN	_	_	_	_	_	8	3	6	-	î
South Carolina	_	-	3	-	-	1	-	_	1	i	_	-	2
Georgia	3	_	118	_	_	-	-	Ξ	5 14	9 32	7	1 1	12
											•	•	
AST SOUTH CENTRAL Kentucky	4	_	208 181	-	_	1	1	_	14	29 10	_		3 1
Tennessee	2	_	NN		_	1	1	_	7	10	_	_	1
Alabama	2	_	4	_	_	-	_	_	2	10	_	_	1
Mississippi	_	-	23	-	-	-	_	-	2	9	-	-	-
EST SOUTH CENTRAL	6	2	170	-	1	3	4	-	17	77	34	2	- 11
Arkansas	1	-	5	-	1	-	-	-	-	7	6	- "	
Louisiana I	1	_	NN	-	-	_	-	-	4	12	1	-	3
Oklahoma *	2	2	165	_	-	2 1	1	_	2 11	6 6 2	22	-	-
Texas	_					1		-		52	23	2	8
OUNTAIN	1	Ī	135	_	3	-	-	-	11	52	14	-	3
Montana	-	_	56 10	_	_	-	-	1	1	3	1 -	-	-
Wyoming	_	_	10		_	_	_	1	-	21	_	= 2	
Colorado	_	_	58	_	2	_	_	-	4	4	3		1
New Mexico	1	_	5	-	_	_	-	_	3	12	3	-	
Arizona	_	-	NN	-	-	-	-	-	1	-	1	-	_ 1
Utah	72	= _	1 5	- 2		_	_	= _	1	11	6	_	1
ACIFIC	18	_	154 129	3	30 27	5 —	4	_	70 8	153 22	26 1	6	67 3
Oregon	_	_	-	_	-	_	2	<u> </u>	8	27	4	_	3
California *	15	_	_	-	_	- 5	2	-	51	99	20	5	49
Alaska	1	-	7	3	3	-	-	-	1	2	_	_	1
Hawaii *	2		18	9					2	3	1	1	11
uam *	N A	NΑ	NA 3	NA —	-	NA -	-	-	NA —	N A 3	NA 1	NA	_
	_	_										_	4

NN: Not notifiable

NA: Not available

1Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

*The following delayed reports will be reflected in next week's cumulative totals: Asep. meng.: NYC +1, Ind. +1, Calif. +4; Chickenpox: NYC +124, Ind. +357, W. Va. +280, Calif. +141, Guam +30; Enceph.: NYC +1, Ind. +1, Mo. +1, Calif. +2; Enceph, post: Wis. +1, Calif. +1; Hep. B: NYC +9, N.J. -7, Pa. +12, Ind. +1, Wis. -1, W. Va. +2, Ariz. +5, Calif. +5; Hep. A: NYC +17, N.J. -5, Pa. +16, Ind. +6, Wis. -1, W. Va. +13, Ariz. +32, Calif. +88, Guam +7; Hep. unsp.: NYC +8, N.J. -12, Pa. +2. Ind. +1, Okla. -1, Ariz. +9, Calif. +36, Guam +5; Malaria: NYC +2, Calif. +12, Hawaii +1

Table III-Continued

Cases of Specified Notifiable Diseases: United States Weeks Ending June 3, 1978 and June 4, 1977 — 22nd Week

