

U.S. DEPARTMENT OF HEALTH. EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE WHEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION DATE OF RELEASE: APRIL 23, 1971 - ATLANTA, GEORGIA 30333

## **EPIDEMIOLOGIC NOTES AND REPORTS** HUMAN RABIES – California

On Jan. 15, 1971, a 6-year-old boy from the Bay area near San Francisco, California, was visiting relatives in Jalisco State, Mexico, when he was bitten on the left cheek by a sick dog. The dog died 3 days later of unknown causes and was not examined for rabies. No antirabies treatment was given, and the boy subsequently returned to California.

The patient was well until March 27 (71 days after having been bitten), when he experienced a temperature of 105° F., malaise, and anorexia. Two days later, he was admitted to a hospital in Oakland with fever, hallucinations, delirium, wheezing, and hyperventilation. At that time, no mention of the dog bite was made. On the fourth day after the onset of his illness, the patient showed symptoms of hydro-

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phobia (facial grimacing and spitting on oral contact with water), and a clinical diagnosis of rabies was considered. On the fifth day, focal seizures prompted initiation of diphenylhydantion therapy, and on the following day, he became semicomatose with fluctuating periods of responsiveness. A tracheostomy was performed for hypoxia; apnea developed 3 days later.

(Continued on page 136)

	15th WE	EK ENDED		CUMULAT	IVE, FIR	ST 15 WEEF	
DISEASE CEU	y 雪調 7.1	April 18, 1970	MEDIAN 1966 - 1970	1971	1970	MEDIAN 1966 - 197	
ptic meningitis	1971	23 11 -	31 4 -	726 37 59	399 52 94	423 52 41	
thropod-borne & unspecified	24	30 7	30 7	315 91	301 116	301 130	
atitis, serum	30333 64	162 1,018 82	78 850 43	2,417 18,124 1,130	1,947 16,244 1,001	1,104 12,532 665	
sles (rubeola)	3,673 82 76	1,778 80 60	1,778 80 63	33,323 1,006 859	18,480 1,043 931	18,480 1,150 1,039	
litary	6 4,130	20 3,892	8	147 55,060	112 40,395	112	
iomyelitis, totalaralytic	1,874	2.746	1 2,155	3 19,294	2 24,436	4	
anus	1	2,110	4 2	20 26	24 30	30 31	
boold feverbus, tick-borne (Rky. Mt. spotted fever) - bies in animals	7 2 109	3 1 68	4	72 7 1,321	64 3 1,081	66 4 1,153	

#### CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES TABLEI

tradition intervention in the number and particulation and p	Cum.	where we are straight to be a straight the second	Cum.
Anthrax: Botulism: Leprosy: Ill1, Tex2 Leptospirosis: La1 Plague:	36 9	Psittacosis: Calif1. Rabies in Man: Calif1 Rubella congenital syndrome: Calif3, Fla1 Trichinosis: Alaska-1 Typhus, murine:	24 27

### RABIES - California (Continued from front page)

Indirect fluorescent rabies antibody (IFRA) tests on the patient's sera performed by the California Viral and Rickettsial Diseases Laboratory have demonstrated a rising rabies (IFRA) antibody titer (April 2, titer 0; April 12, 1:4096). (Reported by Dillip Bhatt, M.D., Fellow, Robert Gerdsen, M.D., attending physician, Edward Duffie, M.D., Chief of Staff, Children's Hospital, Oakland, California; Harald Johnson, M.D., Richard Emmons, M.D., California State Viral and Rickettsial Diseases Laboratory, James Chin, M.D., Chief, Bureau of Communicable Disease Control, California Department of Public Health; and an EIS Officer.)

#### **Editorial Note**

While no specific antirabies treatment is known to be effective once clinical symptoms have appeared, the management of a recent case in Ohio (MMWR, Vol. 19, No. 50) indicates that recovery is possible. Following the example set in that case, the patient is receiving aggressive clinical support, with particular attention directed to pulmonary care, cardiovascular and neurologic monitoring, fluid balance, and physical therapy.

This is the second reported case of human rabies in California within 2 years (MMWR, Vol. 18, No. 18).

#### SALMONELLOSIS – Washington

On Dec. 28, 1970, a 17-month-old girl from Seattle, Washington, had onset of vomiting, bloody diarrhea, and a temperature of 105° F. which lasted for 1 week. Stool specimens were submitted to the Seattle-King County Health Department Laboratory, and Salmonella typhi-murium was isolated from the patient's stool, but not from those of three asymptomatic family members.

