

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE WHEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION DATE OF RELEASE: APRIL 2, 1971 – ATLANTA, GEORGIA 30333

## EPIDEMIOLOGIC NOTES AND REPORTS INDUCED MALARIA -- California

Between December 1970 and March 1971, an epidemic of induced\* malaria involving 48 persons occurred in Kern County, California (Figure 1). All patients admitted to the use of heroin and frequently shared syringes and needles. A 22-year-old Vietnam veteran was identified as the probable index case. He had returned from Vietnam in March 1970 and had taken none of the eight chloroquine-primaquine tablets prescribed by the Army for terminal chemoprophylaxis. In mid-November 1970, he experienced fever and chills, and on December 17, his illness was diagnosed as malaria due to *Plasmodium vivax*. In the interval between the onset and diagnosis of his illness, he had injected heroin at least once daily and shared his injection equipment with at least seven other persons. Three of these contacts subsequently became ill with malaria.

An epidemiologic investigation was intitated on Feb. 26, 1971. Due to the history of heroin use in association with the

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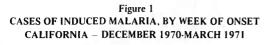
index case, a special clinic was established on March 2 by the Kern County Health Department to interview suspect cases and all contacts, to obtain thick and thin peripheral blood smears and serology specimens, and to administer presumptive treatment with chloroquine phosphate.\*\* Approximately (Continued on page 100)

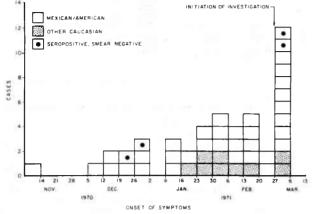
	12th WE	EK ENDED		CUMULATIVE, FIRST 12 WEEKS			
DISEASE	March 27, March 28, 1971 1970		MEDIAN 1966 - 1970	1971	1970	MEDIAN 1966 - 1970	
Aseptic meningitis	28	15	27	625	328	336	
Brucellosis	2	5	5	22	34	34	
Diphtheria	-	1	3	46	85	35	
Encephalitis, primary:	16	14	17	256	225	238	
Arthropod-borne & unspecified	13	10	12	76	89	105	
Encephalitis, post-infectious	177	147	82	1,966	1,505	826	
Iepatitis, serum	1,243	994	900	14,681	12,906	9,892	
Iepatitis, infectious	75	30	40	902	794	531	
Matalia	3,263	1,126	1,126	23,595	13,128	13,128	
feningococcal infections, total	63	59	59	796	828	920	
Civilian	55	40	39	680	747	839	
Military	8	19	1 11	116	81	81	
Aumps	4,559	2,229		42,326	30,592		
Poliomyelitis, total	1	· -		4	1	3	
Paralytic	1	-	-	3	1	3	
Rubella (German measles)	1,699	2,044	2,175	13,542	17,112	12,302	
Tetanus	4	3	3	17	18	23	
Fularemia	-	3	3	22	17	23	
Cyphoid fever	1	5	5	59	54	54	
Typhus, tick-borne (Rky. Mt. spotted fever) .			_	4	_	3	
Rabies in animals	125	88	88	961	776	872	

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

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

	Cum.		Cum.
Anthrax: Botulism: Leprosy: Leptospirosis: Plague:	30 8	Psittacosis: Rabies in Man: Rubella congenital syndrome; Md8 Trichinosis: Calif1, NYC-1, NYUps1 Typhus, murine:	16 25





400 heroin-using contacts were identified, and over 300 of these received presumptive treatment.

Parasites of *P. vivax* were seen on the peripheral blood smears of 42 patients, and all had recent or current symptoms typical of benigh tertian malaria. (Thirty-one of these were discovered through the activities of the clinic.) Thirtythree of these cases were in Mexican-Americans, and 9 were in other Caucasians. Thirty-nine patients were men and three were women; the average age was 23.3 years (range 18-43 years, median 22 years).

Six other persons were identified as probable cases, based on positive indirect fluorescent tests for malaria and contact with known cases, despite the fact that their blood smears were negative for malaria parasites. Four of the six had had a recent febrile illness, and the other two had been free of malaria-like symptoms during the time of the epidemic. No new cases related to this outbreak have been reported since March 6.

(Reported by Owen A. Kearns, M.D., Health Officer, Kern County Health Department; Robert W. Huntington, M.D., Medical Director, Kern County General Hospital, Bakersfield, California; Ronald R. Roberto, M.D., Epidemiologist, Lois Ann Shearer, R.N., Nurse-Epidemiologist, and James Chin, M.D., Chief, Bureau of Communicable Disease Control, California Department of Public Health; and three EIS Officers.)

### **Editorial Note**

This is the third reported outbreak of vivax malaria in heroin users in the past 6 months, and the second epidemic in California since November 1970. Vietnam veterans were the probable sources of infection in each of these outbreaks.

### CURRENT TRENDS RUBELLA VACCINATION OF PREGNANT WOMEN

In June 1969, live rubella virus vaccine was licensed for use in the United States. At that time, the United States Public Health Service Advisory Committee on Immunization Practices recommended guidelines for vaccination of postpubertal females (MMWR, Vol. 18, No. 15). According to these guidelines, rubella vaccine should not be given to pregnant women, since it is not known whether attenuated rubella vaccine virus can infect the fetus or whether fetal damage can result. Physicians were advised to screen female patients serologically (hemagglutination-inhibition [HI]) for rubella immunity before vaccination and to observe pregnancy precautions. Nevertheless, many women have been inadvertently inoculated shortly before conception or in the first few weeks of pregnancy.

Since licensure of the vaccine, 105 pregnant women known to have received rubella vaccine have been reported to CDC. Ninety-three of these women had an unknown immunity status prior to vaccination. Of these, 64 chose to have therapeutic abortions, six aborted spontaneously, and 23 carried to term. No virus was isolated from any products of conception, and histopathologic change was detected in only one case (deciduitis). The infants of the 23 mothers who carried to term were clinically normal at birth.

Twelve of the 105 women were known to be susceptible to rubella when they received the vaccine. Four of these patients chose to have therapeutic abortions. Three had rubella vaccine-like virus isolated from decidua and/or placenta; one of these three had virus isolated 69 days after vaccination. Some degree of histopathologic changes in decidua and/or placenta similar to changes seen with gestational rubella were evident in all three from whom virus was isolated. Adequate fetal tissue specimens were obtained in only one instance; these yielded no virus.

