



# Morbidity and Mortality

CDC  
ATLANTA, GA. 30333

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE  
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**EPIDEMIOLOGIC NOTES AND REPORTS**  
**OUTBREAK OF FOODBORNE STREPTOCOCCAL DISEASE - Florida**

Between August 16 and 21, 1974, an outbreak of Group A  $\beta$ -hemolytic M-9 T-9 streptococcal pharyngitis, affecting approximately 325 of 690 inmates, occurred in the Dade County Jail in Miami, Florida (Figure 1). The sore throats were accompanied by headache (64%), fever and chills (63%), myalgia (45%), diarrhea (20%), and vomiting (18%). Physical findings included exudative tonsillitis (50%) and submandibular lymphadenopathy (15%).

Between August 19 and 21 approximately 290 symptomatic inmates were placed on antibiotic therapy. On August 21 the 400 remaining inmates were given 1.2 million units of benzathine penicillin to prevent secondary cases.

A questionnaire survey of 185 randomly selected in-

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mates revealed that 47% reported a sore throat between August 16 and 22 (the definition of a case). Since none of the 154 employees of the prison who were surveyed developed illness, food items served to only inmates were carefully investigated. A second questionnaire survey revealed that food-specific attack rates for items served to 314 randomly selected inmates showed a significant association be-

**TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES**  
(Cumulative totals include revised and delayed reports through previous weeks)

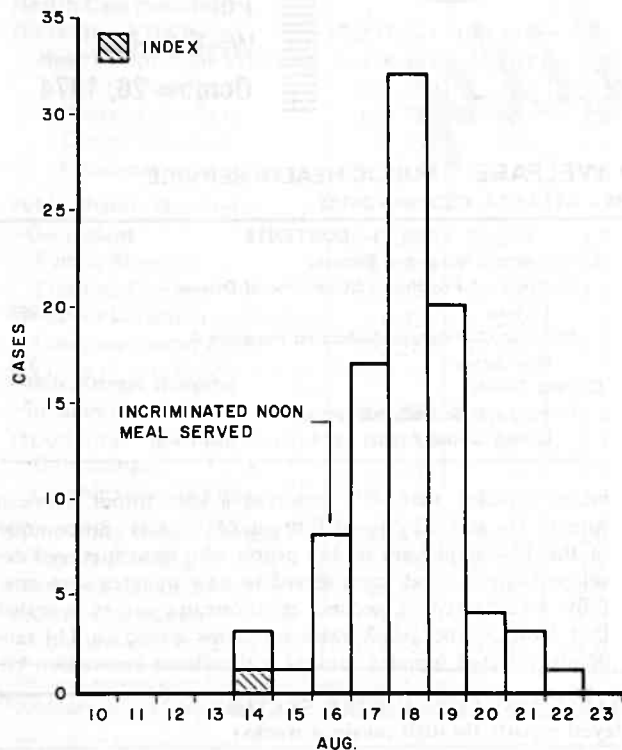
DISEASE	WEEK ENDING		MEDIAN 1969-1973	CUMULATIVE, FIRST 43 WEEKS		
	October 26, 1974	October 27, 1973		1974	1973	MEDIAN 1969-1973
Aseptic meningitis	83	93	129	2,599	3,895	3,895
Brucellosis	2	2	3	148	160	160
Chickenpox	1,075	604	---	103,177	147,754	---
Diphtheria	---	2	3	197	157	150
Encephalitis:						
Primary: Arthropod-borne and unspecified	23	33	35	852	1,266	1,265
Post-Infectious	3	4	4	215	241	262
Hepatitis, Viral:						
Type B	225	156	156	8,058	6,661	6,661
Type A	900	987	1,049	34,640	42,539	45,320
Type unspecified	180	---	---	6,816	---	---
Malaria	6	3	46	214	207	2,553
Measles (rubeola)	112	87	296	20,500	24,748	27,830
Meningococcal infections, total	31	18	34	1,101	1,159	1,923
Civilian	31	18	25	1,073	1,134	1,716
Military	---	---	---	28	25	207
Mumps	532	761	1,123	46,930	58,833	72,697
Pertussis	18	---	---	1,421	---	---
Rubella (German measles)	144	128	268	10,679	26,641	40,660
Tetanus	5	1	2	80	77	98
Tuberculosis, new active	570	626	---	25,232	25,906	---
Tularemia	2	7	3	126	141	128
Typhoid fever	9	10	13	348	575	303
Typhus, tick-borne (Rky. Mt. spotted fever)	5	12	5	737	612	426
Veneral Diseases:						
Gonorrhea	19,782	17,442	---	754,193	702,999	---
Syphilis, primary and secondary	518	516	---	20,729	20,621	---
Rabies in animals	43	42	49	2,469	2,916	2,915

**TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY**

	Cum.		Cum.
Anthrax:	2	Poliomyelitis, total:	5
Botulism: Oregon 1	15	Paralytic:	5
Congenital rubella syndrome: Calif. 1	44	Psittacosis:	148
Leprosy: Hi. 1, Texas 1	87	Rabies in man:	---
Leptospirosis: Fla. 3	33	Trichinosis: Okla. 1, Penn. 2	79
Plague: N.M. 1	3	Typhus, murine:	22

## STREPTOCOCCAL DISEASE — Continued

Figure 1  
CASES OF SORE THROAT, BY DATE OF ONSET,  
IN INMATES OF 17 RANDOMLY SELECTED CELL BLOCKS  
DADE COUNTY JAIL, MIAMI, FLORIDA — AUGUST 1974



tween ingesting egg salad and a beverage at the noon meal on August 16 and developing a sore throat (Table 1). A further analysis of these data (Table 2) incriminated egg salad alone. Isolation of Group A  $\beta$ -hemolytic M-9 T-9 streptococci, the epidemic strain, from an inmate's throat was significantly associated with developing a sore throat ( $p < .002$ ).