	MI	ASLES (Rube	ola)	MENINGO	COCCAL IN	IFECTIONS	М	UMPS	PERTUSSIS	RUE	IELLA	TETANUS
REPORTING AREA	1978	CUML	LATIVE	1978	CUMU	LATIVE	1978	CUM.	1978	1978	CUM.	CUM.
	1370	1976	1977 [†]	1576	1978	1977 [†]	1576	1978	1870	1370	1978	1978
UNITED STATES	1,206	16,499	42,377	52	1,211	938	416	9.918	16	696	10,466	28
NEW ENGLAND	71 55	1,782 1,231	1,942 35	1_	58 5	41 3	12 6	628 458	_	35 1	574 139	-
New Hampshire*	1	29	474	-	6	3	-	9	-	10	94	-
Vermont	_ 15	24 183	263 518	1	2 15	4 13	- 3	5 6 l	_	2 12	27 138	_
Rhode Island	-	4	38	-	13	_	2	22	-	1	29	-
Connecticut	_	311	613	-	17	18	1	73	-	9	147	-
MIDDLE ATLANTIC	158	1,427	5,990	21	201	120	17	388	1	140	1,992	ı
Upstate New York New York City*	131 5	965 15 0	2,376 312	6 6	67 46	29 2 7	9	136 94	<u>i</u>	57 5	372 48	_
New Jersey	14	52	125	4	42	27	5	83	-	56	1,244	-
Pennsylvania *	8	260	3,177	5	46	37	1	75	-	22	328	1
EAST NORTH CENTRAL	600	6,783	8,726	5	99	105	206	3,646	2	315	4,537	1
Ohio	23	317 109	819 3,976	1 1	22 20	35 7	46 27	464 179	_	- 67	718 402	- 1
Illinois	29	455	1,123	_	6	27	29	1,219	2	6	276	-
Michigan	469	4,686	770	1	41	24	58	1.083	_	181	1,902	-
Wisconsin 7	70	1,216	2,038	2	10	12	46	701	-	61	1,239	-
WEST NORTH CENTRAL	33	327	8,466	-	42	50	16	1,807	2	49	475	3
Minnesota	1	28	2,033 4,068	_	8 5	19 7	1	13	2	7	48	_
lowa	_	4 E 7	897	_	19	14	3 1	109 1,099	_	11	40 81	
North Dakota*	ç	177	16	-	3	i	_	9	-	5	70	_
South Dakota	-	-	65	-	2	4	-	6	-	-	80	-
Nebraska *	22	3 64	180 1,207	_	_ 5	1 4	11	15 556	_	- 26	34 122	- 3
SOUTH ATLANTIC	211	3,577	3, 191	9	319	212	15	533	_2	55	817	3
Delaware		5	22	_	10	17	-	33	_	-	32	-
Maryland	-	3	286	2	15	13	-	51	-	1	3	1
District of Columbia	- 61	2,199	11 1,762	1	1 41	16	- 4	1 90	-	- 5	1 210	
West Virginia*	58	767	169	_	5	8	2	133	-	10	247	_
North Carolina	5	88	47	1	61	51	1	46	-	5	164	-
South Carolina Georgia	11	178 12	129 646	1	21 39	20 33	1	14 56	2	3	22 1	, I =
Florida	76	325	119	3	126	54	7	109	15	31	137	2
EAST SOUTH CENTRAL	74	1,029	1,602	2	102	107	91	840	2	13	301	1
Kentucky	4 50	85	929	_	16	19	68	166	-	7	50	1
Alabama	3	755 52	577 7 2	2	26 32	24 43	4 14	369 260	2	3 2	116 11	_
Mississippi	17	137	24	Ξ	28	21	5	45	-	1	124	-
WEST SOUTH CENTRAL	28	877	1,873	9	185	167	31	1,340	3	19	756	12
Arkansas Louisiana	12	10 352	26 71	4	14 70	9 60	2	557 48	2	- 12	57 428	1
Oklahoma	-	12	51	*	16	63 6	_	48	_	12	10	2
Texas	16	503	1,725	5	85	92	29	731	1	6	261	8
MOUNTAIN	6	180	2,193	1	26	23	3	179	-	35	148	-
Montana *	2	97	1,044	-	1	2	2	11	-	1	12	
Wyoming	_	1 -	105 4	-	2	3 1	_	20	_	_	3	_
Colorado	3	23	463	_	2	- i	_	55	_	2	33	—
New Mexico* , , . ,	-	_	246	1	5	6	-	15	-	_	3	-
Arizona*, Utah	_	15 31	245 5	_	9 4	9 1	-	5 69	-	25 1	65 23	Ξ
Nevada	1	13	81	_	3	i	1	4	-	6	9	_
PACIFIC	25	517	8,394	4	179	113	25	557	4	35	866	7
Washington Oregon	4	50	435	-	31	12	3	155	2	1	89	-
California*	6 15	134 329	290 7,592	_ 3	9 131	16 62	5 16	66 307	2	4 30	70 705	7
Alaska Hawaii		1	55	-	5	21	1	6	-	-	1	_
		3	22	<u> </u>		2	18				1	
Guam *	N A	1	4			200	NA	15	NA	NA	-	-
Puerto Rico	13	131	665	-	2.	_	23	803	1	ì	12	3
Virgin Islands	-	6	10	-	_	-	-	1	1,00	7	1	-

NA: Not available

[†] Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

^{*}The following delayed reports will be reflected in next week's cumulative totals: Measles: N.H. +4, Mass. -2, NYC +9, Pa. +6, Ind. +19, Wis. -1, N.Dak. -1, N.Dak. -1, Nebr. +1, Va. -1, W. Va. +96, Mont. -2, Ariz. +2, Calif. +24, Guam +16; Men. inf.: NYC +3, Ind. +1, Wis. +1, Ariz. +1, Calif. +4; Mumps: NYC +3, Ind. +23, W. Va. +3, Calif. +18, Guam +3; Pertussis: NYC +1, N. Mex. +2, Calif. +8; Rubella: Mass. -2, NYC +5, Ind. +40, N. Dak. -1, W. Va. +32, Ariz. +6, Calif. +30

MORBIDITY AND MORTALITY WEEKLY REPORT

Table III-Continued

Cases of Specified Notifiable Diseases: United States Weeks Ending June 3, 1978 and June 4, 1977 — 22nd Week

