



# Morbidity and Mortality

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

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CONTENTS 1A 1971  
MAY

**INTERNATIONAL NOTES**  
**SMALLPOX - Worldwide**

May 14, 1971, marks the 175th anniversary of the first vaccination against smallpox. On May 14, 1796, Dr. Edward Jenner inoculated James Phipps with material from a cowpox sore on the hand of Sarah Nelmes, a milkmaid. Seven weeks later Phipps was inoculated with material from a smallpox pustule, but no disease developed.

The widespread use of smallpox vaccine has resulted in major changes in smallpox patterns. In the first 150 years after Jenner's work, smallpox incidence was greatly reduced in many parts of the world. As late as 1945, however, the majority of the world, including the United States, was still considered endemic for smallpox. In the past 25 years there have been not only continuing reductions in incidence but also elimination of

International Notes

Smallpox - Worldwide	163
Epidemiologic Notes and Reports	
Needle-Induced Malaria - North Carolina	164
Needle-Induced Malaria - Illinois	164
Measles - Connecticut	164
Influenza B - Alaska	165

smallpox from large geographic areas. The number of countries reporting smallpox decreased from 91 in 1945 to 42 in 1967. Furthermore, initiation of a worldwide Smallpox Eradication Program in 1967 accelerated this trend. The number of countries reporting smallpox decreased to 38 in 1968, 30 in 1969, and 23 in 1970. By the end of 1971, it is estimated that only six countries will remain endemic for smallpox.

(Reported by the Smallpox Eradication Program, CDC.)

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

DISEASE	18th WEEK ENDED		MEDIAN 1966 - 1970	CUMULATIVE, FIRST 18 WEEKS		
	May 8, 1971	May 9, 1970		1971	1970	MEDIAN 1966 - 1970
Aseptic meningitis	38	37	32	830	495	515
Brucellosis	2	1	1	44	56	56
Diphtheria	33	12	3	64	120	51
Encephalitis, primary:						
Arthropod-borne & unspecified	17	25	23	389	360	358
Encephalitis, post-infectious	5	5	9	107	153	187
Hepatitis, serum	190	150	78	3,007	2,368	1,344
Hepatitis, infectious	1,165	1,110	796	21,675	19,618	15,038
Malaria	84	69	35	1,310	1,189	762
Measles (rubeola)	3,584	1,931	1,931	44,310	24,007	24,007
Meningococcal infections, total	44	54	61	1,199	1,211	1,314
Civilian	40	46	55	1,028	1,082	1,185
Military	4	8	8	171	129	129
Mumps	4,121	3,373	---	66,613	49,428	---
Poliomyelitis, total	—	—	—	6	2	6
Paralytic	—	—	—	4	2	5
Rubella (German measles)	1,631	3,150	2,519	24,488	33,324	26,373
Tetanus	3	2	2	27	30	36
Tularemia	—	—	1	28	31	32
Typhoid fever	10	2	6	88	77	85
Typhus, tick-borne (Rky. Mt. spotted fever)	3	6	5	14	11	11
Rabies in animals	94	72	84	1,625	1,213	1,400

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

	Cum.		Cum.
Anthrax	—	Psittacosis	11
Botulism	—	Rabies in Man	1
Leprosy: Calif.-1, S.C.-1, Tex.-1	45	Rubella congenital syndrome: S.C.-1	27
Leptospirosis	11	Trichinosis	28
Plague	—	Typhus, murine: La.-1	3

**EPIDEMIOLOGIC NOTES AND REPORTS**  
**NEEDLE-INDUCED MALARIA – North Carolina**

On Feb. 18, 1971, a 20-year-old serviceman at Ft. Bragg, North Carolina, experienced the onset of fever, chills, and headache. Because these symptoms persisted, he entered a military hospital on February 25. At that time, *Plasmodium vivax* were seen on a peripheral blood smear. On March 1, his 18-year-old roommate also experienced the onset of fever and chills. He entered a military outpatient clinic, and *P. vivax* were seen in his blood smear.