Epidemiologic investigations revealed that the family had purchased a parakeet from a local pet store on December 24 as a Christmas present. The bird had experienced diarrhea and died within a week. The baby had had no direct contact with the parakeet, but had crawled on the floor under the bird's cage. Household dust found in a vacuum cleaner bag 3 weeks after onset of the baby's illness was cultured and yielded *S. typhi-murium*. Two weeks later, the mother found old newspapers in the basement containing droppings from the parakeet; viable salmonellae were also cultured from these droppings.

S. typhi-murium isolated from the child's stool, household dust, and bird droppings were examined at the CDC laboratory and were all untypable by phage.

(Reported by Herbert W. Anderson, B.S., R.S., Environmental Epidemiologist, Donald R. Peterson, M.D., Director of Epidemiology, Seattle-King County Department of Public Health, Washington, and the Laboratory Division, CDC.) Editorial Note

This is the sixth reported case of parakeet-associated salmonellosis since 1961.

#### **INFECTIOUS HEPATITIS – Kentucky**

Between June 1970 and April 1971, 118 cases of infectious hepatitis occurred in Barren County, Kentucky, population 29,000. The greatest number of cases occurred in January 1971 (Figure 1). A total of 87 cases (73.7 percent) occurred in Glasgow, the county seat, and the rest occurred in rural areas. The majority of cases (84 cases; 71.2 percent) were in grade-school children, and the median age was 7 years. The highest attack rates were in children 5 to 9 years of age (Table 1); the male:female ratio was almost 1:1 (60/58).

The first case occurred on June 23 in a 6-year-old boy who lived on a farm northwest of Glasgow. The farm is supplied by well-water and has outdoor toilets. The exact source of the child's infection could not be found. Symptoms of infectious hepatitis developed in the mother and father of the index case on July 24 and August 17, respectively. They had baby-sat several times in the summer for families in a poverty area on the west side of Glasgow.

In Glasgow, most cases of hepatitis occurred in children at two elementary schools: School A and School B. At School A, which is on the west side of Glasgow, the first case occurred in a 7-year-old boy on September 26. This boy had had frequent contact with the mother of the index case, and he also had repeated exposure to seven schoolmates who later developed hepatitis. A total of 25 subsequent cases occurred in School A children and their families, and all these

Table 1 Hepatitis Attack Rates, by Age Group – Barren County, Kentucky, June 1970–April 1971

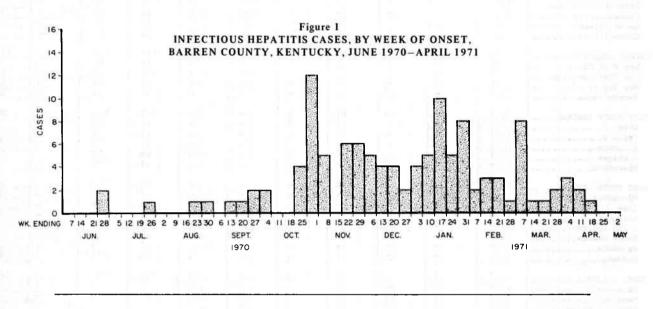
Age Group	Number of Cases	Population	Attack Rate (Cases/1,000)
< 1	0	600	0
1-4	4	2,350	1.7
5 - 9	63	2,900	21.7
10-14	24	2,900	8.3
15 - 24	10	3,950	2.5
25 - 34	6	3,600	1.7
35 - 44	6	3,750	1.6
45 - 54	3	3,600	0.8
55 - 64	1	2,750	0.4
65-74	0	2,100	0
> 75	1	1,200	0.8
Total	118	29,700	4.0

cases except one could be traced directly or indirectly to contact with the 7-year-old boy.

At School B, the first case occurred on September 21 in a 9-year-old girl. The source of her infection could not be determined. She had contact with five children in her school who later contracted hepatitis. All 34 subsequent cases in School B children and their family members could be traced to exposure to the 9-year-old girl. Epidemiologic investigation revealed that nearly all homes in Glasgow and many in the county are supplied by a unified municipal water supply. The distribution of hepatitis cases in this outbreak, however, did not parallel the distribution of city water. Furthermore, multiple coliform counts of the municipal water in 1970 and 1971 were negative. Further investigation showed that approximately 75 percent of the families and all the schools in Barren County receive milk from one dairy, but there was no connection between milk supply and distribution of cases. A total of 108 patients (91.5 percent) were interviewed; none gave a common food or restaurant history. No common exposure to toxins, drugs, needles, shellfish, or pets was documented.

In this outbreak, hepatitis appears to have been spread by person-to-person contact. Person-to-person exposure could be documented in 49 (45.4 percent) of the 108 cases interviewed and could be presumed in an additional 44 (40.8 percent) of the cases.

