

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE FREALTH SERVICES AND MENTAL HEALTH ADMINISTRATION DATE OF RELEASE: SEPTEMBER 3, 1971 – ATLANTA, GEORGIA 30333

EPIDEMIOLOGIC NOTES AND REPORTS HUMAN BUBONIC PLAGUE – Oregon

On Aug. 5, 1971, a 10-year-old boy from Pendleton, Oregon, noticed pain in his left groin when lifting a heavy object. The next day, he was admitted to a local hospital with fever and a painful, erythematous lesion in his groin. A 1 mm, flat, slightly hemorrhagic, nonindurated lesion was noted on his left great toe. On admission, he was started on doxycycline, 100 mg per day in two doses, which was continued until a surgical biopsy of the groin lesion was noted on biopsy, and the patient was given 500 mg of cephaloridine intravenously and started on clindamycin, 600 mg orally per day in four doses.

On August 9, cultures of the biopsy material showed growth of gram-negative, bipolar rods. Plague was suspected, and his antibiotic was changed to streptomycin, 1.5 grams daily in three doses. The organism was sent to the Oregon State Board of Health Laboratories and on August 10 was re-

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ported as presumptively positive for *Yersinia pestis* by the fluorescent antibody technique. This identification was subsequently confirmed by the Zoonoses Section, Ecological Investigations Program, Ft. Collins, Colorado.

From July 27 to Aug. 4, 1971, the boy had resided at a cabin near a small private lake in a remote part of northeast Oregon, approximately 100 miles from the area of the last reported plague case in 1970. The patient denied any known (Continued on page 304)

the second se	34th WE	EK ENDED		CUMULATIVE, FIRST 34 WEEK				
DISEASE	August 28, 1971	August 29, 1970	MEDIAN 1966 - 1970	1971	1970	MEDIAN 1966 - 1970		
Aseptic meningitis	294	302	150	2,752	2,498	1,559		
Brucellosis	4	3	3	103	134	145		
Diphtheria Encephalitis, primary:	6	28	3	106	244	106		
Arthropod-borne & unspecified	33	35	45	892	852	852		
Encephalitis, post-infectious	2	6	10	274	305	353		
Iepatitis, serum	194	166	95	5,535	4,720	2,789		
Iepatitis, infectious	1,113	1,172	880	39,363	36,597	28,659		
falaria	30	62	33	2,099	2,242	1,379		
leasles (rubeola)	249	185	175	68,470	39,208	39,208		
feningococcal infections, total	27	36	36	1,712	1,807	1,944		
Civilian	26	35	35	1,522	1,623	1,769		
Military	1	DOM: NO PILOS	1	190	184	184		
lumps	446	620		98,245	74,482			
oliomyelitis, total	And the second			9	17	23		
Paralytic	STALL AND STALL		_	7	17	20		
Rubella (German measles)	200	201	204	37,928	48,799	43,076		
etanus	2	2	3	68	75	97		
Sularemia	4	3	4	109	91	114		
Typhoid fever	8	10	7	199	183	211		
Typhus, tick-borne (Rky. Mt. spotted fever) .	15	11	13	306	268	216		
Rabies in animals	53	64	66	2,796	2,078	2,393		

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

	Cum.		Cum.
Anthrax: Botulism: Penn3 Leprosy: Calif1, Hawaii-2 Leptospirosis: Plague:	90 24	Psittacosis: Rabies in Man Rubella congenital syndrome: S.C. 2. Trichinosis: * N.J4, Ohio-1 Typhus, murine: Texas-1	40 50

Delayed reports: Trichinosis: Alaska Delete 2, 1971, Add 2, 1970.

PLAGUE – (Continued from front page)

contact with rodents, although chipmunks, tree squirrels, and wood rats are abundant around the cabin area. No die-off of any of these animals was apparent to either the boy or any of his family members. He was unaware of any flea bites and was not certain of the cause of his toe lesion. On August 4, 1 day prior to the onset of his illness, the boy had returned to his home in Pilot Rock. The other 10 children and two adults who were living at the cabin have remained well.

Preliminary findings of ecological studies have indicated normal populations of all mammals in the area with the exception of white-footed mice (*Peromyscus* sp.) which were sparse. Columbian ground squirrels (*Spermophilus colum*- *bianus)* were also scarce, but these animals estivate about July and are rarely evident in that area in August. The significance of the paucity of *Peromyscus* remains to be determined. Specimens have been collected for laboratory processing. The only control indicated has been public education.

(Reported by Rayburn Collis, M.D., Pendleton Community Hospital, Pendleton, Oregon; Anton Alderman, M.D., County Health Officer, Umatilla County, Oregon; Morris Chelsky, M.D., Director, Epidemiology Section, Oregon State Board of Health; the Zoonoses Section, Ecological Investigations Program, CDC, Ft. Collins, Colorado; and an EIS Officer.)

