

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

INTERNATIONAL NOTES OBSCURE DISEASE RELATED TO AFRICAN MONKEYS Germany

A disease of unknown etiology in persons having contact with African monkeys has been reported in Germany. Five (5) definite cases and two (2) possible cases were reported among persons working in animal operating rooms of the Paul Ehrlich Institute, Frankfurt am Main. Sixteen (16) cases occurred in persons working with monkeys or monkey cell cultures in Behringwerke AG., Marburg. A suspect case occurred in an animal handler who works in a laboratory in Biberach near Ulm. In addition, there have been three cases in medical personnel taking care of these

CONTENTS		
International Notes		
Obscure Disease Related to African Monkeys - German	У	
African Monkeys - Germany		301
Salmonellosis - Germany		302
Epidemiologic Notes and Reports		
Hepatitis - Texas		302
Cryptic Malaria Case - Kentucky		303
Measles Epidemic - Oklahoma		303

patients and one in a person assisting at an autopsy. Seven of these 27 patients have died.

Initial symptoms include severe prostration, nausea, vomiting, diarrhea, and muscle aching which is particularly severe in the lumbar region. Conjunctivitis occurs (Continued on page 302)

22 In Manufacture Address Toyle Blat 14	36th WEEL	K ENDED	MEDIAN	CUMULATIVE, FIRST 36 WEEKS			
DISEASE	SEPTEMBER 9, 1967	SEPTEMBER 10, 1966	1962 - 1966	1967	1966	MEDIAN 1962 - 1966	
Aseptic meningitis	144	141	55	1,764	1,745	1,280	
Brucellosis	3	1	8	178	164	260	
Diphtheria	3	7	7	73	127	160	
Encephalitis primary:	State of the second	A grant Trian	0.76315-0.340	18.33.17.8	alife_stille		
Atthropod-borne & unspecified	36	71		1.077	1.376		
Encenhalitis post-infectious	11	11		625	580		
Hepatitis serum	38	14	1	1.478	946	)	
Hepatitis infectious	590	439	568	26,175	22,163	3 27,108	
Malaria	32	9	2	1.354	249	61	
Measles (rubeola)	194	414	541	57.617	189.095	357,669	
Meningococcel infections total	21	24	25	1.676	2,694	2.018	
Civilian	21	24		1 563	2 422		
Military	114-0. n <u>51</u> 778-0.	- 37 - 1 (-93 m)		113	272		
Poliomvelitis total	3	5	5	25	71	73	
Paralytic	2	5	5	21	67	67	
Rubella (German measles)	123	158		39 723	41 504		
Streptococcal sore throat & scarlet fever	4 476	3 772	3 772	323 416	305 939	284 579	
Tetanus	1,110	5	5	152	120	181	
Tularemia	2	-	3	192	118	107	
Typhoid fever	14	7	11	204	252	202	
Typhus tick-borne (Rky Mt spotted fever)	19	12	6	204	108	179	
-venus, tick bonne (tiky, Mt. spotted level).	10	12	0	240	190	110	
Rabies in animals	78	62	63	3,120	2,979	2,979	

# CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

#### NOTIFIABLE DISEASES OF LOW FREQUENCY

The second second in the second	Cum.	(Deptak envirol() (0.5. Hitele-periodicity incluse	Cum.
Anthrax:	2	Rabies in man:	2
Botulism:	2	Rubella, Congenital Syndrome:	4
Leptospirosis: Hawaii-1, Mich1, Wash1	28	Trichinosis:	48
Plague;	2	Typhus, murine: Tex1	31
Psittacosis: Minn1	31	Polio, Unsp. Calif1	4

## OBSCURE DISEASE RELATED TO AFRICAN MONKEYS - Germany

(Continued from front page)

early, followed by enanthem and exanthem which is scarlatiniform in appearance. Characteristically there is a leukopenia in the initial phase, followed by leukocytosis. Thrombocytopenia is accompanied by a bleeding tendency from the mucous membranes. During the second phase there is evidence of involvement of the liver, heart, and brain. Deaths have usually been occurring from 7 to 12 days after onset.

The cases are associated with at least two (2) shipments of *Cercopithecus aethiops* from Uganda to the laboratories. At the Paul Ehrlich Institute cases are limited to persons who work in the animal operating room. At the Behringwerke cases also occurred among persons working with tissue cultures derived from monkey kidneys.