An inmate with a throat culture positive for the epidemic strain admitted to having a sore throat when he assisted in preparing the egg salad. The egg salad was made from 210 dozen eggs peeled by 5 inmates on August 15 and placed in large pans for overnight storage in a walk-in refrigerator whose ambient temperature ranged between 50° and 70°F. On August 16 the eggs were mixed with mayonnaise and left at room temperature for the next 4 hours until served.

Eighty-eight of 637 (13.8%) throat cultures obtained from randomly selected officers and inmates available for culturing on August 21 were positive for  $\beta$ -hemolytic streptococci. Thirty-three of these 88 were Group A  $\beta$ -hemolytic M-9 T-9 streptococci, 7 were Group A  $\beta$ -hemolytic streptococci (type not determined), and 48 were non-Group A  $\beta$ -hemolytic streptococci. Group A  $\beta$ -hemolytic M-9 T-9 streptococcus was isolated from throat cultures from 2 of 154 officers (1.3%) and 31 of 483 (6.4%) inmates ( $p < .006$ ). No significant difference could be demonstrated between the non-Group A carriage rate in officers and inmates.

(Reported by Milton S. Saslaw, M.D., M.P.H., Dr. P.H., Director, Joel L. Nitzkin, M.D., M.P.H., Chief, Office of Con-

sumer Protection, and Robert Levine, M.D., Public Health Resident, Dade County Department of Public Health; Glen E. Hastings, M.D., Medical Director, and Sandra Cominsky, R.N., P.N.P., Supervisor, Miami Jail, Prison Medical Services; Douglas Miller, M.D., Fellow in Ambulatory Care, Department of Internal Medicine, School of Medicine, University of Miami; Patrick Gallagher, Assistant Director, Corrections and Rehabilitation, Metropolitan Dade County; Robert A. Graves, M.S., M.P.H., Laboratory Manager, and Thomas O. Felkens, Microbiologist II, Miami Regional Laboratory, Florida Division of Health; and 2 EIS Officers.)

## Editorial Note

During the past decade foodborne outbreaks caused by streptococci have been rare (1,2). Only 3 such outbreaks have been reported to CDC's Foodborne Surveillance Program in the past 8 years. In the outbreak reported here, the probable source was the food handler who had pharyngitis while peeling eggs and who was found to harbor the epidemic strain of streptococcus in his throat. Improper refrigeration of the eggs and egg salad then allowed the streptococci to multiply to high enough levels to cause clinical illness in those ingesting the egg salad.

That only 5.2% of all cultures taken were positive for the epidemic strain is probably due to the fact that prompt and effective antibiotic therapy was given to all symptomatic individuals before the culture survey. Secondary cases were probably prevented by this therapy. Demonstration of the low carriage rate of the epidemic strain subsequent to the treatment of asymptomatic inmates suggests that penicillin prophylaxis in asymptomatic individuals in anticipation of a secondary wave may not have been necessary.

## References

- Hill HR, et al: Foodborne epidemic of streptococcal pharyngitis at the United States Air Force Academy. *N Engl J Med* 280(17):917-921, 1969
- Taylor PJ, McDonald MA: Milk-borne streptococcal sore throat. A study of 835 cases. *Lancet* i:330-333, 1959

Table 1  
Food-Specific Attack Rates for Items  
Consumed August 16, 1974  
Dade County Jail, Miami, Florida

	Ate			Did Not Eat			
	Ill	Total	% Ill	Ill	Total	% Ill	p
Beverage	179	264	67.8	22	50	44.0	<.01
Egg Salad	176	226	77.9	27	73	37.0	<.001
Sandwiches							

Table 2  
Cross-Table Analysis for Egg Salad and Beverage  
Consumed August 16, 1974  
Dade County Jail, Miami, Florida

	Ate Egg Salad				Did Not Eat Egg Salad			
	Ill	Well	Total	% Ill	Ill	Well	Total	% Ill
Drank beverage	152	49	201	75.6	19	53	72	26.4
Did not drink beverage	12	3	15	80.0	7	21	28	25.0

