

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE 4

CURRENT TRENDS SURVEILLANCE OF CHILDHOOD LEAD POISONING United States

The Childhood Lead Poisoning Control Program (CLPC) began operation in fiscal year (FY) 1972, under the Bureau of Community Environmental Management, Health Services and Mental Health Administration. Since July 1, 1973, the program has been administered by CDC. Program responsibility has been given to the Environmental Health Services Division of the Bureau of State Services at the Center.

At present, 39 screening projects are in full operation in 21 states and the District of Columbia through the CLPC Program. An additional 38 screening projects were funded at the end of FY 1974. These grants are awarded under Title I authority (screening of children) of the 1971 Lead Based

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Paint Poisoning Prevention Act. Thus, emphasis of Federal project expenditures is on the detection of children with elevated blood lead levels and follow-up and referrals as

Amount it is a set of the set of	27th WEEK	ENDING	A 19 44 1 7 1	CUMULA	TIVE, FIRST 2	7 WEEKS
DISEASE	July 6, 1974	July 7, 1973		1974	1973	MEDIAN 1969-1973
septic meningitis	47	88	80	1,057	1,211	1,070
Brucellosis	1	4	3	76	93	93
Chickenpox	1,475	1,228		95,006	140,442	
Diphtheria	2		2	147	100	90
Incephalitis:			on the second states	The Instanting IT	TUBLE SALAR	S.C. peter finance
Primary: Arthropod-borne and unspecified	7	20	20	435	573	570
Post-Infectious	5	5	8	135	159	168
lepatitis, Viral:		1.	and the state of parts	note anti-tra	set of Landhingen	1.44
	147	122	118	4,791	4,061	4,061
Type A	636			22,303)	1
Type unspecified	110	696	{ 782	4,395	{ 26,309	28,841
Aalaria	9	, 3	, 44	84	, 121	1,371
Measles (rubeola)	284	288	476	18,375	22,720	25,182
Aeningococcal infections, total	22	20	26	793	885	1.527
Civilian	22	19	19	771	863	1,347
		1 i	1	22	22	155
Military	600	784	898	41.162	50,874	61,964
Aumps	24	704	070	659	50,074	01,904
Pertussis	84	141	423	8.696	24,882	35,489
Rubella (German measles)	2	141	423	30	39	55
Tetanus	469	461	2	15,927	16,439	55
uberculosis, new active	409			69	78	67
fularemia		3	3 7			
Typhoid fever	11	5	/	182	384	149
Typhus, tick-borne (Rky. Mt. spotted fever)	25	29	19	328	282	179
Gonorrhea	17,040	13,228		443,170	403,254	
Syphilis, primary and secondary	385	360		12,340	12,699	
Rabies in animals	31	58	53	1,435	1,970	1,970
TABLE II.	NOTIFIA	BLE DISEAS	ES OF LOW FRE	EQUENCY		Section (sector)
Constraint Content In the Constant		Cum.			Sim mid	Cum
Anthrax:		2 0-				
			iomyelitis, total:			
Botulism:			Paralytic:			
Congenital rubella syndrome:		34 Psi	ttacosis:			13

*Leprosy: La. delete 2

LEAD POISONING - Continued

appropriate. Projects are expected to secure local funds and help from other local agencies to insure treatment of poisoned children and reduction of housing hazards.

In 1973, amendments to the Lead Based Paint Poisoning Act authorized grants for establishing a centralized State laboratory capability for lead analysis. Before the end of FY 1974, Federal grants were awarded to 28 State laboratories under this authority.

It is estimated that 2.5 million U.S. children between the ages of 1 and 6 years are at risk of becoming lead-poisoned because of their dilapidated, hazardous housing, that 600,000 of them have elevated blood lead levels, that as many as 125,000 of those may actually be lead poisoned, and that some 6,000 children may suffer neurologic damage, including mental retardation (1).

Tables 1 and 2 summarize provisional data reported for FY 1973 and the first 3 quarters of FY 1974. Approximately 480,000 children were screened between July 1, 1972, and April 1, 1974, representing about 17% of the estimated target group of 2.9 million children between the ages of 1-6 years at risk throughout the country over the 2-year period.

Overall, 12.2% of children screened in FY 1973 were found to have elevated blood lead (EBL) levels ($\geq 40 \ \mu g/100$ ml whole blood) on initial testing, and 15.0% of children screened in the first 3 quarters of FY 1974 had EBL levels initially. At least 7.2% of children screened in FY 1973 and 5.8% of children screened in the 1st 3 quarters of FY 1974 were confirmed as having EBL levels through a second, confirmatory test.*

In FY 1973, at least 8,016 children with EBL levels on initial testing (23.8%) did not receive a confirmatory test during that period. In FY 1974, at least 4,200 children with EBL levels on initial testing (13.8%) apparently did not receive a confirmatory test.

For those children with initial EBL levels who are not found to have EBL levels upon receiving a confirmatory test, it is not clear what proportion of the results is attributable to biological variability and what proportion to errors in specimen collection and laboratory analysis.

The number of children who received chelation therapy represents 16.4% of children with confirmed EBL levels in FY 1973, and 22.0% of children with confirmed EBL levels in FY 1974.

(Reported by the Environmental Health Services Division, Bureau of State Services, CDC.)

Reference

1. Gilsinn JF: Estimates of the nature and extent of lead poisoning in the United States (NBS Tech Note 746). Washington, National Bureau of Standards, US Dept of Commerce, Dec 1972, p 105

*Confirmatory test refers to a second testing of children who have blood lead levels $\ge 40 \ \mu$ g on their first test. The result of the confirmatory test may or may not confirm the initial elevated blood lead level.

INTERNATIONAL NOTES FOLLOW-UP ON CHOLERA – Portugal

On July 5, 1974, the World Health Organization reported an additional 96 cases of cholera in Portugal with 1 death. This brings the total number of cases reported since May to 368 (4.2 cases per 100,000 population) and the total number of deaths to 8 (case-fatality ratio = 2.2%).

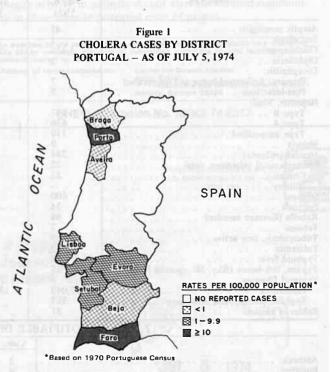
Cases continue to be reported more frequently in the 3 districts of Faro, Porto, and Lisboa-all coastal population centers (Figure 1). Cases have also occurred in 5 of the other 15 districts.

(Reported by the World Health Organization, Geneva, Switzerland; and the Enteric Diseases Section, Bacterial Diseases Division, Bureau of Epidemiology, CDC.)

Editorial Note

Cholera vaccination is not required for entry into the United States. Travelers from the United States whose itinerary includes only Portugal are not required to present a valid International Certificate of Cholera Vaccination upon arrival in Portugal. However, to facilitate travel, persons going to Portugal and then to other countries are advised to have a validated International Certificate of Cholera Vaccination because some of those other countries may still have entry requirements for cholera vaccination.