	TUBE	RCULOSIS	TULA- REMIA		HOID VER	TYPHUS TICK-B	ORNE			IISEASES (Civilia				RABIE
REPORTING AREA						(RM	SF)		GONORRHEA		SYI	'HILIS (Pri. I		ANIMA
	1978	CUM. 1978	CUM. 1978	1978	CUM. 1978	1978	CUM. 1978	1978	CUMULA 1978	1977 †	1978	1978	1977 †	CUM. 1978
				_								<u>1</u>		J
UNITED STATES		12,095	31	8	173	23		14,654	385,168	392.087	349	8,639	8,668	
EW ENGLAND	17	402 24	_	_	34	_	2	430 39	10.018 772	10,231 745	8 1	271 7	347 8	5 4 9
New Hampshire*	_	8	_	-	5	-	-	24	455	400	-	4	2	-
Vermont	1	17	-	-	1	-	_	9	254	271	-	1	4	
Massachusetts	11	234 27	_	_	19 4	_	_	180 38	4,376	4,434	5	175	258	
Rhode Island	2 2	92	_	-	5	_	2	140	723 3,438	824 3,557	2	10 74	71	
IIDDLE ATLANTIC	65	2,062	1	1	19	_	5	1,428	41,564	40,664	36	1,131	1,231	2
Upstate New York*	7	302	1	1	7	-	3	284	6,870	380 رن	7	87	114	1
New York City*	26	723	-	-	8	-	_	624	16,006	17,032	24	794	773	
New Jersey	19	538	-	-	2	-	-	81	7,424	6,491	4	127	157	
Pennsylvania	13	499	-	_	2	-	2	439	11,264	10,761	1	123	187	
AST NORTH CENTRAL	58 12	1.846 334			7 2	1	1	3,195 1,308	57,432 15,191	59,874 15,234	63 4	967 192	954 237	4
Ohio	16	225	_	_	_	_	_	192	5,591	5,738	4	52	68	
Illinois	9	668	_	_	1	1	1	1,221	18,119	19,677	49	604	501	1
Michigan*	13	532	_	-	4	-	-	571	13,233	13,557	4	89	104	•
Wisconsin	8	87	_	-	_	-	-	203	5,298	5,668	2	33	44	2
EST NORTH CENTRAL	18	428	8	-	10	-	4	909	19,407	20,311	8	214	209	28
Minnesota	4	50	-	-	4	-	-	174	3,487	3,622	6	96	65	9
lowa		16	7	_	2	_	_ 3	109 352	2,247 7,931	2,427 8,555	-	23 55	18 73	-
Missouri*	12	183 19		_	2	_	-	12	374	378	_	2	2	3
North Dakota South Dakota	2	38	_	_	_	_	_	25	709	535	_	1	1	3
Nebraska	_	5	_	_	_	_	_	95	1,483	1,758	2	7	21	1
Kansas	_	47	1	-	2	-	1	1 42	3,176	3,036	-	30	29	1
OUTH ATLANTIC	105	2,616	3	3	22	12	75	2,886	93,078	95,490	89	2,323	2,484	14
Delaware	1	20	_	-	-	2	2	36	1,334	1,317	_	4	16	
Maryland	14	417	3	_	1	_	7	477 188	12,149	12,135	3	179	166	
District of Columbia	7 17	142 289	_	1	1 5	3	23	322	6,328 3,618	6,266 9,851	14 8	186 204	263 246	
Virginia*	1	90	_		1	,	4	41	1,350	1,402	-	8	1	
North Carolina*	14	411	_	ì	2	4	22	364	13,030	14,281	6	205	362	
South Carolina	9	218	_	_	ī	_	8	518	8,964	8,877	7	106	108	2
Georgia	21	359	_	-	2	3	9	NA	17,113	18,418	20	567	466	10
Florida	21	670	_	1	9	-	-	940	24,192	22,943	31	864	856	1
AST SOUTH CENTRAL	43	1,173	4	-	1	2	21	1,334	33,666	35,102	17	426	300	6
Kentucky*	12	244	1	-	1	2	3	173	3,972	4,732	_	49	33	3
Tennessee	16 15	375 298	3	_	_	_	18	463 190	12,338 9,933	14,398 9,533	8 6	164 62	93 51	I
Alabama		256	_	_	_	-	_	208	7,423	6,469	3	151	123	1
EST SOUTH CENTRAL	49	1,385	12	1	17	5	28	1,677	54,123	50,623	44	1,315	1,132	43
Arkansas	8	153	11	-		í	10	264	4,110	3,931	2	37	29	
Louisiana	-	254	1	-	1	_	_	213	8,961	7,550	2	259	257	
Oklahoma	-	142	-	-	1	3	11	99	4,936	4,684	1	39	33	
Texas*	41	836	-	1	15	1	7	1,101	36,216	34,458	39	980	813	25
OUNTAIN	17	341	2	-	10	-	-	539	14,038	15,939	21	184	178	1
Montana	4	28	_	4	-		-	31	858	781		7	1	
Idaho	1	11 7	2	_	5	_	_	23 16	517 331	7 73 395	_	2	4 2	
Wyoming	3	25	_	_	2		_	250	4,064	4,099	14	65	54	
New Mexico	4	63	_	_	-	-	_	53	1,991	2,285	-	4.8	34	
Arizona*	5	160	_	-	1	_	_	93	3,331	4,638	6	34	73	
Utah	_	19 28	_	_	1	_	_	36 37	832 2,114	911 2,057	1_	7 17	4 6	
ACIFIC	64	1,842 62	1	3	53 3	_	1 -	2,556 271	61,842 4,961	63,883 4,909	- 63 NA	1,80a 59	1,833 82	1 7
Oregon	7	81	-	-	-	-	_	219	4,488	4,552	4	66	56	
California *	42	1,412	1	3	48	-	1	1,971	49,070	50,952	59	1,661	1,662	16
Alaska	_	25	-	-	-	-	-	73	2,374	2,393	-	5	13	
Hawaii		262		-	2		-	26	1,249	1,380		17	20	
		30		NΑ	-	NA		NΑ	71	134	NΑ	_	1	
uam*	NΔ													
uam*	NA 5	190	_	_	1	_	_	61	1,066	1,325	4	188	243	1

