

MNWR

MORBIDITY AND MORTALITY WEEKLY REPORT

Epidemiologic Notes and Reports

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Epidemiologic Notes and Reports

Burkitt's Lymphoma — Winchester, Virginia

Three cases of Burkitt's lymphoma (BL) have occurred since 1971 in young boys living in one residential section of Winchester, Virginia. Onset of illness in the first 2 cases (ages 9 and 15) occurred simultaneously in August 1971 (1); the third patient (age 8) first became ill in July 1975.

The first 2 patients lived 2 houses apart and the third one-half mile away. None of the 3 patients or their families was acquainted or shared common community activities, although all 3 boys had attended the same grade school at different times. All 3 patients were Caucasian.

Manifestations of disease were similar in all 3 cases. Initial symptoms in each case involved persistent sore throat progressing to peritonsillar masses in the first 2 cases and to cervical adenopathy in the third. Histologic diagnosis of BL was made on biopsy of these masses and was confirmed on pathologic review at the National Cancer Institute. Marrow aspiration was suggestive of leukemic transformation in the third case, but not in the first 2. In each case there was clinical evidence of central nervous system (CNS) tumor involvement. Despite intensive chemotherapy in all 3 cases, and radiation therapy in 2, disease was unremitting and led to death 1, 4, and 7 months after initial diagnosis. Autopsy findings in the first 2 cases showed widespread tumor involving the CNS, as well as cervical and abdominal lymph nodes. In the third case, autopsy showed residual tumor only at the original site of occurrence (the neck). Serum antibody against Epstein Barr virus (EBV) was present at low titers in 2 cases.

Epidemiologic investigation revealed no clues to suggest a possible common etiology for these cases beyond their closeness in time and place of occurrence. Although the summers of 1971 and 1975 had somewhat greater rainfall than other years, no evidence was found to link the cases to increased mosquito or other insect exposures. No unusual local patterns of leukemia, lymphoma, or infectious mononucleosis incidence were found, and no other persons with childhood cancer were identified as having been in contact with the patients or being in their particular neighborhood.

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Editorial Note: Burkitt's lymphoma is extraordinarily rare outside certain parts of central Africa and New Guinea where it constitutes the most common tumor of childhood (2). Epidemiologic surveys of childhood cancer in the metropolitan areas of Atlanta, Georgia, and Houston, Texas, suggest that the annual incidence of BL in the United States is in the range of about 1 case per million children, or an expected incidence of about 1 case every 200 years for a town the size of Winchester. In this context, the occurrence of 3 cases over 5 years in one neighborhood is distinctly unusual.

The etiologic significance of such case clustering is not clear. While early studies of African BL suggested that time-space case clustering was a common feature of the disease (3), more recent epidemiologic work has cast doubt on the idea (4). Current evidence suggests that the etiology of African BL may be related to EBV infection in a host whose immunologic state has been severely affected by constant and severe malarial infections (5). The present cases, however, provide no obvious clinical or epidemiologic clues regarding their particular etiology.

References

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International Notes

Haemophilus influenzae Infections — United Kingdom

Haemophilus influenzae is an important though relatively uncommon cause of serious infection in young children. It is responsible for about a quarter of those cases of meningitis in which a bacterial cause is identified, (1) and it is occasionally isolated from blood cultures in cases of septicemia. In the first 26 weeks of 1975, 196 reports of isolations of *H. influenzae* from cerebrospinal fluid and blood culture were received in the United Kingdom (Table 1). Of these, 40 were serotyped; almost all were capsulated strains belonging to type b. One type c strain was reported from the blood of a patient with septic arthritis of the ankle and a type d strain from a child with meningitis. Another strain, isolated from the cerebrospinal fluid of a 47-year-old patient with Hodgkin's disease, proved to be untypeable.

TABLE 1. *Haemophilus influenzae* meningitis and bacteremia, weeks 1-26, United Kingdom, 1975

	Age										Total
	Months			Years							
	0-3	4-6	7-12	1	2	3	4	5	75	Unknown	
Meningitis	10 (1)	14 (3)	28 (3)	35 (3)	23 (2)	10	17 (1)	4	9 (2)	4	154 (12)
Bacteremia	0	4	7	10	4 (1)	4 (1)	4	0	7	2	42 (6)

Figures in parentheses denote deaths.

Although meningitis due to *H. influenzae* is unusual under the age of 2 months, 2 of the cases reported were in babies 6-weeks-old; another case was 8-weeks-old. Cases are also unusual over the age of 5 years, but there were 11; 7 of these were adults aged 21, 26, 35, 47, 50 (2), and 82 years. Of 64 cases of *Haemophilus* meningitis in which the outcome was reported, 12 (19%) were fatal. This is lower than the case fatality rate of 30% reported in the United States (2) and 22% in Sweden (3). It is possible that a rate of 19% overestimates the severity of this disease in England and Wales, since laboratories are perhaps more likely to know the outcome of cases that prove fatal than of patients who recover. In 90 cases of meningitis the outcome was not reported.

In the first half of 1975 *H. influenzae* was isolated from the blood culture as well as the cerebrospinal fluid in 70 (45%) of reported cases. Of the 42 patients with bacteremia only, 12 had acute epiglottitis; 4 of the 12 were aged 4 years; the rest were younger. Three of the 42 patients were infants with osteomyelitis.