Travelers to Portugal and to other cholera-infected areas should avoid eating uncooked vegetables, unpeeled fruits, and raw seafood since these foods are considered to be potential vehicles in the spread of cholera. Similarly, travelers should consume only bottled drinking water and other bottled



beverages and should not swim at beaches in water contaminated with human sewage.

Table 1 Results of Screening in Childhood Lead Poisoning Control Projects – United States FY 1973 (July 1, 1972 to June 30, 1973)*

Projects	Number of Children Screened	Number of Screened Children with Initial Blood Lead Level ≥40 µg	Number of Children with Confirmed Blood Lead Level ≥ 40 µg	Number of Children Chelated		
Hartford	3,404	95	17	6		
Boston	23,818	NA	NA	236		
Chelsea	558	207	93	9		
Somerville	1,909	199	129	12		
Waltham	1,246	37	10	1		
Nashua	272	13	2	0		
DHEW Region I	31,206	551	251	264		
Albany Co.	1,787	NA	280	10		
Erie Co.	2,885	540	540	220		
New York City	74,682	7,981	NA	NA		
Onandago Co.	3,955	162	63	23		
Hoboken	1,597	NA	173	20		
Newark	5,513	NA	813	141		
DHEW Region II	90,419	8,683	1,869	- 414		
Allegheny Co.	1,431	142	34	2		
Philadelphia	10,092	1,756	1,501	28		
Baltimore	3,424	465	377	47		
Wilmington	1,183	125	64	12		
Washington, D.C.	8,948	2,250	1,685	161		
Norfolk	4,798	493	478	19		
DHEW Region III	29,876	5,231	4,139	269		
Chattanooga	ashville2,245harleston1,181reenville1,199wannah1,902		42	0		
Nashville			161	1		
Charleston			198	25		
Greenville			50	0		
Savannah			183	11		
DHEW Region IV			634	37		
Cleveland 4,528 Dincinnati 1,916 Coledo 966 Detroit 6,712 Chicago 59,869 Peoria 2,121 Rockford 1,652 Springfield 2,033 Ailwaukee 5,731 DHEW Region V 85,528		847	180	43		
		299	252	14		
		NA	343	178		
		657	379	NA		
		10,739	7,684	1,133		
		104	36	7		
		106	105	5		
		265	215	65		
		2,083	1,823	561		
		15,100	11,017	2,006		
New Orleans	8,567	2,127	1,421	8		
Tulsa	2,809	112	24	1		
DHEW Region VI	11,376	2,239	1,445	9		
Des Moines St. Louis DHEW Region VII	Des Moines 2,345 t. Louis 8,046		75 294 369	42 202 244		
enver 4,238		96	7	0		
HEW Region VIII 4,238		96	7	0		
Los Angeles Co. Sacramento DHEW Region IX	os Angeles Co. 1,856 acramento 1,877		71 17 88	22 0 22		
Multnomah Co.	2,044	NA	71	0		
DHEW Region X	2,044	NA	71	0		
United States (Projects) Total	277,346	33,765	19,890	3,265		

NA = not available *Provisional 5/24/74

Table 2 Results of Screening in Childhood Lead Poisoning Control Projects – United States First 3 Quarters of FY 1974 (July 1, 1973 to March 30, 1974)*

Projects	Number of Children Screened	Number of Screened Children with Initial Blood Lead Level ≥ 40 µg	Number of Chiłdren with Confirmed Blood Lead Level ≥ 40 µg	Number of Children Chelated
Hartford	2,930	216	39	11
Boston	20,969	3,218	NA	131
Chelsea	968	149	39	6
Somerville Waltham	1,591	166	85	6 0
Lowell	350 550	107	97	9
DHEW Region I	27,358	3,863	266	163
Albany Co.	950	162	16	7
Erie Co.	1,658	420	421	140
New York City	20,412	NA	NA	NA
Onandago Co.	4,870	368	94	68
Hoboken Newark	1,883 3,671	172 924	66 NA	19 123
DHEW Region If	33,444	2,046	597	357
Allegheny Co.	3,213	357	55	7
Philadelphia	7,501	1,790	707	51
Baltimore	4,878	1,259	652	59
Wilmington	1,393	224	23	4
Washington, D.C.	8,974	2,333	1,872 387	103
Norfolk DHEW Region III	4,750 30,709	853 6,816	3,696	262
Chattanooga	1.772	96	43	3
Nashville	3,155	880	241	2
Charleston	848	215	112	36
Greenville	1,265	74	33	0
Savannah DHEW Region IV	3,628 10,668	953 2,218	443 872	41 82
Cleveland		2,040	1,017	42
Cincinnati	8,433 2,611	469	182	14
Toledo	1,613	262	114	143
Detroit	11,255	1,508	683	88
Chicago	40,539	5,681	2,663	737
Peoria	2,197	94	65	19
Rockford Springfield	1,561	202	140 120	17
Milwaukee	3,805	1,273	585	454
DHEW Region V	73,304	11,687	5,569	1,532
New Orleans	9,751	1,466	378	5
Tulsa	2,362	140	28	1
Houston	1,747	150	10	0
DHEW Region VI	13,860	1,756	416	6
Des Moines	2,646	243	72	43
St. Louis	2,254	818	183 37	142
Burlington DHEW Region VII	704 5,604	80 1,141	292	2 187
Denver		442	45	0
Denver DHEW Region VIII	2,518 2,518	442	45	0
Los Angeles Co.	2,210	124	26	18
Sacramento	1,361	84	23	0
DHEW Region IX	3,571	208	49	18
Multnomah Co.	1,399	144	44	0
DHEW Region X	1,399	144	44	0
United States (Projects) Total	202,435	30,321	11,846	2,607

NA = not available *Provisional 5/24/74

Morbidity and Mortality Weekly Report TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING JULY 6, 1974 AND JULY 7, 1973 (27th WEEK)