Neither patient had ever traveled outside the United States or received blood transfusions; however, both admitted to occasionally using heroin intravenously. They frequently shared injection equipment between themselves and with another roommate, a 21-year-old serviceman who had returned from Vietnam in January 1970. This latter soldier had been treated for malaria while in Vietnam. After his return, he experienced many attacks of a malaria-like illness characterized by fever and chills, but he did not seek medical attention. He reported that he rarely took the prescribed chloroquine-primaquine tablets while in Vietnam and did not take any after his return to the United States. Several peripheral blood

smears examined in mid-March were negative for malaria parasites. His serum, however, when tested by the indirect fluorescent antibody (IFA) test for malaria, gave end-point dilution titers of 1:256 against *P. vivax*, 1:64 against *P. falciparum*, and 1:16 against *P. malariae* antigens.

Twenty-four needle-sharing contacts were identified by the patients and the suspect index case. Nineteen of these were interviewed and received presumptive treatment with chloroquine phosphate. Blood samples were drawn for preparation of thick and thin smears and IFA testing; all results were negative. No other cases of malaria associated with this outbreak have been reported.

(Reported by Capt. Robert M. Giller, MC, Assistant Chief, Preventive Medicine Officer, Lt. Col. Raphael DiNapoli, MC, Chief, Preventive Medicine Activity, Division of Meddac, Ft. Bragg, North Carolina; and an EIS Officer.)

**Editorial Note**

This is the fourth outbreak of needle-induced malaria associated with heroin use reported since July 1970, and the second such incident reported from Ft. Bragg.

**NEEDLE-INDUCED MALARIA – Illinois**

On March 19, 1971, a 37-year-old man was admitted to a Chicago hospital due to blunt trauma to the head and abdomen. On admission, his temperature was 102° F. Rales and ronchi were heard on chest examination, and he received penicillin, but the fever persisted. The patient said he had been a prisoner of war in Korea in 1953 and had been addicted to heroin since then. The initial cultures of blood, urine, and sputum specimens as well as peripheral blood smears were negative for malaria parasites. On March 26, however, *Plasmodium vivax* parasites were seen on a repeat peripheral blood smear. The patient made an uneventful recovery after treatment with chloroquine phosphate.

The patient had not traveled outside the United States recently or received blood transfusions. He said he had not recently shared his injection equipment, but he did name two

contacts. Neither contact could be located. No other cases of needle-induced malaria have been reported in the Chicago area since that time.

(Reported by David Baldwin, M.D., attending physician, Rush-Presbyterian-St. Luke's Hospital; Olga Brolnitsky, M.D., Chief Epidemiologist, Murray C. Brown, M.D., Commissioner, Chicago Board of Health; and an EIS Officer.)

**Editorial Note**

The natural duration of *P. vivax* infection is usually no longer than 3 years; therefore, the likelihood that this infection was acquired in Korea is extremely remote. Despite no documentation of the patient having shared needles with malaria-infected heroin users, he undoubtedly acquired his infection this way.

**MEASLES – Connecticut**

Between Jan. 23 and April 19, 1971, 131 cases of measles occurred in Waterbury, Connecticut (Figure 1). A total of 108 of these cases (82.5 percent) were reported from one school district, District 11 (Figure 2). Seventy-five percent (81) of the District 11 cases occurred in school-age children, with the highest attack rates occurring in the kindergarten and first grades (Table 1).

A survey of school health records in this district showed that the prior level of immunity against measles in the children was 83.5 percent. Of 694 children in grades kindergarten through sixth, 252 (36.2 percent) had received measles vaccine and 328 (47.3 percent) had a history of measles. Surveys of families indicated that 65.8 percent of the preschool children in District 11 had received vaccine and none had previously had measles.