Two other susceptible patients had spontaneous abortions; no evidence of any viral infection was found. Six vaccinated susceptible women carried to term, and their babies were clinically normal at birth. Further evaluation of these infants is in progress.

(Reported by the Vaccine Investigations and Evaluation Section, Field Services Branch, Epidemiology Program, CDC.) Editorial Note

Definite conclusions regarding the risk of vaccine administration to a pregnant woman cannot be made on these limited data. However, the ability of vaccine virus to persist in placental tissue as long as 69 days post-vaccination and the observed histopathologic changes reemphasize the necessity of caution and selectivity in administering rubella vaccine to females of childbearing age. In addition, efforts should be directed toward pre-vaccination rubella HI testing of postpubertal females.

Inquiries about these cases may be directed to the Field Services Branch, Epidemiology Program, CDC. Information about new cases should be reported to the appropriate local or State health department and CDC.

<sup>\*</sup>Induced malaria refers to malaria acquired through artificial means, i.e., blood transfusion, common syringes, or malariotherapy.

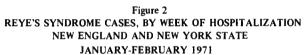
<sup>\*\*</sup>Adult dosage for clinical attack of malaria: 1.0 gm (600 mg base) initially, then 0.5 gm in 6 hours, then 0.5 gm daily for 2 days.

## EPIDEMIOLOGIC NOTES AND REPORTS REYE'S SYNDROME – New England and New York State

In January and February 1971, 36 children in New England and New York State were hospitalized with acute encephalopathy diagnosed as Reye's syndrome (Figure 2), apparently representing a marked increase in the number of cases for the same period in previous years. Twenty-one of the patients were from Massachusetts, five were from Connecticut, three each from Rhode Island and Vermont, two from New York, and one each from Maine and New Hampshire (Figure 3). Cases were distributed over wide areas within the states, and there were only two instances in which two or more of the patients lived in the same town. The ages of the patients ranged from 3 to 16 years, median 11 years (Table 1). Thirteen patients were male and 23 female. The distribution of cases by age and sex were roughly comparable for all states. A total of 21 (58 percent) of the 36 children died; the case fatality rate in the 10-14 age group (72 percent) was higher than in the other age groups.

For 18 of the 36 cases of acute encephalopathy, a diagnosis of liver abnormality was made on the basis of fatty degeneration of the liver at autopsy. For two cases, changes noted in liver biopsy specimens accounted for the diagnosis. The remaining cases were diagnosed on the basis of abnormal serum glutamic oxaloacetic transaminase or serum glutamic pyruvic transaminase values with minimal or no elevation of the total bilirubin.

Specimens for serologic testing and/or virus isolation studies were obtained from 30 of the 36 patients; testing has



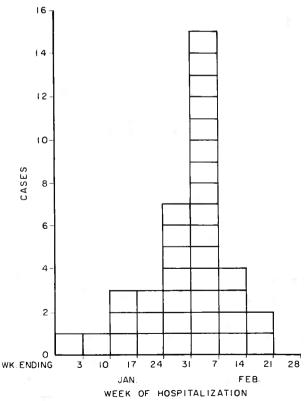


Figure 3 REYE'S SYNDROME CASES, BY TOWN OF RESIDENCE JANUARY-FEBRUARY 1971

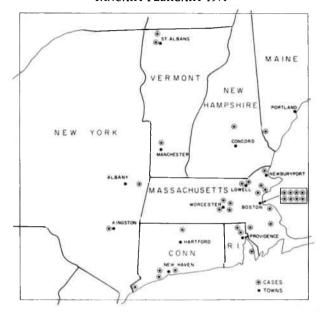


Table 1 Reye's Syndrome Cases, Deaths, and Case Fatality Rates (CFR) by Age and Sex – New York and New England Jan. 1-Feb. 28, 1971

		Cases	8	I	Death	is	CFR			
Age Groups	М	F	Т	М	F	Т	М	F	Т	
<5	1	2	3	0	0	0	0	0	0	
5-9	3	7	10	2	3	5	66%	42%	50%	
10-14	7	11	18	6	7	13	83%	63%	72%	
15+	2	3	5	0	3	3	0	100%	60%	
Total	13	23	36	8	13	21	62%	57%	58%	

been completed for 12 of these 30. A fourfold increase in serologic titers against influenza B was noted for two of the patients. Single hemagglutination-inhibition (HI) titers against influenza B of 1:256 and 1:512 were documented for four others. For another patient, a single HI titer of 1:512 against influenza B was recorded, and this virus was recovered from a throat swab specimen. No other agent has been associated with these cases. Virus isolation studies and serologic tests were negative for the remaining five patients. (Reported by James C. Hart, M.D., Director, Division of Preventable Diseases, Connecticut State Department of Health; Nicholas J. Fiumara, M.D., Director, Division of Communicable Diseases, Massachusetts Department of Public Health; Victoria Smith, M.D., Epidemiologist, Alan R. Hinman, M.D., Director, Bureau of Epidemiology, New York State Department of Health; Joseph E. Cannon, M.D., Director, Rhode Island Department of Health; Robert B. Aiken, M.D., State Health Commissioner, Vermont Department of Health; and (Continued on page 102)

the Neurotropic Diseases Unit, Viral Diseases Branch, Epidemiology Program, CDC.)

Editorial Note

In many of these communities, cases of Reye's syndrome began to appear 1-2 weeks after an increase in absenteeism associated with respiratory illness. Recent infection with influenza B has been documented in a number of these communities either by virus isolation or by serologic studies. An association between influenza B and cases of Reye's syndrome has been noted in the past (1,2,3). From the minimal laboratory data available, it seems likely that in many cases in the present outbreak, the antecedent illness may be influenza B infection.