	ASEPTIC	BRUCEL	CHICKEN-				NCEPHALI		HE	PATITIS, VI		1.1.	
AREA	MENIN- GITIS	LOSIS	POX	DIPHI	THERIA		Arthropod- Unspecified	Post In- fectious	Type B	Type A	Type Unspecified	MAL	ARIA
	1974	1974	1974	1974	Cum. 1974	1974	1973	1974	1974	1974	1974	1974	Cum 1974
UNITED STATES	47	1	1,475	2	147	7	20	5	147	636	110	9	84
EW ENGLAND	4		237	-	1	1 -31	_ 24	1112	24	28	10	_	5
Maine *		-	1	-	-	-		-		3	1 1		_
New Hampshire			7	-	-	-	1 - mi		11-196	1		-	-
Vermont	4	-	9	1.1			1	12.00	-	4	-	- 199	-
Massachusetts	4	-	63	-	- E	1 2	_	1		5	9	-	1
Rhode Island		021	157		-	_		1267,		11	1	1.2	1
IDDLE ATLANTIC	-	-	203	-	1	1	2		22	95	16	3	13
Upstate New York	-	-	58	-	-	1	1 1	-	3	6	1.0	1.1	3
New York City	_	-	142	-	1 2	-		1.1	25	5 13	16	1	5
New Jersey		1	NN 3	2	1	-	1	1	12	71	14	2	3
AST NORTH CENTRAL	1	(api)	604	-	2	1	9		31	115	29		9
Ohio		-	128	-	1		9	-	-	22	-	-	4
Indiana	-	-	23	-	-	-	- 100		-	-	13	- 14	-
Illinois	-	-	-	-	1	1		120	15	45	14	- 201	2
Michigan *	1	_	193 260	-	1 2	1.1	1 2 20	120	14	45	2		2
						1.0					100	1.100	
EST NORTH CENTRAL	5		117	-	1 2		1		7	28	7	1	3
Minnesota	2		37	-	1.120		1	1	4	5			
Missouri		1.1	8	- E -	_				1	2	i i	12.1	1
North Dakota		_	3						_		_	1.1	
South Dakota	1		1 1 1	-	1.1.4.1		1	-		4			1
Nebraska	1.1		6		-	-	1 - 19		-	-	- 28	115	_
Kansas		-	60	-	-	-	-	-	2	10	4		-
OUTH ATLANTIC	10	_	114	2	1	2	4	9 - 115	15	126	10	1	14
Delaware			1	-	-		1 - mi			1		1.4.211	-
Maryland	3	-	3	-		1	1 - 1		2	3	2	- 14	2
District of Columbia		-	3	-	-	-			-		-		2
Virginia *	3	-	10	-	-	1	1	-	3	3	1	12 440	3
West Virginia		-	55	-	1	-	-	- <u>-</u>	2	2	1 I I	1.00	-
North Carolina	31	1.2	NN 4.2	Ξ.	1 1	1			1	3	3	1	3
Georgia			42	- 2 - 1	1 2					20		100	
Florida	3	-	600 (E	-	-	-	2		7	92	4		4
AST SOUTH CENTRAL	4		46	-	1.1-5	1	1	2	9	33			3
Kentucky	- 70 E 1	-	37	-	-		11.729		2	11		1.00	2
Tennessee	2	1.5	NN	-			1	-	5	18		-	1
Alabama	1	2.1	9	Ξ.	1 2	1	1.221	2	2	3	1	1.2	-
	0.00							110			1.100		
EST SOUTH CENTRAL	6	1	84	-	9	_	2		3	57	1	2	5
Arkansas	- 2		NN	- 1		11200	112-0		1	1 2		1.2	1
Oklahoma					-		2						1
Texas	6	1	84	1.21	9	-		- 11	1	53	-	2	3
OUNTAIN	1.12	1010	25	121	27	_	1	1.1.1.1	7	31	13	1	4
Montana	12		1		-	_		1	l i	2	1 12	_	
Idaho	- 22	- 2	- 10 B	-	-	-	-	1.21		1	-		10.15
Wyoming	12			-		-		-8.		-		1 - 100	-
Colorado			14	-	-	-			2	1	6		2
New Mexico	2 E I	-	3	-	10	-		-	1 1	12	- 14		194 e 1
Arizona	S -	-	5	-	17	-	-	1 - 2 - 3	3	11	4	Jak	•
Utah	- 24	1.24	7	1	1 2	1 2	1	- <u>1</u> 0-8	1 2 2	4	3	1	
	17	Let a l	45	2	107	2	1.140	2	53	123	24	. 1	2
VCIFIC			6	2	98			-	5	19	12	1 6	
Oregon	3	1			-			1	1	11	1		
California *	_	-	- 10 -	1	5	2	11-10	1	44	89	10	1	28
Alaska	-		6	- E	4	-			3	3			
Hawaii	1	-	33	-	-	-			-	1	1		in the second
uam	-		252	_	-	-	-	-	-	-	-	-	2
			12		- 1	-			-11K	8	-	-	-
Jerto Rico							-						

*Delayed reports: Chickenpox: Me. 10, N.H. 9, Calif. 20 Encephalitis, Post: Mich. 1 Hepatitis B: La. delete 2 Hepatitis A: N.H. 1 Hepatitis unspecified: Va. delete 2

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING JULY 6, 1974 AND JULY 7, 1973 (27th WEEK) - Continued