Five children in this district who contracted measles had previously received live measles vaccine. Three had re-

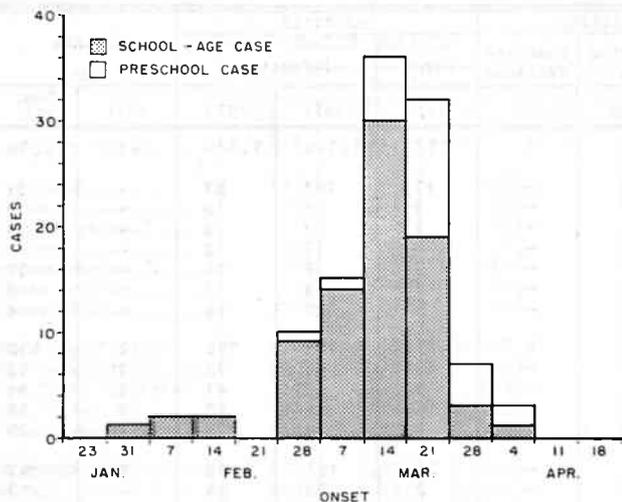
**Table 1**  
**Measles Attack Rates, by Grade – School District 11**  
**Waterbury, Connecticut – Feb. 1-March 31, 1971**

Grade	Number of Children	Number of Cases	Attack Rate (Percent)
K*	87	14	16.1
1	116	18	15.5
2	99	9	9.1
3	89	7	7.9
4	103	4	3.9
5	109	10	9.2
6	91	12	13.2
Total	694	74**	10.6

\*Kindergarten

\*\*Seven additional cases occurred in school children above grade 6.

**Figure 1**  
**MEASLES CASES, BY WEEK OF ONSET**  
**SCHOOL DISTRICT NUMBER 11**  
**WATERBURY, CONNECTICUT - JAN. 31-APRIL 4, 1971**



ceived vaccine with immune globulin before the age of 1. An 8-year-old girl who had received live vaccine with globulin at age 10½ months experienced encephalitis with measles in this

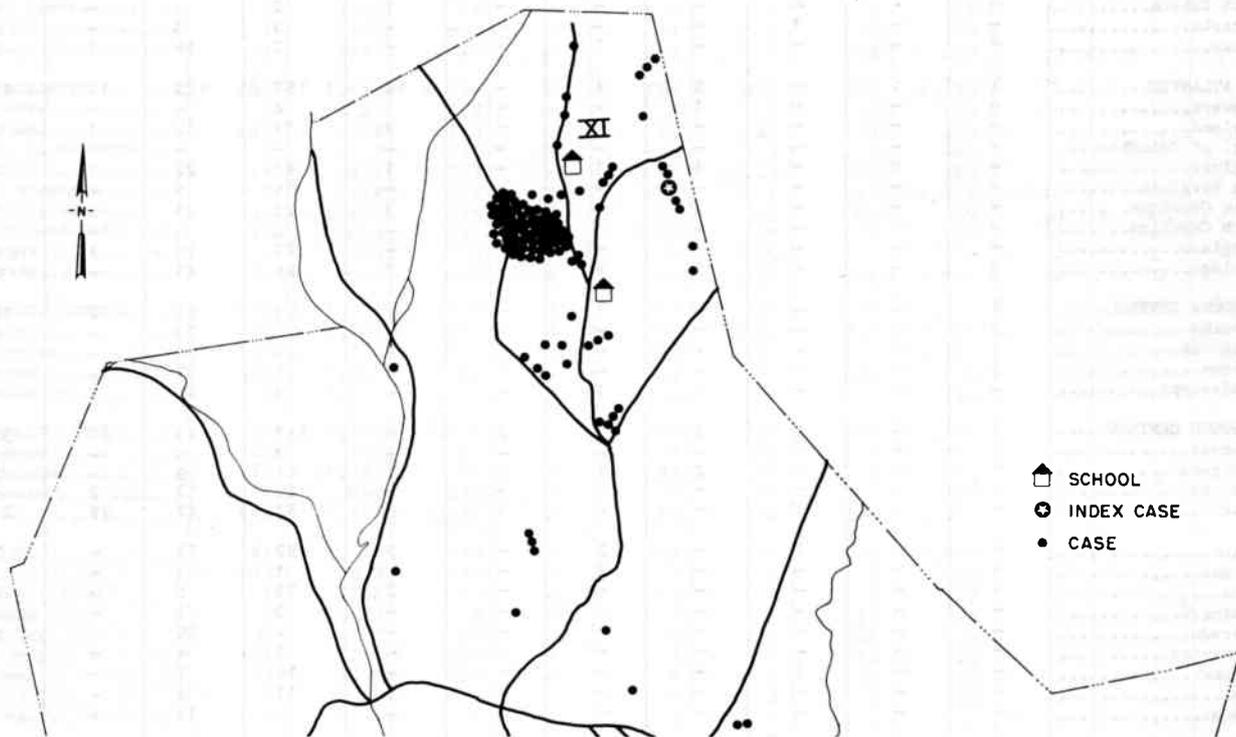
**Table 2**  
**Measles Attack Rates, by Immunization Status**  
**Kindergarten through Sixth Grades - School District 11**  
**Waterbury, Connecticut - Feb. 1-March 31, 1971**