(Reported by Mrs. Molly Carman, R.N., Administrative Assistant, Barren County Health Department; Mr. Wallace B. Guerrant, Field Investigator, and Calixto Hernandez, M.D., Director, Division of Epidemiology, Kentucky State Department of Health; and a team of EIS Officers.)



## INTERNATIONAL NOTES SALMONELLOSIS – United Kingdom

Salmonellosis, usually a food-borne infection, may, when introduced into a hospital ward, spread by a variety of other means, and become a serious and sometimes intractable problem. This is illustrated by two recently reported outbreaks, one in an orthopedic unit and one in a maternity unit.

The orthopedic unit consisted of a female ward with 10 beds and a male ward with 12 beds, separated by a corridor, but sharing the same nursing and domestic staff. Salmonella panama was first isolated from the stool of a female patient with diarrhea. About 1 month earlier, a male patient, who had then been in the ward for a week, developed diarrhea which lasted for 1 week. No pathogen was isolated from any of his stool specimens, and the symptom was thought to be due to antibiotic therapy. This patient was incontinent of feces and difficult to nurse; he disturbed other patients and so had had several temporary residences at night, including the female side-ward, before being permanently accommodated in the male side-ward. He was considered to have been the principal disseminator of infection in this outbreak, since swabs of the floor, window-ledge, and curtains around his original ward bed yielded heavy growths of S. panama. The organism was also isolated from several other sites in both wards, the sluice and cleaning equipment, the kitchen sink drain, a washing-up mop, and the outside of a tin of biscuits.

Stool specimens from all patients and staff members on the ward were examined, and another six cases and 10 asymptomatic carriers were found. In addition, inquiries revealed that a patient who had been discharged about the time that the first male patient had become ill, was admitted 2 days later to an infectious diseases hospital with diarrhea due to *S. panama*. Examination of stool specimens from patients in other wards yielded *S. panama* from a child in the pediatric ward with diarrhea of recent onset and from an asymptomatic carrier in a surgical ward. All other hospital staff were examined, and five were found to be infected. Two elderly female orthopedic patients died; salmonella septicemia was reported as the cause of death in one patient and as a contributory cause in another.

The original source of infection was not detected, but the incident shows how widely salmonellae may become disseminated when an infected patient with diarrhea is not isolated. There is also the need for caution in interpreting a negative bacteriological report on a specimen from a patient receiving or recently given antibiotic therapy.

In the second outbreak, *S. panama* was first isolated from an 8-day-old baby with loose stools in the premature baby unit of a general hospital. Two more cases in 4 and 5-*(Continued on page 142)* 