UNITED STATES 2 NEW ENGLAND Maine * New Hampshire * Vermont Massachusetts * Rhode Island Connecticut MIDDLE ATLANTIC Upstate New York New York City New Jersey Pennsylvania	1974 284 31 3 - 4 - 23 81 34 10 23 14 142 1 3	Cumu 1974 18 375 855 37 197 57 347 57 160 7 433 734 481 5 395 823	1973 22,720 7,234 63 848 116 3,835 594 1,778 2,155 706	1974 22 1 - 1 - 3	Cumu 1974 793 41 2 7 1 12 7 12	1973 885 41 1 6 2 11	1974 600 60 2	Cum. 1974 41,162 5,533 765	1974 24 -	1974 84 5	Cum. 1974 8,696	Cum. 1974
UNITED STATES 2 VEW ENGLAND Maine * New Hampshire * Vermont Massachusetts * Rhode Island Connecticut WIDDLE ATLANTIC Upstate New York New York City New Jersey Pennsylvania EAST NORTH CENTRAL Ohio * Indiana Illinois Michigan Wisconsin WEST NORTH CENTRAL Minnesota Idwa * Missouri North Dakota South Dakota Nebraska Kansas SOUTH ATLANTIC Delaware Maryland District of Columbia Virginia North Carolina South Carolina South Carolina South Carolina South Carolina	284 31 3 1 - 23 81 34 10 23 14 142 1	18,375 855 37 197 57 347 57 160 7,433 734 481 5,395	22,720 7,234 63 848 116 3,835 594 1,778 2,155 706	22 1 - 1 - -	793 41 2 7 1 12 7	885 41 1 6 2 11	600 60 2	41,162	24	84	Company of	
NEW ENGLAND	31 3 4 23 81 34 10 23 14 142 1	855 37 197 57 347 57 160 7,433 734 481 5,395	7,234 63 848 116 3,835 594 1,778 2,155 706	1	41 2 7 1 12 7	41 1 6 2 11	60 2	5,533	-		8,696	
Maine * Maine * New Hampshire * Vermont Massachusetts * Rhode Island Connecticut MIDDLE ATLANTIC Upstate New York New York City New Jersey Pennsylvania EAST NORTH CENTRAL Indiana Illinois Michigan Wisconsin West NORTH CENTRAL Minensota Iowa * Missouri North Dakota Nebraska Kansas SOUTH ATLANTIC Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia	3 1 4 23 81 34 10 23 14 14 142 1	37 197 57 347 57 160 7 433 734 481 5 395	63 848 116 3 835 594 1 778 2 155 706		2 7 1 12 7	1 6 2 11	2			5		30
Maine * New Hampshire * New Hampshire * Vermont * Massachusetts * Rhode Island Connecticut WIDDLE ATLANTIC Upstate New York New York City New Jersey * Pennsylvania EAST NORTH CENTRAL Indiana Illinois Illinois Minnesta Illinois WEST NORTH CENTRAL Minnesta North Dakota North Dakota North Dakota Nebraska Kansas SOUTH ATLANTIC Delaware Maryland District of Columbia Virginia West Virginia West Virginia North Carolina South Carolina South Carolina	1 4 23 81 34 10 23 14 14 142 1	197 57 347 57 160 7,433 734 481 5,395	848 116 3,835 594 1,778 2,155 706	1	7 1 12 7	6 2 11		765		-	882	
New Hampshire * Vermont Massachusetts * Rhode Island Connecticut MIDDLE ATLANTIC Upstate New York New York City New Jensey Pennsylvania EAST NORTH CENTRAL Illinois Michigan Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin North Dakota North Dakota North Dakota Nebraska Kansas SOUTH ATLANTIC Delaware Maryland District of Columbia Virginia North Carolina South Carolina South Carolina South Carolina	4 - 23 81 34 10 23 14 14 142 1	57 347 57 160 7,433 734 481 5,395	116 3 835 594 1 778 2 155 706	ī 	1 12 7	2 11			-		242	-
Vermont	23 81 34 10 23 14 142 1	347 57 160 7,433 734 481 5,395	3,835 594 1,778 2,155 706	1 - -	12 7	11		265	-		15	-
Rhode Island	23 81 34 10 23 14 142 1	57 160 7,433 734 481 5,395	594 1 778 2 155 706		7		-	27	-	2	17	En
Connecticut	81 34 10 23 14 142 1	160 7,433 734 481 5,395	1,778 2,155 706				7	879	-	3	309	1.00
AIDDLE ATLANTIC Upstate New York New York City Pennsylvania EAST NORTH CENTRAL Ohio * Indiana Illinois Michigan Wisconsin VEST NORTH CENTRAL Minnesota Iowa * Missouri North Dakota South Dakota North Caluation Delaware Maryland District of Columbia Virginia North Carolina South Carolina Georgia	34 10 23 14 142 1	734 481 5,395	2,155	3		3 18	43	2,213	1	1.2	18 281	-
Upstate New York New York City Pennsylvania AST NORTH CENTRAL 1 Ohio * Indiana Illinois Michigan Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin North Dakota North Dakota North Dakota North Dakota Nebraska Kansas OUTH ATLANTIC Delaware Maryland Virginia West Virginia West Virginia South Carolina South Carolina	34 10 23 14 142 1	734 481 5,395	706	-	105	122	71	3,244	_	4	962	2
New York City	10 23 14 142 1	481 5,395		1121	45	43	36	771	_	1	215	1
New Jersey	14 142 1	5,395	831	-	14	24	22	518		1	108	1
Pennsylvania	14 142 1		334	1 -	32	28	9	632	- I	1	424	1
Ohio *	1		284	2	14	27	4	1,323	-	1	215	
Ohio *	1	7,202	7,953	1	92	115	168	11,908	6	16	2,888	5
Indiana Illinois Michigan Wisconsin WeST NORTH CENTRAL Minnesta Iowa *	3	2,977	264	- 2	31-	51	22	2,929	1000 m	1	476	2
Illinois Michigan Wisconsin WEST NORTH CENTRAL Minnesota Iowa * Missouri . North Dakota North Dakota North Dakota North Dakota Nebraska Kansas SOUTH ATLANTIC Delaware Maryland District of Columbia Wirginia West Virginia North Carolina Georgia South Carolina Georgia		202	568		8	4	13	907		1	462	1000
Michigan Wisconsin VEST NORTH CENTRAL Minnesota Iowa * Missouri North Dakota South Dakota North Dakota Nebraska Kansas COUTH ATLANTIC District of Columbia Virginia North Carolina Georgia	99	1,775	1,886		10	23	21	1,024	1	10	456	2
Wisconsin	26	1,846	4,167	1	29	32	78	5,212	2	2	1,093	1
Minnesota Iowa * Missouri North Dakota South Dakota Nebraska Kansas OUTH ATLANTIC Delaware Maryland District of Columbia Virginia West Virginia North Carolina Georgia 	13	402	1,068		14	5	34	1,836	3	2	401	
Minnesota Iowa * Missouri North Dakota South Dakota Nebraska Kansas OUTH ATLANTIC Delaware Maryland District of Columbia Virginia West Virginia North Carolina Georgia 	18	644	426	7	65	70	53	2,591	1	18 H I.	204	7
Iowa * Missouri	1	78	18	2	21	4	- 1	35			10	1
Missouri	9	112	275	1	11	17	-	1,606		1 - L	14	
North Dakota	8	250	47	2	18	30	14	346			32	2
South Dakota	-	25	56		2	3	-	17	-		11	and the second
Kansas	-	27	-		3	4	7	2		-	25	
OUTH ATLANTIC Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia		2	3		1	5	4	73	1	- 1	6	
Delaware	2	150	27	2	9	7	35	512	1		106	3
Delaware	4	418	1,121	5	156	148	53	4,893	1	26	908	7
Maryland District of Columbia Virginia West Virginia North Carolina Georgia	-	6	8	-	3	1	3	81	-	2	24	
District of Columbia Virginia West Virginia North Carolina South Carolina Georgia		21	2	-	17	20	1	88	-	-	1	-
West Virginia North Carolina South Carolina Georgia	-	3	3	-	-	4	-	43	-	-	3	2
North Carolina South Carolina Georgia	-	21	403	1	28	27	24	476	-	3	38	4
South Carolina	3	114	181 4	-	6 36	4	14 NN	2,812 NN	1		53	C. 1. 1. 1. 1.
Georgia	2	4 39	54	1.2.3	13	10	-	105		20	508	1
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AST SOUTH CENTRAL	네트 등	169	582	1	88	84 31	70	5,124	3	<u></u>	160	4
Kentucky	-	110 33	361 162	1	36 39	33	35	2,204	2	9	218	1
Tennessee	1.1	13	102		9	14	22	467	1	2	56	
Alabama	- E - 6	13	54	네 무대	4	6	-	364	-	121	15	1
and a strength of the	1	141	617	2	136	129	43	2,807	5	3	285	2
EST SOUTH CENTRAL	1	161	61/	1	10	129	43	121	3	1	8	1.000
Arkansas	_	13	84	1.1.2.3	27	26	-	176		E - 1	62	1
Louisiana		23	50		13	15		347			33	-
Oklahoma Texas	1	119	415	1	86	75	41	2,163	2	3	182	1
1CAd3			0.30550		10 P. D.	140	b 11					
IOUNTAIN	- 1	715	540		24	27	32	974	3	3	374	204,1700
Montana		369	13	-	1	6	20	166	-	1	63	10.5-04
Idaho		50	236		2	4	-	154	1 2 1	1.2.1	12	
Wyoming		1	72		3	- 6	9	9 468	-	2	155	A CONTRACTOR OF
Colorado *	-	29	95	-	2	3	2	155	1	4	97	_
New Mexico	1	52 12	109 14	121	5	4	-	-	1 1	1020	-	-
Arizona	. I .	3	14	S	4	2	1	18	2	122	14	-
Utah	12.3	199	1945	기도관	3	2	-	4		1	33	-
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ACIFIC	7	778	2,092	2	86	149	50 9	4,088	5	16 2	1,744	5
Washington	-	55	972		8	16 12	12	710		2	182	1
Oregon	7	665	440 599	2	64	117	26	1,736	5	12	1,223	4
California	<u>_</u>	1	65	<u> </u>	2	4	- 20	95	1 - 1	1	_	-
Alaska Hawaii	Ξ.	57	16	1121	3		3	46		-	14	-
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Guam	-	7	11	_	1.0		-	315		da = 1.	4	-
uerto Rico	3	511	1,655		4	4	12	761	1	-	17	3
virgin Islands	-	22	-	-	-	-	-	30	-	-	-	A.S.A. 1.