	Number of Children	Number of Cases	Attack Rate (Percent)
Vaccinated	252	5	2.0
Unvaccinated and Susceptible	114	69	60.5
History of Measles	328	0	0
<b>Total</b>	<b>694</b>	<b>74</b>	<b>10.6</b>

outbreak. Among previously vaccinated schoolchildren in District 11, the measles attack rate was 2 percent; the attack rate in unvaccinated children was 60.5 percent (Table 2). Vaccine efficacy was calculated to be 96.7 percent.

(Reported by Paul W. Teiger, M.D., pediatrician, Waterbury, Connecticut; Joan R. Bradley, R.N., Director, Public Health Nurses, Waterbury, Connecticut; Garland Weidner, M.D., Director of Health, City of Waterbury, Connecticut; Jack Miller, Immunization Chief, James C. Hart, M.D., Director, Division of Preventable Diseases, Connecticut State Department of Health; and an EIS Officer.)

**Figure 2**  
**GEOGRAPHIC DISTRIBUTION OF MEASLES CASES\***  
**WATERBURY, CONNECTICUT - JAN. 31-APRIL 4, 1971**



\*Two cases from southwest Waterbury are not shown.

**INFLUENZA B - Alaska**

Between Feb. 23 and April 7, 1971, an outbreak of influenza occurred in Skagway, Alaska, a semi-isolated community of 700 people in the southeast part of the State. In-

formation was available on 174 persons who reported being ill in this period.

(Continued on page 170)