In addition to the cases given in Table 1, there were 2 patients with epiglottitis in which the organism was isolated from a throat swab but not from blood cultures; 1 of

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

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

DISEASE	22nd WEEK ENDING		MEDIAN 1971-1975	CUMULATIVE, FIRST 22 WEEKS		
	June 5, 1976	May 31, 1975		June 5, 1976	May 31, 1975	MEDIAN 1971-1975
Aseptic meningitis	40	55	39	765	823	820
Brucellosis	1	4	4	101	78	58
Chickenpox	5,082	4,565	---	125,706	96,916	---
Diphtheria	1	6	2	100	184	90
Encephalitis						
Primary	9	13	15	312	274	358
Post-Infectious	7	6	6	125	125	119
Type B	250	192	163	6,113	4,662	3,849
Hepatitis, Viral						
Type A	716	698	868	15,059	15,256	21,028
Type unspecified	167	175	---	3,744	3,415	---
Malaria	5	8	8	140	112	112
Measles (rubeola)	1,412	1,073	995	26,843	15,649	19,739
Meningococcal infections, total	24	22	28	836	731	731
Civilian	23	22	28	830	714	714
Military	1	---	---	6	17	20
Mumps	920	1,851	1,694	27,263	36,582	44,381
Pertussis	22	18	---	403	514	---
Rubella (German measles)	359	692	692	8,698	12,130	17,198
Tetanus	1	3	3	17	27	34
Tuberculosis	561	639	---	13,896	13,453	---
Tularemia	3	10	4	46	40	40
Typhoid fever	4	5	6	125	104	123
Typhus, tick-borne (Rky. Mt. spotted fever)	23	26	20	147	135	98
Veneral Diseases:						
Gonorrhea						
Civilian	16,339	17,517	---	404,488	394,959	---
Military	370	699	---	12,503	12,549	---
Syphilis, primary and secondary						
Civilian	360	491	---	10,459	10,867	---
Military	4	9	---	144	149	---
Rabies in animals	56	34	67	1,073	1,001	1,591

Table II. Notifiable Diseases of Low Frequency: United States

	CUM.		CUM.
Anthrax	2	Poliomyelitis, total: Calif. 1	5
Botulism	7	Paralytic: Calif. 1	5
Congenital rubella syndrome: La. 1	11	Psittacosis	21
Leprosy: Tex. 1	62	Rabies in man:	---
Leptospirosis	17	Trichinosis: *	52
Plague	2	Typhus, murine:	9

*Delayed report: Trichinosis: Ariz. 1

Table III
Cases of Specified Notifiable Diseases: United States
Weeks Ending June 5, 1976 and May 31, 1975 - 22nd Week

AREA REPORTING	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	DIPHTHERIA		ENCEPHALITIS			HEPATITIS, VIRAL			MALARIA	
	1976	1976	1976	1976	CUM. 1976	Primary: Arthropod- borne and Unspecified		Post In- fectious	Type B	Type A	Type Unspecified	1976	CUM. 1976
						1976	1975						
UNITED STATES	40	1	5,082	1	100	9	13	7	250	716	167	5	140
NEW ENGLAND	1	-	468	-	-	-	-	-	5	22	8	-	8
Maine	-	-	40	-	-	-	-	-	-	-	-	-	-
New Hampshire*	-	-	4	-	-	-	-	-	-	3	-	-	-