## FOR WEEKS ENDED APRIL 17, 1971 AND APRIL 18, 1970 (15th WEEK)

AREA	ASEPTIC	BRUCEL- LOSIS	DIPH- THERIA	El	CEPHALITI	S		HEPATITIS	MALARIA		
	MENIN- GITIS				Including cases	Post In- fectious	Serum	Infectious		MALA	(IA
	1971	1971	1971	1971	1970	1971	1971	1971	1970	1971	Cum. 1971
UNITED STATES	38	6	2	24	30	5	145	1,273	1,018	64	1,130
NEW ENGLAND	1				1	_ i	6	76	77	3	40
Maine		19-010 <b>-</b> 7				_	_	7	ŕ ,		2
New Hampshire	-				-	100.00		8	8	and diel	TH T 1
Vermont	1	-	-	-	-	-		6	2	-	1
Massachusetts	-	_	_	-	1	-	1	30	32	3	29
Rhode Island Connecticut	$\sim$	-	Ξ.	- 2	- E		1 4	11	15 13	_	3 4
MIDDLE ATLANTIC	15	1711-1-1		4	5	· · · · ·	65	231	152	5	110
New York City	4	-	_	3	-	-	16	34	27	1	11
New York, Up-State	1	-	-		1	-	13	68	33		24
New Jersey	8 2	-	-	1	4		30	58	54	3	52
Pennsylvania	2	-	-	-	-	-	6	71	38	1	23
EAST NORTH CENTRAL	4		=	10 3	9 3		15	192	150	3	50
Ohio Indiana	1	1.1.2	_	3	-		5	45	50 14	1	12
Indiana	2	-		3	1		_	40	22	1	3 11
Michigan.	1	- 1		3	5		10	89	54	1	17
Wisconsin	-	-	-	-		-	-	7	10		7
WEST NORTH CENTRAL	-	- 1 C		3	- 1	-	2	44	59	3	88
Minnesota	- I	5. E	-				-	5	12	_	11
Iowa	100				-	-	-	2	8	-	9
Missouri			1.1	1	-	_	C . 2	6	18	-	18
North Dakota South Dakota		_	_				_	_	2		1
Nebraska.		-	-	-	_	_	-	7	2		6
Kansas	-	-	-	2	-	-	2	23	16	3	44
SOUTH ATLANTIC	7	1	- 1	2	8	2	10	161	114	5	165
Delaware	-	-	-		- 1	_	-	6	3	1	1
Maryland		_	-		-	-		23	8		26
Dist. of Columbia	2	-	-	-	-		-	-	-	-	
Virginia	2	-	_	2	-	-	2	26	17	3	22
West Virginia.	1	-	[	ON UN U	2	1991 - E	2	5 10	11	-	6 51
South Carolina.	_	1	reactions - d	in ter '- t	1			8	7	<u>'</u>	8
Georgia	- 1			_	1		_	26	9	- E.	29
Florida	4	-	-	3 · T -	5	2	8	57	47	-	22
EAST SOUTH CENTRAL	4	1.1. m. <del>.</del>	-	-	1	-	3	71	93	6	102
Kentucky			-	-	-	-	-	20	29	6	86
Tennessee	2		-	-		C 1 1	1	34	37	-	-
Alabama Mississippi	-	일이한 특히	-	-	1		2	12 5	22 5	1	14
and many second second second second	2	2	2	1	(4)	1	3				
WEST SOUTH CENTRAL		-	-	-	_	-	-	157	86	22	280
Louisiana.	-	-	1	1			2	31	7	6	29
Oklahoma		1	-	-	-			21	16	1	38
Texas	2	1	1	-		= 1 × 1 ×	1	101	63	15	204
VOIDINATI	1			1		1	5	84	50		
MOUNTAIN	101	1.1	1000	1	이 아이들이	1.1.1	5	84	50 3	3	74
Idaho.	-		-	i i i i i i i i i i i i i i i i i i i	Star Date	1	20.000	8	3	-	2
Wyoming.	-		F.S.		1.5	-	-		1	-	ĩ
Colorado	-	-	-	-	-	-	2	15	18	3	54
New Mexico	-	- E		_		-	-	25	1		5
Arizona	_		1000	-		0.005		11	14	T1 0 8-	7
Utah. Nevada	-		-	-	27.27	I -	3	14	10		3
	4	3	_	3	6		36			a desident of	
PACIFIC	-	1			6 _	1	36	257	237	14	221
Washington Oregon	-	-		-				40	18		1 6
California	4	2	-	3	6	1	36	173	198	14	189
Alaska	-	· ·	-	-			-	2	2	-	2
	-	-	-		the second second		-	11	2	_	23
Hawaii.											

\*Delayed reports: Aseptic meningitis: Pa. delete 2 Hepatitis, infectious: N.H. 1, N.J. delete 1 (1970)