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED  
MAY 8, 1971 AND MAY 9, 1970 (18th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPH- THERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post In- fectious	Serum	Infectious		1971	Cum. 1971
				1971	1970	1971		1971	1970		
UNITED STATES.....	38	2	3	17	25	5	190	1,165	1,110	84	1,310
NEW ENGLAND.....	6	-	-	1	2	-	17	101	87	-	41
Maine.....*	-	-	-	-	-	-	7	8	10	-	2
New Hampshire.....*	-	-	-	-	2	-	1	7	2	-	1
Vermont.....	-	-	-	-	-	-	-	13	2	-	1
Massachusetts.....	1	-	-	-	-	-	3	39	45	-	30
Rhode Island.....	-	-	-	-	-	-	1	14	14	-	3
Connecticut.....	5	-	-	1	-	-	5	20	14	-	4
MIDDLE ATLANTIC.....	1	-	-	4	3	2	77	181	196	12	130
New York City.....	-	-	-	-	-	-	43	46	70	1	12
New York, Up-State...	-	-	-	1	1	-	9	52	41	4	34
New Jersey.....*	-	-	-	-	-	-	16	49	60	5	59
Pennsylvania.....	1	-	-	3	2	2	9	34	25	2	25
EAST NORTH CENTRAL.....	5	1	-	2	8	-	21	195	188	5	57
Ohio.....	-	1	-	1	6	-	2	29	54	-	12
Indiana.....	1	-	-	-	-	-	-	14	12	2	5
Illinois.....	-	-	-	1	1	-	3	49	44	2	13
Michigan.....	4	-	-	-	-	-	16	95	68	1	20
Wisconsin.....	-	-	-	-	1	-	-	8	10	-	7
WEST NORTH CENTRAL.....	-	-	1	-	1	-	4	40	47	4	104
Minnesota.....	-	-	-	-	-	-	3	8	6	-	12
Iowa.....	-	-	-	-	-	-	-	3	15	-	12
Missouri.....	-	-	-	-	-	-	-	12	5	-	18
North Dakota.....	-	-	-	-	-	-	-	5	2	-	-
South Dakota.....	-	-	-	-	-	-	1	2	-	-	-
Nebraska.....	-	-	1	-	-	-	-	3	3	-	6
Kansas.....	-	-	-	-	1	-	-	7	16	4	56
SOUTH ATLANTIC.....	3	1	-	5	4	-	14	157	122	11	198
Delaware.....	-	-	-	1	-	-	1	4	-	-	1
Maryland.....	-	-	-	-	-	-	2	31	12	1	34
Dist. of Columbia....	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	-	1	-	1	1	-	1	43	22	1	23
West Virginia.....	-	-	-	-	-	-	-	15	5	-	6
North Carolina.....	-	-	-	2	-	-	3	23	31	8	70
South Carolina.....	-	-	-	-	1	-	-	2	1	-	9
Georgia.....	-	-	-	-	-	-	-	13	10	1	33
Florida.....	3	-	-	1	2	-	7	26	41	-	22
EAST SOUTH CENTRAL.....	9	-	-	-	1	-	1	51	63	2	106
Kentucky.....	3	-	-	-	-	-	-	10	22	-	88
Tennessee.....	4	-	-	-	-	-	1	26	14	-	-
Alabama.....	2	-	-	-	-	-	-	11	17	-	14
Mississippi.....	-	-	-	-	1	-	-	4	10	2	4
WEST SOUTH CENTRAL.....	1	-	1	2	1	2	10	117	73	31	331
Arkansas.....	-	-	-	-	-	-	-	3	-	-	11
Louisiana.....	1	-	-	2	1	1	1	11	9	-	30
Oklahoma.....*	-	-	-	-	-	-	-	10	17	2	48
Texas.....	-	-	1	-	-	1	9	93	47	29	242
MOUNTAIN.....	-	-	1	-	2	-	3	52	72	-	77
Montana.....	-	-	-	-	2	-	-	1	3	-	1
Idaho.....	-	-	-	-	-	-	2	12	5	-	3
Wyoming.....	-	-	-	-	-	-	-	3	1	-	1
Colorado.....	-	-	-	-	-	-	-	-	35	-	54
New Mexico.....	-	-	-	-	-	-	-	9	4	-	6
Arizona.....	-	-	1	-	-	-	-	16	7	-	8
Utah.....	-	-	-	-	-	-	1	11	4	-	3
Nevada.....	-	-	-	-	-	-	-	-	13	-	1
PACIFIC.....	13	-	-	3	3	1	43	271	262	19	266
Washington.....	-	-	-	-	-	-	1	44	36	-	1
Oregon.....	-	-	-	-	-	-	-	41	15	-	8
California.....	13	-	-	3	3	1	42	174	187	18	230
Alaska.....	-	-	-	-	-	-	-	2	3	-	3
Hawaii.....	-	-	-	-	-	-	-	10	21	1	24
Puerto Rico.....*	-	-	-	-	-	-	-	18	20	-	13
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-