Vermont	-	-	7	-	-	-	-	-	-	1	1	-	-
Massachusetts	-	-	156	-	-	-	-	-	1	1	7	-	4
Rhode Island	1	-	121	-	-	-	-	-	-	10	-	-	1
Connecticut	-	-	140	-	-	-	-	-	4	7	-	-	3
MIDDLE ATLANTIC	6	-	135	-	-	-	3	-	24	83	26	-	25
Upstate New York	2	-	46	-	-	-	1	-	3	8	3	-	5
New York City	3	-	58	-	-	-	-	-	7	22	-	-	13
New Jersey	-	-	NN	-	-	-	1	-	5	13	22	-	-
Pennsylvania	1	-	35	-	-	-	1	-	9	40	1	-	7
EAST NORTH CENTRAL ..	3	-	2,345	-	-	1	5	1	39	76	20	1	10
Ohio	1	-	130	-	-	-	2	-	13	27	-	1	5
Indiana	-	-	128	-	-	-	2	-	1	8	11	-	-
Illinois	-	-	294	-	-	-	-	-	11	9	2	-	1
Michigan	2	-	1,127	-	-	1	1	-	9	26	7	-	4
Wisconsin	-	-	660	-	-	-	-	1	5	6	-	-	-
WEST NORTH CENTRAL ..	4	-	853	-	4	-	-	1	10	27	4	-	4
Minnesota	-	-	4	-	-	-	-	-	-	10	-	-	3
Iowa	-	-	284	-	-	-	-	-	6	2	-	-	-
Missouri	4	-	-	-	1	-	-	-	4	5	4	-	-
North Dakota*	-	-	6	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	3	-	-	-	-	7	-	-	1
Nebraska	-	-	33	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	566	-	-	-	-	1	-	3	-	-	-
SOUTH ATLANTIC	5	1	564	-	-	2	2	2	47	161	40	2	22
Delaware	-	-	12	-	-	-	-	-	1	-	-	-	-
Maryland	1	-	45	-	-	-	-	1	10	16	7	1	3
District of Columbia ..	1	-	196	-	-	-	-	-	1	26	-	-	2
Virginia	-	-	77	-	-	-	-	1	7	4	-	-	6
West Virginia*	-	-	156	-	-	-	-	-	-	2	-	-	-
North Carolina*	-	1	NN	-	-	2	1	-	7	10	6	-	3
South Carolina	1	-	1	-	-	-	-	-	-	4	-	-	1
Georgia	1	-	-	-	-	-	-	-	-	40	-	-	1
Florida	1	-	77	-	-	-	1	-	21	59	27	1	6
EAST SOUTH CENTRAL ..	3	-	49	-	-	3	-	-	13	33	5	-	1
Kentucky	1	-	16	-	-	-	-	-	1	2	1	-	-
Tennessee	-	-	NN	-	-	2	-	-	7	22	3	-	-
Alabama*	2	-	19	-	-	-	-	-	5	3	1	-	-
Mississippi	-	-	14	-	-	1	-	-	-	6	-	-	1
WEST SOUTH CENTRAL ..	8	-	154	-	1	1	3	-	17	87	19	-	6
Arkansas	-	-	1	-	-	-	1	-	2	8	4	-	-
Louisiana	-	-	NN	-	-	-	1	-	4	7	1	-	-
Oklahoma	-	-	27	-	-	-	-	-	3	18	6	-	-
Texas	8	-	156	-	1	1	1	-	8	54	8	-	6
MOUNTAIN	1	-	115	-	3	-	-	1	9	42	12	-	7
Montana	1	-	31	-	-	-	-	-	1	1	1	-	-
Idaho	NA	NA	NA	NA	-	NA	-	-	NA	NA	NA	NA	-
Wyoming	-	-	-	-	-	-	-	-	-	1	-	-	-
Colorado	-	-	68	-	3	-	-	-	4	6	5	-	4
New Mexico	-	-	7	-	-	-	-	-	-	18	2	-	1
Arizona	-	-	-	-	-	-	-	-	4	14	4	-	1
Utah	-	-	9	-	-	-	-	1	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	2	-	-	1
PACIFIC	9	-	311	1	92	2	-	2	86	185	33	2	57
Washington	4	-	231	1	90	-	-	-	4	13	5	1	2
Oregon	-	-	1	-	-	-	-	-	12	21	2	-	5
California*	5	-	-	-	1	2	-	2	59	147	26	1	49
Alaska	-	-	12	-	1	-	-	-	-	-	-	-	-
Hawaii	-	-	67	-	-	-	-	-	11	4	-	-	1
Guam	-	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	13	-	-	-	-	-	2	4	-	-	1
Virgin Islands*	-	-	-	-	-	-	-	-	-	-	-	-	-