*Delayed reports: Measles: Mass. delete 2, Iowa 5 Mumps: Me. 12, N.H. 1 Pertussis: Ohio delete 21 Rubella: Me. 4, Ohio 21, Col. 38

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING JULY 6, 1974 AND JULY 7, 1973 (27th WEEK) – Continued

22	TUBER	CULOSIS	TULA-	TYP	HOID		S-FEVER BORNE	NUMBER		VENEREAL	DISEAS	ËS		RABIES
AREA	(New	Active)	REMIA	FE	VER		potted fever)		GONORRHE	A	SYP	HILIS (Pri.	& Sec.)	ANIMAL
AREA	1974	Cum.	Cum.	1974	Cum.	1974	Cum.	1974	Cum	ulative	1974	Cum	ulative	Cum.
Contract in the second second	1974	1974	1974	1974	1974	1974	1974	19/4	1974	1973	17/4	1974	1973	1974
UNITED STATES	469	15,927	69	11	182	25	328	17,040	443,170	403,254	385	12,340	12,699	1,435
NEW ENGLAND	15	647		1.240	6	2	2	386	10,371	11,134	7	249	377	10
Maine	2	50	-		1			16	834 362	604 378	2	16	12	1 2
New Hampshire	1	16			<u> </u>	1	1 2	13	324	166	1.1	1	13	1
Massachusetts	6	364	-	9.217	2	1	1	162	4,340	5,387	4	100	188	3
Rhode Island	2	61		12-11	2	1	1	15	1,009	1,152	-	10	9	3
Connecticut	4	145	12001	-	1		-	180	3,502	3,447	3	114	151	ALC: NO.
MIDDLE ATLANTIC	98	2,800	1	1	30	2	28	2,115	53,456	55,995	78	2,743	2,890	16
Upstate New York	17	385	1	-	6 20	-	12	336	10,118	10,265	44	272	176	9
New York City	37 17	1,068		1	4	10.2	1.21	537	23,129	26,053	16	1,565	1,799	and start (
New Jersey	27	815	1.2	-	-	2	16	486	12,723	11,627	18	458	393	7
gi if Taxant Opta -	73	2 125	5	2	17	2	5	3,422	64,396	46,905	65	902	718	97
EAST NORTH CENTRAL	73	2,125	-	-	5	-	3	769	19,383	14 860	8	147	149	-
Indiana	5	329	-	1 -	1	-	-	298	6,665	5,743	7	100	171	10
Illinois	38	613	3	1	6	2	2	1,394	15,397	6,964	38	391 213	98	22
Michigan	13 3	545 43	2	1	4	1	1.2	590 371	16,050	14,326	11	51	259	64
WISCONSIN ,	1.00	1.00		(Long		(The second	1.1	11			1918		1.1.1	100.000
WEST NORTH CENTRAL	24	576	11		6	1	4	658	22,967	22,160	8	304	159	344
Minnesota	5	95 60	5		3	-	1	69 83	5,131 3,070	4,457 2,932	1	19	21	75
Iowa	10	288	9	1	1	103-2	3	266	7,366	7,560	5	205	60	21
North Dakota	1	14	-	1000	-	-	1 C -	8	355	322	-	3	1	69
South Dakota	1 2	33 30	2	1.0		1 2 1	1	50	1,081	1,151 2,318	1.2	25	22	3
Nebraska	ĩ	56	_		2	-	- 1	160	4,058	3,420	-	26	16	34
		2 204			28	13	102	6 176	112 704	101 /02	100	2 055	3,666	172
SOUTH ATLANTIC	82	3,301	8		20	13	192	5,175	113,704	101,492	122	3,955	5,000	1/2
Maryland	17	448	_		2	1	30	606	11,322	8,490	3	397	374	2
District of Columbia	3 14	213	3	-		4	62	282	8,301 9,554	8,197 9,837	11 9	331 432	435 365	56
Virginia *	3	403	-	1	7		1	52	1,307	1,584	-	9	11	21
West Virginia *	4	512	3	-	3	2	51	447	14,695	15,069	10	485	317	12
South Carolina	15	334	-	-	2	2	29	1,009	12,170	10,976	5	446	547	3 50
Georgia	12	433 751	2	1	2 10	1	14	1,033	23,674	19.226 26.736	17 67	432	609 952	27
Florida					1.18	100100	10.00	1.5 5.6	Stration.	Same	97243	206.2	11-110	Section 2
EAST SOUTH CENTRAL	20	1,441	7	1	20	5	49	1,042	38,005	33,830	11	633	845	151
Kentucky	14	342 482	4	1	9	5	33	465	14,869	12,633	4	249	229	36
Tennessee	6	414	2	_	2		6	286	10,452	9,736	4	125	96	19
Mississippi	-	203	-	-	-	100-1	6	187	8,027	7,284	2	115	206	1
WEGT COUTH CENTRAL	71	2,095	31	1	13	1	42	1,416	60,862	55,303	22	1,179	1,445	369
WEST SOUTH CENTRAL	10	269	21	-	1	1	7	139	6,072	6,891	-	63	84	45
Louisiana	9	247	2	-	2		-	7	12,341	11,647	1	332	437	18
Oklahoma	52	157	6	1	10		29	1,270	5,217	5,580 31,185	21	74	98 826	86 220
Texas	1.1	1.200	55		1997		Col. III III	1.2.1.	1.1					P Dent
MOUNTAIN	12	528	4	-	12	-	5	687	16,802	14,856	4	298	422	82
Montana	3	42	1	1	1	1 2	1	35	950	870	12	3	7	A. Mahal
Idaho	-	11	1	-	3	-	1	22	353	256		5	20	5
Colorado	-	100	- Ea	-	-	-	1	140	4,616	3,908	1-1-1-1	68	118	27
New Mexico	- 6	106	2		2	1	1	131 260	2,467	2,597	4	41	44 88	24
Arizona *	2	20	162			Des Des C		37	888	763	-	9	8	1
Nevada	1	33	-	-	1	-	-	14	1,360	1,295	-	49	134	-
BACIEIC	74	2,414	2	5	50		1	2,139	62,607	61,579	68	2,077	2,177	194
PACIFIC	10	156	-	2	11	-		178	5,819	5,644	10	53	79	-
Oregon	3	98		-	-	1.7.1	1	147	5,351	5,369	-	42	38	8
California	59	1,929	2	2	38	-	1 2	1,706	48,676	47,908	57	1,957	1,965	179
Alaska	2	182	1	1	1	198294	-	50	1,389	1,144		22	50	-
		2								24PF	alles for	-03 141	1	A SHAPE
Guam	-	21	-	_	_	_	1.00	Inter of	135	163	-	2	1	-
Puerto Rico	10	287	-	- E -	2	-	-	88	1,593	2,270	16	453	419	32
Virgin Islands		3	-	-	-	_		2	159	125	2	20	13	