$p = .492$

$p = .552$

# Morbidity and Mortality Weekly Report

**TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING OCTOBER 26, 1974 AND OCTOBER 27, 1973 (43rd WEEK)**

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	DIPHTHERIA		ENCEPHALITIS			HEPATITIS, VIRAL			MALARIA	
						Primary: Arthropod- borne and Unspecified		Post In- fectious	Type B	Type A	Type Unspecified		
						1974	1973	1974	1974	1974	1974		
UNITED STATES	83	2	1,075	-	197	23	33	3	225	900	180	6	214
NEW ENGLAND	2	-	61	-	-	-	-	-	1	45	22	-	8
Maine *	-	-	4	-	-	-	-	-	-	2	5	-	-
New Hampshire *	-	-	-	-	-	-	-	-	-	4	-	-	-
Vermont	1	-	4	-	-	-	-	-	-	3	-	-	-
Massachusetts	1	-	19	-	-	-	-	-	-	11	17	-	2
Rhode Island	-	-	8	-	-	-	-	-	-	8	-	-	3
Connecticut	-	-	26	-	-	-	-	-	1	17	-	-	3
MIDDLE ATLANTIC	9	-	27	-	1	4	4	1	32	95	29	2	40
Upstate New York	2	-	12	-	-	-	-	-	2	17	5	1	15
New York City	1	-	15	-	-	-	1	-	11	30	-	1	14
New Jersey	5	-	NN	-	-	2	1	-	10	32	23	-	5
Pennsylvania *	1	-	-	-	1	2	2	1	9	16	1	-	6
EAST NORTH CENTRAL	11	-	527	-	2	5	16	1	43	150	28	-	19
Ohio *	2	-	22	-	1	3	2	-	21	32	-	-	6
Indiana	-	-	65	-	-	-	9	-	1	-	9	-	-
Illinois	-	-	-	-	1	-	1	-	-	27	7	-	2
Michigan	8	-	267	-	-	1	4	1	18	79	11	-	10
Wisconsin	1	-	173	-	-	1	-	-	3	12	1	-	1
WEST NORTH CENTRAL	8	1	211	-	-	-	5	-	14	34	11	-	7
Minnesota	4	-	1	-	-	-	1	-	9	12	-	-	2
Iowa	-	-	186	-	-	-	-	-	1	2	5	-	3
Missouri *	1	-	-	-	-	-	3	-	1	-	4	-	1
North Dakota	-	-	12	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	2	-	-	1
Nebraska	3	1	-	-	-	-	-	-	1	8	2	-	-
Kansas	-	-	12	-	-	-	1	-	2	10	-	-	-
SOUTH ATLANTIC	14	-	70	-	1	2	3	1	35	95	15	2	31
Delaware	1	-	1	-	-	1	-	-	1	1	2	-	1
Maryland	-	-	-	-	-	-	1	-	5	5	2	1	5
District of Columbia	-	-	1	-	-	-	-	-	1	1	-	-	5
Virginia *	5	-	5	-	-	-	-	-	3	9	8	-	6
West Virginia	-	-	61	-	-	-	-	-	-	2	-	-	1
North Carolina	1	-	NN	-	1	-	2	-	4	13	2	-	4
South Carolina	-	-	2	-	-	-	-	-	-	2	1	-	-
Georgia	-	-	-	-	-	-	-	-	-	36	-	-	1
Florida	7	-	-	-	-	1	-	1	21	26	-	1	8
EAST SOUTH CENTRAL	5	-	12	-	-	2	-	-	12	65	2	-	8
Kentucky	1	-	6	-	-	-	-	-	2	20	-	-	4
Tennessee	2	-	NN	-	-	-	-	-	9	32	1	-	1
Alabama	1	-	3	-	-	1	-	-	1	3	1	-	-
Mississippi	1	-	3	-	-	1	-	-	-	10	-	-	3
WEST SOUTH CENTRAL	15	-	78	-	9	4	3	-	26	82	16	1	15
Arkansas	-	-	-	-	-	-	-	-	1	8	5	-	1
Louisiana	11	-	NN	-	-	-	2	-	2	5	3	-	1
Oklahoma	-	-	26	-	-	4	-	-	14	9	1	1	6
Texas	4	-	52	-	9	-	1	-	9	60	7	-	7
MOUNTAIN	-	-	26	-	31	-	1	-	8	42	22	1	10
Montana	-	-	11	-	-	-	1	-	-	3	-	-	-
Idaho	-	-	1	-	-	-	-	-	-	1	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	3	-	-	-
Colorado	-	-	10	-	-	-	-	-	2	3	13	-	5
New Mexico	-	-	4	-	13	-	-	-	1	2	2	1	3
Arizona	-	-	-	-	18	-	-	-	4	26	3	-	-
Utah	-	-	-	-	-	-	-	-	1	4	4	-	1
Nevada *	-	-	-	-	-	-	-	-	-	-	-	-	1
PACIFIC	19	1	63	-	153	6	1	-	54	292	35	-	76
Washington	4	-	38	-	142	1	-	-	4	24	17	-	2
Oregon	1	-	2	-	-	-	-	-	7	18	1	-	-
California *	11	1	-	-	7	5	1	-	43	233	17	-	70
Alaska	-	-	18	-	4	-	-	-	-	16	-	-	-
Hawaii	3	-	5	-	-	-	-	-	-	1	-	-	4
Guam	-	-	-	-	-	-	-	-	-	-	-	-	2
Puerto Rico	-	-	11	1	1	-	-	-	2	-	17	-	1
Virgin Islands	-	-	4	-	-	-	-	-	-	-	-	-	3

\*Delayed reports: Aseptic meningitis: Penn. delete 1, Mo. 1  
Brucellosis: Pa. 1  
Chickenpox: Me. 26, N.H. 7, Calif. 3

Hepatitis B: Ohio 1, Mo. 1  
Hepatitis A: Me. delete 1, Ohio delete 2, Va. delete 1,  
Nevada 3  
Hepatitis unspecified: Me. 2, Mo. delete 2

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING OCTOBER 26, 1974 AND OCTOBER 27, 1973 (43rd WEEK) - Continued