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

## FOR WEEKS ENDED

APRIL 17, 1971 AND APRIL 18, 1970 (15th WEEK) - CONTINUED

AREA	MEAS	SLES (Rubed	ola)	MENING	COCCAL INF TOTAL	ECHIONS,	MUM	IPS	POLIOMYELITIS			
		Cumula	tive		Cumul	ative		Cum.	Total	Para	Lytic Cum.	
	1971	1971	1970	1971	1971	1970	1971	1971	1971	1971	1971	
UNITED STATES	3,673	33,323	18,480	82	1,006	1,043	4,130	55,060		-	3	
EW ENGLAND	199	1,259	271	5	43	38	127	3,257	-	-	-	
Maine.*	12	589	5	-	5	-	5	584				
New Hampshire	30	88	14	-	4	3	4	349			-	
Vermont	6	57	1	_	-	3	-	- <u></u>		_	-	
Massachusetts	15	204	203	2	18	14	37	823	- 122	and the second	-	
Rhode Island	8	31	14		2	3	24	776	- 155		-	
Connecticut	128	290	34	3	14	15	57	725		1.5	-	
IDDLE ATLANTIC	374 197	3,431	2,624	15	128	178	187	3,754		Table	-	
New York City	18	2,059 255	438	8	24	45	63	688		-	-	
New York, Up-State	47	353	1,058	5	34	34	NN	NN 1 075	-	1.1.1.1	-	
New Jersey Pennsylvania	112	764	1,021	2	36	64 35	45	1,075	2.5		- <u>-</u>	
	748	6,577	4,018	3	107	110	1 021				1000	
CAST NORTH CENTRAL	217	2,180	1,488	1	107	118	1,821	22,662	-	100000000	1.0	
Ohio	197	2,180	161	·	28	54	837	4,489	-	-	-	
Indiana.	77	1,601	1,630	- 2	34	11	204	3,101	-	-		
Illinois	89	570	404	2	30	22	203	2,400	-		1.4	
Michigan	168	1,246	335	<u>_</u>	7	4	533	5,339	- 200			
Annual Contraction of the Contra						1						
EST NORTH CENTRAL	443	2,888	1,876	7	92	54	340	3,613	-	-	-	
Minnesota. *	250	44	24	-	13	6	68	629		-	-	
Iowa	250	865	61		6	7	211	1,947	- 1-12		-	
Missouri	55	1,050	626	1	34	37	8	523	-	- <b>-</b>	-	
North Dakota	19	116	194		2	2	14	200	-		-	
South Dakota	7	167	64 867	2	5	-	5	144	-	1.1.1	-	
Nebraska Kansas	112	17 629	40	1 3	11 21	2	13 21	53 117	-		<u>-</u>	
OUTH ATLANTIC	254	3,517	3,259	19	157	236	282	3,798	- 1	_	1	
Delaware	1	14	170	1	1	3	6	71	1.1	-	-	
Maryland	2	51	684	1	24	24	10	338	- 1 <b>-</b> 121		· · · · · ·	
Dist. of Columbia		4	303	-	7	1	-	55		1	-	
Virginia	23	797	776	-	15	20	14	466	-	-	1 1 1 - I	
West Virginia	23	229	113		2	5	44	1,063	-	-	-	
North Carolina	63	1,192	319	1	22	49	NN	NN	-	-	-	
South Carolina	36	419	263	3	14	18	22	505	- 11	-	-	
Georgia Florida	24 82	158 653	4 627	13	11 61	26 90	186	1,299	1214		1	
AST SOUTH CENTRAL	444	4,640	313	10	80	83	359	4,398	_		_	
Kentucky	159	2,272	177	5	23	28	120	1,617	1.12	ALCONG NO	12012	
Tennessee	39	360	93	5	28	33	201	2,185	- E -		=	
Alabama	42	734	24	<u> </u>	18	17	33	520	- <u></u>	A REAL PROPERTY.		
Mississippi	204	1,274	19	-	11	5	5	76	-		-	
EST SOUTH CENTRAL	830	7,810	4,445	11	92	154	458	4,211	-	_	1	
Arkansas	36	248	19		3	15	1	36			0.24	
Louisiana	225	1,119	46	5	30	38	30	89	-	_ CPU	-	
Oklahoma.	5	592	173	-	6	10	3	123	-	I HERE	-	
Texas	564	5,851	4,207	6	53	91	424	3,963	-	-	1	
OUNTAIN	202	1,585	786	2	28	17	105	2,263	-	-	-	
Montana.	99	594	14	1	2	1	9	261	-	1.1.1		
Idaho	9	153	5		2	3	1	98	-		-	
Wyoming	16	43	-	-		1	2	99	-	-	145	
Colorado.	46	413	82	-	4	5	18	736	<u>1</u>		-	
New Mexico	11	179	95		2		28	366	-	-	-	
Arizona	12	134	580		8	6	40	619	-	-	-	
Utah Nevada	9	66 3	6	1	9	2	7	84	-	-	_	
	1.1	1500	8.6				-		Tel Pr		1.14	
ACIFIC	179	1,616	888	10	279	165	451	7,104			1	
washington.	72	448	74	1	13	19	143	3,350	-	1.00	-	
Oregon,	10	147	120	3	18	15	55	701			1	
California.	90	973	647	6	245	130	210	2,601		-	-	
Alaska.	-	8	2		-		4	56	-	-	-	
nawa11	7	40	45	2 I I.	3	1	39	396	12000	-		
uerto Rico	16	105 5	640			2	50	421		T	-	