NN: Not Notifiable NA: Not Available

*Delayed Reports: Asep. Meng.: W. Va. add 1; Chickenpox: New Hamp. add 60, Calif. add 18, V.I. add 1; Hep. B: Ala. delete 1; Hep. A: N. Dak. delete 1, N. Car. delete 1

Table III-Continued
Cases of Specified Notifiable Diseases: United States
Weeks Ending June 5, 1976 and May 31, 1975 - 22nd Week

REPORTING AREA	MEASLES (Rubella)			MENINGOCOCCAL INFECTIONS TOTAL			MUMPS		PERTUSSIS	RUBELLA		TETANUS
	1976	CUMULATIVE		1976	CUMULATIVE		1976	CUM. 1976	1976	1976	CUM. 1976	CUM. 1976
		1976	1975		1976	1975						
UNITED STATES	1,412	26,843	15,649	24	836	731	920	27,263	22	359	8,698	17
NEW ENGLAND	6	214	198	3	37	42	27	1,004	-	7	230	-
Maine	-	3	10	-	-	5	4	86	-	1	3	-
New Hampshire	2	7	19	-	2	2	-	24	-	-	11	-
Vermont	-	-	38	-	3	-	-	5	-	-	1	-
Massachusetts	3	23	57	1	11	13	1	139	-	2	115	-
Rhode Island	-	14	1	-	4	3	12	365	-	-	5	-
Connecticut	1	167	73	2	17	19	10	385	-	4	95	-
MIDDLE ATLANTIC	171	5,228	1,023	4	111	75	37	2,131	2	31	1,828	-
Upstate New York	48	1,873	301	1	40	23	4	304	1	8	364	-
New York City	15	310	93	2	30	18	14	1,022	1	2	107	-
New Jersey	20	544	379	-	16	11	10	407	-	13	1,198	-
Pennsylvania	88	2,501	250	1	25	23	9	398	-	8	159	-
EAST NORTH CENTRAL ..	647	11,410	4,547	1	132	107	477	11,539	4	195	3,222	-
Ohio	9	389	80	1	75	21	48	1,613	-	1	238	-
Indiana	135	2,393	318	-	4	5	65	1,157	-	17	420	-
Illinois	64	1,185	1,043	-	10	18	63	1,561	1	81	1,071	-
Michigan	311	4,580	2,372	-	35	50	183	4,350	2	81	1,146	-
Wisconsin	168	2,863	734	-	8	13	118	2,858	1	15	347	-
WEST NORTH CENTRAL ..	81	829	4,355	-	56	37	88	3,045	6	29	313	1
Minnesota	41	278	180	-	11	8	7	538	1	1	25	-
Iowa	6	16	387	-	8	5	31	1,117	-	-	37	-
Missouri	2	12	203	-	17	19	3	243	-	1	29	-
North Dakota	-	1	948	-	3	-	1	113	-	-	1	1
South Dakota	-	2	346	-	1	1	-	4	-	1	14	-
Nebraska	-	40	356	-	2	1	-	64	-	-	3	-
Kansas	32	480	1,935	-	14	3	46	966	5	26	204	-
SOUTH ATLANTIC	59	1,637	191	2	157	146	47	2,057	5	29	1,146	7
Delaware	4	122	22	-	2	4	2	26	-	-	6	-
Maryland	-	643	17	1	15	15	11	539	-	-	1	2
District of Columbia ..	-	4	-	-	2	4	-	91	-	-	45	-
Virginia*	31	411	20	1	20	15	5	173	-	10	209	1
West Virginia	10	151	109	-	4	5	21	634	1	15	251	-
North Carolina	-	-	-	-	29	27	-	322	-	-	13	-
South Carolina	-	3	-	-	28	24	-	36	-	-	568	-
Georgia	-	-	2	-	13	8	-	-	-	-	1	-
Florida	14	303	21	-	44	44	8	236	4	4	52	4
EAST SOUTH CENTRAL ..	93	645	205	4	65	105	66	2,258	2	10	262	2
Kentucky	92	624	76	2	14	47	6	886	2	1	134	1
Tennessee	1	6	119	2	28	37	47	1,154	-	9	125	1
Alabama	-	-	3	-	16	13	9	186	-	-	-	-
Mississippi	-	15	7	-	7	8	4	32	-	-	3	-
WEST SOUTH CENTRAL ..	9	585	203	4	129	116	66	1,868	-	5	462	5
Arkansas	-	-	-	-	5	6	-	63	-	-	188	-
Louisiana	4	161	-	1	19	23	-	18	-	-	83	2
Oklahoma	2	267	90	-	18	8	12	591	-	-	51	-
Texas	3	157	113	3	87	79	54	1,196	-	5	140	3
MOUNTAIN	200	4,699	982	2	28	27	32	988	-	17	423	1
Montana	9	177	24	1	3	3	-	19	-	15	214	-
Idaho	NA	1,905	4	-	2	4	NA	421	NA	NA	18	-
Wyoming	-	3	-	-	-	-	-	1	-	-	2	-
Colorado	3	261	887	-	10	8	18	188	-	-	18	-
New Mexico	1	14	7	1	2	4	-	124	-	1	31	-
Arizona*	4	345	35	-	7	1	-	-	-	-	-	1
Utah	182	1,935	9	-	4	6	-	122	-	1	123	-
Nevada*	1	59	16	-	-	1	14	113	-	-	17	-
PACIFIC	106	1,596	3,945	4	121	76	80	2,373	3	36	812	1
Washington	30	125	127	1	20	13	22	818	-	3	128	-
Oregon	14	107	158	1	10	4	4	288	-	8	109	1
California	62	1,362	3,612	1	82	58	52	1,233	3	25	564	-
Alaska	-	-	-	1	7	-	-	17	-	-	-	-
Hawaii	-	2	48	-	2	1	2	17	-	-	11	-
Guam	-	6	15	-	1	1	-	7	-	-	3	-
Puerto Rico	10	129	426	-	2	1	22	499	-	-	5	14
Virgin Islands*	-	4	6	-	-	-	-	20	-	-	3	1

NA: Not Available

*Delayed Reports: Measles: Va. delete 1, Ariz. delete 123, Nev. add 2, V.I. add 1; Rubella: V.I. add 2

Table III-Continued
Cases of Specified Notifiable Diseases: United States
Weeks Ending June 5, 1976 and May 31, 1975 - 22nd Week