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		PERTUSSIS	RUBELLA		TETANUS
	1974	Cumulative		1974	Cumulative		1974	Cum. 1974	1974	1974	Cum. 1974	Cum. 1974
		1974	1973		1974	1973						
UNITED STATES	112	20,500	24,748	31	1,101	1,159	532	46,930	18	144	10,679	80
NEW ENGLAND	2	933	7,451	2	57	48	48	6,104	1	35	1,057	1
Maine *	-	43	68	-	2	1	5	799	-	-	285	-
New Hampshire *	-	200	897	-	15	7	-	289	-	-	19	1
Vermont	-	57	119	-	2	3	1	29	-	3	26	-
Massachusetts	2	397	3,938	1	16	13	6	1,017	-	4	351	-
Rhode Island	-	59	619	1	8	3	17	2,491	-	-	19	-
Connecticut	-	177	1,810	-	14	21	19	1,479	1	28	357	-
MIDDLE ATLANTIC	28	8,121	2,539	8	167	161	50	3,744	5	6	1,118	7
Upstate New York	2	959	811	1	62	58	20	921	3	3	253	2
New York City	1	609	922	5	40	31	10	682	2	1	158	1
New Jersey	25	5,586	442	1	45	39	9	679	-	2	455	2
Pennsylvania	-	967	364	1	20	33	11	1,462	-	-	252	2
EAST NORTH CENTRAL	59	8,011	8,689	4	138	155	219	13,530	1	65	3,560	9
Ohio	3	3,052	290	-	53	66	23	3,195	-	1	519	2
Indiana	2	255	661	1	15	4	10	1,023	-	7	608	-
Illinois	6	2,063	2,095	-	10	25	22	1,221	-	26	589	3
Michigan	32	2,091	4,413	3	44	44	104	5,706	1	21	1,264	3
Wisconsin	16	550	1,230	-	16	16	60	2,385	-	10	580	1
WEST NORTH CENTRAL	1	697	450	3	84	86	55	2,933	3	1	225	13
Minnesota *	-	85	21	2	28	8	3	44	-	-	13	1
Iowa	-	134	279	1	14	21	37	1,790	-	-	15	1
Missouri *	-	264	53	-	21	34	5	401	3	-	41	5
North Dakota	1	31	64	-	3	3	2	51	-	1	17	3
South Dakota	-	27	-	-	3	4	-	2	-	-	26	-
Nebraska	-	2	6	-	3	7	-	86	-	-	6	-
Kansas	-	154	27	-	12	9	8	559	-	-	107	3
SOUTH ATLANTIC	8	579	1,258	1	215	199	62	5,661	3	1	1,251	23
Delaware	3	15	9	-	5	2	-	98	-	-	30	-
Maryland	-	24	13	1	23	27	1	119	-	-	5	1
District of Columbia	-	3	8	-	1	4	-	50	-	-	4	-
Virginia	2	38	421	-	37	38	18	614	-	1	49	3
West Virginia	3	217	218	-	7	6	37	3,019	1	-	293	1
North Carolina	-	5	4	-	45	42	NN	-	-	-	55	4
South Carolina	-	54	64	-	17	13	-	119	-	-	637	4
Georgia	-	4	152	-	8	22	-	1	-	-	3	1
Florida	-	219	369	-	72	45	6	1,641	2	-	175	9
EAST SOUTH CENTRAL	2	248	615	-	106	106	34	5,729	1	7	613	5
Kentucky	2	182	380	-	39	37	7	2,262	1	3	214	-
Tennessee	-	35	165	-	50	42	25	2,550	-	4	318	2
Alabama	-	18	12	-	10	15	1	542	-	-	62	1
Mississippi	-	13	58	-	7	12	1	375	-	-	19	2
WEST SOUTH CENTRAL	4	225	707	9	182	176	15	3,377	1	4	415	7
Arkansas	-	12	70	-	12	13	-	136	-	-	26	-
Louisiana	-	13	87	6	46	41	-	226	-	-	87	3
Oklahoma	1	29	55	1	19	31	1	378	-	-	50	1
Texas	3	171	495	2	105	91	14	2,637	1	4	252	3
MOUNTAIN	-	749	734	1	36	34	6	1,122	1	2	420	-
Montana	-	373	17	-	1	7	-	177	-	2	68	-
Idaho	-	52	256	-	2	4	-	158	-	-	14	-
Wyoming	-	1	81	-	3	-	-	10	-	-	-	-
Colorado	-	31	106	-	8	11	6	534	-	-	158	-
New Mexico	-	61	126	-	3	3	-	178	1	-	124	-
Arizona	-	17	19	-	7	5	-	-	-	-	1	-
Utah	-	15	128	-	8	2	-	60	-	-	22	-
Nevada	-	199	1	1	4	2	-	5	-	-	33	-
PACIFIC	8	937	2,305	3	116	194	43	4,730	2	23	2,020	15
Washington	-	68	1,027	-	14	20	7	1,613	-	6	389	1
Oregon	-	-	460	-	13	16	6	806	-	-	225	2
California	8	803	734	2	82	151	29	2,132	2	17	1,389	11
Alaska	-	-	65	1	4	7	1	114	-	-	-	-
Hawaii	-	66	19	-	3	-	-	65	-	-	17	1
Guam	-	17	52	-	1	-	-	362	-	-	6	-
Puerto Rico	10	622	1,909	-	6	8	36	1,070	2	1	31	4
Virgin Islands	-	29	7	-	-	-	-	35	-	-	-	1

\*Delayed reports: Measles: Minn. 1  
Meningococcal infection: N.H. 1, Mo. 2Mumps: Me. 2, N.H. 2  
Rubella: Me. 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING OCTOBER 26, 1974 AND OCTOBER 27, 1973 (43rd WEEK) - Continued