RECOMMENDATION OF THE PUBLIC HEALTH SERVICE ADVISORY COMMITTEE ON IMMUNIZATION PRACTICES

RUBELLA VIRUS VACCINE

INTRODUCTION

Rubella is generally a mild illness, but when the infection is acquired by a woman early in pregnancy, particularly the first 3 months, fetal infection with subsequent abnormalities often develops. Preventing infection of the fetus and the resulting congenital rubella syndrome is the principal objective of rubella control.

Live, attenuated rubella virus vaccine* is a highly effective immunizing agent, and its use provides the first suitable method of preventing rubella. While it is safe and protective for children, due to the possible risk of vaccine virus for the fetus, its safety for pregnant women has not been determined. The most feasible way to prevent fetal infection is to reduce virus transmission among children, the major source of infection for susceptible pregnant women. As of June 30, 1971, more than 28 million doses of vaccine had been distributed in the United States.

Rubella

Rubella is one of the common childhood exanthems. Most cases occur in school-age children, particularly in the winter and spring. Approximately 80 to 90 percent of young adults in the continental United States have serologic evidence of immunity.

Rubella is clinically variable, and its common features post-auricular and sub-occipital lymphadenopathy, arthralgia, and transient erythematous rash—are often overlooked or misdiagnosed. A mild febrile illness may not be recognized as rubella. Moreover, inapparent infection often occurs, further decreasing the reliability of clinical history.

Transient polyarthralgia and polyarthritis may accompany or follow the illness. Joint symptoms are reported to occur most frequently in adult women but are also observed in adult men and in children. Rarely, there is involvement of the central nervous system or thrombocytopenia.

By far the most important feature of rubella is the frequent development of fetal anomalies when women acquire rubella in early pregnancy, especially in the first trimester.

Rubella Immunity

Immunity following rubella appears to be long lasting, even after mild illness or clinically inapparent infection. As with other viral diseases, re-exposure to natural rubella sometimes results in a booster-type antibody rise but no clinical disease, indicating asymptomatic reinfection.

The only reliable evidence of immunity is the presence of specific antibody. The hemagglutination-inhibition (HI) antibody procedure is the serologic test of choice for determining immunity. Because of the variations among reagents and technical procedures, only laboratories that regularly perform these tests should be used.

LIVE RUBELLA VIRUS VACCINE

Live rubella virus vaccines thus far licensed for use in the United States are prepared in duck embryo, dog kidney, or rabbit kidney cell cultures. They are administered as a single subcutaneous injection. Antibodies develop in approximately 95 percent of susceptible vaccinees. Differences in the frequency of adverse reactions and in the mean antibody titers induced by the available rubella vaccine preparations have been reported. Although titers are generally lower than those observed in response to natural rubella infection, vaccine-stimulated antibody protects against clinical illness on natural exposure.

Antibody levels have declined very little during the 5year period of observation of children who were among the first to be immunized with rubella vaccine. Long-term protection is expected but can be documented only by continued observation.

Rash and lymphadenopathy occur occasionally in children after vaccination, but joint pain, usually of the small peripheral joints, has been the most common complaint. Arthralgia or arthritis has been reported in 1-15 percent of vaccinated children, but usually occurs in no more than 5 percent. Reports on the vaccine of dog kidney cell origin indicate that it commonly stimulates a somewhat higher level of antibody than other vaccines but is associated with higher rates of joint manifestations (7-15 percent). The joint symptoms are of greater severity and longer duration than symptoms caused by other vaccines.

Joint symptoms, or non-joint-associated pain and paresthesia in arms and hands or in the popliteal fossae, when they occur, begin 2-10 weeks after immunization. With the less reactive vaccines, they generally persist for 1-3 days. Rehave been reported.

In susceptible women, arthralgia and generally transient arthritis following immunization are more frequent and tend to be more severe than in children. Not enough men have been studied to establish comparable data.

Vaccinees may shed small amounts of virus from the pharynx briefly at some time between the first and fourth weeks after immunization. Transmission of vaccine virus to susceptible contacts is, therefore, theoretically possible; however, when several thousand susceptible persons were deliberately exposed to numerous recent vaccinees, only a few of the contacts developed antibodies. Most of those who did had also been exposed to natural rubella at about the same time, and in only rare instances was seroconversion thought to be compatible with transmission of vaccine virus. In view of considerable experience with such investigations and with community vaccination programs, the probability of vaccine virus spread is exceedingly low.

Vaccinees exposed to natural rubella infection often have antibody titer rises but no clinical symptoms. Reinfection occurs most frequently in persons with low antibody titers, and it occurs both in vaccinees and in persons who have had rubella. In cases of reinfection, there is no detectable viremia and little pharyngeal excretion of virus. There is no evidence that rubella reinfection poses any risk for susceptible contacts. Furthermore, the apparent absence of viremia with reinfection suggests that immune women reinfected while pregnant would be unlikely to transmit virus to their fetuses. Further study is needed, however, to define the clinical and epidemiologic significance of reinfection.