\*Delayed reports: Encephalitis, post-infectious: Okla. 1

Hepatitis, serum: Me. 1

Hepatitis, infectious: N.H. 1, N.J. delete 1, Wyo. delete 1, P.R. 14

Malaria: Iowa 3, Okla. 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MAY 8, 1971 AND MAY 9, 1970 (18th WEEK) — CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	1971	Cumulative		1971	Cumulative		1971	Cum. 1971	Total	Paralytic	
		1971	1970		1971	1970			1971	1971	Cum. 1971
UNITED STATES.....	3,584	44,310	24,007	44	1,199	1,211	4,121	66,613	-	-	4
NEW ENGLAND.....	137	1,822	342	2	51	48	193	3,953	-	-	-
Maine.....*	55	824	12	-	7	1	57	754	-	-	-
New Hampshire.....*	1	101	15	2	8	5	10	502	-	-	-
Vermont.....	14	76	2	-	-	5	-	-	-	-	-
Massachusetts.....*	12	216	245	-	19	18	62	979	-	-	-
Rhode Island.....	-	33	15	-	2	3	25	886	-	-	-
Connecticut.....	55	572	53	-	15	16	39	832	-	-	-
MIDDLE ATLANTIC.....	428	4,718	3,067	4	147	211	233	4,418	-	-	-
New York City.....	202	2,704	535	-	24	50	64	907	-	-	-
New York, Up-State...	29	315	123	-	38	42	NN	NN	-	-	-
New Jersey.....	83	566	1,245	1	38	80	41	1,237	-	-	-
Pennsylvania.....	114	1,133	1,164	3	47	39	128	2,274	-	-	-
EAST NORTH CENTRAL.....	657	8,676	5,554	6	124	138	1,810	27,157	-	-	-
Ohio.....	109	2,650	2,191	2	34	62	513	5,429	-	-	-
Indiana.....	188	1,429	188	-	8	14	259	3,789	-	-	-
Illinois.....	57	1,928	2,028	3	41	31	152	2,750	-	-	-
Michigan.....	108	873	649	1	33	27	262	6,198	-	-	-
Wisconsin.....	195	1,796	498	-	8	4	624	8,991	-	-	-
WEST NORTH CENTRAL.....	357	4,591	2,138	3	107	60	291	4,289	-	-	-
Minnesota.....	1	47	26	2	16	7	99	759	-	-	-
Iowa.....	201	1,747	80	-	7	7	145	2,292	-	-	-
Missouri.....	84	1,553	793	1	41	41	5	542	-	-	-
North Dakota.....	8	157	238	-	4	2	9	233	-	-	-
South Dakota.....	1	186	74	-	5	-	7	162	-	-	-
Nebraska.....	7	30	882	-	11	2	4	64	-	-	-
Kansas.....	55	871	45	-	23	1	22	237	-	-	-
SOUTH ATLANTIC.....	466	4,698	4,542	8	188	265	202	4,783	-	-	1
Delaware.....	5	27	197	-	1	3	8	93	-	-	-
Maryland.....	243	308	973	-	27	25	17	384	-	-	-
Dist. of Columbia...	3	7	310	1	8	1	1	65	-	-	-
Virginia.....	46	876	1,161	-	16	23	52	580	-	-	-
West Virginia.....	7	274	154	1	3	5	64	1,255	-	-	-
North Carolina.....	54	1,452	475	4	31	53	NN	NN	-	-	-
South Carolina.....	48	664	349	-	16	27	2	609	-	-	-
Georgia.....	9	174	4	-	11	28	-	1	-	-	-
Florida.....	51	916	919	2	75	100	58	1,796	-	-	1
EAST SOUTH CENTRAL.....	560	5,975	532	4	111	91	179	5,335	-	-	-
Kentucky.....	92	2,761	315	1	35	34	23	1,881	-	-	-
Tennessee.....	89	542	149	2	38	35	135	2,747	-	-	-
Alabama.....	372	1,341	39	-	22	17	20	617	-	-	-
Mississippi.....	7	1,331	29	1	16	5	1	90	-	-	-
WEST SOUTH CENTRAL.....	558	9,479	5,636	6	108	176	385	5,250	-	-	1
Arkansas.....	28	303	20	-	4	15	4	46	-	-	-
Louisiana.....*	78	1,365	51	4	38	44	8	112	-	-	-
Oklahoma.....*	10	660	240	-	6	11	4	139	-	-	-
Texas.....	442	7,151	5,325	2	60	106	369	4,953	-	-	1
MOUNTAIN.....	181	2,112	994	1	31	18	176	2,811	-	-	-
Montana.....	103	822	14	-	2	-	9	318	-	-	-
Idaho.....	1	158	17	-	2	3	2	107	-	-	-
Wyoming.....	8	72	8	-	1	1	22	192	-	-	-
Colorado.....	20	558	99	-	5	5	56	906	-	-	-
New Mexico.....	11	218	127	1	3	-	42	448	-	-	-
Arizona.....	33	202	703	-	8	7	45	756	-	-	-
Utah.....	5	79	19	-	9	2	-	84	-	-	-
Nevada.....	-	3	7	-	1	-	-	-	-	-	-
PACIFIC.....	240	2,239	1,202	10	332	204	652	8,617	-	-	2
Washington.....	97	637	147	-	14	31	245	3,955	-	-	1
Oregon.....	21	214	133	2	20	17	35	831	-	-	1
California.....	110	1,309	852	7	293	155	338	3,296	-	-	-
Alaska.....	-	8	21	-	-	-	6	64	-	-	-
Hawaii.....	12	71	49	1	5	1	28	471	-	-	-
Puerto Rico.....	17	173	699	1	1	3	37	573	-	-	-
Virgin Islands.....	-	5	5	-	-	1	5	9	-	-	-