(Reported by Professor Werner Anders, Chief, Epidemiology Department, Max von Pettenkofer Institute, Ministry of Health, Berlin, Federal Republic of Germany, through the Foreign Quarantine Program, NCDC.)

#### **Editorial Note:**

An intensive international investigation of the source and causative agent of this obscure disease is in progress.

#### SALMONELLOSIS - Germany

According to an unofficial report of August 9, 1967, an epidemic of salmonellosis has occurred among patients and personnel at a church-supported hospital in Unna. This town is 280 km. north of Frankfurt am Main. Over 200 cases had been reported among the 450 patients and 300 employees. Contaminated food is thought to be the source. *Salmonella braenderup* has been isolated from food samples.

(Reported to Foreign Quarantine Program, NCDC.)

### EPIDEMIOLOGIC NOTES AND REPORTS HEPATITIS - Texas

Between June 18 and July 12, 1967, three cases of infectious hepatitis occurred among persons who had close contact with two recently imported young chimpanzees at the Zoological Gardens in El Paso, Texas. Two of the cases were in animal handlers (ages 33 and 21) who had onsets of illness on June 18 and June 23, respectively, after having had close physical contact with the chimps since the arrival of the animals at the zoo on April 18, 1967. The third case was in a 37-year-old metal worker who had physical contact with the chimps on one day only (June 14) while inspecting their cage. He developed hepatitis 28 days later on July 12. All three men experienced malaise, anorexia, and fever followed by jaundice and abnormal liver function tests. Two were hospitalized briefly; all recovered with no apparent sequelae. None of the men knew of exposure to jaundiced or ill persons within the two months prior to onset of illness, none received transfusions of blood or blood products, and all denied raw shellfish ingestion.

Shortly after arrival at the El Paso Zoo on April 18, the chimps were treated for upper respiratory and gastrointestinal symptoms and had recovered by April 30. There has been no further clinical disease in the two animals, and at no time were they jaundiced. SGOT and SGPT determinations on their sera drawn July 2 were normal.

The chimpanzees were part of a larger group of chimps recently imported from Africa, housed together at an animal brokerage in another state, and shipped to several different destinations between April 12 and May 11. Among these, 7 were sent to the NCDC Field Station in Phoenix, Arizona. These chimps were routinely examined for evidence of hepatitis. Shortly after arrival, two of the animals had liver function abnormalities and liver biopsies compatible with "acute hepatitis." None had jaundice.

There were no known secondary cases of viral hepatitis among family members of the three patients; however, most of those at risk had received gamma globulin. There were 13 other cases of hepatitis reported to the El Paso City-County Health Department between April 1 and August 18. Nine of these were interviewed. None had contact with the chimpanzees.

(Reported by L. R. Hutchinson, V.M.D., M.S., Director, Veterinary Services, City-County Health Department, El Paso, Texas; M. D. Hornedo, M.D., Director, City-County Health Department, El Paso, Texas; and an EIS Officer.) Editorial Note:

Outbreaks of infectious hepatitis associated with close contact with young chimpanzees have been reported in the past. (1,2,3,4) The presumed explanation for chimpanzee-associated cases of infectious hepatitis is transmission of the virus from man to chimpanzee and then back to man. The chimpanzees are usually accuired from West African natives, whose practice it is to capture the chimps as infants and bring them into their homes as pets. The animals have intimate contact with their captors and are exposed to the multiple infectious agents endemic in the community. After purchase by the exporters, the - 印度斯瓦瓦 化过去式 化过去式 化合同合金 化合同合金 化合同合金 化合同合金 化合同合金

chimpanzees are shipped together, thus allowing possible viral transmission from animal to animal. Assuming an average incubation period of 30 days for both man and chimpanzees, the day of infection for the first two human cases must have been about May 20, 32 days after the chimps arrived at the zoo. Therefore it seems likely that the chimpanzees acouired their infection from the other chimps at the brokerage rather than in Africa. However, it is possible that chimpanzees infected with hepatitis continued to excrete the virus intermittently and for long periods of time, and acquisition of infection in Africa cannot be excluded with certainty.