VACCINE USAGE

General Recommendations

Live rubella virus vaccine is recommended for all children between the age of 1 year and puberty. It should not be administered to infants less than 1 year old due to possible failure to respond to vaccination.

Priority for immunization should be given to children in kindergarten and elementary school because they are the major sources of virus dissemination in the community. For optimum program effectiveness, it is essential that immunization activities be developed to ensure ongoing, routine immunization of preschool children as well. A history of rubella is not reliable; all children should receive vaccine.

It is desirable that programs of rubella vaccine use in adolescent girls and adult women be extended. Because of the precautions which must apply, potential vaccinees in these groups should be considered individually. They should receive vaccine only if they are shown to be susceptible by serologic testing and if they agree to prevent pregnancy for 2 months after immunization. To accomplish such extended use of rubella vaccine, serologic testing capabilities should be expanded. With sufficient laboratory services available, there is merit in undertaking prenatal or antepartum screening for rubella susceptibility and, if appropriate, immunization in the immediate postpartum period. **Pregnant women should not under any circumstances be given vaccine**.

Immunization of adolescent or adult males is of lower priority. It may be a useful practice in preventing or controlling outbreaks of rubella in circumscribed population groups.

There is no evidence that live rubella virus vaccine given after exposure will prevent illness. There is, however, no contraindication to immunizing children already exposed to natural rubella. Similarly, there is no harm in vaccinating persons who have had rubella.

Precautions and Contraindications

Pregnancy: Live rubella virus vaccine is contraindicated. (See General Recommentations.)

Altered immune states: Attenuated rubella virus infection might be potentiated by severe underlying disease such as leukemia, lymphoma, or generalized malignancy, and when immunologic response has been suppressed with steroids, alkylating drugs, antimetabolites, or radiation. Such patients should not be given live rubella virus vaccine.

Severe febrile illness: Immunization should be postponed until the patient has recovered.

Hypersensitivity to vaccine components: Theoretically, rubella vaccine should not be given to children clearly hypersensitive to the animals in vaccine production or to other components of the vaccine. To date, there have been no documented reports of serious reactions to rubella vaccine clearly attributable to hypersensitivity.

Simultaneous Administration of Certain Live Virus Vaccines

Recently licensed combination live virus vaccines (measles-mumps-rubella, measles-rubella, and rubella-mumps) incorporate specific vaccine virus strains of demonstrated effectiveness and safety when administered simultaneously. Combinations of other strains of measles, rubella, and mumps vaccine viruses have not been tested sufficiently and, therefore, are not suitable for simultaneous administration at this time.

SURVEILLANCE

Careful surveillance of rubella infection is particularly important now that the vaccine is in general use. Accurate diagnosis and reporting of rubella, of the congenital rubella syndrome, and of vaccine complications are now more important than ever. All cases of birth defects suspected of being related to rubella should be thoroughly investigated and reported.

EPIDEMIOLOGIC NOTES AND REPORTS INDUCED MALARIA – California

On June 9, 1971, a 17-year-old girl was hospitalized in Los Angeles County, California, with a 4-day history of severe headache, earache, and fever. Two days later, *Plasmodium vivax* parasites were seen on a peripheral blood smear. She subsequently made an uneventful recovery.

The patient had no previous history of malaria, blood transfusions, or foreign travel. Six weeks earlier, however, the patient had attended a party where illicit parenteral drugs and injection equipment were shared. Although she denied actual (Continued on page 310)

FOR WEEKS ENDED

AUGUST 28, 1971 AND AUGUST 29, 1970 (34th WEEK)