#### References

1. Johnson GM et al: A study of 16 fatal cases of encephalitis-like disease in North Carolina children. North Carolina Med J 24:464-473, 1963

2. Norman MG et al: Encephalopathy and fatty degeneration of the viscera in childhood. II. Report of a case with isolation of influenza B virus. Canad Med Ass J 99:549-554, 1968

3. Glick TH et al: Reye's syndrome: an epidemiologic approach. Ped 46:371-377, 1970

#### SALMONELLOSIS – New Jersey

In August 1970, an outbreak of salmonellosis involving 112 persons occurred in a summer camp in northern New Jersey. Questionnaires were completed by 175 camp members, and 112 (64 percent) reported being ill. Their symptoms included diarrhea, abdominal pain, fever, nausea, and vomiting (Table 2). Dehydration was common because of the hot weather, and it resulted in the hospitalization of 26 persons. There were no deaths.

Onsets of illness occurred in two waves (Figure 4). The first wave occurred within 48 hours after the August 8 evening meal of turkey and involved 17 campers and 13 counselors. Food-specific attack rates implicated the turkey as the vehicle of infection (Table 3). In the second larger wave of illness 2 days later, at least 82 additional persons became ill. These patients had eaten a meat loaf dinner in which more than one food item appeared to be contaminated. Foods which had been leftover from the meal on August 8, such as green beans and mashed potatoes, were on the August 10 menu. Speci-

Table 2
Symptoms Reported by 112 Persons with Salmonellosis
New Jersey – August 1970

Symptom	Number of Cases	Percent Ill
Diarrhea	91	81
Fever	89	80
Abdominal Pain	89	80
Headache	74	66
Nausea	73	65
Vomiting	60	54

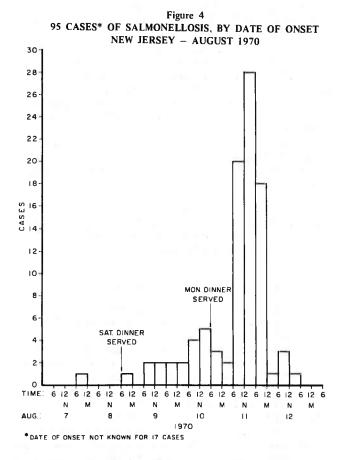


Table 3Food Specific Attack Rates of Camp Members with SalmonellosisAfter August 8 Meal – New Jersey, 1970

Food		А	te		Did Not Eat						
	ш	Not Ill	Total	Attack Rate (Percent)	I11	Not III	Total	Attack Rate (Percent)			
Turkey	27	112	139	19	0	18	18	0			
Dressing	17	93	110	15	10	37	47	21			
Gravy	18	95	113	16	9	35	44	20			
Mashed Potatoes	20	101	121	17	7	29	36	19			
Green Beans	18	78	96	19	9	52	61	15			
Milk	22	115	137	16	5	15	20	25			
Pie	16	95	111	14	11	35	46	14			

103

mens of the meat loaf and green beans were cultured and yielded *Salmonella thompson*. Fifty-one persons who submitted stool specimens, including 11 who were asymptomatic, had positive cultures for *S. thompson*.

The turkey served at the August 8 meal was probably the source of the salmonellae. Five turkeys, weighing approximately 26 pounds each, were purchased frozen and refrigerated for 3 days. Each was then washed, placed in a deep pan, basted, covered with foil, and roasted  $(550^{\circ})$  for 3-4 hours. Such items as the green beans, which were served at the second infected meal, may have accounted for the contamination of the fresh food, such as the meat loaf, served on August 10. Lack of supervision of kitchen personnel, common usage of pots and utensils, and improper sanitation procedures most likely permitted the dissemination of salmonellae to other foods and contributed to the magnitude of the outbreak.

(Reported by Virginia Traister, R.N., Public Health Project Nurse, Division of Laboratories and Epidemiology, Howard Rosenfeld, V.M.D., Senior Public Health Veterinarian, Donald Myers, M.D., Northern District State Health Officer, Ronald Altman, M.D., State Epidemiologist, New Jersey State Department of Health; and an EIS Officer.)

### CURRENT TRENDS INFLUENZA – United States

The fifth telephone survey of all State health departments for the 1970-71 influenza season was conducted by the Respiratory Diseases Unit on March 30, 1971. New England has reported decreasing levels of previously widespread upper respiratory illness. The Southern Atlantic states have reported Influenza B isolations and seroconversions with scattered outbreaks. Scattered outbreaks and isolations of Influenza A/2 Hong Kong virus have been noted in the Pacific region. New England

Massachusetts, Connecticut, Maine, Rhode Island, and Vermont have reported less influenza-like illness than they did in February. A few isolations of Influenza B were reported in March.

## Middle Atlantic

New York has reported no new isolations and only a few seroconversions for Influenza A and B. The number of new cases has decreased. One county in Pennsylvania has had increased levels of upper respiratory illness.

### South Atlantic

Virginia has experienced widespread influenza activity; however, the number of reported influenza-like illnesses has decreased in the past 4 weeks. Twenty virus isolations and some seroconversions were made for Influenza B. School absenteeism is returning to expected levels. Georgia has reported scattered outbreaks and three Influenza B isolations from the Atlanta area. One county has had increased school absenteeism. Florida and Mississippi are experiencing scattered outbreaks of upper respiratory illness, but no laboratory confirmations have been made.

### East North Central

Wisconsin and Ohio have reported scattered cases; five Influenza B isolations have been made in Wisconsin. Iowa has reported six seroconversions for Influenza A, type unknown. Indiana has experienced isolated cases, with no recent laboratory confirmations of Influenza A or B. East South Central

Kentucky has noted scattered cases of upper respiratory illness and five Influenza B seroconversions.

West North Central

In Minnesota, there have been isolated cases, with both Influenza A and B seroconversions.

West South Central

Texas has experienced scattered outbreaks, with a few Influenza B isolations.

Mountain

New Mexico has reported an outbreak at the Albuquerque Indian School, with laboratory confirmation of Influenza B.

Pacific

California, Oregon, and Washington have reported Influenza A/2 Hong Kong isolations. Los Angeles County has noted scattered outbreaks, with absenteeism in some schools reaching 20 percent; no schools have been closed. California has had 49 Influenza A isolations and four Influenza B seroconversions between Jan. 1 and March 13, 1971.