AREA	TUBERCULOSIS (New Active)		TULA- REMIA	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (Rky. Mt. spotted fever)		VENEREAL DISEASES					RABIES IN ANIMALS	
	1974	Cum. 1974	Cum. 1974	1974	Cum. 1974	1974	Cum. 1974	GONORRHEA		SYPHILIS (Pri. & Sec.)			Cum. 1974	
								1974	Cumulative 1973	1974	Cumulative 1974 1973			
UNITED STATES	570	25,232	126	9	348	5	737	19,782	754,193	702,999	518	20,729	20,621	2,469
NEW ENGLAND	15	1,025	-	3	17	-	8	546	20,110	17,482	6	417	557	24
Maine	-	79	-	-	1	-	-	52	1,688	1,122	-	36	22	2
New Hampshire	1	25	-	-	1	-	-	23	671	651	-	11	6	3
Vermont	2	22	-	-	-	-	-	20	542	299	1	2	21	1
Massachusetts	9	560	-	3	11	-	6	232	9,160	7,356	3	172	255	4
Rhode Island	-	92	-	-	2	-	2	36	1,762	1,802	-	16	14	4
Connecticut	3	247	-	-	2	-	-	183	6,287	6,252	2	180	239	10
MIDDLE ATLANTIC	91	4,625	2	2	58	-	66	2,008	89,689	97,059	104	4,435	4,567	71
Upstate New York	14	679	2	-	14	-	27	722	17,368	16,840	9	415	310	32
New York City	45	1,790	-	2	31	-	3	535	38,005	44,161	59	2,540	2,762	-
New Jersey	7	845	-	-	9	-	4	193	12,530	13,967	10	713	817	24
Pennsylvania	25	1,311	-	-	4	-	32	558	21,786	22,091	26	767	678	15
EAST NORTH CENTRAL	94	3,437	6	3	37	-	26	3,502	119,389	107,468	59	1,802	1,890	178
Ohio *	26	903	-	1	6	-	17	904	31,332	26,307	6	270	228	26
Indiana	7	503	-	-	5	-	1	215	11,350	9,799	5	155	245	13
Illinois	16	982	3	2	14	-	6	1,256	38,440	37,164	36	941	959	43
Michigan	32	945	-	-	10	-	2	852	26,627	25,467	11	347	394	4
Wisconsin	13	104	3	-	2	-	-	275	11,640	8,731	1	89	64	92
WEST NORTH CENTRAL	19	952	20	-	10	-	18	1,484	39,454	35,670	13	526	315	660
Minnesota	-	147	-	-	4	-	-	210	8,817	7,212	1	66	85	225
Iowa	2	104	-	-	2	-	1	456	5,106	4,157	2	33	51	112
Missouri	11	452	17	-	2	-	10	506	12,922	12,166	8	353	140	37
North Dakota	-	28	-	-	-	-	-	24	610	601	-	3	2	92
South Dakota	-	49	3	-	-	-	2	68	1,891	1,800	-	2	5	134
Nebraska	2	41	-	-	-	-	-	101	3,402	4,020	-	10	10	4
Kansas	4	131	-	-	2	-	5	119	6,706	5,714	2	59	22	56
SOUTH ATLANTIC	124	5,317	10	-	52	3	408	4,399	191,158	171,129	130	6,524	6,082	342
Delaware	1	87	-	-	-	-	10	40	2,554	2,482	3	74	74	1
Maryland	14	697	1	-	8	-	48	942	20,306	14,917	3	651	596	26
District of Columbia	10	301	-	-	1	-	-	310	13,751	14,688	10	541	712	-
Virginia	15	660	4	-	3	1	133	505	17,270	17,019	15	657	682	89
West Virginia *	6	248	-	-	13	-	5	37	2,234	2,532	1	17	20	30
North Carolina *	10	799	3	-	3	2	107	706	26,064	25,533	18	787	528	38
South Carolina	-	495	-	-	5	-	55	378	19,349	17,812	10	692	966	5
Georgia	12	777	2	-	3	-	48	314	38,876	32,972	4	707	864	118
Florida	56	1,253	-	-	16	-	2	1,167	50,754	43,174	66	2,398	1,640	35
EAST SOUTH CENTRAL	49	2,231	13	1	48	1	110	1,872	62,904	56,898	39	1,079	1,135	211
Kentucky	11	474	3	-	15	-	19	257	7,721	6,919	6	240	309	125
Tennessee	17	699	6	1	25	-	65	782	25,184	22,020	13	398	380	51
Alabama	15	670	2	-	4	-	10	524	17,292	16,195	2	208	161	32
Mississippi	6	388	2	-	4	1	16	309	12,707	11,764	18	233	285	3
WEST SOUTH CENTRAL	77	2,946	56	-	21	1	92	2,576	99,582	90,740	55	1,934	2,255	513
Arkansas *	13	339	29	-	1	-	11	369	9,667	10,396	4	85	116	65
Louisiana	9	421	3	-	8	-	1	262	19,835	19,356	4	506	695	24
Oklahoma	5	261	18	-	2	-	63	236	9,200	8,309	1	120	143	142
Texas	50	1,925	6	-	10	1	17	1,709	60,880	52,679	46	1,223	1,301	282
MOUNTAIN	20	801	12	-	18	-	6	722	28,722	23,940	17	484	505	154
Montana	-	59	-	-	-	-	1	39	1,554	1,377	-	3	4	6
Idaho	1	31	-	-	-	-	1	23	1,470	1,688	-	10	10	-
Wyoming	1	18	6	-	3	-	1	24	604	422	1	8	26	11
Colorado *	-	156	-	-	-	-	1	281	8,081	6,407	7	119	173	27
New Mexico	-	157	2	-	4	-	1	86	4,387	4,179	4	76	93	66
Arizona	18	296	-	-	8	-	-	176	8,128	6,793	5	180	129	43
Utah	-	35	4	-	-	-	1	51	1,700	1,355	-	14	12	1
Nevada *	-	49	-	-	3	-	-	42	2,798	1,719	-	74	58	-
PACIFIC	81	3,898	7	-	87	-	3	2,673	103,185	102,613	95	3,528	3,315	316
Washington	4	277	-	-	13	-	1	226	9,707	9,897	-	68	131	-
Oregon	2	171	1	-	1	-	2	319	9,450	8,995	7	89	53	6
California	68	3,071	6	-	69	-	-	1,904	79,502	79,474	87	3,328	3,050	299
Alaska	-	75	-	-	2	-	-	179	2,466	2,368	1	16	16	11
Hawaii	7	304	-	-	2	-	-	45	2,060	1,879	-	27	65	-
Guam	-	28	-	-	-	-	-	-	245	370	-	3	4	-
Puerto Rico	7	446	-	-	4	-	-	65	2,713	3,504	20	733	606	47
Virgin Islands	-	3	-	-	-	-	-	4	264	195	-	43	26	-