	ASEPTIC	DDUORS	DTDU	Er	CEPHALITI	3		HEPATITIS		WATABTA	
AREA	MENIN- GITIS	BRUCEL- LOSIS	DIPH- THERIA	Primary : unsp.	Including cases	Post In- fectious	Serum	Infectious		MALA	RIA
solution as welling that	1971	1971	1971	1971	1970	1971	1971	1971	1970	1971	Cum. 1971
UNITED STATES	294	4	6	33	35	2	194	1,113	1,172	30	2,099
NEW ENGLAND	7	-	-	1	3	-	11	65	124	1	60
Maine	-	-	-	-	-		4	13	29	1	4
New Hampshire	1	-	-	-	-	1	1	4	- 8		1
Vermont	1		-		-		2	13	47	-	40
Rhode Island	5	-	-	-	3	-	-	11	19	-	6
Connecticut				1	-		5	19	21		8
MIDDLE ATLANTIC	37	1	2.12	4	9	-	97	213	200		208
New York City	11	-		1	1		59	52 29	42 37	de Dia	22
New York, Up-State	9 14	1		-	2	-	9 14	59	44	-	84
New Jersey Pennsylvania	3	and a sub-	-	3	5		15	73	77		44
EAST NORTH CENTRAL	20	dungers	100.00	6	12	staisticat	22	141	170	6	143
Ohio	8	8-11 <u>-</u> 111	9980 <u>2</u> -	2	9	L Meritan	4	44	38	of the	18
Indiana.*	Ref. (Ref.)	191-40	101-10	1	7.41			* 6	16	1 - T	11
Illinois	12	Could Barrie	2 - E -	3	1	1.2	7	15 65	26 74	5	41
Michigan Wisconsin	-	helter Zanti	1.1	-	-	-		11	16	-	25
WEST NORTH CENTRAL	7	1	singht =	2	_	-	2	33	36	5	203
Minnesota	4	district of the		1.1.1	-101	(R) - UNCO		5	5	And the Dist	22
Iowa	2	1	-		76-24	365.14	of the local section.	7	3	-	25
Missouri	-	COLUMN THE	5418 L	1	-			3	20	1	25
North Dakota South Dakota	n aminana	an Louis		ī		_	2.	2	_	-	1
Nebraska.		-			_	-	-		-	-	12
Kansas	1			-	5.000	-	2	14	8	4	116
SOUTH ATLANTIC	175	1	-	3	3	-	21	197	168	() 기도 34	338
Delaware	-	-	-	-	- Jaco	-		5	2 8	Putround	49
Maryland	6	- 1 -	-	-	2	-	5	19	10	-	49
Dist. of Columbia Virginia	3		-9 E -		1	-	8	31	. 67	-	52
West Virginia			111040		-	-	1	26	2	-	7
North Carolina	4	-		1	1	- 1919	Sume 1 in	22 10	22	-	118
South Carolina	9 143	iha (jida)	en de Terrer	2	1		- C - C -	-	27	-	57
Georgia. Florida.	10		isathe_30	anni-frank	1	-	6	84	27	-	33
EAST SOUTH CENTRAL	13		3	6	5	1	1	30	49	1	126
Kentucky	2	-		State State	1	-		5	16		100
Tennessee	8	-	-	6	4	ī		17	26 4	ī	20
Alabama Mississippi	3	-	3	-	-190	100.001	1	4	3	a internal	6
	13		3026.1	4	1	1	3	117	85	2	449
WEST SOUTH CENTRAL	1	2	-	-	10.8	- 192 APR	APS54 I	4	2	-	17
Louisiana	5		-	1	-11	1	1	19	10	000700	35
Oklahoma. Texas	2	100 <u>-</u> 100	- -	3	-	1	- 2	34 60	9	2	64
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MOUNTAIN	000275	200 L 14	2	3	1	100 20 14	1	73	55	3	109
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Wyoming	-	-	-	line il	-		-	1	3		1
Colorado		-	-	-		-	1	33 10	30 2	3	83
New Mexico	1	1	2	- 2	1		- I.	15	14	-	8
Arizona.*Utah		-	-	-	-	-	-	1	2	-	3
Nevada	-	-	- 7		-			1	1		2
PACIFIC	22	-	-	4	1	-	36	244	285	12	463
Washington	1	17	-	-	ā	-	-	20	15		1
Oregon	21	ing an bi	l'instance	4	ī	and Internet	2 31	36 183	22 244	10	392
California Alaska.	- 21	1.1.1.4	-		-	Sec-		1	1	-	4
Hawaii	-	4		- 1	-	-	3	4	3	2	47
ILLWELLSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS								57	38	-	18

*Delayed reports: Diphtheria: Ariz. 2 Hepatitis, infectious: Me; 7, Ind. delete 2, P.R. 5