REPORTING AREA	TUBERCULOSIS		TULA- REMIA	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (RMSF)		VENEREAL DISEASES (Civilian Cases Only)						RABIES IN ANIMALS
								GONORRHEA			SYPHILIS (Pri. & Sec.)			
	1978	CUM. 1976	CUM. 1976	1976	CUM. 1976	1976	CUM. 1976	1976	CUMULATIVE		1976	CUMULATIVE		CUM. 1976
									1976	1975		1976	1975	
UNITED STATES	561	13,896	46	4	125	23	147	16,339	404,488	394,959	360	10,459	10,867	1,073
NEW ENGLAND	9	507	-	-	17	-	2	362	10,995	10,840	10	316	382	18
Maine	1	34	-	-	-	-	-	34	925	717	-	8	9	13
New Hampshire	1	22	-	-	2	-	-	10	288	301	-	4	10	-
Vermont	-	14	-	-	-	-	-	11	257	248	-	2	4	-
Massachusetts*	4	300	-	-	13	-	2	160	5,247	5,177	9	236	252	4
Rhode Island	1	36	-	-	-	-	-	20	711	843	-	11	5	1
Connecticut	2	101	-	-	2	-	-	127	3,567	3,554	1	55	102	-
MIDDLE ATLANTIC	91	2,606	-	-	20	-	5	2,471	44,600	45,953	74	1,781	1,995	9
Upstate New York	17	393	-	-	4	-	1	285	6,619	8,093	1	108	197	2
New York City	29	1,057	-	-	10	-	1	1,314	20,178	20,127	37	1,115	1,136	-
New Jersey	31	499	-	-	4	-	3	209	6,802	6,161	15	251	315	3
Pennsylvania	14	657	-	-	2	-	-	663	11,001	11,572	21	307	347	4
EAST NORTH CENTRAL ..	107	1,857	-	-	11	2	5	2,360	65,325	65,641	38	961	901	56
Ohio*	26	338	-	-	3	-	3	710	15,778	17,781	8	230	213	-
Indiana	11	252	-	-	-	-	-	80	5,914	6,016	1	51	55	14
Illinois	27	584	-	-	3	-	-	709	24,099	22,643	22	515	435	10
Michigan*	36	572	-	-	4	2	2	643	13,389	12,767	6	115	149	1
Wisconsin	7	111	-	-	1	-	-	218	6,145	6,434	1	50	49	31
WEST NORTH CENTRAL ..	14	506	12	-	5	1	1	692	20,534	19,169	8	188	248	251
Minnesota	-	100	3	-	2	-	-	170	3,832	3,981	2	41	52	61
Iowa	2	47	1	-	-	-	-	131	2,602	2,574	-	19	10	56
Missouri*	10	236	7	-	3	1	1	136	8,103	6,952	3	81	137	36
North Dakota	-	13	-	-	-	-	-	21	302	296	-	-	3	53
South Dakota	-	26	-	-	-	-	-	21	576	753	-	2	3	14
Nebraska*	1	24	-	-	-	-	-	28	1,716	1,716	-	13	4	4
Kansas	1	60	1	-	-	-	-	185	3,403	2,897	3	32	39	27
SOUTH ATLANTIC	146	3,052	3	1	15	9	74	4,150	97,495	96,968	84	3,074	3,405	158
Delaware	2	40	-	-	-	-	-	53	1,320	1,345	-	40	37	-
Maryland*	20	444	1	-	-	-	4	600	13,545	10,956	5	248	255	11
District of Columbia ..	7	129	-	-	-	-	-	208	5,744	5,999	6	283	276	-
Virginia	31	509	-	-	3	4	21	408	10,305	9,636	8	284	261	26
West Virginia	7	131	-	-	1	-	1	35	1,257	1,197	-	16	12	8
North Carolina*	23	527	2	-	1	4	29	559	14,589	13,967	11	594	455	1
South Carolina	7	231	-	-	1	1	15	NA	9,239	9,175	NA	160	229	2
Georgia	25	390	-	-	2	-	4	978	18,186	17,767	25	331	455	88
Florida	24	651	-	1	7	-	-	1,309	23,310	26,926	29	1,118	1,425	22
EAST SOUTH CENTRAL ..	32	1,177	11	-	6	7	27	1,597	36,596	32,547	15	432	472	61
Kentucky	7	270	1	-	3	1	5	204	4,624	4,097	2	65	76	39
Tennessee	8	342	10	-	3	6	20	563	14,337	12,957	9	180	172	14
Alabama	6	342	-	-	-	-	1	469	10,399	8,929	3	82	115	8
Mississippi	11	223	-	-	-	-	1	361	7,236	6,564	1	105	109	-
WEST SOUTH CENTRAL ..	66	1,595	13	-	3	4	32	1,819	53,781	49,618	51	1,210	928	283
Arkansas	10	217	4	-	-	-	7	192	4,973	5,230	-	39	27	72
Louisiana	4	247	1	-	-	-	-	385	7,695	9,298	16	264	218	-
Oklahoma	4	145	5	-	-	4	23	161	4,956	4,527	3	48	40	71
Texas	48	986	3	-	3	-	2	1,081	36,157	30,563	32	859	643	140
MOUNTAIN	8	373	1	-	7	-	1	598	15,297	15,433	6	289	283	60
Montana	-	22	1	-	2	-	-	55	802	848	-	3	3	49
Idaho	NA	9	-	NA	1	NA	1	NA	787	771	NA	21	8	-
Wyoming	-	8	-	-	-	-	-	8	344	392	-	6	4	1
Colorado	2	80	-	-	1	-	-	102	3,920	3,923	-	71	53	-
New Mexico*	-	56	-	-	1	-	-	103	2,963	2,739	-	78	81	-
Arizona	6	170	-	-	2	-	-	278	4,491	4,143	6	77	97	10
Utah	-	14	-	-	-	-	-	21	821	931	-	15	9	-
Nevada*	-	14	-	-	-	-	-	31	1,169	1,686	-	18	28	-
PACIFIC	88	2,223	6	3	41	-	-	2,290	59,865	58,790	74	2,208	2,253	177
Washington*	14	215	2	-	2	-	-	269	5,107	5,337	-	45	69	1
Oregon	2	72	1	-	-	-	-	214	4,485	4,324	2	55	53	-
California	60	1,650	3	3	38	-	-	1,691	47,551	46,758	67	2,050	2,105	138
Alaska	-	25	-	-	-	-	-	33	1,589	1,459	-	12	1	38
Hawaii	12	261	-	-	1	-	-	83	1,133	912	5	46	25	-
Guam	-	24	-	-	-	-	-	-	148	205	-	1	3	-
Puerto Rico	8	139	-	-	-	-	-	59	1,130	1,265	11	240	314	17
Virgin Islands*	-	2	-	-	-	-	-	6	110	70	1	32	16	-

NA: Not Available

*Delayed Reports: TB: Mass. delete 10, Ohio delete 5, Mich. delete 1, Maryland delete 1, D.C. add 2, N. Car. delete 1; Tularemia: Mo. add 1; GC 9(civ.): Neb. add 27, N. Mex. add 19, Nev. add 41, V.I. add 7; GC (mil.): Neb. add 1, Wash. add 83; Syphilis: Ohio delete 3, Wash. add 17, V.I. add 1

Table IV
Deaths in 121 United States Cities*
Week Ending June 5, 1976 — 22nd Week