Hawaii has reported widespread activity, with 36 Influenza B and 21 Influenza A/2 Hong Kong isolations since January 1. Most of these isolations were made in the first 2 weeks of March. All islands have been affected, and the illness is moderately severe. There has been an increase in school absenteeism; no information was available regarding industrial absenteeism.

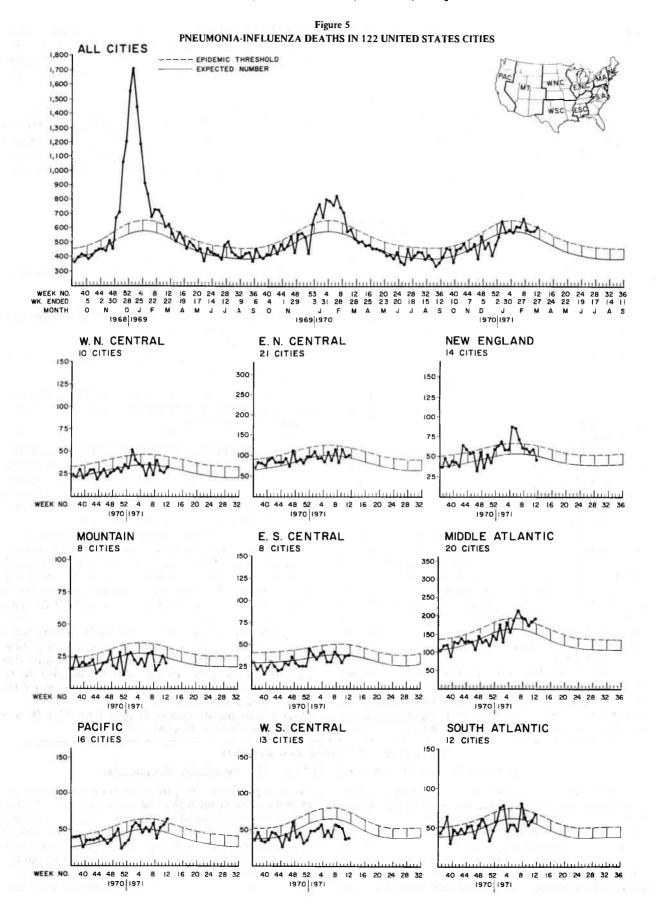
Pneumonia-influenza deaths and deaths from all causes in 122 U.S. cities are shown in Figures 5 and 6. Pneumoniainfluenza deaths for the country as a whole remain within the expected seasonal levels. The Pacific and Middle Atlantic regions show slight elevations above expected levels for the week ending March 27, 1971.

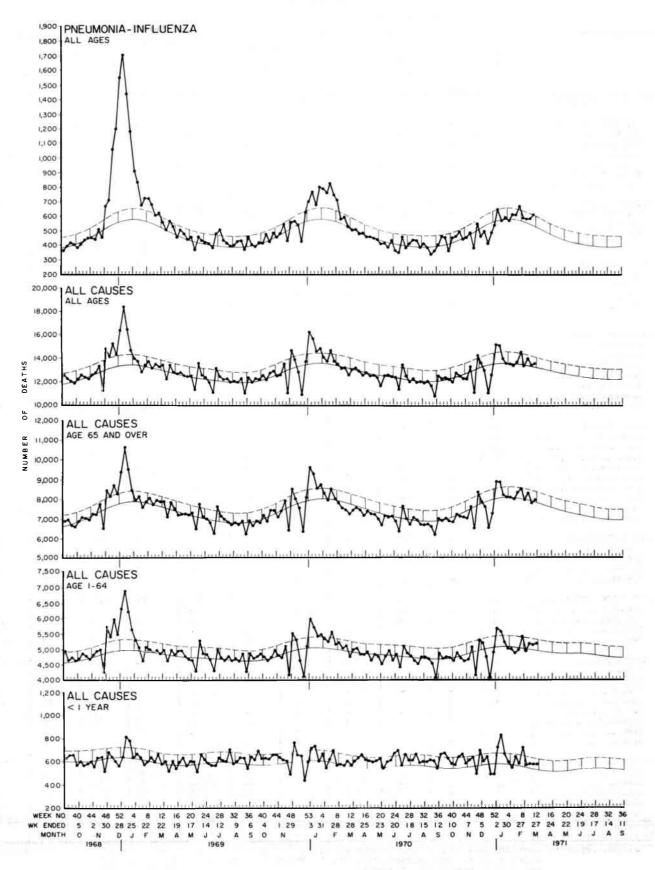
(Reported by the Respiratory Diseases Unit, Viral Diseases Branch, Epidemiology Program, CDC.)

## EPIDEMIOLOGIC NOTES AND REPORTS SEROGROUP A MENINGOCOCCAL MENINGITIS – Westminster, Massachusetts

On the afternoon of March 4, 1971, a 3-year-old infant from Westminster, Massachusetts, was found to have an exudative conjunctivitis. By 7:00 P.M. that evening, she had a temperature of  $103^{\circ}$ F. When seen by her pediatrician at a hospital in Fitchburg, Massachusetts, 3 hours later, she was in shock and had a widespread petechial rash. Lumbar puncture revealed grossly clear cerebrospinal fluid (CSF), although pleocytosis was found on microscopic examination. CSF sugar was 12 mg percent. The patient was started on intravenous ampicillin, but in spite of therapy, she died 4 hours later.

Smears of the surface of the brain at autopsy revealed numerous gram negative diplococci, and a CSF culture yielded *Neisseria meningitidis*, serogroup A. The serogroup was later confirmed at CDC, and the isolate was found to be sulfonamide-sensitive.