NA: Not available

NA: Not available

The layed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

*The following delayed reports will be reflected in next week's cumulative totals: TB: NYC +1, Ind. +12, Mich. -1, Mo. -1, W. Va. +3, N.C. -1, Ariz. +11, Wash. +20, Calif. +84, Guam +2; T. fever:

Calif. +1, RMSF: Va. -1, Tex. -1; GC: N,H. +1 mil., Ups. N,Y. +100 civ., NYC +665 civ., Ind. +351 civ., Nebr. +10 civ., W. Va. +85 civ., Ariz. +121 civ. +1 mil., Calif. +2758 civ +34 mil., Guam +11 civ., V.I. +4 civ; Syphilis: NYC +37, Calif. +65; An. rabies: Ups. N,Y. +3, Ky. +2, Ariz. +3, Calif. +8

Table IV Deaths in 121 United States Cities* Week Ending June 3, 1978 – 22nd Week

Boston, Mass. 1 Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. Waterbury, Conn. Worcester, Mass. Waterbury, Conn. Edizabeth, N. J. Elizabeth, N. J. Elizabeth, N. J. Erie, Pa. Jersey City, N. J. New York City, N. J. New York City, N. Y. 1, 2 Paterson, N. J. Philadelphia, Pa. 4 Pitsburgh, Pa. Reading, Pa. Rochester, N. Y. Scranton, Pa. Syracuse, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. Seast North Central Akron, Ohio Canton, Ohio Canton, Ohio Chicago, III. 5 Cincinnati, Ohio 1	72831279493 21555729639 098203209197458	85 Years and Over 374 104 222 19 14 29 14 12 18 35 22 21 26 1.606 40 10 66 11 13 23 29 28 855 237 42 20 80	45-64 Years 144 51 8 5 15 8 3 2 12 19 1 4 7 621 12 6 24 9 6 10 4 23 284 7 126 18	25-44 Years 25-9 -33-21-133 21-1111111111111111111111111	Under 1 Year 1 8 11 1	monia and Influenza ALL AGES 29 8 1 3 - 3 2 1 4 3 - 1 3 - 1 0 7 1 - 8 - 3 2 2	SOUTH ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N. C. Jacksonville, Fla. Mami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D. C. Wilmington, Del. EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	ALL AGES 998 107 199 49 76 93 38 67 40 65 78 146 40 529 99 59 36 75 93 56	65 Years and Over 578 54 113 29 52 18 37 27 25 25 25 25 25 27 25 25 25 27 25 25 25 27 25 25 25 25 25 25 25 25 25 25 25 25 25	45-64 Years 264 33 49 11 17 28 11 19 8 8 24 47 9 150 25 18 125	25-44 Years 93 14 27 7 3 6 1 2 5 13 5	Under 1 Year 32 1 6 1 - 2 4 3 1 1 2 2 10 -	mon and and and and and and and and and an
Boston, Mass. 1 Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. Waterbury, Conn. Worcester, Mass. Waterbury, Conn. Edizabeth, N. J. Elizabeth, N. J. Elizabeth, N. J. Erie, Pa. Jersey City, N. J. New York City, N. J. New York City, N. Y. 1, 2 Paterson, N. J. Philadelphia, Pa. 4 Pitsburgh, Pa. Reading, Pa. Rochester, N. Y. Scranton, Pa. Syracuse, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. Seast North Central Akron, Ohio Canton, Ohio Canton, Ohio Chicago, III. 5 Cincinnati, Ohio 1	78 31 27 149 215 155 79 223 09 80 20 20 20 20 20 20 20 20 20 20 20 20 20	104 22 19 14 29 14 12 18 35 22 21 26 40 10 66 40 11 13 29 28 855 15 237 42 20 80	51 8 5 5 15 8 3 2 12 19 1 4 4 7 7 6 21 12 6 24 9 6 10 4 23 284 7	9 - 3 - 2 - 1 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 	8 1 3 - 3 2 1 4 3 - 1 3 - 1 0 7 1 8 - 8 - 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Atlanta, Ga. Baltimore, Md. Charlotte, N. C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D. C. Wilmington, Del. EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	107 199 49 76 93 38 67 40 65 78 146 40 529 99 59 36 75 93 36	54 113 52 52 188 37 27 53 46 72 25 302 63 36 22 40 57 32	33 49 11 17 28 11 19 8 8 24 47 9	14 27 7 3 6 1 2 5 13 5	1 6 1 -2 4 3 1 2 2 10 -	34
Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.1. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. Witerbury, Conn. Worcester, Mass. Witerbury, Conn. Worcester, Mass. MIDDLE ATLANTIC 2.5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Erie, Pa. Jersey City, N. J. Newark, N. J. Philadelphia, Pa. Paterson, N. J. Philadelphia, Pa. Peading, Pa. Reading, Pa. Reading, Pa. Rochester, N. Y. Scranton, Pa. Syracuse, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Chicago, Ill. Cincinnati, Ohio 1	317 199 215 125 125 125 125 125 125 125 125 125	22 19 14 29 14 18 35 35 22 21 26 40 10 66 40 11 13 29 28 855 27 42 20 80 80	8 5 5 15 8 3 2 12 19 1 4 4 4 7 7 6 2 1 1 2 6 2 4 9 6 1 1 0 4 2 3 2 8 4 7 7 1 2 6 1 8	162 24 77 	1 2 1 - 2 2 2 - 2 2 3 2 2 2	1 3 3 2 1 4 3 - 1 3 1 1 0 7 1 - 8 3	Baltimore, Md. Charlotte, N. C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D. C. Wilmington, Del. EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	199 49 76 93 38 67 40 65 78 146 40 529 99 59 36 75 93 56	113 29 52 18 37 27 53 46 72 25	49 11 17 28 11 19 8 8 24 47 9	27 7 3 6 1 2 5 13 5	6 1 -2 4 3 1 2 2 10 -	34
Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. Waterbury, Conn. Worcester, Mass. MIDDLE ATLANTIC 2,5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Elizabeth, N. J. Erie, Pa. Jersey City, N. J. Newark, N. J. Newark, N. J. Newark, N. J. Philadelphia, Pa. Paedding, Pa. Reading, Pa. Reading, Pa. Rochester, N. Y. Scranton, Pa. Syracuse, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Cichicago, III. Cincinnati, Ohio 1	27 19 49 21 21 21 21 21 21 21 21 21 21 21 21 21	19 14 29 14 12 18 35 33 5 22 21 26 1,606 40 10 66 11 13 23 29 28 855 15 237 42 20 80	5 5 5 15 8 3 2 12 19 1 4 4 7 6 24 9 6 10 4 23 284 7 126 126 127 127 128 128 128 128 128 128 128 128 128 128	3 - 2 1 - 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 - 3 2 1 4 3 - 1 3 - 1 0 7 1 8 - 3	Charlotte, N. C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D. C. Wilmington, Del. EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	49 76 93 38 67 40 65 78 146 40 529 99 36 75 93 56 34	29 52 52 18 37 27 53 46 72 25 302 63 36 22 40 57 32	11 17 28 11 19 8 8 24 47 9	7 3 6 1 2 5 13 5	1 - 2 4 3 1 1 2 2 10 - 17 2 2 - 5 1	34
Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Water-Lury, Conn. Worcester, Mass. MIDDLE ATLANTIC 2, 5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Elizabeth, N. J. Erie, Pa. Jersey City, N. J. Newark, N. J. New York City, N. Y. Paterson, N. J. Philadelphia, Pa. Reading, Pa. Rochester, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Conticago, Ill. Cincinnati, Ohio 1 Cincinn	19 49 23 15 15 55 7 22 63 9 8 20 20 20 20 20 20 20 20 20 20 20 20 20	14 29 14 12 18 35 22 21 26 40 10 66 41 13 23 29 28 855 237 42 20 80	5 15 8 3 2 12 19 1 4 4 7 7 6 21 12 6 2 4 9 6 10 4 2 3 2 8 8 7 7 1 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	107 1 6 8	Jacksonville, Fla Miami, Fla Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D. C. Wilmington, Del. EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	76 93 38 67 40 65 78 146 40 529 99 59 36 75 93 56	52 52 18 37 27 53 46 72 25 302 63 36 22 40 57 32	17 28 11 19 8 8 24 47 9 150 25 18 12 15 25	3 7 3 6 1 2 5 13 5	2 4 3 1 2 2 10 -	34
Hartford, Conn. Lowell, Mass. Lynn, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. Waterbury, Conn. Worcester, Mass. Waterbury, Conn. Lower Mass. Waterbury, Conn. Worcester, Mass. Waterbury, Conn. Worcester, Mass. MIDDLE ATLANTIC 2, 5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Elizabeth, N. J. Elizabeth, N. J. Elizabeth, N. J. Elizabeth, N. J. Erie, Pa. Jersey City, N. J. New York City, N. Y. New York City, N. Y. Philadelphia, Pa. Reading, Pa. Rochester, N. Y. Scranton, Pa. Syracuse, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Conton, Ohio Chicago, Ill. Cincinnati, Ohio 1	4931512135572269	29 14 12 18 35 22 21 26 40 10 66 41 13 29 28 855 237 42 20 80	8 3 2 12 19 1 4 4 7 6 21 12 6 24 9 6 10 4 23 284 7 126 126 127 127 128 129 129 129 129 129 129 129 129 129 129	1 -1 3 2 1 1 1 1 1 1 1 2 4 4 7 	5443	107 1 8 - 3	Miami, Fla. Norfolk, Va. Norfolk, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D. C. Wilmington, Del. EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	38 67 40 65 78 146 40 529 99 36 75 93 56 34	18 37 27 53 46 72 25 302 63 36 22 40 57 32	11 19 8 8 24 47 9 150 25 18 12 15 25	3 6 1 2 5 13 5	4 3 1 2 2 10 -	344
Lynn, Mass. New Bedford, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Springfield, Mass. Water-bury, Conn. Worcester, Mass. MIDDLE ATLANTIC 2,5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Elizabeth, N. J. Elizabeth, N. J. Erie, Pa. Jersey City, N. J. Newark, N. J. Newark, N. J. Philadelphia, Pa. Heading, Pa. Rochester, N. Y. Tenton, N. J. Utica, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Cicicago, Ill. Cicicanati, Ohio Cicicana	15 21 55 79 226 39 69 820 20 20 20 20 20 20 20 20 20 20 20 20 2	12 18 35 33 5 22 21 26 1,606 40 10 66 11 13 23 29 28 855 15 237 42 20 80	3 2 12 19 1 4 4 7 6 21 1 2 6 24 9 6 10 4 23 284 7	1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 - 2 54 3 - 4 - - 2 2 3 2 2	2 1 4 3 - 1 3 - 1 07 1 - 8 - - 3	Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D. C. Wilmington, Del. EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	67 40 65 78 146 40 529 99 59 36 75 93 56	37 27 53 46 72 25 302 63 36 22 40 57 32	19 8 8 24 47 9 150 25 18 12 15 25	6 1 2 5 13 5 28 5 1 1 6 5	17 22 10 	34 34 3
New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. Waterbury, Conn. Worcester, Mass. MIDDLE ATLANTIC 2, 5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Elizabeth, N. J. Erie, Pa. Jersey City, N. J. Newark, N. J. New York City, N. Y. Paterson, N. J. Philadelphia, Pa. Reading, Pa. Rochester, N. Y. Scranton, Pa. Syracuse, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Cinciago, III. Cincinnati, Ohio 1	21 553 557 29 20 30 30 30 30 30 30 30 30 30 30 30 30 30	18 35 22 21 1 606 40 10 66 11 13 23 29 28 855 15 237 42 20 80	2 12 19 1 4 4 7 6 21 12 6 24 9 6 10 4 23 284 7 126 126 127 127 127 127 127 127 127 127 127 127	162 2 4 7 - - 2 5 4 95 2	54 3 	1 4 3 - 1 3 - 1 1 0 7 1 - 8 3	Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D. C. Wilmington, Del. EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	40 65 78 146 40 529 99 59 36 75 93 56	27 53 46 72 25 302 63 36 22 40 57 32	8 8 24 47 9 150 25 18 12 15 25	1 2 5 13 5 28 5 1 1 6 5	1 2 2 10 17 2 2 - 5 1	34