The typical clinical picture of human infectious hepatitis is not a common occurrence in the chimpanzees,

A case of malaria was recently reported in a 41-yearold carpenter who resides in Bowling Green. Kentucky. The patient experienced fever, myalgia, and headache on July 9, 1967, accompanied by shaking chills on the following day. Since the fever persisted despite administration of antibiotics, he was admitted to the hospital on July 12 as a suspect case of malaria. The diagnosis of malaria was confirmed that same day when a practing physician and a pathologist identified *Plasmodium vivax* parasites in a peripheral blood smear. The blood smears were not available for review, but the diagnosis was supported by the National Institute of Allergy and Infectious Diseases (National Institutes of Health) where fluorescent anti-

The patient had not been outside the United States and had no history of blood transfusions or use of commonly shared syringes. Although he reportedly had had malaria 20 years ago, he has had no unexplained fever episodes since that time. He lives in a well-screened, air-conditioned home in a modern suburban area. His only travel outside Bowling Green during the 2 months prior to the onset of illness involved two fishing trips. On June 16, 1967, he fished at a lake 110 miles west of Bowling Green, and on June 30, 1967, he went to a reservoir 30 miles east of Bowling Green. Neither of the two family members who accompanied him on these trips have developed any illness.

bodies against P. vivax were noted in a dilution of 1:80.

and it is presumed that they may serve as sources of infectious hepatitis in their contacts without manifesting the disease themselves.

REFERENCES:

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2. Davenport, F., Hennessy, A., Christopher, M., and Smith, C.: A common source multi-household outbreak of chimpanzeeassociated hepatitis in humans. Amer J Epidem 83:146-151, 1966.

3. Mosley, J. W., Reinhardt, H. P., and Hassler, F. R.: Chimpanzee-associated hepatitis. JAMA 199:695-697, 1967.

4. Held, J. R.: The public health implications of nonhuman primates in the transmission of hepatitis to man. Proc. 100th Annual Meeting AVMA:183-185, 1963.

### CRYPTIC\* MALARIA CASE - Kentucky

Epidemiologic investigation included a search for additional cases through personal interviews with 98 general practitioners, internists, and pediatricians who practice in the area of Bowling Green and the two lakes. A total of eight patients were uncovered with a history compatible with malaria. Results of blood smear examinations and fluorescent antibody determinations were all negative. A survey of medical laboratories in the area, and of fishermen frequenting the two lakes, did not result in the identification of any additional malaria cases.

The place and source of infection of this isolated case remain unclear. One of two servicemen who acquired malaria in Kentucky in 1967 (MMWR, Vol. 16, No. 29, p. 239), also had been fishing, but at a site 40 miles away from the closest of the above two lakes.

In the absence of any associated cases, this episode has been classified as a cryptic\* case of malaria.

(Reported by Dr. Calixto Hernandez, Director, Division of Epidemiology, Dr. J. W. Skaggs, Acting Director, Office of Communicable Diseases, and Mr. J. Clifford Todd, Director, Field Investigations Unit, all with the Kentucky State Department of Health; and a team from NCDC.)

### MEASLES EPIDEMIC - Okiahoma

Eleven cases of rubeola, including one death from measles encephalitis, confirmed by autopsy, were reported to the Oklahoma State Health Department from the USPHS Indian Hospital at Lawton, Oklahoma, for the week ending August 19, 1967. A request was made from the Oklahoma State Health Department's Division of Epidemiology to the NCDC for measles vaccine from the epidemic control stockpile. The USPHS hospital through its clinics in Lawton, Anadarko, and Carnegie, Oklahoma, serves a twelve-county area with an Indian population of approximately 1,000 children in the 1-10 year age range susceptible to measles. In the past year, approximately 250 doses of Edmonston vaccine have been administered to Indian Hospital outpatients. Through the State immunization program, approximately 5,270 doses have also been distributed to both Indians and non-Indians for the twelvecounty population of 63,667 in the 1-10 year age group. (Continued on page 308)

<sup>\*</sup>Cryptic malaria case - an isolated case of malaria not associated with secondary cases as determined through appropriate epidemiological investigation.

## CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

### FOR WEEKS ENDED

# SEPTEMBER 9, 1967 AND SEPTEMBER 10, 1966 (36th WEEK)

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Puerto Rico		-		-				-		14	16	