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

AUGUST 28, 1971 AND AUGUST 29, 1970 (34th WEEK) - CONTINUED

er vittagen P	ME	ASLES (Rube	ola)	MENINGO	COCCAL INF TOTAL	ECTIONS,	MU	MPS	POLIOMYELITIS		
AREA		Cumulati		1.00	Cumulative			Cum.	Total	Paral	ytic
A DECEMBER OF THE	1971	1971	1970	1971	1971	1970	1971	1971	1971	1971	Cum. 1971
UNITED STATES	249	68,470	39,208	27	1,712	1,807	446	98,245	- 00	n 00-71 I	7
EL THAT WE	2	3,424	853	3	77	79	22	6,007			
WEW ENGLAND	-	1,460	204	-	8	3	7	1,189	1.3		_
Maine.*		205	50	2	13	8	2	649			-
New Hampshire		116	8	4	13	7	1	341			_
Vermont	2	253	390	1	30	35	2	1,453		_	_
Massachusetts		238	118		3	5	5	1,177			_
Rhode Island	- 2.	1,152	83	1.1	23	21	5	-			
Connecticut	-	1,132	ده		23	21		1,198	1.11		-
IDDLE ATLANTIC	14	7,469	4,801	9	235	331	22	6,178		1100 0 00	-
New York City	7	3,737	856	5	51	81	19	1,694		A 4 4 3 - 1 - 1 - 1	- 11
New York, Up-State	6	640	271	3	66	66	NN	NN		STR-SU	
New Jersey.*	1	1,188	1,699	1	53	126	-	1,666		1	100 - I
Pennsylvania	-	1,904	1,975		65	58	3	2,818	- 55	a contra del	(19
	96	15 150	9,708	9	198	201	126	20.054	10	and the second s	1
SAST NORTH CENTRAL	3	15,159	3,795	6	64	201 80	126	39,954			-
Ohio	51			-		19	29 12	7,679		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
Indiana	7	2,721	267	1	14			5,084		and the state of the	-
Illinois	13	2,923	3,039	1		44	6	4,192	 P112 		-
Michigan		2,262	1,699		52	49	16	9,431			-
Wisconsin	22	3,276	908	1	12	9	63	13,568	1155	100000-00E	
JEST NORTH CENTRAL	3	6,794	3,836	2	125	93	24	6,448	- 323		1997-
Minnesota		61	38		21	13	_	1,094		· · · · · · · · · · · · · · · · · · ·	100-
Iowa	1	2,238	1,128		9	12	12	2,919			-
Missouri	2	2,599	1,267	1	45	55	1	1,021	_		-
North Dakota		231	318		5	3	6	322		1	_
South Dakota		215	93		5	-	4	235		1	1
Nebraska.		64	924	1 <u>6</u> - 1	14	5	1	91	1.00	-	
Kansas.	이 ~ 1	1,386	68	1	26	5	_	766	- 64		1.1.1
and the second se	1.1.1			1 2 1							
SOUTH ATLANTIC	30	7,584	7,127	2	299	372	44	7,088			1
Delaware	1	37	260	-	2	3	1	167			-
Maryland	2	539	1,375	-	44	34	3	638			-
Dist. of Columbia	1.1	15	343	1	12	3	2	89		_	-
Virginia		1,572	1,971	-	35	40		949			-
West Virginia	4	492	308	1	7	10	12	1,825		-	-
North Carolina	3	1,925	856		53	76	NN	NN			-
South Carolina	2	903	593	-	20	44	8	849			-
Georgia	2	337	14	1. 27. 2	23	32	-	11	-		1
Florida	16	1,764	1,407	1	103	130	18	2,560		100-00	
AST SOUTH CENTRAL	21	8,170	1,305		148	134	28	7,671		STATES OF	-
Kentucky	5	3,891	752		38	45	4	2,319		110-S.P.	doint-
Tennessee	2	1,017	373	_	59	58	20	4,338	- 33	1000-000	10 m -
Alabama.	14	1,851	92	_	28	21	2	880	- 1.077		
Mississippi	12	1,411	88	1.12.1	23	10	2	134	- 1000	t	100-1
			5 L		a second second	the second second			1.000		-
EST SOUTH CENTRAL	20	12,337	7,485	1.1	145	244	53	7,959	1 112	ALC: NO	3
Arkansas		777	30	-	5	21	5	88			- 11 C
Louisiana	2	1,669	92	5	51	61	1	134		1000-000	-
Oklahoma	-	750	443	8.1	7	19		180			-
Texas	18	9,141	6,920		82	143	47	7,557	-	000-01	3
OUNTAIN	6	3,186	1,499	6 4 1	54	36	46	3,946	_		1
Montana.	1	923	60	1.12.1	6	1	6	388	-1-223	Sector Sector	
Idaho.	1.41	271	35	1.12	10	6		120		Contraction of the local division of the loc	-
Wyoming	- 1 - A I	85	11	1 - E	2	1		274		Sector Sector	-
Colorado	5	826	176	1 E .	7	12	27	1,292	1 - 1000	100 million (100 million)	-
New Mexico.	12	341	198		4	1	7	630		and a second	
Arizona	-	404	965		8	13	6	1,086	_	1	_
Utah		329	33	12	14	2		156	_		-
Nevada.	1.41	7	21	1	3	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	-	-			1
and the second s											
ACIFIC	57	4,347	2,594	2	431	317	81	12,994		n.n. - 100	2
Washington	28	1,009	523	-	23	43	7	5,234	-	- 40, 41 - 1984	1
Oregon		370	228	1.1	31	25	14	1,302			1
California	23	2,541	1,525	1	369	247	54	5,540	-1-23		-
Alaska	1	54	136	1.3	-			78	- 2000	C	
Hawaii	5	373	182	1	8	2	6	840		cess - 66	-
	25	467	879	1	8	5	10	942			_

*Delayed reports: Measles: Me. 1, N.J. 22 Mumps: Me. 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