New Haven, Conn. Providence, R.L. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. MIDDLE ATLANTIC 2, 5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Elizabeth, N. J. Elizabeth, N. J. New York City, N. Y. 1, 2 Paterson, N. J. Philadelphia, Pa. Reading, Pa. Reading, Pa. Reading, Pa. Rochester, N. Y. Scranton, Pa. Syracuse, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Cincingo, Ill. Cincinnati, Ohio Cincinnati, Oh	53 55 7 226 39 65 65 65 65 65 65 65 65 65 65 65 65 65	35 33 5 22 21 26 1,606 40 10 66 11 13 23 28 855 28 855 237 42 20 80	12 19 1 4 4 7 6 21 12 6 24 9 6 10 4 23 284 7	162 2 4 7 - - 2 5 4 95 2	1 1 - 2 54 3 - 4 - - 2 2 2 3 2 2	107	St. Petersburg, Fla. Tampa, Fla. Washington, D. C. Wilmington, Del. EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	65 78 146 40 529 99 59 36 75 93 56	53 46 72 25 302 63 36 22 40 57 32	8 24 47 9 150 25 18 12 15 25	2 5 13 5 28 5 1 1 6 5	2 2 10 - 17 2 2 - 5 1	34
Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. MIDDLE ATLANTIC 2, 5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Elizabeth, N. J. Elizabeth, N. J. Lerie, Pa. Jersey City, N. J. Newark, N. J. New York City, N. Y. Paterson, N. J. Philadelphia, Pa. Reading, Pa. Rochester, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Conton, Ohio Conton, Ohio Citicago, Ill. Cicicianati, Ohio Citicago, Ill. Cicicianati, Ohio Citicago, Ill. Cicicianati, Ohio Cincinnati, Ohio Cincinnati, Ohio Cicicianati, Ohio Cicicicianati, Ohio Cicicianati, Ohio Cicicianati, Ohio Cicicianati, Ohio Cicicianati, Ohio Cicicianati, Ohio Cicicianati, Ohio Cicicicianati, Ohio Cicicianati, Ohio Cicicianati	55 7 29 26 39 58 20 30 20 19 37 458 829 65 33 15 29	33 5 22 21 26 1,606 40 10 66 11 13 23 29 28 855 15 237 42 20 00	19 1 4 4 7 6 21 12 6 2 6 10 4 23 284 7 7 126 18	162 2 4 7 7 2 5 4 9 5 2	1 - 2 54 3 - 4 - - 2 2 2 3 3 2 2	107 1 - 8 3	Tampa, Fla. Washington, D. C. Wilmington, Del. EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	78 146 40 529 99 59 36 75 93 56	302 63 36 22 40 57	24 47 9 150 25 18 12 15 25	5 13 5 28 5 1 1 6 5	17 2 2 2 - 5 1	34
Somerville, Mass. Springfield, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. MIDDLE ATLANTIC 2, 5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Elizabeth, N. J. Erie, Pa. Jersey City, N. J. Newark, N. J. New York City, N. Y. Paterson, N. J. Philadelphia, Pa. Hochester, N. Y. Schenectady, N. Y. Scranton, Pa. Syracuse, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Canton, Ohio Cinciago, Ill. Cincinnati, Ohio Ci	7 29 26 39 58 20 20 20 37 41 58 29 65 33 15 29	5 22 21 26 1,606 40 10 66 11 13 23 29 28 855 15 237 42 20 80	1 4 7 6 21 12 6 24 9 6 10 4 23 284 7 126 18	1 1 1 1 1 162 2 4 7 7 - 2 5 4 95 2 2	54 3 - 4 - - 2 2 3 22	107	Wilmington, Del EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn Knoxville, Tenn Louisville, Ky Memphis, Tenn Mobile, Ala. Montgomery, Ala	529 99 59 36 75 93 56 34	72 25 302 63 36 22 40 57 32	150 25 18 12 15 25	28 5 1 1 6 5	10 - 17 2 2 - 5	3
Waterbury, Conn. Worcester, Mass. MIDDLE ATLANTIC 2, 5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Erie, Pa. Jersey City, N. J. Newark, N. J. New York City, N. Y. Paterson, N. J. Philadelphia, Pa. Reading, Pa. Reading, Pa. Reading, Pa. Rochester, N. Y. Schenectady, N. Y. Schenectady, N. Y. Yonkers, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Canton, Ohio Cinicago, Ill. Cicicanati, Ohio Cinicanati, Ohio Cinicanat	26 39 58 20 32 20 32 41 58 29 65 33 15 29	21 26 1,606 40 10 66 11 13 23 29 28 855 15 237 42 20 80	621 12 6 24 9 6 10 4 23 284 7 126 18	1 1 162 2 4 7 - - 2 5 4 95 2	54 3 -4 2 2 3	107	EAST SOUTH CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	529 99 59 36 75 93 56	302 63 36 22 40 57	150 25 18 12 15 25	28 5 1 1 6 5	2 2 - 5 1	1
Worcester, Mass. MIDDLE ATLANTIC 2, 5 Albany, N. Y. Allentown, Pa. Buffalo, N. Y. Camden, N. J. Elizabeth, N. J. Erie, Pa. Jersey City, N. J. Newark, N. J. New York City, N. Y. Paterson, N. J. Philadelphia, Pa. Reading, Pa. Rochester, N. Y. Scranton, Pa. Syracuse, N. Y. Trenton, N. J. Utica, N. Y. Yonkers, N. Y. EAST NORTH CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Conton, Ohio Cincingon, III. Cincingati, Ohio. 1	39 509 520 03 20 19 37 41 58 29 900 65 33 15	26 1,606 40 10 66 11 13 29 28 855 15 237 42 20 80	7 621 12 6 24 9 6 10 4 23 284 7 126 18	1 162 2 4 7 	2 54 3 - 4 - 2 2 3 22	107	Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Louisville, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala.	99 59 36 75 93 56 34	63 36 22 40 57 32	25 18 12 15 25	5 1 1 6 5	2 2 - 5 1	1
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	10	74	21	5	4	50	Seattle, Wash	126	75	35	.7	5	
	25	17	3	1	1	1	Spokane, Wash.	53	34	13	1	5	
	77	49	20	3	3	2	Tacoma, Wash	33	22	4	2	3	
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		37	11	2	2	1	TOTAL	10,373	5,325	2,657	670	326	33
Wichita, Kans	53	32	11	-	2	2	Expected Number		9				