\*Delayed reports: Tuberculosis: Ohio delete 5, N.C. delete 1, Ark. delete 3, Colo. delete 3  
Typhoid: W. Va. 1

Gonorrhea: Nev. 66

TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING OCTOBER 26, 1974

Week No.

43

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

Area	All Causes					Pneumonia and Influenza All Ages	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	707	436	174	37	34	31	SOUTH ATLANTIC	1,292	769	347	83	39	37
Boston, Mass.	245	136	63	13	16	10	Atlanta, Ga.	150	87	39	13	7	5
Bridgeport, Conn.	34	18	11	1	—	2	Baltimore, Md.	292	156	87	23	4	2
Cambridge, Mass.	32	22	9	1	—	1	Charlotte, N. C.	59	31	18	3	4	1
Fall River, Mass.	17	14	2	1	—	—	Jacksonville, Fla.	86	58	18	4	2	—
Hartford, Conn.	67	46	16	4	1	3	Miami, Fla.	122	65	43	5	6	2
Lowell, Mass.	31	22	6	1	1	—	Norfolk, Va.	42	25	11	3	—	2
Lynn, Mass.	24	14	9	1	—	1	Richmond, Va.	98	62	27	1	6	8
New Bedford, Mass.	23	14	8	—	1	1	Savannah, Ga.	32	15	12	1	—	3
New Haven, Conn.	57	32	14	4	5	3	St. Petersburg, Fla.	83	80	2	—	—	1
Providence, R. I.	48	24	16	3	5	4	Tampa, Fla.	68	46	15	4	1	3
Somerville, Mass.	8	8	—	—	—	1	Washington, D. C.	213	119	65	16	9	9
Springfield, Mass.	49	35	7	4	2	3	Wilmington, Del.	47	25	10	10	—	1
Waterbury, Conn.	34	25	7	1	1	1	EAST SOUTH CENTRAL	737	421	200	54	27	20
Worcester, Mass.	38	26	6	3	2	1	Birmingham, Ala.	132	74	37	11	1	1
MIDDLE ATLANTIC	3,116	1,923	786	183	108	104	Chattanooga, Tenn.	48	28	12	6	—	2
Albany, N. Y.	50	32	10	2	4	—	Knoxville, Tenn.	50	32	14	2	—	1
Allentown, Pa.	20	11	9	—	—	2	Louisville, Ky.	111	67	30	8	1	4
Buffalo, N. Y.	139	92	32	6	5	10	Memphis, Tenn.	180	104	44	11	10	3
Camden, N. J.	51	31	15	4	—	2	Mobile, Ala.	62	34	17	7	1	—
Elizabeth, N. J.	33	24	6	2	—	1	Montgomery, Ala.	39	25	8	2	2	4
Erie, Pa.	25	16	6	1	1	4	Nashville, Tenn.	115	57	38	7	10	5
Jersey City, N. J.	57	30	23	1	1	2	WEST SOUTH CENTRAL	1,228	636	348	102	64	35
Newark, N. J.	62	28	19	12	3	4	Austin, Tex.	55	36	11	4	1	1
New York City, N. Y.	1,441	914	348	76	47	43	Baton Rouge, La.	65	34	15	7	3	3
Paterson, N. J.	36	25	7	3	—	3	Corpus Christi, Tex.	45	24	11	2	4	1
Philadelphia, Pa.	604	341	163	46	25	7	Dallas, Tex.	203	100	69	14	6	2
Pittsburgh, Pa.	198	120	50	12	7	10	El Paso, Tex.	61	29	16	5	8	8
Reading, Pa.	50	41	7	—	—	3	Fort Worth, Tex.	82	45	23	4	5	2
Rochester, N. Y.	132	83	33	6	7	4	Houston, Tex.	245	113	76	31	10	2
Schenectady, N. Y.	22	13	3	2	2	—	Little Rock, Ark.	60	31	17	3	5	4
Scranton, Pa.	44	29	11	4	—	3	New Orleans, La.	130	79	29	10	8	2
Syracuse, N. Y.	77	50	17	4	4	2	San Antonio, Tex.	152	79	40	13	7	2
Trenton, N. J.	31	19	9	—	2	1	Shreveport, La.	63	31	24	1	2	6
Utica, N. Y.	13	9	4	—	—	2	Tulsa, Okla.	67	35	17	8	5	2
Yonkers, N. Y.	31	15	14	2	—	1	MOUNTAIN	507	286	129	42	18	19
EAST NORTH CENTRAL	2,504	1,419	723	159	105	67	Albuquerque, N. Mex.	47	23	15	5	1	1
Akron, Ohio	58	36	13	3	4	—	Colorado Springs, Colo.	34	23	6	1	1	7
Canton, Ohio	39	24	10	4	—	1	Denver, Colo.	120	72	33	10	1	5
Chicago, Ill.	714	379	219	54	35	14	Las Vegas, Nev.	22	9	7	2	2	—
Cincinnati, Ohio	153	85	50	10	5	2	Ogden, Utah	21	9	6	1	3	1
Cleveland, Ohio	206	103	70	19	5	4	Phoenix, Ariz.	120	71	29	10	3	2
Columbus, Ohio	132	76	36	5	5	6	Pueblo, Colo.	14	8	5	1	—	2
Dayton, Ohio	117	79	27	6	2	2	Salt Lake City, Utah	54	24	17	3	5	—
Detroit, Mich.	310	158	101	24	10	4	Tucson, Ariz.	75	47	11	9	2	1
Evansville, Ind.	47	38	7	1	1	4	PACIFIC	1,761	1,082	464	115	39	51
Fort Wayne, Ind.	40	23	10	—	5	5	Berkeley, Calif.	20	14	6	—	—	—
Gary, Ind.	38	19	13	2	3	3	Fresno, Calif.	73	43	24	2	1	—
Grand Rapids, Mich.	59	37	15	3	2	2	Glendale, Calif.	27	18	3	1	1	—
Indianapolis, Ind.	142	81	38	9	10	1	Honolulu, Hawaii	37	19	9	3	5	1
Madison, Wis.	32	16	12	—	—	3	Long Beach, Calif.	92	52	28	5	1	1
Milwaukee, Wis.	133	88	33	3	4	5	Los Angeles, Calif.	617	388	148	42	14	14
Peoria, Ill.	34	22	5	3	3	2	Oakland, Calif.	83	51	23	7	2	2
Rockford, Ill.	43	25	11	2	2	5	Pasadena, Calif.	35	22	9	1	3	—
South Bend, Ind.	46	28	13	2	2	3	Portland, Ore.	128	86	32	6	1	5
Toledo, Ohio	95	67	17	5	4	1	Sacramento, Calif.	50	33	13	1	3	—
Youngstown, Ohio	66	35	23	4	3	—	San Diego, Calif.	137	76	40	13	2	5
WEST NORTHCENTRAL	781	489	197	43	25	20	San Francisco, Calif.	192	114	52	21	3	7
Des Moines, Iowa	74	43	19	6	2	—	San Jose, Calif.	42	28	7	4	—	1
Duluth, Minn.	23	17	4	1	—	3	Seattle, Wash.	128	73	43	6	—	3
Kansas City, Kans.	36	20	12	2	1	—	Spokane, Wash.	53	36	12	2	2	5
Kansas City, Mo.	127	84	31	3	3	1	Tacoma, Wash.	47	29	15	1	1	3
Lincoln, Nebr.	17	7	7	2	—	—	Total	12,633	7,461	3,368	818	459	384
Minneapolis, Minn.	108	72	22	5	4	1	Expected Number	12,028	7,129	3,212	810	408	387
Omaha, Nebr.	90	57	23	9	—	1							
St. Louis, Mo.	192	113	49	12	11	7							
St. Paul, Minn.	61	40	15	1	4	1							
Wichita, Kans.	53	36	15	2	—	6							