*Delayed reports: Tuberculosis: Ohio 3, N.C. delete 2, Ariz. 13 RMSF: Va. delete 1

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Week No. 27

Morbidity and Mortality Weekly Report

TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING JULY 6, 1974 (By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area All Ages 65 years and over years 45.64 years 25.44 years Under years Area All Ages 65 years and over years 45.64 years 25.44 years NEW ENCLAND 66.06 89 36.4 16.6 35 17 45 1 45 1 12 6 16 16 48 stats, Ga 1935 1 57 2 32 2 7 2 3 2 7 2 7 2 7 2 3 3	Under an 1 year Influ All	mon and Influer All A 4
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Bridgeport, Conn. 27 16 7 3 1 Baltomer, Md. 211 95 71 25 Fall River, Mass. 25 19 6 - - Jacksonville, Fla. 86 45 26 5 Harfford, Conn. 48 20 13 1 2 Norfolk, Va. 45 24 12 5 Lowell, Mass. 20 8 - - 5 Stannah, Ga. 19 15 4 Norfolk, Va. 455 69 12 2 7 3 3 St. Peterbourg, Fla. 66 40 17 2 5 Strannah, Ga. 19 15 4 Washington, D.C. 166 71 36 22 2 Springfield, Mas. 27 22 17 3 1 1 Washington, D.C. 166 115 9 22 2 Springfield, Mas. 20 15 3 Washington, D.C. 16 3 3 27	11 3 4 - 2 -	
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Morester, Mass. 50 32 15 3 - 4 EAST SOUTH CENTRAL 586 341 154 42 MIDDLE ATLANTIC 2,559 1,493 690 160 105 95 Chattanooga. Ten. 69 32 3 Albany, N. Y. 53 28 16 3 3 - 2 Lauiville, Y. 95 5 - 2 Lauiville, Y. 95 55 25 4 Baffalo, N. Y. 164 85 57 11 4 12 Memphis, Tenn. 138 82 31 10 Camden, N. J. 22 16 9 1 16 Natyolite, Tenn. 88 50 22 6 Jeney City, N. J. 57 33 14 3 - 4 Matyolite, Tenn. 88 472 253 68 New Ark Gity, N. Y. 1,277 751 330 89 45 44 Austin Roue, Lait 30 20	10	
MIDDLE ATLANTIC 2,559 1,493 690 160 105 95 Charl Solution Charles (11,12) 101 54 34 8 MIDDLE ATLANTIC 2,559 1,493 60 105 95 Charlanoga, Tenn. 65 39 23 3 Allentown, Pa. 15 9 5 - - 2 Charlanoga, Tenn. 68 27 6 3 Buffalo, N. J. 122 13 6 1 - 3 Montgomery, Ala. 18 9 4 3 Lersey City, N. J. 57 39 14 3 - 3 Montgomery, Ala. 18 9 4 3 New York Gity, N. Y. 1, 277 751 300 89 45 44 Austin, Fez. 16 10 4 2 Philabedphis, Pa. 127 20 4 Baton Rouge, La 30 11 9 4 4 40 16 10 4 2 <td></td> <td></td>		
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*Estimate based on average percent of divisional total

EPIDEMIOLOGIC NOTES AND REPORTS AN OUTBREAK OF HEPATITIS AMONG U.S. ARMY PERSONNEL – Germany

In the third quarter of 1971, an increase in viral hepatitis cases was noted among U.S. Army personnel stationed within an area in Germany called the Nurnberg Medical Department Activity (MEDDAC)*. By the first quarter of 1974, 1,347 cases had been reported within the area, with a peak incidence occurring in the third quarter of 1973 (Figure 2). No deaths due to hepatitis were recorded.

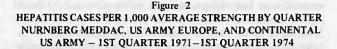
Epidemiologic investigation of the outbreak focused on 723 Army personnel admitted consecutively to the U.S. Army Hospital, Nurnberg, between October 1972 and December 1973. Review of admission cards revealed that: 1) the mean age of the patients was 20.6 years; 2) 99% were males; 3) the mean duration of Army service was 17 months; and 4) the mean duration of time served in Europe was 12 months.

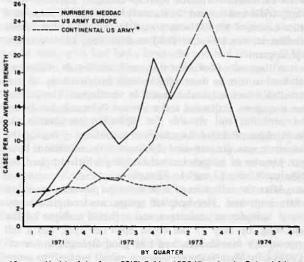
These data were compared with demographic data on all 13,839 soldiers assigned to the largest Army unit located within the Nurnberg MEDDAC area. The comparison showed that soldiers who were younger than 22 and were ranked lower than Private, First Class, were significantly more likely to develop hepatitis than the overall control population (p<0.01). However, further statistical analysis revealed that the rank variable was a function of age.

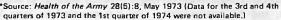
Detailed interviews were conducted with 212 of the 723 hospitalized patients and 215 soldiers, serving as controls, who were matched for age, sex, race, rank, and time in service. Eighty-three percent of the cases admitted to illicit drug use within the past 4 months-39% to oral use only (usually hashish-pipe sharing), 3% to parenteral use only, and 45% to a combination of oral and parenteral use. In contrast, 48% of the controls admitted to illicit drug use-45% to oral use only, 0.5% to parenteral use only, and 3% to both.

A history of recent exposure to a person with hepatitis was given by 88% of the cases; 26% of these said their exposure occurred during parenteral drug sharing. In comparison, 21% of the controls gave a history of recent exposure; none had been exposed during parenteral drug sharing.

Tests for the presence of the hepatitis B surface antigen (HBsAg) by the counterelectrophoresis technique yielded a positivity rate of nearly 40%. For those who admitted to parenteral drug use, the positivity rate was 57%. In addition, antigenic subtyping of 29 HBsAg-positive specimens was performed at the Walter Reed Army Institute of Research. The







majority of the specimens were of the ayw subtype; the subtype most commonly found in both acute hepatitis cases and HBsAg carriers in the local German population is **adw** (1).

Approximately 1 year after this outbreak began, similar increases in hepatitis cases were noted among all U.S. Army personnel stationed in Europe. This group (which includes the Nurnberg MEDDAC) reported a total of 6,030 cases between 1971 and 1973, with the highest attack rate (25/1,000/year) occurring in the 3rd quarter of 1973 (Figure 2). By contrast, the attack rate for all U.S. Army personnel stationed in the continental United States during this time period has remained between 3.7 and 5.7/1,000/year.

(Reported by Willard Cates, Jr., M.D., MAJ, MC, Chief, Preventive Medicine, and John W. Warren, M.D., MAJ, MC, Chief, OPD/ER, Nurnberg MEDDAC; Gilbert LaVoie, M.D., MAJ, MC, Chief, Epidemiology, U.S. Army Medical Command Europe; and Robert T. Cutting, M.D., COL, MC, Chief, Health and Environment, Office of the Surgeon General, Washington, D.C.)

Reference

1. Shober A, Thomsen R, Kaboth U: Serologische subtypes des hepatitis-B antigens. Dtsch Med Wochenschr 97:1579-1583, 1972

BOTULISM - Idaho, Utah

On May 10, 1974, a 2-1/2-year-old girl from Pocatello, Idaho, was noticed by her mother to be having difficulty swallowing and drinking liquids. The next day she developed bilateral ptosis, complained of dizziness, and could not keep her head erect. The mother took the child to a family physician who made a tentative diagnosis of accidental drug ingestion and recommended that the child be closely observed.