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

FOR WEEKS ENDED

MARCH 27, 1971 AND MARCH 28, 1970 (12th WEEK)

	ASEPTIC	BRUCEL-	DIPH-	El	CEPHALITI	S		HEPATITIS	1		
AREA	MENIN- GITIS	LOSIS	THERIA	-	including cases	Post In- fectious	Serum	Infect	ious	MALAI	
	1971	1971	1971	1971	1970	1971	1971	1971	1970	1971	Cum. 1971
UNITED STATES	28	2	_	16	14	13	177	1,243	994	75	902
NEW ENGLAND	-	-	-	1	2	1	15	104	88	3	28
Maine	-	_	-	-	-	- 1	-	9	15	-	2
New Hampshire	-	-	-	<u> </u>	-	-	-	1	3		1
Vermont Massachusetts	_	_	_	1	- 1	-	_ 5	6	3	-	1
Rhode Island*		_	-			-	5 1	39 20	39 17	3	18 3
Connecticut.	-	-	_	-	1	1	9	20	11	_	3
IDDLE ATLANTIC	2	1	-	3	1	-	62	223	171	7	93
New York City	1	-	-	<u> </u>	-	_	20 13	48	61 20	2	10
New York, Up-State New Jersey	<u></u>	-	_	1	<u>_</u>		19	62 72	38	3	21 41
Pennsylvania*	1	1	_	3	_	-	10	41	52	1	21
	5				3						
CAST NORTH CENTRAL	-		_	5	1	_	33 7	235 34	174 30	1	38
Indiana.*			-		1	_	1	34 12	12	-	9
Illinois	1	_	_	1	1	_	1	52	48		9
Michigan.	3	_	-	2	-	-	24	124	70	_	11
Wisconsin	1	-	-	-	-	-	-	13	14	-	7
JEST NORTH CENTRAL	1	_	_	-	-	4	9	72	37	6	72
Minnesota	1	-	-		-	4	-	9	3	_	5
Iowa.*		_	-	1 - 1		-	-	7	5	-	8
Missouri	-	-	-	-	-	-	5	28	9	4	17
North Dakota	-	2.10		-	-			2	-	-	-
South Dakota	-	- 2 -	-	-	E -	-	_	3	1	_	-
Nebraska Kansas	- 24			-	_	Ē	4	2 21	2 17	2	5 37
OUTH ATLANTIC	8	1	_	3	_	1	11	101	88	13	142
Delaware	-	_	-		-	_	_	3	1		-
Maryland.*	-	-	-	-	-	-	8	25	14	1	26
Dist. of Columbia	-	-	-	-	-	-	-	1	-	a —	-
Virginia.	-	1	-	(1)	-	-	1	13	22		18
West Virginia.* North Carolina.*	1	_	-	1		_	- 1	16 8	10 11	1	6 43
South Carolina			_			_	1	2	10	-	43 7
Georgia.			-		_	-		12	2	5	24
Florida	7			1	-	* <b>1</b> .	-	21	18	3	18
AST SOUTH CENTRAL	1	_	_	1	2	3	2	61	45	2	93
Kentucky	-	_	-	1	-	-	-	21	21	1	80
Tennessee	1	_	-		2	3	2	26	16	-	-
Alabama	-	_	-	-	-	-	-	5	1	1	13
Mississippi	-	-	-	-	-	-	-	9	7	-	-
EST SOUTH CENTRAL	6	-	-	-	-	1	16	166	105	14	189
Arkansas. Louisiana.	4	-	_	_		_	- 5	1	1 19	10	5
Oklahoma.	4	-	2	I	7	-	5	14	19	10	23 36
Texas.	2	-	_			1	10	137	74	1	125
						1.2.1	<i>c</i>	50	20		
OUNTAIN	-			1	27		6	58	28	17	65
Montana.	- 21						1.00	4	3	_	
Idaho	_	_	_	_	_	_		<u> </u>	1	2	2
Colorado.	_	_	_	_	_		2	16		15	46
New Mexico	_	-	-		-	-	-	1	6		- 40
Arizona.*	-	_	-	1	dirac -	-	-	19	10	-	7
Utah Nevada	-	-	-	= /8	1 T - 1	-	4	10 1	5		3
ACIFIC	5	- <del>-</del>		2	6	3	23	223	258	12	182
Washington	-	-	-	-	21	1	_	13	22	-	1
Oregon	-	-	-		-	-		24	15	-	6
California	5			2	4	2	23	186	215	12	153
Hawaii				L	1				5		1 21
uerto Rico*					_	_	_	6	15		2
irgin Islands	_	_	_			_		,			<u> </u>

\*Delayed reports: Aseptic meningitis: Pa. delete 2, Ariz. 1 Encephalitis, post-infectious: Md. 1 (1970) Hepatitis, serum: Md. 2 (1970) Hepatitis, infectious: Ind. delete 1, Md. 6 (1970), W.Va. 1, N.C. delete 1, P.R. 3 (1970)