AUGUST 28, 1971 AND AUGUST 29, 1970 (34th WEEK) - CONTINUED

AREA	RUBE	LLA	TETA	NUS	TULAR	EMIA	TYPH FEV		TICK-	FEVER BORNE Spotted)	RABII	
AREA	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971
UNITED STATES	200	37,928	2	68	4	109	8	199	15	306	53	2,796
NEW ENGLAND	10	1,699	2.11	4	$h_{\rm C} = 1$	5-7	1	10		2	1	178
Maine	1	258	- 1		-		1	1	-		-	163
New Hampshire	-	46		1	- 1	-	-	10-	-	1 - 1		1
Vermont	-	94		-	-	-	-	1.8-	-	-		11
Massachusetts	2	819		1			-	6	-	-	1	3
Rhode Island	5	96		-	-	-	-	-	-	2		100
Connecticut	2	386	6 - 1	2	-	-	1.0	3	1		- (1990) - (1990)	-
MIDDLE ATLANTIC	16	2,479		6		T	1	32	I	29	6	126
New York City	8	522	21 T	5	12 -		1.5	9	-	1	4	110
New York, Up-State	1	395 572		1	1	-		12	1 2	6	4	110
New Jersey	6	990			31	_	1	5	1.1	7	2	16
Pennsylvania								1				
EAST NORTH CENTRAL	70	8,167	121 - C	7	102 - 1	5	2	25		16	7	296 89
Oh10	2 25	947	-	1		1	2	11	1.1	13	4	60
Indiana	25	1,988	2 -			- 1	_	6	1 2	3	2	55
Illinois	17	2,581		2	12 2 0	1 1	_	4	1.2.		-	39
Michigan	25	1,409	S - 1		<u> i - 1</u>	2	-	-	-	-	1	53
and the second se	3	3,163	L _ F	5	1	17	_	2	_	4	18	754
WEST NORTH CENTRAL	1	272	_	2	_		-	-			6	164
Minnesota	1	662	1. – i .	1	_		-			1.1.1	2	174
Missouri	1	1,344	1 - 1	2	1	13	-	2		2	4	110
North Dakota		93		-		-	-		-	-	4	136
South Dakota		95		-	2 - 7	1	0		-	-	-	81
Nebraska	- E.	86		-	AL -		-	1.40-			1	5
Kansas	- E	611	-		15 -	3	-			2	1	84
SOUTH ATLANTIC	17	2,999	1	16	101 -	17	1.1-1.1	31	9	162	4	302
Delaware	-	46		- T	-		-	1		2	-	-
Maryland	÷	132	-	1	20 - 1	3		3	2	27	-	1
Dist. of Columbia		7		-	22 - 1	-	1.5	1	2	23	20122	62
Virginia	14	206	1	2	3.1	8	-	3	-	3		104
West Virginia	14	581	_	1		4	1.1	4	4	84	100	4
North Carolina	2	431	_	1		1 - 1 -	-	1	1	12		-
South Carolina Georgia	- E -	-		2	-		-	2	-	11	3	96
Florida	1	1,551	(i = 1)	10	10	2	-	13	- T	-	1	35
EAST SOUTH CENTRAL	12	3,193	1	9		10	200	25	6	47	4	263
Kentucky	2	1,100	T = 11		- E	2	-	6	2	10	2	136
Tennessee	9	1,822	1	6	- T	5	-	15	-	27	2	85
Alabama	1	198	F = 3.	2	16 - 1	_ 2		4	2	5	a	41
Mississippi	1.1	73	-	1		1	1	-	2	5		1
WEST SOUTH CENTRAL	37	4,562	5 - 1	11	1	44	1	23		36	6	579
Arkansas	-	334		1	2 - 3	15		6	4.5	5		72
Louisiana	-	280		1	1	7	100	6	-	-	-	21
Oklahoma Texas	2 35	67 3,881	-	1	1	14	1	2 9	1 2	25	2	243
the second s								-				10
MOUNTAIN	5	1,878	1	2	1	14	_	7	1 2	10	1	49
Montana Idaho	<u>_</u>	39		1	- I	1		1 1 1	1	3		
Wyoming	-	859		1	- 1	-	1	-	-	-		8
Colorado		261	R - 5	1 - T	1 1	-	-	-	-	2	-	11
New Mexico	2	206		-	-		100	5	1.1	-		8
Arizona.*	2	333		1	-	-	1.00	2				17
Utah Nevada	Ē	54	1	1 2 1	3.2	12	-	- T	1	1	1	3
		1.11		. C								
PACIFIC	30	9,788		8	2	2	3	44	1 2 3	1	6	249
Washington	5	717		1	2	2	-	-	1	1	_	6
Oregon California	25	7,552	S - 1	6	-		1	39	- C - C		6	209
Alaska	_	43		-	-	-	-	1		100		34
Hawaii	-	146	-	-			2	4	-		-	-
	_	62	-	5	-	-	-	2	-		2	52