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

The Morbidity and Mortality Weekly Report, circulation 78,000, 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. 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.

Injuries Due to Falls - Continued

that included information such as age of patients hurt in falls, analysis of the injuries, time and places most associated with fails, and costs of injuries.

Study A (A General Hospital): In Study A, 28,596 emergency-room visits were made to 1 general hospital in Washington during 1975. Of these, 1,740 were concerning injuries due to falls. Lacerations, fractures, and musculoskeletal injuries represented 1,331 (76%) of these injuries. Lacerations were the largest category (29%), occurring most frequently to the neck, face, or scalp region. Fifty-one percent of the fractures treated occurred to individuals over age 50; 64% of the intracranial injuries treated occurred to persons 14 and under.

Alcohol has been stated to be related to many injuries due to falls (1); in this study, 10% of falls were alcohol-associated. However, when the records of individuals who had more than 1 fall were examined, alcohol was involved in 22.3% of the cases. Also, 42% of persons injured in falls had at least 1 pre-existing health problem (e.g., obesity, cardiovascular disease, rheumatoid disease, hypertension) known to predispose people to injury (1).

The 1,740 injuries due to falls generated 1,866 days of hospitalization, which, at an average expenditure of \$163.46 per day, cost \$305,016. When combined with the cost of other treatments and out-patient follow-up, an estimated \$500,000 was spent for the 1,740 injuries due to falls treated in this hospital in 1975.

Study B (A Children's Hospital): A study of 4,963 injury-related, emergency-room visits at a children's hospital in Washington in 1975 showed that 2,079 injuries (42%) were due to falls. Sixty percent of these occurred in April through September, and, as in other injury studies (2), more males (58%) than females were treated. Saturday and Sunday were the days with the highest frequency of injuries treated, and the evening (3-11 PM) was the peak period for treatment of injuries due to falls. The most common types of injury related to falls were lacerations (42%), contusions (18%), and fractures (14%). Of the 2,079 persons seen in the emergency room with injuries due to falls, 1,470 (71%) were treated and released, and 153 were admitted.

In this study, the home was the location of over 40% of the injuries treated. The most frequent activities were "unknown" (30.8% of the injuries), followed by playing (16.8%), bicycling (9.5%), and walking (9.1%) (Table 1). Seventy-six (3.7%) children were injured in falls during their sleep. Forty-three (2.1%) children were hurt during roller-skating—more than were hurt while skate-boarding (<1%).

Of all the 2,079 injury-related, emergency-room visits, 223 involved repeat visits: 101 children had 2 injuries due to falls, and 7 children were treated for 3 falls. More repeaters were treated in August (18%) than any other month. Sunday and Monday accounted for 43% of repeat injuries, but the time of day did not appear to be a factor when compared for all children studied.