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

## FOR WEEKS ENDED

MARCH 27, 1971 AND MARCH 28, 1970 (12th WEEK) - CONTINUED

	MEA	SLES (Rube	ola)	HENINGO	COCCAL INFI TOTAL	ECTIONS,	MUN	1PS	POI	LIOMYELITI	S
AREA		Cumul	ative		Cumula	tive	1	Cum.	Total	Para	
	1971	1971	1970	1971	1971	1970	1971	1971	1971	1971	Cum. 1971
UNITED STATES	3,263	23,595	13,128	63	796	828	4,559	42,326	1	1	3
EW ENGLAND	132	766	188	2	34	35	202	2,652	-	_	-
Maine. *	60	403	2	-	5	_	31	476	-	-	-
New Hampshire	1	23	13	1	4	3	3	258	-	_	
Vermont.	9	37	1	_	_	3		-	-	_	_
Massachusetts. *	21	179	128	-	13	12	65	711	-		
Rhode Island	_	22	14	-	2	3	51	614	-		
Connecticut	41	102	30	1	10	14	52	593	-	-	-
IDDLE ATLANTIC	306	2,554	1,898	7	104	136	258	3,005	-	_	_
New York City	199	1,552	279	-	14	32	60	504	-		-
New York, Up-State	18	211	69	3	32	24	NN	NN	-	-	-
New Jersey	43	220	848	3	29	51	84	876	-	_	-
Pennsylvania	46	571	702	1	29	29	114	1,625	-		11.12
AST NORTH CENTRAL	693	4,651	2,968	11	91	99	2,080	17,115	-	-	
Ohio	200	1,731	901	1	22	47	232	2,871	_	_	- 1
Indiana	130	537	118	_	4	10	375	2,447	-	_	_
Illinois	179	1,189	1,451	2	33	22	249	1,798	_	_	_
Michigan.	62	314	277	4	25	17	606	4,361	_	_	
Wisconsin.	122	880	221	4	7	3	618	5,638	-	_ 11	1.0
EST NORTH CENTRAL	360	1,950	1,276	3	70	43	254	2,365	-	_	
Minnesota	2	35	21	-	9	43	68	449			
Iowa.	117	517	48	_	6	4	139	1,376	_		
Missouri	189	724	216	_	26	33	16	130		_	
North Dakota.	2	86	91	-	2	1	18	167	_		
South Dakota	9	98	41	_	3	· -	8	124	_	540 E	
	í	11	819	1	8	1	<u> </u>	23	_		
Nebraska Kansas	40	479	40	2	16	ļ <u>-</u>	5	96	_		1
	255	2 600	1.005	0	115	102	240	2 402			
SOUTH ATLANTIC	355	2,608	1,965	9	115	182	248	3,123	1	1	- 10 C
Delaware	25	11	130	4	1.		2	58	-	-	
Maryland		47	271	_	15	15	13	294	-	-	1111
Dist. of Columbia	1	4	277	-	7	1	2	49	-	_	D- 017
Virginia	24 32	720	499	1	12	16	26	399	-		
West Virginia		160 868	79	- 1		4	81	942	-	_	1.00
North Carolina	130			1	18		NN 12	NN	-	-	
South Carolina	8 58	261	165		11	10 24	12	368		-	
Georgia Florida	77	103	2 320	1	11 39	77	112	1,012	1	1	u s <u>o</u> 1
	21.2	2 1 7 2	100		- F0	52	200	2 400			
AST SOUTH CENTRAL	21-2 123	3,173	186 104	1	59	52 16	300	3,498	_	1	
Kentucky	25	272	45	_	21	25	1			_	
Tennessee	39		1	1	12		140	1,665	-	-	1.10
Alabama. Mississippi	25	638 803	23	<u>_</u>	9	7	40	472	_	1	
	0.4.0	E AAC	2 202		-						
EST SOUTH CENTRAL	840	5,816	3,309	11	72	132	425	3,054	-		b = -1
Arkansas	10	81	16	-	2	14	_	19	_	-	
Louisiana	145	710	36	3	23	32	8	22	-		
Oklahoma Texas	54 631	524	101	8	6 41	9 77	24 393	102			
										_	
OUNTAIN	155	929	640	-	25	10	200	1,759	-	-	
Montana	20	288	10	-	1		18	229	-	-	
Idaho	29 10	114	5		2	2	3	94	-	-	-
Wyoming.		20	70	-	-	1	16	88	_		
Colorado	61 10	218 154	79	_	4	3	81 59	487	-	=	
New Mexico	10	93	466		8	2		284	-	1.01	-
Arizona*	15						23	500	-	_	1.1
Utah Nevada	-	42	4	1 ( <b>1</b> (	7	2	1 2	77	_	н. <u>Е</u> .,	- X -
1121122222											
ACIFIC	210 69	1,148	698 69	19	226 12	139	592	5,755		-	
Washington				3		18	264	2,849		-	
Oregon	16	93	112	1	13	10	42	530	-	-	1.1.1.1.1.1.1
California	125	705	475	15	199	110	286	2,058			D 3
Alaska. Hawaii		17	41		2	1		277	-	1	
uerto Rico	2	61	549	-	-	2	40	289	-		
	2	4	4			i i	1 1	1 1			

Mumps: Me. 8

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

## FOR WEEKS ENDED

## MARCH 27, 1971 AND MARCH 28, 1970 (12th WEEK) - CONTINUED

AREA	RUBE.	LLA	TETA	NUS	TULAR	EMIA	TYPH		TYPHUS TICK- (Rky. Mt.	1	RABIE	
	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971
UNITED STATES	1,699	13,542	4	17	-	22	1	59	-	4	125	961
NEW ENGLAND	60	483	-	-	- 1	_	-	2	_	-	19	75
Maine	16	111	-	-	-	-	-	_	- 1	-	19	70
New Hampshire	3	7	-		- 1	-	_	-	-	-		-
Vermont	1 30	14 249	_	-	-	-	-	-		-	-	5
Massachusetts	30	249			_	_	-	2	-	-	-	
Rhode Island Connecticut	7	76	-	-	_	_	-	-	=	-	-	-
MIDDLE ATLANTIC	86	832	-	4	-	_		6	-	1	4	54
New York City	16	122	-	4	-	-	-	3	-	-	-	-
New York, Up-State	29 18	212	-	-	-	-	-	2	-	-	4	53
New Jersey Pennsylvania	23	131 367	-	_	_	=		1	3 -	1	-	1
EAST NORTH CENTRAL	414	2,707	1	1	-	1	-	4	_	-	6	58
Ohio	26	362	1	1	-	1	-	3	-	-	-	9
Indiana	65	563	-	-	-	-	_	-	-	-	2	4
Illinois	132	439	-	-	-	-	-		-	-	-	15
Michigan Wisconsin	107 84	843 500	=	=	2	-	-	1		-	3 1	14 16
WEST NORTH CENTRAL	109	786	_	-	_	2	_	_	_	_	21	220
Minnesota	38	89	-	-	-		-	-	-	-	4	48
Iowa	23	228	-	-	-	-	-	-	-	-	1	68
Missouri	26	259	-	-	-	2	-	-	-	-	4	42
North Dakota	2	28	-	-	-	-	-	-	-	-	10	44
South Dakota	2	21	_	-	-	-	-	-	-	-	-	-
Nebraska Kansas	14	134	_	_	_	_	-	_	-	-	- 2	18
SOUTH ATLANTIC	72	979	3	7	-	12	-	14	-	1	9	110
Delaware	2	10	-		! –	-	-	1	-	-	-	_
Maryland	2	48	-	-	-	3	-	3	-	-	-	-
Dist. of Columbia	- 2	1 88	-	-	-	-	-	-	-	-	-	-
Virginia	13	137	_	_		5	-	1		-	1	32
West Virginia North Carolina	2	13	-	_	_	4		2	_	1	5	50
South Carolina	39	182		_	-			-	-	<u> </u>	_	_
Georgia.	-	-	2	2	-	-	-	1	-	_	1	14
Florida	12	500	1	5	-	-	-	5	-	-	2	14
EAST SOUTH CENTRAL	220	1,251	-	3	-	6	-	6	-	1	-17	120
Kentucky	111 100	566 573		1	-	2	-	2 2	-	_	10	68
Tennessee Alabama*	8	67	_	1	_	2	_	2	_		3 4	29
Mississippi	1	45	_	1	_	-	-	-	_	1	4	23
WEST SOUTH CENTRAL	300	2,194	_	-	-	-	-	5	-	1	36	215
Arkansas	24	224	-	-	-	-	-	-	-	-	3	17
Louisiana		52	-	-		-	-	3	-		1	8
Oklahoma. Texas	276	30 1,888	_	_	I	-	_	2		1 _	19 13	117 73
MOUNTAIN	48	1,002	_	—	_	1		2	_	_	-	1
Montana.	7	70	-	-	-	1	_	_	-	-	-	
Idaho	2	22	-	-	-	-	-	-	-	-	-	-
Wyoming	1	552	-	-	-	-	-	-	-	-		-
Colorado	11	117	-	-	-	-	-	-	-	-	-	-
New Mexico	26	105 114	_		-	-		2		-	-	-
Arizona. Utah.	1	22	_			_		-	[	-	_	1
Nevada	-	-	-	-	-	-	-	_	-	-	_	-
PACIFIC	390	3,308	-	2	-	-	1	20	_	_	13	108
Washington	40	610	-	-	-	-	-	—	-		-	-
Oregon	17	251	-	-	-			-	-	-	-	-
California	333	2,353 25	_	2		<b>.</b>	1	20	-	-	13	82
Alaska	Cet Milli	25 69				<b>7</b> 2		-		-		26
Hawaii		1		1				-	+			
Puerto Rico Virgin Islands	_	-	_		_	_		1	_		1	16