*Delayed reports: Rabies in animals: Ariz. 1

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Week No. 34

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED AUGUST 28, 1971

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

Area		All Causes		Under				Pneumonia	Under
	All Ages	65 years and over	and Influenza All Ages	l year All Causes	Area	All Ages	65 years and over	and Influenza All Ages	1 year
EW ENGLAND:	722	424	29	24	SOUTH ATLANTIC:	1,244	651	42	6
Boston, Mass	204	100	9	12	Atlanta, Ga	123	55	74	1
Bridgeport, Conn	51	29	2	1	Baltimore, Md	249	137	4	i 1
Cambridge, Mass	21	16	3		Charlotte, N. C	40	20	1 -	10071
Fall River, Mass	33	22	-	1	Jacksonville, Fla	99	39	3	
Hartford, Conn	58	31	1	3	Miami, Fla	128	67	Š	
Lowell, Mass	24	13	1		Norfolk, Va	65	39	6	
Lynn, Mass	19	11	431 Tr - nd	- T-	Richmond, Va	113	59	4	1
New Bedford, Mass	34	27	2	-	Savannah, Ga	33	14	4	
New Haven, Conn	72	39		2	St. Petersburg, Fla	90	67	2	1.00
Providence, R. I	73	38	4	3	Tampa, Fla	84	51	8	100
Somerville, Mass	7	5	2		Washington, D. C	183	88	6	1
Springfield, Mass	44	30	4	1	Wilmington, Del	37	15		
Waterbury, Conn	27	16	-	-				0.01	1.11
Worcester, Mass	55	47	1	1	EAST SOUTH CENTRAL:	643	361	17	2
the second se			1.14	11106-5	Birmingham, Ala	110	64		
IDDLE ATLANTIC:	2,993	1,711	103	106	Chattanooga, Tenn	36	21	2	
Albany, N. Y	60	29	2	3	Knoxville, Tenn	31	21	Contraction of the	
Allentown, Pa	27	22	2	-	Louisville, Ky	108	64	6	1915
Buffalo, N. Y	139	83	1	3	Memphis, Tenn	154	81	3	1000
Camden, N. J	44	25	1	1	Mobile, Ala	54	31	1	1.1
Elizabeth, N. J	35	18	1	1	Montgomery, Ala	45	18	2	Contract.
Erie, Pa	64	44	4	3	Nashville, Tenn	105	61	3	10.01
Jersey City, N. J	54	28	3	3					
Newark, N. J	85	37	9	4	WEST SOUTH CENTRAL:	1,214	628	33	7
New York City, N. Y.L-	1,519	874	50	53	Austin, Tex	42	19	1	
Paterson, N. J	45	27	3	1	Baton Rouge, La	52	24	2	1
Philadelphia, Pa	400	197	5	17	Corpus Christi, Tex	34	9		
Pittsburgh, Pa	116	63	6	5	Dallas, Tex	136	57	2	
Reading, Pa	28	19	-	160T-	El Paso, Tex	44	23	2	· · · · · · · · · · · · · · · · · · ·
Rochester, N. Y	118	71	6	5	Fort Worth, Tex	81	50	1	
Schenectady, N. Y	17	11	1		Houston, Tex	240	116	6	
Scranton, Pa	39	31	1	1	Little Rock, Ark	78	43	2	50 C
Syracuse, N. Y	102	69	3	3	New Orleans, La	165	86	5	12
Trenton, N. J	45	26	2	2	Oklahoma City, Okla	80	45	2	
Utica, N. Y	28	20	1	1	San Antonio, Tex	120	68	4	
Yonkers, N. Y	28	17	2		Shreveport, La	51	27		3
ronkerb, m. m			and a second	1000	Tulsa, Okla	91	61	6	2
AST NORTH CENTRAL:	2,443	1,370	60	119	initia, onto			adapted the	0 245
Akron, Ohio	62	39		4	MOUNTAIN:	443	257	16	20
Canton, Ohio	36	20	1	3	Albuquerque, N. Mex	41	26	7	4
Chicago, Ill	706	365	15	48	Colorado Springs, Colo.	26	18	3	2
Cincinnati, Ohio	159	88	2	6	Denver, Colo	114	69	1	Sec. 1
Cleveland, Ohio	190	84	5	13	Ogden, Utah	22	15	1	-
Columbus, Ohio	134	73	-	5	Phoenix, Ariz	106	56	101 (K + 1	7
Dayten, Ohio	102	66	- 1	1	Pueblo, Colo	18	10	3	1
Detroit, Mich	314	183	7	8	Salt Lake City, Utah	63	35		3
Evansville, Ind	39	26	2	. .	Tucson, Ariz	53	28	1	2
Flint, Mich	49	22	_	3			1	1.1.4.53	23017
Fort Wayne, Ind	36	23		3	PACIFIC:	1,661	991	34	50
Gary, Ind	28	14	6	3	Berkeley, Calif	15	9	1	
Grand Rapids, Mich	54	34	3	-	Fresno, Calif	46	25	1	2
Indianapolis, Ind	123	72	5	10	Glendale, Calif	32	22	1221-4	12.12
Madison, Wis	27	9	5	-	Honolulu, Hawaii	52	25	2	4
Milwaukee, Wis	114	77		- 1	Long Beach, Calif	107	57	3	
Peoria, Ill	36	22		2	Los Angeles, Calif	594	362	12	1:
Rockford, Ill	33	21	5	1	Oakland, Calif	79	44	2	
South Bend, Ind	56	35	2	4	Pasadena, Calif	38	28	2 I I I	
Toledo, Ohio	100	67	1	4	Portland, Oreg	129	74	-	3
	45	30	-	_		58	34	2	
Youngstown, Ohio		1			Sacramento, Calif	111	62	-	1
ST NORTH CENTRAL.	769	469	23	37	San Diego, Calif San Francisco, Calif	118	69	7	
EST NORTH CENTRAL:	45	28	4	1		40	31	i i	1
Des Moines, Iowa	40	30		2	San Jose, Calif	142	85	4	6
Duluth, Minn	47	21	2	7	Seattle, Wash	56	37	1 2	
Kansas City, Kans	116	80	2	3	Spokane, Wash	44	27		
Kansas City, Mo	33	24	4	1	Tacoma, Wash	44			
Lincoln, Nebr	103	61	-	10	Tetal	12 132	6,862	357	520
Minneapolis, Minn	76	41	2	4	Total	12,132	0,002		
Omaha, Nebr	185	106	2	5	Expected Number	12 167	6 991	385	525
St. Louis, Mo	67	44	1	3	Expected Number	12,167	6,881		
St. Paul, Minn Wichita, Kans	57	34	6	1	Cumulative Total (includes reported corrections for previous weeks)	439,283	252,559	16,413	19,654