layed reports: Measles: Me. 1, Minn. 8 Mumps: Me. 1

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

## FOR WEEKS ENDED

APRIL 17, 1971 AND APRIL 18, 1970 (15th WEEK) - CONTINUED

AREA	RUBEI	LA	TETA	NUS	TULAR	EMIA		TYPHOID FEVER		FEVER BORNE Spotted)	RABIE	
	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971
UNITED STATES	1,874	19,294	1	20	1.00	26	7	72	2	7	109	1,321
NEW ENGLAND	71	713		_	_	_	1	4	_		5	99
Maine*	4	139	_		-	-	-	_	- 1	- 1	4	92
New Hampshire	1	10	-	-		-	- 1	-	-		1	1
Vermont Massachusetts	10	40	-	-	-		- 7 I		-			6
Rhode Island	33	345	1.1		-		1	4	- 1			1
Connecticut	15	133	-	-	-	_	-	-	-	<b>P</b> -1	- 1	
MIDDLE ATLANTIC	146	1,256		4	_	_	1	7	- 1	1	2	67
New York City	25	190	-	4		-	-	3	-		-	
New York, Up-State New Jersey	5	242	1.71.1	-	-	-	1	3	-		1	65
Pennsylvania	81 35	261 563		_	Ξ.		• • <u>-</u> -	- 1	100	1	1	2
EAST NORTH CENTRAL	374	4,012		2		1	15.1	4	1 T_		10	97
Ohio	21	457		1		1	- E -	3			2	28
Indiana	76	741		1				-	-	-	4	- 12
Illinois	93 110	795	-	_	-		1.1	1			2 2	21 20
Michigan	74	1,311 708	-	_	-		1	<u>'</u>	-	-	-	16
WEST NORTH CENTRAL	70	1,737	1.1	1	_	4	_		_		25	310
Minnesota	2	188		1	-			- III	- 1	-	3	56
Iowa	19	376	-	-		i - I		- 1	-	- 1	7	84
Missouri	8	884	-			4	-	-		-	4	59
North Dakota. South Dakota *	22 1	59 27	1		_		-	_	1 2		4	58 23
Nebraska	1	33	_		_	_	_	_	-		1.1	
Kansas	17	170		-	-	-		-	-	-	7	30
SOUTH ATLANTIC	224	1,359	_	7	_	12	4	19	2	3	9	143
Delaware	13	24	- 1		-		-	1		-	-	
Maryland	4	70 2	_		_	3		3	1 - 1	-		
Dist. of Columbia Virginia	13	107	_		_	5	_	1		_	2	40
West Virginia	55	214	-	- 1	-		1	2	- T		2	60
North Carolina	-	14	-	-	-	4	1	3		1	-	
South Carolina	62	317		2	_			2	2	2	4	25
Georgia Florida	77	611	12.0	5	=	=	2	7		_	1	18
EAST SOUTH CENTRAL	117	1,585	1	4	_	6	_	6	141	2	16	151
Kentucky.	57	716	1	-		2		2			6	82
Tennessee	41	729		1	-	2	-	2	-	1	9	43
Alabama	13	88	1	2		2	-	2	-		1	26
Mississippi	6	52	- T - 2	1	-	-		_	_			
WEST SOUTH CENTRAL	347	2,925	0 - 0	-	-	1	-	5		1	29	322
Arkansas. Louisiana	12 97	259 191	3			1		3	1 - 1		2	29 13
Oklahoma.		38	120	i	_				_	1	16	166
Texas	238	2,437	-	-			_	2	-	-	8	114
MOUNTAIN	33	1,115	1 - 1	- 1		2	-	2		-	-	4
Montana.	2	92			-	1	-	-	-	-	-	- A.
Idaho	3	29			-		_	1 1	1 1 2			
Colorado.	15	553 140	1. 2. 1	1 2		_						- C -
New Mexico	-	129	4.5	-	-	_		-				2
Arizona	11	136	-		-			2	-	, di <b>-</b> 17	-	2
Utah Nevada	1	26 10	1.1.3	1	1	1		-			I	-
+- 1. · · · · · · · · · · · · · · · · · ·	492	1.15	6					25	201		13	128
PACIFIC	492	4,592 749	1 I I	2	1	1 1	1	25	10		13	120
Oregon	50	354		-	-		-	-	-			5.761
California	369	3,385		2	-		1	25			12	100
Alaska. Hawaii	- 1	30					-		1 2		1	28
Puerto Rico*	3	4	_	2		_		- 1	-	- 1	2	22
Virgin Islands	2	4	an En T	4	- E -				1		-	

\* Delayed reports: Rubella: Me. 1 Tetanus: P.R. 1 (1971) 1 (1970) Rabies in animals: S. Dak. 23

## TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED APRIL 17, 1971

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

	All Causes		Provide the day			All Ca			Undor	
4000			Pneumonia and	Under 1 year	the permittee of the		1999	Pneumonia and	Under 1 year	
Area	All Ages	65 years and over	Influenza All Ages	All Causes	Area	All Ages	65 years and over	Influenza All Ages		
NEW ENGLAND:	741	474	53	28	SOUTH ATLANTIC:	1,174	620	44	47	
Boston, Mass	242	151	16	7	Atlanta, Ga	156	81	4	7	
Bridgeport, Conn	38	25	6	2	Baltimore, Md	239	109	5	j j	
Cambridge, Mass	27	18	5	-	Charlotte, N. C	45	14	-	7	
Fall River, Mass	29	21	1	-	Jacksonville, Fla	78	40	9	-	
Hartford, Conn	75	41	3	6	Miami, Fla	121	63	2	2	
Lowell, Mass	40	26	5	3	Norfolk, Va	53	30	3	2	
Lynn, Mass	13	9	-	1	Richmond, Va	69	39	2	3	
New Bedford, Mass	34	27	-	1	Savannah, Ga	42	17	2	5	
New Haven, Conn	46	29	-	1	St. Petersburg, Fla	99	86	5	2	
Providence, R. I Somerville, Mass	56 13	32	3	2	Tampa, Fla	86	47	3	5	
Springfield, Mass	40		1	<u>-</u>	Wilmington, Del	145	74	8	3	
Waterbury, Conn	25	20	-	1	willmingcon, belt	41	20	1	2	
Worcester, Mass	63		9	4	EAST SOUTH CENTRAL:	747	398	31	43	
A property of the second se					Birmingham, Ala	95	47	3	8	
MIDDLE ATLANTIC:	3,445	2,092	163	115	Chattanooga, Tenn	62	33	3	5	
Albany, N. Y	36	21	1	2	Knoxville, Tenn	43	24	2	1	
Allentown, Pa	47	35	8	-	Louisville, Ky	132	68	11	10	
Buffalo, N. Y	182	109	5	7	Memphis, Tenn	204	107	4	8	
Camden, N. J	49	29	5	2	Mobile, Ala	47	27	3	1	
Elizabeth, N. J	33	21	1	-	Montgomery, Ala	56	31	1	3	
Erie, Pa	50		3	-	Nashville, Tenn	108	61	4	7	
Jersey City, N. J	87		7	4	UPOT COUTU OFNITELL			Transa Jan	o tara	
Newark, N. J New York City, N. Y.	88		2	1	WEST SOUTH CENTRAL:	1,354	741	60	82	
Paterson, N. J	1,747 54	1,076	80	53	Austin, Tex	38	16	9	3	
Philadelphia, Pa	394	211	3	17	Baton Rouge, La Corpus Christi, Tex	34 42	14	3	5	
Pittsburgh, Pa	193	109	12	7	Dallas, Tex	184	18 99	1	9	
Reading, Pa	59	40	-	í	El Paso, Tex	59	28	3	6	
Rochester, N. Y	119	85	12	5	Fort Worth, Tex	80	50	1	4	
Schenectady, N. Y	34	20	2	2	Houston, Tex	243	128	8	15	
Scranton, Pa	58	42	4	3	Little Rock, Ark	78	42	3	2	
Syracuse, N. Y	79	48	3	4	New Orleans, La	193	109	7	9	
Trenton, N. J	66		4	6	Oklahoma City, Okla	108	64	2	10	
Utica, N. Y	35	22	4	1	San Antonio, Tex	126	80	2	8	
Yonkers, N. Y	35	26	3	-	Shreveport, La	65	34	7	3	
FACE MARKEN	0 760				Tulsa, Okla	104	59	14	8	
EAST NORTH CENTRAL:	2,768	1,548	79	121						
Akron, Ohio	65	27			MOUNTAIN:	532	325	16	22	
Canton, Ohio	42 801	432	3	5 45	Albuquerque, N. Mex	32	24	2	-	
Chicago, Ill	131	84	16	45	Colorado Springs, Colo. Denver, Colo	36 140	23	1	2	
Cincinnati, Ohio Cleveland, Ohio	243	142	3	12	Ogden, Utah	21	9	3	6	
Columbus, Ohio	96	50	-	9	Phoenix, Ariz	121	73	i i	6	
Dayten, Ohio	125	70	-	4	Pueblo, Colo	43	28	5	3	
Detroit, Mich	407	218	9	13	Salt Lake City, Utah	62	32	2	3	
Evansville, Ind	47	28	4	1	Tucson, Ariz	77	52	iran 🧐 🕮	1	
Flint, Mich	58	30	-	2				1,000,000,000	10.00	
Fort Wayne, Ind	62	36	6	3	PACIFIC:	1,877	1,154	44	60	
Gary, Ind	49	18	7	2	Berkeley, Calif	20	14	1	-	
Grand Rapids, Mich	32	18	5	1	Fresno, Calif	46	26	2	3	
Indianapolis, Ind	160	83	2	4	Glendale, Calif	56	40	2	1	
Madison, Wis	37	16	5	3	Honolulu, Hawaii	74	36	2	6	
Milwaukee, Wis	117	80	-	3	Long Beach, Calif	116	88	4	2	
Peoria, Ill.	38	24	2	4	Los Angeles, Calif	665	409	17	= 13	
Rockford, Ill	42	27	5	1	Oakland, Calif	89	52	2	2	
South Bend, Ind Toledo, Ohio	52 103	32	4	2	Pasadena, Calif	28	19			
	103	37	2	2	Portland, Oreg Sacramento, Calif	156 68	95	4	6	
Youngstown, Ohio		J 37	-	1 4	San Diego, Calif	120	79	1	25	
WEST NORTH CENTRAL:	894	551	28	32	San Francisco, Calif	134	71	1	2	
Des Moines, Iowa	54	37	2	-	San Jose, Calif	42	27		1	
Duluth, Minn	25	17	1	SSIR	Seattle, Wash	156	87	3	8	
Kansas City, Kans	45	22	3	5	Spokane, Wash	67	43	1	5	
Kansas City, Mo	156	95	3	6	Tacoma, Wash	40	24	2	3	
Lincoln, Nebr	49	33	2	2.40	1010 0000 HURD	1.				
Minneapolis, Minn	92	59	2	4	Total	13,532	7,903	518	550	
Omaha, Nebr	87	58	2	1	Free a had Number			400	EIF	
St. Louis, Mo	243	140	5	10	Expected Number	13,041	7,595	490	515	
St. Paul, Minn	74	46	1	3	Cumulative Total			55100		
Wichita, Kans	69	44	7	2	(includes reported corrections	206,535	120.774	8,743	9,173	
					for previous weeks)		· · · · · · · · · · · · · · · · · · ·			
		11	2	1	*Mortality data are being collected					
Las Vegas, Nev.*	18				table, however, for statistical reas					