†Delayed reports for week ending Oct. 19, 1974

CURRENT TRENDS  
PRIMARY AND SECONDARY SYPHILIS –  
United States, August 1974 (Provisional Data)

In August 1974, reported cases of primary and secondary syphilis numbered 2,304, up 3.4% from the number reported in August 1973 (provisional data). During the first 8 months of calendar year 1974, cases numbered 16,833, representing a small increase (0.8%) over the number reported in the same time period in the previous year. Despite these

increases, prospects for achieving a level or decreasing incidence of primary and secondary syphilis during calendar year 1974 and Fiscal Year 1975 remain good.

(Reported by the Venereal Disease Control Division, Bureau of State Services, CDC.)

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas August 1974 and August 1973 – Provisional Data

Reporting Area	August		Calendar Year Cumulative January – August		Reporting Area	August		Calendar Year Cumulative January – August	
	1974	1973	1974	1973		1974	1973	1974	1973
Connecticut	18	11	126	172	Arkansas	6	9	71	101
Maine	4	6	23	20	Louisiana	33	59	423	548
Massachusetts	46	68	430	527	New Mexico	5	14	55	55
New Hampshire	0	1	7	6	Oklahoma	5	15	85	119
Rhode Island	1	0	9	13	Texas	130	131	911	1,026
Vermont	0	0	1	13	DHEW REGION VI TOTAL	179	228	1,545	1,849
DHEW REGION I TOTAL	69	86	596	751	Iowa	1	4	26	34
New Jersey	74	86	589	683	Kansas	9	0	46	14
New York (Excluding NYC)	34	38	345	271	Missouri	47	11	283	79
New York City	288	268	2,084	2,312	Nebraska	1	4	9	9
DHEW REGION II TOTAL	396	392	3,018	3,266	DHEW REGION VII TOTAL	58	19	364	136
Delaware	10	7	55	66	Colorado	9	23	87	144
District of Columbia	53	74	429	525	Montana	0	1	2	2
Maryland (Excluding Baltimore)	25	32	169	176	North Dakota	0	0	4	1
Baltimore	55	64	334	409	South Dakota	0	1	2	4
Pennsylvania (Excluding Philadelphia)	31	36	150	180	Utah	0	3	8	11
Philadelphia	62	46	457	329	Wyoming	0	0	2	3
Virginia	75	71	542	499	DHEW REGION VIII TOTAL	9	28	105	165
West Virginia	3	2	12	13	Arizona	31	13	168	110
DHEW REGION III TOTAL	314	332	2,148	2,197	California (Excluding LA and SF)	121	91	784	787
Alabama	23	23	154	124	Los Angeles*	159	136	1,265	1,222
Florida	295	227	1,873	1,287	San Francisco*	83	61	565	380
Georgia (Excluding Atlanta)	48	73	460	535	Hawaii	0	1	22	38
Atlanta*	55	51	320	382	Nevada	7	2	43	45
Kentucky	21	29	193	247	DHEW REGION IX TOTAL	401	304	2,847	2,582
Mississippi	24	24	163	238	Alaska	1	1	3	10
North Carolina	87	44	629	413	Idaho	2	2	9	9
South Carolina	62	98	475	480	Oregon	12	2	63	32
Tennessee	50	37	330	285	Washington	12	12	81	102
DHEW REGION IV TOTAL	665	606	4,597	3,991	DHEW REGION X TOTAL	27	17	156	153
Illinois (Excluding Chicago)	18	27	172	131	UNITED STATES TOTAL	2,304	2,228	16,833	16,701
Chicago*	72	84	560	631	Puerto Rico	76	63	596	513
Indiana (Excluding Indianapolis)	14	11	87	140	Virgin Islands	0	3	21	21
Indianapolis*	1	11	34	57					
Michigan	32	44	283	337					
Minnesota	7	10	56	72					
Ohio	32	20	191	186					
Wisconsin	10	9	74	57					
DHEW REGION V TOTAL	186	216	1,457	1,611					