REPORTING AREA	ALL CAUSES					Pneumonia and Influenza ALL AGES	REPORTING AREA	ALL CAUSES					Pneumonia and Influenza ALL AGES
	ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year			ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year	
NEW ENGLAND	589	378	160	18	14	33	SOUTH ATLANTIC	941	509	275	77	37	30
Boston, Mass.	172	108	44	6	5	14	Atlanta, Ga.	115	64	27	15	5	3
Bridgeport, Conn.	26	16	8	1	1	1	Baltimore, Md.	142	64	41	20	7	1
Cambridge, Mass.	20	13	5	-	1	2	Charlotte, N. C.	61	28	22	4	5	3
Fall River, Mass.	24	18	6	-	-	1	Jacksonville, Fla.	63	34	19	7	1	1
Hartford, Conn.	42	23	15	3	1	3	Miami, Fla.	84	45	30	6	2	-
Lowell, Mass.	24	14	10	-	-	1	Norfolk, Va.	36	20	10	3	2	5
Lynn, Mass.	15	13	1	1	-	-	Richmond, Va.	60	34	16	4	2	4
New Bedford, Mass.	26	21	3	1	-	2	Savannah, Ga.	26	13	11	-	1	3
New Haven, Conn.	57	31	19	2	2	-	St. Petersburg, Fla.	64	47	11	-	6	-
Providence, R.I.	57	38	14	2	2	6	Tampa, Fla.	57	31	17	4	3	5
Somerville, Mass.	5	4	1	-	-	-	Washington, D. C.	172	94	53	10	3	5
Springfield, Mass.	56	31	21	1	1	-	Wilmington, Del.	61	35	18	4	-	-
Waterbury, Conn.	15	9	5	1	-	3							
Worcester, Mass.	49	39	8	-	1	-							
MIDDLE ATLANTIC	2,664	1,667	662	168	96	98	EAST SOUTH CENTRAL	538	299	146	41	22	30
Albany, N. Y.	60	38	14	2	3	1	Birmingham, Ala.	76	47	19	5	1	1
Allentown, Pa.	20	12	7	1	-	-	Chattanooga, Tenn.	48	23	19	3	1	2
Buffalo, N. Y.	107	60	33	8	4	8	Knoxville, Tenn.	35	23	8	1	1	3
Camden, N. J.	32	16	13	2	1	-	Louisville, Ky.	78	46	19	3	5	6
Elizabeth, N. J.	22	14	8	-	-	2	Memphis, Tenn.	131	65	40	12	8	8
Erie, Pa.	45	26	13	3	2	1	Mobile, Ala.	65	35	15	6	5	2
Jersey City, N. J.	45	30	12	-	2	-	Montgomery, Ala.	30	18	5	2	-	5
Newark, N. J.	66	39	13	4	8	1	Nashville, Tenn.	75	42	21	9	1	3
New York City, N. Y.	1,404	882	330	108	50	44							
Paterson, N. J.	35	18	12	4	-	1	WEST SOUTH CENTRAL	971	543	248	85	48	28
Philadelphia, Pa.	301	181	82	16	10	23	Austin, Tex.	33	18	9	4	1	4
Pittsburgh, Pa.	171	105	51	5	6	6	Baton Rouge, La.	55	29	18	2	3	3
Reading, Pa.	36	25	7	2	1	3	Corpus Christi, Tex.	25	11	5	4	-	-
Rochester, N. Y.	101	66	24	2	4	3	Dallas, Tex.	159	97	30	15	9	3
Schenectady, N. Y.	25	18	5	2	-	1	El Paso, Tex.	39	24	10	-	2	4
Scranton, Pa.	41	24	15	1	1	1	Fort Worth, Tex.	63	41	15	3	1	-
Syracuse, N. Y.	60	46	7	1	2	1	Houston, Tex.	175	82	54	26	6	2
Trenton, N. J.	46	32	9	4	1	1	Little Rock, Ark.	36	26	7	2	-	1
Utica, N. Y.	15	11	2	1	-	1	New Orleans, La.	120	66	30	8	11	-
Yonkers, N. Y.	32	24	5	2	1	-	San Antonio, Tex.	134	72	38	10	7	3
							Shreveport, La.	64	39	14	5	4	3
							Tulsa, Okla.	68	38	18	6	4	5
EAST NORTH CENTRAL	2,126	1,280	558	119	84	47	MOUNTAIN	439	239	123	32	19	21
Akron, Ohio	74	46	20	3	2	-	Albuquerque, N. Mex.	54	30	13	6	2	5
Canton, Ohio	41	23	15	2	-	1	Colorado Springs, Colo.	26	17	6	2	1	6
Chicago, Ill.	552	306	159	37	24	11	Denver, Colo.	65	30	20	4	4	2
Cincinnati, Ohio	136	79	45	5	3	3	Las Vegas, Nev.	33	16	10	4	1	3
Cleveland, Ohio	151	87	42	9	9	1	Ogden, Utah	15	13	-	1	-	1
Columbus, Ohio	134	74	33	11	7	3	Phoenix, Ariz.	113	55	41	5	6	1
Dayton, Ohio	100	64	23	7	4	2	Pueblo, Colo.	14	6	4	2	-	1
Detroit, Mich.	259	147	56	20	8	4	Salt Lake City, Utah	42	25	12	2	2	2
Evansville, Ind.	42	31	8	-	3	4	Tucson, Ariz.	77	47	17	6	3	-
Fort Wayne, Ind.	36	21	11	-	1	1							
Gary, Ind.	14	9	4	-	1	-	PACIFIC	1,273	784	333	78	44	26
Grand Rapids, Mich.	51	39	9	2	-	2	Berkeley, Calif.	15	11	3	-	-	1
Indianapolis, Ind.	141	84	39	7	6	-	Fresno, Calif.	55	31	12	4	4	-
Madison, Wis.	36	24	6	2	3	5	Glendale, Calif.	18	12	4	-	1	-
Milwaukee, Wis.	112	88	16	4	2	4	Honolulu, Hawaii	47	30	11	2	4	2
Peoria, Ill.	39	25	10	2	2	-	Long Beach, Calif.	83	51	28	2	-	1
Rockford, Ill.	43	31	9	-	2	5	Los Angeles, Calif.	298	172	82	26	11	2
South Bend, Ind.	38	27	8	1	2	-	Oakland, Calif.	57	35	16	4	2	-
Toledo, Ohio	78	47	17	6	3	-	Pasadena, Calif.	37	28	6	-	3	1
Youngstown, Ohio	49	28	18	1	2	1	Portland, Oreg.	103	67	29	5	1	6
WEST NORTH CENTRAL	657	413	159	37	22	23	Sacramento, Calif.	64	37	12	5	4	-
Des Moines, Iowa	47	29	14	2	1	-	San Diego, Calif.	111	57	42	7	2	1
Duluth, Minn.	30	21	6	-	-	2	San Francisco, Calif.	162	96	43	14	4	3
Kansas City, Kans.	34	20	6	3	2	-	San Jose, Calif.	46	34	7	4	1	1
Kansas City, Mo.	124	78	27	10	3	1	Seattle, Wash.	95	60	24	4	6	1
Lincoln, Nebr.	18	12	4	1	1	3	Spokane, Wash.	41	27	10	1	1	3
Minneapolis, Minn.	78	51	12	6	3	2	Tacoma, Wash.	41	36	4	-	-	4
Omaha, Nebr.	77	44	24	4	5	1							
St. Louis, Mo.	153	100	41	5	3	9	TOTAL	10,198	6,112	2,664	655	386	336
St. Paul, Minn.	53	34	14	3	2	2	Expected Number	11,697	7,012	3,081	762	365	364
Wichita, Kans.	43	24	11	3	2	3							