# Morbidity and Mortality Weekly Report

## CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

## FOR WEEKS ENDED

# SEPTEMBER 9, 1967 AND SEPTEMBER 10, 1966 (36th WEEK) - CONTINUED

40° 821808 10/0010	MALARIA	MEAS	MEASLES (Rubeola)			OCOCCAL IN TOTAL	FECTIONS,	1.545	RUBELLA		
AREA	and for	not have	Cumul	ative	5 1 14	Cumula	tive	Total	Paral	lytic	
2- 1247 · · · · ·	1967	1967	1967	1966	1967	1967	1966	1967	1967	Cum. 1967	1967
UNITED STATES	32	194	57,617	189,095	21	1,676	2,694	3	2	21	123
NEW ENGLAND	3	3	848	2,250	-	68	118				25
Maine	2	-	238	198	-	3	9	-	-		4
New Hampshire		•	74	80	-	2	9	1.7	-	-	-
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Iowa	<ul> <li></li></ul>	1	748	5,305		14	22	-		1	2
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305

# CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

# SEPTEMBER 9, 1967 AND SEPTEMBER 10, 1966 (36th WEEK) - CONTINUED

ADFA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
AREA	1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967
UNITED STATES	4,476	5	152	2	125	14	284	18	248	78	3,120
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Vermont	79		-		1.1	-			E 1 1 1 4 4		18
Massachusetts	38	1. 1.	1	-	- 1		2	1.1	1. <u>1</u>	1.51	2
Rhode Island	37	2 St			0 (PF)	1	1 1		1 T	1	4
connecticut	379	1. 5	1	-11-1	1 1 2416						(7
MIDDLE ATLANTIC	76	1. 231	12	10 6	- 1940)	아이는 것이 같아.	25	2	27	1	0/
New York Up-State		24.	0			5 1 6	13		5	1	57
New Jersey	NN N	10.00	1	- E - 8	1 1853	- E - S	2	2	12		-
Pennsylvania	2	1. 26-1	4				3	-	8	1 State	10
EAST NORTH CENTRAL	187	1	17	-	12	2	25	2	22	3	306
Ohio	11	1. 2.3-	4		S DEC.	1 1 2 2 2	6		11	3	106
Indiana.	38		3	1.1	2	2	10	-	1		69
1111n015	23	1	8		10	10 1 44	2	2	10		20
Wisconsin	51		-	- E			ь 1				50
WEST NORTH CENTRAL	368	1411	10	-	21	1	16	- 3-C	3	12	731
Minnesota		1. 10. 1	3	- FL 8	1 105	3 - El -45	1	- 8-	<ul> <li>Total</li> </ul>	3	141
lowa	92	1.1.1.1	1	- 11	1	0.012.04	2		2 (a)	2	135
Missouri	01	1 22 C	5		0	1	0		- <u>1</u>	4	129
South Dakota	10	1.1	1		2			1 2 2 2	3.3 1:34	-	92
Nebraska	102		-	1 2 3			4		2	1	49
Kansas	83	前先的		-	10	가귀지	- 1			ī	87
SOUTH ATLANTIC	505	2	36	_	9	6	46	8	103	9	402
Delaware	7		-			11 11 11	- I - I	1 2	-	-	and the
Maryland	88	-8 C	- 1 <del>-</del> 1	- 5		<ul> <li>- 11 - 5</li> </ul>	2	1	19	-	2
Dist. of Columbia			-			1	2		25.34	i ban ta b	1
Virginia	126	1	8	-	1.1.1	1	4	1	24	1	181
West Virginia	157	이 문문 -	1	107101	2	6 1 6	1	-	1	22 (Adm) (1	5/
North Carolina	5	1.13	6	-	-	<ul> <li>10.40</li> </ul>	3	1	41	Const Table	3 AT 3
South Carolina	21		1		2	N 11.1	14		4	-	96
Florida	95	1	17		4	3	14	-	-	4	63
EAST SOUTH CENTRAL	966	1	24		9	2	47	2	45	20	597
Kentucky	30	11 200 1	3		1	2	20	1	14	4	136
Tennessee	688	10.00	8	- E - 3	6	왕 팀 사	9		23	16	413
Alabama	138	1.1	9		-	1 I C	9	1	8	11/10/100	39
mississippi	110	1	4		2	1 1 9	9			and a	
WEST SOUTH CENTRAL	545	1 1121	34	2	61	25 1 W	32	2	29	23	669
Invisiana	-	10 20 7	5	1 1	36	1.1.3	9	1	8	-	92
Oklahoma	41	132 30	2		16	2 I I I	13		14	14	236
Texas	502	10.04	24	-	4	김, 김 종	4	1	7	6	282
MOUNTAIN	717		1.4.1.4.1	and the second	•	1	17	1 1 1 1	9	5	100
Montana	43	10 64-6	100	- 1 ku t	0	1 1	1		-		100
Idaho	64		1212		1	2.14.2	1 1	1.0.201	10.010		
Wyoming	6	11-2-3	1121		2	1		-	100	Contraction of the	5
Colorado	327	111 - 22	- 利用電子	100	1	1	12		8	1.54	10
New Mexico	136	ALC: NO	1111	-	TTAN	1 1 1	1	T	-3-2-4.1	11.8.200	29
Arizona	72	10 24-	115		1	1 1 1 1	3	11 Sec 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	45
Utah Nevada	69 -	1	4.2	11	1.120	1.10	1	1	그는 모님	- 3	3 8
PACIFIC	491	1	17		4	10 m	72	2	10	3	168
Washington	18	11. 200	11. 32	1.1	2		1	1	2		1
Oregon	43		1	-	5	1 1 1	2.2.2	1	2	172 H.M.	3
California	336	1	13	1.0	2	26 1 3	68	120-11	6	3	164
Alaska	54	SHORT W	100	- 11 · · ·	5 - 500	1.3	1.00	-	Sec.		43.2957
Puerto Rico	40	1	3				3	-		-	26
ALLEO RECONNENSION						1.9	1 7				