Later that day the patient developed dysphagia, dysarthria, generalized weakness, and dyspnea. The next day the child was admitted to the local hospital where she had a normal lumbar puncture and a negative Tensilon* test. Because of increasing respiratory distress, she was transferred that evening to a hospital in Salt Lake City, Utah.

On admission to that hospital the patient appeared alternately somnolent and alert, had a normal pulse and blood *Inclusion of trade names does not imply endorsement by the Public Health Service or the U.S. Department of Health, Education, and Welfare.

^{*}To provide medical services to troops stationed in Europe, the Army has divided the continent into geographic areas called MEDDACs. Each MEDDAC area has its own referral hospital and gives medical care to troops stationed permanently or temporarily in that area. The Nurnberg MEDDAC is the second largest MEDDAC in Europe, and its hospital is the third largest Army hospital in Europe.

BOTULISM – Continued

pressure, and had labored respirations of 50 per minute. Her temperature was 101.6° F. On physical examination there were rales at both lung bases and no bowel sounds. Neurologic examination revealed motor paralysis of cranial nerves 3, 4, 6, 7, 9, 10, and 12. Pupils were equal and reactive to light. There was marked proximal and distal muscle weakness of all extremities without sensory changes. Reflexes were symmetrical and normal. Laboratory examination revealed a white count of 17,500 with a shift to the left and a normal hematocrit, cerebrospinal fluid examination, and electroencephalogram.

A diagnosis of botulism was made, and 2 vials of bivalent botulinal antitoxin were administered intravenously. A tracheostomy was required to assist in ventilation. The patient was also given cathartics and enemas to evacuate her bowel and penicillin and steroids for aspiration pneumonia. On the third hospital day she was given guanidine, 10 mg/kg; the guanidine was discontinued 24 hours after initiation, however, because of gastrointestinal bleeding which dropped her hematocrit from 43 mg% to 33 mg%.

After the initiation of antitoxin, the patient's condition slowly improved. Her hospital course was complicated by several episodes of atelectasis and a partial collapse of the right lung. By May 23 she could open her eyes, had a full range of eye movements, and had good strength in her extremities. By May 30 she no longer required respiratory assistance, and her tracheostomy tube was removed on June 5. The patient was discharged from the hospital on June 15.

On May 10, the patient had attended a large church supper where many commercial and some home-canned foods were served; however, no other church members who were at the supper became ill. On May 9, the patient and her father had consumed some home-canned tomato juice from the same jar; however, her father had no signs or symptoms suggestive of botulism.

A pretreatment serum specimen examined at CDC revealed the presence of type A botulinal toxin in the child's serum. No toxin was detected in a pretreatment stool specimen, but *Clostridium botulinum* type A was isolated from it. No toxin or *C. botulinum* was found in the father's stool specimen obtained 4 days after onset of the child's symptoms. A low concentration (death of mice with 1:2 dilution only) of type A toxin, *C. botulinum* type A, and 3 other organisms— an unidentified gram-positive diplococcus, *Enterbacter agglomerans*, and an unidentified yeast-like organism—were found in the original opened jar of home-canned tomato juice. The pH of the tomato juice was 4.2.

The incriminated tomato juice had been prepared in

1972 using standard red tomatoes and golden yellow lowacid tomatoes. The tomatoes were washed, cooked very slowly until they were soft, and then boiled for approximately 10 minutes to loosen the tomato skins. Tomato juice was then strained into bottles and the pulps discarded. The jars were sealed with a 2-piece closure, placed in a cold-pack canner, and boiled for 20 minutes; pressure canning was not used. The jars were then cooled and placed on a shelf at room temperature.

(Reported by Roger Bow, M.D., private physician, Pocatello; Harry Ferguson and Craig Madson, Environmental Health Specialists, Southeastern District Health Department, Idaho; John Mather, M.D., State Epidemiologist, Idaho State Department of Environmental and Community Services; Gerald Moress, M.D., private physician, Salt Lake City; Terry Furgiuele, M.D., Resident, Primary Children's Hospital, Salt Lake City; Taira Fukushima, M.D., Director, Bureau of Disease Prevention, and Lyman J. Olsen, M.D., Director of Health, Utah State Division of Health; the Food and Drug Administration; and 3 EIS Officers.)

Editorial Note

This is the third botulism outbreak traced to a highacid home-canned food ($pH \leq 4.5$) that has been reported to CDC since October 1973 (MMWR, Vol. 22, No. 50 and Vol. 23, No. 10). Because *C. botulinum* has generally been thought to be incapable of multiplying and producing toxin in highacid foods, these reports have prompted numerous inquiries.

Two major hypotheses have been proposed to explain this phenomenon. One is that the presence of other microorganisms (such as the diplococcus, *E. agglomerans*, and a yeast-like organism found in the tomato juice) in food that has been inadequately heated during canning may allow *C.* botulinum spores to germinate and produce toxin (1,2). The other hypothesis is that there is an unequal distribution of acid substances in food that has been inadequately heated during canning which allows germination and multiplication of *C. botulinum* spores in the less acidic portions (1,2). The second hypothesis probably relates more to the preparation of fruits than tomato juice.

In this outbreak, the use of low-acid as well as standard tomatoes in the preparation of the tomato juice may have also facilitated spore germination by raising the pH to a higher level than if only standard red tomatoes had been used.

References

 Ingram M, Robinson RHM: A discussion of the literature on botulism in relation to acid food. J Appl Bacteriol 14:73-84, 1951
 Meyer KF, Gunnison JB: Botulism due to home-canned Bartlett pears XXXIX. J Infect Dis 45:135-147, 1929

INTERNATIONAL NOTES DEATHS FROM BACTERIAL MENINGITIS United Kingdom, 1973

In 1973, 1,760 cases of bacterial meningitis proven by isolation of an organism from the cerebrospinal fluid (CSF) were reported by laboratories in the United Kingdom. Of these, 195 (11%) were fatal. The corresponding figures for 1972 were 1,636 and 135 (8%). Although a slightly greater tendency to report fatal than recovered cases could account for the high proportion of deaths, other patients who develop permanent central nervous system complications are not included in these figures. However, many of the patients who died had severe congenital or other abnormalities predisposing to infection.

Neisseria meningitidis was the organism most frequently isolated from the patients reported. Indeed, the higher total of cases of bacterial meningitis reported last year is accounted for mainly by a 40% rise in the number due to this organism, from 601 in 1972 to 843 in 1973. A similar trend was noted in notifications of meningococcal infection to the Registrar General. However, this may be no more than the effect of a natural periodicity in the incidence of infection with this organism. *Hemophilus influenzae*, isolated from 340 patients, was the second most commonly isolated organism, although about 20% fewer cases were reported in 1973 than in 1972, and streptococci were isolated from a further 324 patients. These 3 organisms together accounted for 1,507 (86%) of all the cases of bacterial meningitis reported last year; *Escherichia coli* and the staphylococci together accounted for a further 136 (8%).