\*Delayed reports: Measles: Me. 30, N.H. delete 1, Mass. delete 7, La. 1, Okla 9  
Meningococcal infections: N.H. 1  
Mumps: Me. 11, N.H. 1, Okla. 4

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MAY 8, 1971 AND MAY 9, 1970 (18th WEEK) — CONTINUED

AREA	RUBELLA		TETANUS		TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971
UNITED STATES.....	1,631	24,488	3	27	—	28	10	88	3	14	94	1,625
NEW ENGLAND.....	68	950	—	—	—	—	—	4	—	—	14	131
Maine.....	10	181	—	—	—	—	—	—	—	—	14	124
New Hampshire.....	6	27	—	—	—	—	—	—	—	—	—	1
Vermont.....	7	53	—	—	—	—	—	—	—	—	—	6
Massachusetts.....	24	435	—	—	—	—	—	4	—	—	—	—
Rhode Island.....	3	54	—	—	—	—	—	—	—	—	—	—
Connecticut.....	18	200	—	—	—	—	—	—	—	—	—	—
MIDDLE ATLANTIC.....	131	1,608	—	4	—	—	4	13	—	1	—	70
New York City.....	35	292	—	4	—	—	2	5	—	—	—	—
New York, Up-State..	11	292	—	—	—	—	—	5	—	—	—	68
New Jersey.....	36	358	—	—	—	—	2	2	—	—	—	—
Pennsylvania.....	49	666	—	—	—	—	—	1	—	1	—	2
EAST NORTH CENTRAL....	463	5,001	—	4	—	1	2	8	—	1	11	132
Ohio.....	58	588	—	1	—	1	1	5	—	—	4	35
Indiana.....	78	956	—	1	—	—	—	—	—	—	7	28
Illinois.....	16	885	—	2	—	—	1	1	—	1	—	23
Michigan.....	246	1,706	—	—	—	—	—	2	—	—	—	25
Wisconsin.....	65	866	—	—	—	—	—	—	—	—	—	21
WEST NORTH CENTRAL....	54	1,947	2	3	—	4	—	—	—	—	23	387
Minnesota.....	—	205	—	1	—	—	—	—	—	—	2	76
Iowa.....	34	454	—	—	—	—	—	—	—	—	8	106
Missouri.....	2	924	2	2	—	4	—	—	—	—	3	69
North Dakota.....	9	78	—	—	—	—	—	—	—	—	3	68
South Dakota.....	2	32	—	—	—	—	—	—	—	—	3	29
Nebraska.....	5	45	—	—	—	—	—	—	—	—	—	—
Kansas.....	2	209	—	—	—	—	—	—	—	—	4	39
SOUTH ATLANTIC.....	105	1,894	—	8	—	12	—	19	1	5	15	184
Delaware.....	—	36	—	—	—	—	—	1	—	—	—	—
Maryland.....	6	84	—	1	—	3	—	3	—	—	—	—
Dist. of Columbia...	—	3	—	—	—	—	—	—	—	—	—	—
Virginia.....	3	115	—	—	—	5	—	1	—	—	2	49
West Virginia.....	30	326	—	—	—	—	—	2	—	—	2	72
North Carolina.....	3	19	—	—	—	4	—	3	—	2	—	—
South Carolina.....	5	358	—	—	—	—	—	1	3	—	—	—