#### Week No. 36

# DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED SEPTEMBER 9, 1967

	All Causes					A11 C	uror.		-
Area	411	1000	and	1 year	To and Manufacture		uaea	Pneumonia and	1 year
Area	All Ages	and over	Influenza	All	Area	All Ages	65 years and over	Influenza	A11
THE ARE OF ADDRESS I	all the second second	20.5 20.00	ATT Ages	causes	an hat have a state	0 - 0 0 0 V	1007-01-027	ATT Ages	causes
NEW ENGLAND:	746	449	35	29	SOUTH ATLANTIC:	1,022	502	24	56
Boston, Mass	238	129	10	14	Atlanta, Ga	133	61	10.000	9
Bridgeport, Conn	48	10	3		Baltimore, Md	205	107	1000	13
Fall River Mass	38	24	2	100	Jacksonville Fla sees	26	29		2
Hartford, Conn	41	23	2	1	Miami, Fla	87	42	-	7
Lowell, Mass	44	31	2	1	Norfolk, Va	47	24	4	3
Lynn, Mass	24	16	2	11 - F	Richmond, Va	87	40	2	6
New Bedford, Mass	24	17	100 C 100	1	Savannah, Ga	26	12	3	2
New Haven, Conn	60	36	1	2	St. Petersburg, Fla	52	38	3	6
Providence, R. I	68	35	4	2	Tampa, Fla	74	30	5	1
Springfield Mass	45	29	4	1	Wilmington, D. C.	158	6/	2	3
Waterbury, Conn	28	16	1	2	withingcon, bei	49	20	3	5
Worcester, Mass	51	34	2	4	EAST SOUTH CENTRAL:	524	272	33	45
MIDDLE ATLANTA	2 0 2 5	1 662	80	100	Birmingham, Ala	70	40		3
Albany N. Y	2,923	1,005	09	109	Chartanooga, Tenn	33	18	1	-
Allentown, Pa.	44	27	2	3	Louisville, Ky.	133	67	10	19
Buffalo, N. Y	137	78	1	7	Memphis. Tenn	95	54	6	9
Camden, N. J	37 _	21	1	11121	Mobile, Ala,	48	19	2	5
Elizabeth, N. J	25	17	2		Montgomery, Ala	41	25	1	2
Erie, Pa	30	18	2	2	Nashville, Tenn	75	36	3	6
Jersey City, N. J	58	41	3	4				10. 2.5	
Newark, N. J	1 525	950	3	52	WEST SOUTH CENTRAL:	980	500	27	54
Paterson N. J.	43	26	40	3	Baton Rouge La.	30	20	2	4
Philadelphia, Pa*	448	253	8	17	Corpus Christi, Tex	16	9	2	2
Pittsburgh, Pa	157	84	8	8	Dallas, Tex	126	68	4	5
Reading, Pa	33	19	1	-	El Paso, Tex	25	9	2	2
Rochester, N. Y	78	45	4	4	Fort Worth, Tex	83	46	10.00	4
Schenectady, N. Y	36	20	2	1	Houston, Tex	172	71	3	7
Scranton, Pa	36	26	1	-	Little Rock, Ark	47	24	3	5
Troptop N. L.	36	21	-		Oklahoma City Okla	169	78	4	10
Utica. N. Y.	17	10	2	1.00	San Antonio, Tex	106	63	2	5
Yonkers, N. Y	20	13	1 -	-	Shreveport, La	49	25	3	1 i
and the second s					Tulsa, Okla	52	32	1	2
EAST NORTH CENTRAL:	2,333	1,272	50	114	The second secon		and the second second		14.00
Akron, Ohio	56	36	C. secolds	2	MOUNTAIN:	385	214	13	22
Canton, Ohio	28	19	2	1	Albuquerque, N. Mex	39	23	4	2
Cincippati Obio	110	68	15	24	Derver Colo	23	13	2	1 .
Cleveland, Obio	202	91	2	11	Ogden, Utah	115	6	2	
Columbus, Ohio	102	48	3	9	Phoenix, Ariz	87	40	2	7
Dayton, Ohio	58	26	2	7	Pueblo, Colo	10	7	2	-
Detroit, Mich	306	154	3	11	Salt Lake City, Utah	50	31	1	1
Evansville, Ind	42	25	1	3	Tucson, Ariz	50	27		4
Flint, Mich	65	33	2	9	DACTETC.	1		and the second	