Note: Cumulative totals include revised and delayed reports through previous months.  
Source: HSM 9.98 CDC, VD branch, Atlanta, Ga. 30333

\*County Data

EPIDEMIOLOGIC NOTES AND REPORTS  
PROBABLE CHIMPANZEE-ASSOCIATED HEPATITIS A – New Jersey

In January 1974 the Hunterdon County (N.J.) Health Department received reports of 9 cases of hepatitis from 2 small, adjacent towns, Whitehouse and Readington. In contrast, the total number of cases reported for the whole county in 1973 was 6, and no more than 2 cases had occurred in any 1 month. The temporal and spatial clustering of cases suggested a common source outbreak, and an investigation was conducted by county and state health department officials.

Eight of the 9 cases were in members of 2 families and their friends. The remaining case, whose onset date was earlier than the others, had no contact with them and was not considered to be part of the outbreak. This case was excluded from further analyses.

The age, sex, residence, onset date, and results of immunoelectrophoresis tests for the hepatitis B surface antigen (HB<sub>s</sub>Ag) are shown in Table 3. Six cases were in females, 2 in males, and all were HB<sub>s</sub>Ag-negative. Cases 1 and 2 are Case 3's children, Cases 4 and 5 are Case 6's children, and Cases 7 and 8 are friends of Cases 1 and 2.

Epidemiologic investigation revealed that the mother of Cases 1 and 2 worked part-time for an animal trainer in northern New Jersey. During the 2 weeks before Christmas, she took 3 chimpanzees home to housebreak them. Cases 4, 5, and 6 visited the house several times during this period and ate at least 1 meal there. Cases 7 and 8, who lived nearby, also visited during this period. No common exposure to any



## HEPATITIS - Continued

Table 3  
Chimpanzee-Associated Hepatitis Cases  
Hunterdon County, New Jersey  
January 1974

Case No.	Age	Sex	Date of Onset	Residence	HB <sub>s</sub> Ag Test
1	14	F	1/12/74	Whitehouse	(-)
2	12	F	1/16/74	Whitehouse	(-)
3	34	M	1/13/74	Whitehouse	(-)
4	12	M	1/13/74	Readington	(-)
5	12	F	1/16/74	Readington	(-)
6	45	F	1/12/74	Readington	(-)
7	12	F	1/11/74	Somerville	(-)
8	11	F	1/15/74	Whitehouse	(-)

other source, such as water, food, schools, or restaurants, could be documented.

The chimps had recently been captured in South Africa and shipped first to New York, then to New Jersey. After they had been housebroken, they were sent to a circus in South America. While in New Jersey, they had no evidence of disease.

Gamma globulin was administered to contacts of the patients, and no secondary cases occurred.

(Reported by James Kovacs, Public Health Coordinator, Hunterdon County Health Department; Paul Marzinski, Principal Field Representative, and Ronald Altman, M.D.,

Director, Epidemiologic Services, New Jersey Department of Health, and an EIS Officer.)

## Editorial Note

Subhuman primate-associated viral hepatitis cases continue to occur. As in the situation described above, the majority of cases have been associated with newly imported young chimpanzees, and most incriminated animals have not had recognized clinical illness. Tests for the hepatitis-B surface antigen (HB<sub>s</sub>Ag) have been uniformly negative in persons affected (1, 2).

Efforts are currently underway at CDC to assess the epidemiologic aspects and magnitude of this problem. In the meantime, logical recommendations for preventing or minimizing cases of subhuman primate-associated disease should include:

(1) Maintaining scrupulous personal hygiene and wearing protective clothing when in contact with newly imported young subhuman primates and their excreta,

(2) Holding to a minimum the number of persons having contact with recently imported animals, and

(3) Discriminately using prophylactic immune serum globulin (ISG) for those persons who, of necessity, continually handle possibly infected animals and, therefore, are at continued risk of acquiring this disease.

## References

1. Center for Disease Control: Hepatitis Surveillance Rep No. 34, September 1971
2. Center for Disease Control: Hepatitis Surveillance Rep No. 36, September 1973

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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.

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.

Address all correspondence to: Center for Disease Control  
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