†Delayed Report for week ended Aug. 21, 1971

MALARIA – (Continued from page 305)

participation, she did admit that she may have "scratched" herself with the needle. Epidemiologic investigation revealed that a close acquaintance of the patient had returned from Vietnam a few days prior to attending the party. He allegedly had malaria and had used heroin regularly in Vietnam; he was treated with unknown medications for a febrile illness shortly after the party. Subsequent peripheral smears demonstrated *P. vivax*.

Although none of the other six people at the party had symptoms of malaria or positive blood smears, two persons had antibody titers to *P. vivax* of 1:64 by the indirect fluorescent antibody technique. All persons attending the party were treated with chloroquine; the Vietnam veteran also received primaquine.

(Reported by Charles W. Rasmussen, M.D., private physician,

Pasadena, California; Robert Murray, Epidemiology Analyst, Ichiro Kamei, M.D., Chief, Acute Communicable Disease Control, Los Angeles County Health Department; Rae Lindsay, M.D., Health Officer, Sutter-Yuba County Health Department; Mary Clark, M.D., Deputy Director of Public Health, Santa Clara County Health Department; Ronald R. Roberto, M.D., Medical Epidemiologist, Bureau of Communicable Disease Control, California State Department of Public Health.)

Editorial Note

This is the third episode in California of needle-induced malaria traced to a Vietnam veteran since November 1970. Treatment with chloroquine alone is sufficient for induced malaria since there is no exoerythrocytic stage when the parasite is transmitted by trophozoite inoculation.

FOLLOW-UP ON VENEZUELAN EQUINE ENCEPHALITIS - Texas

Since the last report on Venezuelan equine encephalitis (VEE) (MMWR, Vol. 20, No. 33), a total of 89 equine viral isolates have been reported from Texas (Table 1). Zapata has been added to the list of counties reporting equine viral isolates. There have been 76 laboratory confirmed human cases of VEE reported from the following counties: Cameron and Hidalgo (63), Nueces (6), San Patricio (3), Kleberg (2), Aransas (1), and Refugio (1).

(Reported by M. S. Dickerson, M.D., Chief, Communicable Diseases Services, J. E. Peavy, M.D., Commissioner, Texas State Department of Health; Edward J. Wilson, D.V.M., Assistant Coordinator of Regional VEE Eradication Program, U.S. Department of Agriculture; the Laboratory Division, and the Epidemiology Program, CDC.)

The Morbidity and Mortality Weekly Report, circulation 24,600, is published by the Center for Disease Control, Atlanta, Ga. Director, Center for Disease Control Director, Epidemiology Program, CDC Editor, MMWR 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 succeding 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

3-G-19-08 Mrs Mary F Jackson, Library Center for Disease Control

Equine Viral Isolates by Virulence and Equine Vaccination History Texas – August 1971

Table 1

	Vaccinated	Unvaccinated	Vaccination History Unknown	Total
Virulent	17	22	16	55
Nonvirulent -	22	0	0	22
Test results* not yet available	8	2	2	12
Total	47	24	18	89

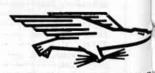
*Guinea pig or weanling mice inoculation test.

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.

Address all correspondence to: Center for Disease Control

Attn: Editor Morbidity and Mortality Weekly Report Atlanta, Georgia 30333

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