†Delayed Report for Week Ending 5/29/76

The Morbidity and Mortality Weekly Report, circulation 52,000, is published by the Center for Disease Control, Atlanta, Georgia. The data in this report are provisional, based on weekly telegraphs to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

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

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Haemophilus influenzae — Continued

these cases was fatal. A 6-month-old baby had septic arthritis of the elbow from which *H. influenzae* was grown. In 3 adults *H. influenzae* was cultured from a brain abscess, in 1 instance in association with microaerophilic streptococci.

From notes based on reports to the Public Health Laboratory Service from public health and hospital laboratories in the United Kingdom and the Republic of Ireland, published in the British Medical

Journal, August 23, 1975.

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2. Sell SHW, Merrill RE, Doyne EO, Zimsky EP Jr: Long-term sequelae of *Haemophilus influenzae* meningitis. Pediatrics 49:206-211, 1972
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Surveillance Summary

Abortion — United States, 1974

In 1974, the 50 states and the District of Columbia reported 763,476 legal abortions to the Center for Disease Control, an increase of 24% over 1973. The national abortion ratio increased by 23% from 196 abortions per 1,000 live births in 1973 to 242 in 1974, representing nearly 1 legal abortion for every 4 live births. The national abortion rate rose from 14 abortions per 1,000 women aged 15-44 in 1973 to 17 in 1974, an increase of 21%.

In 1974, for the first time, all 50 states and the District of Columbia reported that abortion services had been performed within their boundaries. The redistribution of legal abortions into states which had restrictive laws before 1973

continued in 1974. Consequently, the trend noted in 1973 toward performance of abortions in a woman's state of residence continued in 1974, with 87% of women undergoing abortion in their home state, as compared to 75% in 1973 and only 56% in 1972 (Table 1).

Women obtaining legal abortions in 1974 tended to be young, white, unmarried, of low parity, and early in pregnancy at the time of the procedure (Table 1). Sixty-four percent were under age 25. Seventy percent of women were white; 30% were black and other races. Seventy-three percent were unmarried, while 27% were married. Forty-eight percent had no living children, 20% had 1 living child, and only 5% had 5 or more living children.