\*Delayed reports: Rubella: Va. delete 14 Tularemia: Ala. 2

Week No. 12

## TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MARCH 27, 1971

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

Area NEW ENGLAND: Boston, Mass Bridgeport, Conn Cambridge, Mass	All Car All Ages 687	65 years and over	Pneumonia and Influenza All Ages	l year	Area	All Ca All Ages	uses 65 years and over	Pneumonia and Influenza All Ages	Under 1 year All Causes
NEW ENGLAND: Boston, Mass Bridgeport, Conn	Ages 687	and over	and Influenza	l year All	Area			and Influenza	l year All
NEW ENGLAND: Boston, Mass Bridgeport, Conn	Ages 687	and over	Influenza	Å11	Area			Influenza	Å11
Boston, Mass Bridgeport, Conn	687					Ages	and over		
Boston, Mass Bridgeport, Conn									
Boston, Mass Bridgeport, Conn								<b></b>	
Bridgeport, Conn		419	46	31	SOUTH ATLANTIC:	1,254	671		- 42
Bridgeport, Conn	. 184	105	15	6	Atlanta, Ga	127	75	10	- 7
		21	1	2	Baltimore, Md	268	136	9	6
		21	6	-	Charlotte, N. C	57	25	-	2
Fall River, Mass		20	1	-	Jacksonville, Fla	79	35		7
		57	- 1	7		110	58		2
Hartford, Conn	1 40	13	1	2	Miami, Fla	58	28		2
Lowell, Mass			1	1	Norfolk, Va		57		3
Lynn, Mass		15			Richmond, Va	100			5
New Bedford, Mass		18	1	-	Savannah, Ga	49	23		
New Haven, Conn		30	-	5	St. Petersburg, Fla	109	95		1
Providence, R. I		32	6	3	Tampa, Fla	87	43		2
Somerville, Mass	-] 11 ]	8	-	-	Washington, D. C	160	72	7	2
Springfield, Mass	- 54	33	7	4	Wilmington, Del	50	24	-	2
Waterbury, Conn	- 27	15	-	1			•		
Worcester, Mass		31	6	-	EAST SOUTH CENTRAL:	707	390	39	37
					Birmingham, Ala	103	49		4
MIDDLE ATLANTIC:	3,551	2,099	191	115	Chattanooga, Tenn	53	32		3
		33	2	5		42	28		1
Albany, N. Y					Knoxville, Tenn				
Allentown, Pa		27			Louisville, Ky	111	67		4
Buffalo, N. Y		100	6	3	Memphis, Tenn	165	90		15
Camden, N. J		34	4	6	Mobile, Ala	54	33		1
Elizabeth, N. J		26	<u> </u>	-	Montgomery, Ala	61	30		2
Erie, Pa		35	5	1	Nashville, Tenn	118	61	4	7
Jersey City, N. J		47	-	-			1		
Newark, N. J		27	2	2	WEST SOUTH CENTRAL:	1,312	672	39	67
New York City, N. Y. <sup>1</sup>		1,031	92	59	Austin, Tex	52	25		2
Paterson, N. J		34	4	-	Baton Rouge, La	49	27		5
		274	2	21					
Philadelphia, Pa					Corpus Christi, Tex	21	12		2
Pittsburgh, Pa		106	15	5	Dallas, Tex	187	90		13
Reading, Pa		43	4	1	El Paso, Tex	55	21		9
Rochester, N. Y		103	21	4	Fort Worth, Tex	91	43		8
Schenectady, N. Y		15	4	-	Houston, Tex	253	117		8
Scranton, Pa	47	29	2	2	Little Rock, Ark	68	37	-	2
Syracuse, N. Y	- 76	41	2	4	New Orleans, La	161	79	7	3
Trenton, N. J		34	5	1	Oklahoma City, Okla	90	54		2
Utica, N. Y		27	6		San Antonio, Tex	156	87		5
Yonkers, N. Y		33	13	2 <del>4</del>	Shreveport, La	68	40		4
Tonkers, N. T.		55			Tulsa, Okla	61	40		4
EAST NORTH CENTRAL:	2,828	1,656	101	138	idisa, okia.	01	40	2	4
		46	1	2	MOUNTAIN	496	287	20	21
Akron, Ohio					MOUNTAIN:				21
Canton, Ohio		21		1	Albuquerque, N. Mex	37	23		1
Chicago, Ill		453	17	42	Colorado Springs, Colo.	28	13		2
Cincinnati, Ohio	- 167	93	4	11	Denver, Colo	132	74		9
Cleveland, Ohio		141	6	13	Ogden, Utah	16	11		
Columbus, Ohio	. 136	75	9	7	Phoenix, Ariz	139	80	3	6
Dayton, Ohio		69	2	3	Pueblo, Colo	29	14	3	
Detroit, Mich		243	15	15	Salt Lake City, Utah	52	35		3
Evansville, Ind		30	6	_	Tucson, Ariz	63	37		
Flint, Mich		34	5	4	,	03	1 - ''		
		20	4	3	PACIFIC:	1 0 3 4	1 1 1 4		
Fort Wayne, Ind	1			2		1,934	1,161		
Gary, Ind		15		2	Berkeley, Calif	17	12		
Grand Rapids, Mich		34	6	5	Fresno, Calif	69	43		1
Indianapolis, Ind		94	5	11	Glendale, Calif	48	38		-
Madison, Wis		13	5	5	Honolulu, Hawaii	45	27		3
Milwaukee, Wis		118	1	1	Long Beach, Calif	126	84		2
Peoria, Ill	- 52	26	1	6	Los Angeles, Calif	649	363		26
Rockford, Ill		20	2	1	Oakland, Calif	116	77		7
South Bend, Ind	1	27	5	-	Pasadena, Calif	47	32		-
Toledo, Ohio	1 444	64	5	6	Portland, Oreg	139	86		5
	1 10	20	1 1	2	Sacramento, Calif	83	55		
Youngstown, Ohio	1	l -~	1 '	<b>1</b>				1	3
LINGT MODELL CONTRACT	077	515		4.1	San Diego, Calif	129	74		9
WEST NORTH CENTRAL:	833	515	33	41	San Francisco, Calif	173	89		6
Des Moines, Iowa		29	5	6	San Jose, Calif	45	28		1
Duluth, Minn	26	17	-	2	Seattle, Wash	145	85		6
Kansas City, Kans		18	2	3	Spokane, Wash	46	33	2	
Kansas City, Mo		75	1	5	Tacoma, Wash	- 57	35	5	2
Lincoln, Nebr		28	4	1			<u>†                                    </u>	1	
Minneapolis, Minn		76	3	4	Total	13,602	7,870	604	564
		52	2	2			+ .,	+	
Omeha Noby		150	7	13	Expected Number	13 374	7 765	E 20	E 20
Omaha, Nebr		39	2	4		13,274	7,765	529	528
St. Louis, Mo					Cumulative Total		1	1	1
St. Louis, Mo St. Paul, Minn		21	7	1 1					
St. Louis, Mo	1 10	31	- 7	1	(includes reported corrections	167,681	98,114	7,142	7,469
St. Louis, Mo St. Paul, Minn	1 10	31	7	1	(includes reported corrections for previous weeks)	167,681	98,114	7,142	7,469
St. Louis, Mo St. Paul, Minn	1 10	31	7		for previous weeks) *Mortality data are being collected	from Las Vega	s, Nev., for p	ossible inclusio	on in this
St. Louis, Mo St. Paul, Minn, Wichita, Kans	46	-			for previous weeks) *Mortality data are being collected	from Las Vega	s, Nev., for p	ossible inclusio	on in this
St. Louis, Mo St. Paul, Minn	1 10	31	7	1	for previous weeks)	from Las Vega ons, these data	s, Nev., for p will be listed	ossible inclusion only and not in	on in this icluded in