† Delayed Report for week ended April 10, 1971

#### **SALMONELLOSIS** – (Continued from page 137)

day-old babies followed within the next few days. No isolation was made from the mothers or five other babies in the unit. The unit was closed for cleaning and disinfection.

In the next 2 weeks, S. panama was isolated from stool specimens from six babies in the main maternity nursery; most of them had diarrhea, sometimes tinged with blood. At this point, the whole unit was closed to new admissions. Cultures of swabs from all staff, patients, and the environment were negative except for one maternal excreter of S. panama. Samples taken from the milk kitchen were all negative. Sterile disposable catheters were in use for sucking out babies, but it was then found that a plastic adaptor which connected the catheter to the suction tube of a portable vaporizer yielded a profuse, pure growth of S. panama; the proximal rubber tubing was also heavily infected. This machine had apparently been used on four of the most recently infected babies, but could not account for all cases. Two wall suction tubes in the labor ward were then shown to be heavily contaminated with the same organism. These tubes had been used for both mothers and babies and did not appear to have been disconnected and cleaned after use.

Only one of the infected babies in the premature unit had possibly been exposed to a contaminated sucker, suggesting that cross-infection may also have played a part in this outbreak, as often happens in such circumstances.

All the babies referred to had only negligible to moderately severe diarrhea. However, two babies born in the unit the previous month became ill after their return home. One died of S. panama meningitis; S. panama was found in the blood, and cerebrospinal fluid of the other child who is now recovering. Further inquiries showed that infection was even more widespread than had appeared. Seven other babies delivered at the maternity unit were admitted to the infectious diseases hospitals from home and found to be infected with S. panama over a period of several months. S. panama is a common serotype generally and was known to be present in the locality. Some babies who were ill at home may have been infected outside the hospital, but it seems likely that most of them and of those found in hospitals were infected by the suction tubes or by cross-infection in the unit. Disposable catheters, tubes, and connecting pieces have now been introduced and unnecessary use of mechanical suction curtailed.

(From notes based on reports to the Public Health Laboratory Service from Public Health and Hospital Laboratories in the United Kingdom and Republic of Ireland, published in the British Medical Journal, Feb. 20, 1971.)

## Erratum, Vol. 20, No. 13, p. 111.

In the article "Measles – United States, 1970-71," Washington, D.C. was omitted as one of the areas reporting fewer measles cases so far this EY as compared to last EY.

The Morbidity and Mortality Weekly Report, circulation 22,800, Is published by the Center for Disease Control, Atlanta, Ga. Director, Center for Disease Control David J. Sencer, M.D.

Director, Epidemiology Program, CDC Editor, MMWR David J. Sencer, M.D. Philip S. Brachman, M.D. Michael B. Gregg, M.D.

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 HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION CENTER FOR DISEASE CONTROL ATLANTA, GEORGIA 30333

#### OFFICIAL BUSINESS

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting outbreaks or case investigations of current interest to health officials.

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