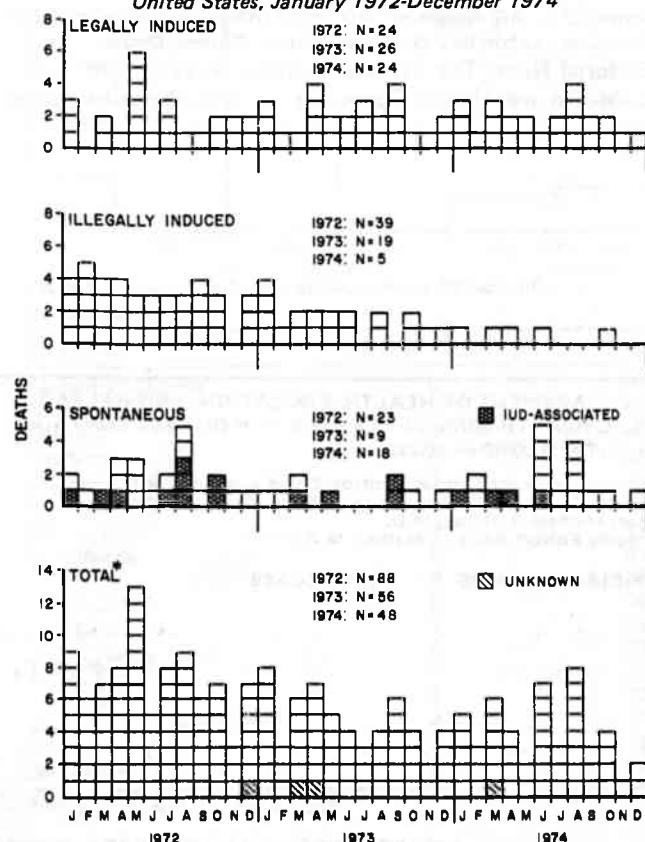
Suction curettage remained the predominant abortion method in 1974, accounting for 77% of all procedures, followed by sharp curettage (12%), intrauterine instillation (8%), and major abdominal operations (1%). Eighty-seven percent of women underwent abortion during the first 12 menstrual weeks of pregnancy.

TABLE 1. Characteristics of women receiving abortions, United States, 1972-1974

Characteristics	Percent Distribution ¹		
	1972	1973	1974
Residence			
Abortion in-state	56.2	74.8	86.6
Abortion out-of-state	43.8	25.2	13.4
Age			
< 19	32.6	32.7	32.7
20-24	32.5	32.0	31.8
> 25	34.9	35.3	35.6
Race			
White	77.0	72.5	69.7
Black and other	23.0	27.5	30.3
Marital Status			
Married	29.7	27.4	27.4
Unmarried	70.3	72.6	72.6
Number of Living Children			
0	49.4	48.6	47.8
1	18.2	18.8	19.6
2	13.3	14.2	14.8
3	8.7	8.7	8.7
4	5.0	4.8	4.5
> 5	5.4	4.9	4.5
Type of Procedure			
Curettage	88.6	88.4	89.7
Suction		65.2	74.9
Sharp		23.4	13.5
Intrauterine instillation	10.4	10.4	7.8
Hysterotomy/ Hysterectomy	0.6	0.7	0.6
Other	0.5	0.6	1.9
Weeks of Gestation			
< 8	34.0	36.1	42.6
9-10	30.7	29.4	28.7
11-12	17.5	17.9	15.4
13-15	8.4	6.9	5.5
16-20	8.2	8.0	6.5
> 21	1.3	1.7	1.2

¹Excludes unknowns.

FIGURE 1. Abortion-related deaths by category and month, United States, January 1972-December 1974



*Includes unknown

Abortion — Continued

Deaths related to abortion continued to decline in 1974, although at a slower rate (Figure 1). Forty-eight women died of complications of abortion, as compared with 56 the previous year. Legal abortions accounted for 24 of the 48 deaths in 1974, illegal abortions 5 deaths, spontaneous abortions 18, with 1 death of unknown category. The death-to-case rate for legal abortions fell to 3.1 deaths per 100,000 abortions. In addition, there were 50 deaths from spontaneous abortions in the period 1972-1974: 23 in 1972, 9 in 1973, and 18 in 1974. Seventeen of the

50 deaths were associated with an IUD *in situ* during the pregnancy.

Reported by Family Planning Evaluation Div, Bur of Epidemiology, CDC.

▲ A copy of the report from which these data were derived is available on request from Center for Disease Control, Attn: Director, Family Planning Evaluation Division, Bureau of Epidemiology, Atlanta, GA 30333. The report includes Spanish and French translations of the summary.

International Notes

Tuberculosis — Canada, 1975

Provisional figures published March 29, 1976, by Statistics Canada show a total of 3,178 tuberculosis cases for Canada in 1975, a decrease of 10% (318 cases) from 1974. New active cases decreased by nearly 12% (369 cases), 97% of the decrease being accounted for by the provinces of Quebec, Ontario, Manitoba, Alberta, and British Columbia. This decrease was offset by a 13% (51 cases) increase in re-activated cases; most provinces showed little change, but Quebec reported an increase from 102 in 1974 to 152 in 1975.

Sixty percent (508 cases) of the total Ontario notifications (843) were in foreign-born individuals; this figure represents 16% of the total national notifications, and 60% of the nationally notified foreign-born group. This provincial figure, surpassing national notifications among Indians and Inuit [Eskimo], again reflects the significant role of immigrant populations in tuberculosis in Canada generally, but particularly in Ontario.

Reported by AG Jessamine, MD, and F White, MD, Bureau of Epidemiology, Laboratory Center for Disease Control, Ottawa.

Editorial Note: The national notification system for tuberculosis in the United States has not included information

on country of birth for reported cases. However, information from several of the States suggests that tuberculosis in the foreign-born is comprising an increasing proportion of the total cases in parts of the United States, similar to the situation reported for Canada. Since current transmission of tuberculosis infection is usually at a low level in developed nations, most tuberculosis cases in such countries are likely to occur in older and/or foreign-born persons.

In a long-term study of tuberculous infection in U.S. navy recruits conducted by the Public Health Service it was found that tuberculin reactor rates in foreign-born recruits (19.2%) exceeded the rate for all recruits tested (4.5%) by more than 4 times (1). Persons who have come to the United States from countries where the prevalence of tuberculous infection is known to be high should be recognized as members of an increasingly important risk group and should be considered candidates for isoniazid preventive therapy.

Reference

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