Gary Ind	36	20	2	4	Berkeley Calif	1,281	781	25	47
Grand Ranids, Mich	56	36	3	1	Fresno, Calif,	21	14	2	
Indianapolis, Ind	138	75	2	6	Glendale, Calif	35	30	1	2
Madison, Wis	33	10		2	Honolulu, Hawaii	40	20	1	2
Milwaukee, Wis	121	78	3	5	Long Beach, Calif	62	43	1	1.200
Peoria, Ill	26	18	-	1	Los Angeles, Calif	384	233	9	17
Rockford, Ill	38	25	4	3	Oakland, Calif	66	44		2
South Bend, Ind	15	11	1.1		Pasadena, Calif	45	40	3	1
Youngstorm Objosses	88	27		2	Sacramento Calif	71	36		4
roungstown, onro	01	21	2		San Diego, Calif	03	33	1	2
WEST NORTH CENTRAL:	726	430	18	35	San Francisco, Calif,	141	73	i	1 1
Des Moines, Iowa	46	34		1	San Jose, Calif	24	12		2
Duluth, Minn	26	16	20-11-0	1	Seattle, Wash	115	71	7	2
Kansas City, Kans	32	12	1	1	Spokane, Wash	40	26		4
Kansas City, Mo	120	70	2	8	Tacoma, Wash	33	24	1.0	1
Minnoon, Nebr	28	17	-	2	Total	10			
Omaha Nobe	51	01	3	9	Iotal	10,922	6,083	314	511
St. Louis, Mo.	211	125	6	5	Cur	nulative T	otals		
St. Paul, Minn	62	45	2	3	including report	ed correct	ions for m	revious we	eks
Wichita, Kans	49	24	4	2				14.2	
	-	1	1		All Causes, All Ages			443,78	38
					All Causes, Age 65 and	over		253,2:	32
#Past-st					Pneumonia and Influenza	, All Ages		15,70	22
"Estimate - based on a	verage perc	ent of di	visional to	JUHI.	All Causes, Under I Yea:	t OI Age		22,5.	5

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

#### CUTE OF SECTION NOTIONED DISPARES SUCCED &

### MEASLES EPIDEMIC - Oklahoma (Continued from page 303)

This was generally below the level of vaccine distribution to comparable populations across the state. Since there is no segregation of educational facilities, a program was set up in which 2,000 susceptible non-Indian and Indian children in three population centers were immunized using live measles vaccine (Swartz strain). (Submitted by Dr. Leroy Carpenter, Oklahoma State Epidemiologist, and an EIS officer.)

### ERRATUM: Vol. 16, No. 24, p. 286

In the article "Shigellosis – Vermont," the last sentence in the first paragraph on p. 286 is incomplete. It should read: "In the second wave, however, there appeared to be a greater risk of infection among employees working in the camp stables, as 8 of 21 (38 percent) were affected in contrast to 17 of 107 (16 percent) employees working in other areas of the camp." THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER DAVID J. SENCER, M.D. CHIEF, EPIDEMIOLOGY PROGRAM A.CING CHIEF, STATISTICS SECTION DIA L. SHERMAN, M.S.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

THE EDITOR MORBIDITY AND MORTALITY WEEKLY REPORT NATIONAL COMMUNICABLE DISEASE CENTER ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEDING FRIDAY.