Study C (Regional Communications Industry): The records of 11,816 persons employed in 2 states during 1976 by a large communications industry were analyzed. Employees reported 376 off-duty injuries during 1976; 96 (25.5%) were due to falls. Sixty percent of these falls occurred at

TABLE 1. Children's activities that produced injuries, a children's hospital, Washington, 1975 (Study B)

Activity	Absolute frequency	Percent frequency
Unknown	642	30.8
Playing	349	16.8
Bicycle-tricycle	197	9.5
Walking	189	9.1
Negotiating stairs	118	5.7
Running	79	3.8
Sleep-related	76	3.7
Gymnastics	64	3.1
Sitting	59	2.8
Climbing	51	2.5
Roller-skating	43	2.1
Jumping	30	1.4
Bathing	29	1.4
Tree-climbing	25	1.2
Horseback-riding	23	1.1
Being carried	23	1.1
Sports	21	1.0
Skiing	20	1.0
Other, specified		
(including skate-boarding)	41	1.9
Total	2,079	100.0

home, 40% in a public place. Female employees, who made up 55% of the work force, reported more off-duty injuries and generated more lost workdays than did male employees. However, the average number of days lost per injury was higher for males; on the average, women lost 8.4 workdays per injury, and men, 10.5 days. A total of 877 workdays were lost due to injuries from falls at an estimated cost of \$43,850.

Study D (An Emergency Medical Service): Emergency calls received by an emergency medical service in a metropolitan area in 1974 concerning 1,551 nonindustrial injuries due to falls were recorded and analyzed. Of the total, 869 falls (56%) occurred in the home, and 682 (44%) occurred in other locations. As in Study A the very young (<4 years) and the very old (≥80) appeared most vulnerable. When all categories of falls were considered, persons over 60 accounted for 44% of the total emergency calls due to nonindustrial falls. On weekends most injuries from falls that required emergency medical assistance occurred in the home; on weekdays most such injuries occurred outside the home. Examination of time patterns revealed the greatest number of emergency calls for injuries due to falls at home occurred in the late afternoon and evening; 47% occurred between 3 PM and midnight.

Three socioeconomic strata (high, medium, and low) were identified from census-tract information; distribution by age and sex was tabulated for these strata for occurrences of emergency calls for injuries due to falls in the home. The highest rates of usage of the emergency medical service were found among those over 60 years of age in high, middle, and low socioeconomic levels, followed by those 40-59 in the low socioeconomic group, and infants through children 9 years of age in the low socioeconomic group. The lowest rate was seen in the 20- to 39-year age group of the high socioeconomic level. The highest socioeconomic group generally had the lowest rates for each age group (Table 2). This may reflect differences in the epidemiology of falls at home and/or in the source of medical services.

Injuries Due to Falls - Continued

TABLE 2. Home falls attended to by an emergency medical service, by age, population distribution*, and socioeconomic distribution, 1974 (Study D)

Age Group	High Socio- economic (Rate/ 100,000)	% Total Popu- lation	Medium Socio- economic (Rate/ 100,000)	% Total Popu- lation	Low Socio- economic (Rate/ 100,000)	% Total Popu- lation
0-9	87.95	3.8	199.88	6.4	260.24	2.9
10-19	35.94	4.8	87.43	6.7	104.81	2.9
20-39	29.69	8.2	60.77	14.9	104.76	9.1
40-59	60.66	6.8	168.42	9.7	288.89	5.1
60 +	444.05	3.4	355.18	9.3	420.66	5.9
Total	-	27.05	_	46.91		26.04

^{*}Population for the high socioeconomic group was 143,798, for the medium 249,381, and for the low 138,413.

The estimated cost of providing emergency medical service for this metropolitan area is \$200 per emergency

call. Thus, the estimated cost of providing emergency medical assistance for nonindustrial falls for the study year was \$310,200.

Reported by GC Hongladarom, RN, PhD, Seattle; J Allard, PhD, State Epidemiologist, WF Miller, MPH, Health Services Div, Washington State Dept of Social and Health Services; Environmental Health Services Div, Bur of State Services, CDC.

Editorial Note: These studies illustrate the need for a comprehensive injury-control program to assess the magnitude of problems associated with falls, burns, and other injuries; to evaluate the impact on the health-care delivery system; and to establish effective measures to prevent injuries.

References

- 1. Waller JA: Nonhighway injury fatalities: I. Roles of alcohol and problem drinking, drugs and medical impairment. J Chronic Dis 25:33-45, 1972
- 2. Parrish HM, Weil TP: Fighting accidents with facts: The epidemiological approach. Hospitals 31:32-34, 1957

Correction

Parainfluenza Initially Diagnosed and Reported As Russian Flu - Oregon

The Oregon Department of Human Resources reported in the MMWR (1) that a virus resembling influenza A/USSR/77(H1N1) was isolated from an 81-year-old man. Serologic evidence of infection with parainfluenza type 1 virus, and not influenza A virus, was demonstrated in this patient. Subsequently, the isolate was identified as parainfluenza type 1 virus.

Reported by J Googins, MD, State Epidemiologist, Oregon Dept of Human Resources; WHO Collaborating Center for Influenza, CDC.

Reference

1. MMWR 27:91, 1978

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