+Delayed Report for Week ended March 20, 1971

### **MENINGITIS** – (Continued from page 103)

Household contacts of the patient included the mother, father, and two siblings. All were treated with a 5-day course of oral penicillin. Cultures of throat specimens from the household members 2 weeks after prophylactic therapy revealed no N. meningitidis.

The patient's grandmother, a frequent visitor in the home, was known to have been in Quebec 6 months previously. It is interesting to note that several provinces in Canada have reported cases of serogroup A meningococcal disease in the past year (MMWR, Vol. 19, No. 49), suggesting a possible source for the patient's infection.

(Reported by Cyril Bergman, M.D., and Walter Pick, M.D.,

private pediatricians, Fitchburg, Massachusetts; Robert L. McAuley, M.D., Chief of Pathology, Burbank Hospital, Fitchburg, Massachusetts; Nicholas J. Fiumara, M.D., Director, Division of Communicable Diseases, Massachusetts Department of Public Health; and the Laboratory Division, CDC.)

### **Editorial Note**

This is the first reported case of serogroup A meningococcal disease in the United States in 1971. Two cases were reported in 1970, one from Nashua, New Hampshire, and the other from Olympia, Washington. As in the present case, the isolates were sulfonamide-sensitive.

### FOLLOW-UP ON SEPTICEMIA ASSOCIATED WITH CONTAMINATED **INTRAVENOUS FLUID FROM ABBOTT LABORATORIES**

Between Oct. 1, 1970, and March 31, 1971, 405 cases of septicemia due to Erwinia (herbicola lathyri group) and/or Enterobacter cloacae have occurred in association with Abbott intravenous (IV) fluid and have now been reported to CDC. No cases have been reported with onsets after March 22, when a recall of Abbott IV products was issued by the Food and Drug Administration (FDA) (MMWR, Vol. 20, No. 11).

The entire contents of 1,825 1-liter bottles have been cultured; the caps had been carefully removed in a laminar flow hood. Laboratory results showed 13 (0.7 percent) positive for Erwinia or E. cloacae. Both species of organisms have now been isolated from elastomer cap liners manufactured at both Abbott plants and from environmental samples of the plants.

Hospitals that have difficulty obtaining non-Abbott IV fluid should contact the nearest FDA office for assistance.

(Reported by the Bacterial Diseases Branch, Epidemiology Program, CDC.)

The Morbidity and Mortality Weekly Report, circulation 22,800, is published by the Center for Disease Control, Atlanta, Ga.

**Director, Center for Disease Control** Director, Epidemiology Program, CDC Editor, MMWR

Philip S. Brachman, M.D. Michael B. Gregg, M.D.

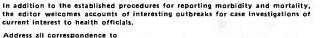
David J. Sencer, M.D.

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 the succeeding Friday.

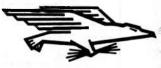
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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