The sex and ages of those who died from bacterial meningitis are shown in Table 3. More males died than females, and deaths appeared to be most common at the extremes of life. More children than adults died, and 66 (34%) of the deaths were in infants less than 1 year old.

Of the more commonly isolated organisms, the highest percentage of deaths to isolations and the greatest number of deaths were caused by streptococci; a relatively large number of these patients were adults (Table 3). Of the 56 who died from pneumococcal meningitis, 16 patients had preceding illnesses. These were otitis media (5), blood dyscrasia (4), carcinoma (3), acute sinusitis (1), diabetes (1), and rheumatoid arthritis treated with steroids (1); 1 child had multiple congenital defects. Twenty-three deaths were caused by other types of streptococci. Three of these patients were premature infants, 2 others had spina bifida, and 1 had otitis media. From 1 of the premature infants, the organism was grown from aural and umbilical swabs (as well as blood and CSF) and also from a vaginal swab from its mother. In another unusual outbreak, the same *Streptococcus* type found in the CSF of a newly born infant who died was isolated from the blood of her twin sister and her mother and also from a vaginal swab from the mother.

A high proportion of deaths was also evident in patients with meningitis due to E. coli and Staphylococcus aureus. Fourteen of the 18 who died from E. coli meningitis were less than 1 year of age, and of these, 9 were neonates with complications such as prematurity, congenital neurological abnormality, or a difficult birth and delivery. One patient with S. aureus meningitis had had a headache and had felt unwell for 3 months; at postmortem a frontal lobe abscess, frontal sinusitis, and osteomyelitis of the roof of the sinus were found. One other patient, an alcoholic admitted with delirium tremens, died, and S. aureus and a hemolytic streptococcus were isolated from the CSF.

Mortality was lowest in meningitis due to N. meningitidis and to H. influenzae. Ten patients with meningococcal meningitis and 1 with H. influenzae meningitis developed the Waterhouse-Friderichsen syndrome before death. Four of 7 family contacts of 1 patient with meningococcal meningitis were found to be carrying the organism, and in another family 2 children died from meningococcal meningitis.

(From a Special Report of the Public Health Laboratory Service of England, Wales, and Northern Ireland, April 1974).

		Table 3			
Deaths From	Bacterial	Meningitis -	United	Kingdom,	1973

	Total		Deaths	and the second	1	Ag	ge of fa	talities	(Years)					Sex	
	Isolations (CSF)	Total	Percent of Isolations	Neonates	<1	1-4	5-14	15-24	25-44	45-64	65+	NS	М	F	NS
N. meningitidis	843	52	6	-	16	19	6	5	2	3	1	_	26	23	3
H. influenzae	340	9	3	-	3	6	-	_	-	-	-		5	4	-
S. pneumoniae	260	56	22	1	8	3	-	-	8	17	18	1	32	24	_
Other	10.00									10.000		1.0			1.5
streptococci	64	23	36	7	1	1	6	- 1	1	7	-	-	15	8	
E. coli	81	18	22	13	1	-	1	0.2.(3)	025.9	2	1	123	13	4	1
S. aureus	30	8	27		2	-	-	-	1	4	1	_	4	4	1
S. albus	25	1	4	-	1	- 1	2-21	-	1 - 1	- 1	-	-1	1	1	-
Mycobacterium sp.	25*	5	20	-	_		-	1	2	2	-		4	1	-
Listeria sp.	17	3	18		-	-	-			2	1	-	3	-	-
Klebsiella sp.	13	4	31	-	-	-	-	-	1	1	1	1	1	3	-
Proteus sp.	12	3	25	1	-	-	1	- 1			1	-	1	2	- 1
P. aeruginosa	8	1	12	1	-	-	-			-	-	-19	-	1	-
Enterobacter sp.	7	5	71	4	1	-		-	10 - J.	22 - ct.	_	-13	5	_	-
Other species	35	7	20	5	1	-		1		30	-	-29	3	3	1
Total	1,760	195	11	32	34	29	14	7	15	38	24	2	113	77	5

NS = not stated

*Includes 3 cases diagnosed by CSF microscopy only.

EPIDEMIOLOGIC NOTES AND REPORTS TURKEY-ASSOCIATED PSITTACOSIS – Missouri, Nebraska, Texas

Between May 6 and June 25, 1974, a total of 154 human cases of psittacosis (ornithosis) were reported among 560 employees of 4 turkey processing plants in Missouri (1), Nebraska (1), and Texas (2) (attack rate 28%). A rise in complement fixation titer to the Chlamydia group antigen was demonstrated in serum specimens from 11 individuals at 3 of

the plants. Illnesses were characterized by high fever (103- 107° F), headache, severe generalized malaise, and pneumonia. The highest incidence of disease was noted to be in the employees of the kill, pick, and eviscerating areas of the processing plants.

A turkey flock that originated from central Texas was

PSITTACOSIS – Continued

implicated by laboratory confirmation of ornithosis as the source of infection at 1 of the Texas processing plants. Epidemiologic evidence from poultry inspection records from the other Texas plant as well as the Nebraska and Missouri plants implicated birds from the same area in Texas as the source. Psittacosis has been confirmed in other flocks in this general area.

State and federal health officials are investigating the extent of flock involvement in Texas. They will quarantine flocks with evidence of infection until the birds are adequately treated to prevent transmission of the infection to slaughter house workers. As of July 1, Texas officials had quarantined 11 turkey-growing farms where diseased flocks were found. Further investigation is underway.

(Reported by M. S. Dickerson, M.D., State Epidemiologist, and A. B. Rich, D.V.M., Director, Division of Veterinary Public Health, Texas State Department of Health; P. A. Stoez, M.D., State Epidemiologist, Nebraska State Department of Health; H. D. Donnell, M.D., State Epidemiologist, and W. F. Raithel, D.V.M., Director, Bureau of Veterinary Public Health, Missouri Division of Health; and the Veterinary Public Health Branch, Parasitic Diseases and Veterinary Public Health Division, Bureau of Epidemiology, CDC.)

Editorial Note

This is the first reported outbreak of turkey-associated psittacosis in the United States since 1963 (MMWR, Vol. 12, No. 44). Since that year, an average of 45 cases of the disease have been reported annually, mostly associated with other species of birds.

In adults with mild disease, tetracycline in doses of 0.25 to 0.5 gm every 6 hours is the treatment of choice. Intravenous tetracycline of 0.5 to 0.75 gm every 12 hours should be used for severe disease. To prevent relapse, therapy should be continued for at least 2 weeks after the patient has become afebrile.

Erratum, Vol. 23, No. 22, p. 194

In the article "Salmonellosis – Philippines, California," paragraph 4, line 2, correct the sentence to read: After 12 days he became afebrile

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Director, Center for Disease Control Director, Bureau of Epidemiology, CDC Editor, MMWR Managing Editor, MMWR David J. Sencer, M.D. Philip S. Brachman, M.D. Michael B. Gregg, M.D. Deborah L. Jones, B.S. In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials.

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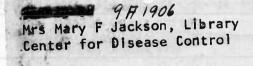
The data in this report are provisional, based on weekly telegraphs to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

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

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