Georgia.....	—	—	—	2	—	—	—	2	—	—	6	40
Florida.....	58	953	—	5	—	—	—	7	—	—	5	23
EAST SOUTH CENTRAL....	149	2,094	—	5	—	6	—	6	1	3	2	181
Kentucky.....	59	886	—	—	—	2	—	2	1	1	2	100
Tennessee.....	70	1,026	—	2	—	2	—	2	—	1	—	53
Alabama.....	13	117	—	2	—	2	—	2	—	—	—	28
Mississippi.....	7	65	—	1	—	—	—	—	—	1	—	—
WEST SOUTH CENTRAL....	148	3,557	1	1	—	3	2	8	1	3	17	377
Arkansas.....	7	296	—	—	—	1	—	—	—	—	2	35
Louisiana.....	1	253	—	—	—	1	1	5	—	—	—	15
Oklahoma.....	3	46	—	—	—	1	—	—	1	3	9	196
Texas.....	137	2,962	1	1	—	—	1	3	—	—	6	131
MOUNTAIN.....	54	1,527	—	—	—	2	—	2	—	1	2	13
Montana.....	2	102	—	—	—	1	—	—	—	—	—	—
Idaho.....	3	32	—	—	—	—	—	—	—	—	—	—
Wyoming.....	5	828	—	—	—	—	—	—	—	—	—	5
Colorado.....	12	171	—	—	—	—	—	—	—	1	—	—
New Mexico.....	8	171	—	—	—	—	—	—	—	—	—	3
Arizona.....	23	182	—	—	—	—	—	2	—	—	1	4
Utah.....	1	28	—	—	—	1	—	—	—	—	—	—
Nevada.....	—	13	—	—	—	—	—	—	—	—	1	1
PACIFIC.....	459	5,910	—	2	—	—	2	28	—	—	10	150
Washington.....	58	913	—	—	—	—	—	—	—	—	—	—
Oregon.....	43	464	—	—	—	—	—	—	—	—	—	—
California.....	353	4,411	—	2	—	—	2	28	—	—	10	122
Alaska.....	2	35	—	—	—	—	—	—	—	—	—	28
Hawaii.....	3	87	—	—	—	—	—	—	—	—	—	—
Puerto Rico.....	1	9	1	3	—	—	—	1	—	—	—	25
Virgin Islands.....	—	—	—	—	—	—	—	—	—	—	—	—

\* Delayed reports: Rubella: Me. 8

Rabies in animals: Wis. 1

# Morbidity and Mortality Weekly Report

169

Week No. **TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MAY 8, 1971**

18

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

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
<b>NEW ENGLAND:</b>	655	408	45	28	<b>SOUTH ATLANTIC:</b>	1,140	628	37	39
Boston, Mass.-----	193	107	11	8	Atlanta, Ga.-----	120	54	4	3
Bridgeport, Conn.-----	33	18	3	1	Baltimore, Md.-----	231	128	3	6
Cambridge, Mass.-----	36	24	15	2	Charlotte, N. C.-----	39	21	-	4
Fall River, Mass.-----	22	17	-	1	Jacksonville, Fla.-----	78	44	-	6
Hartford, Conn.-----	49	23	-	4	Miami, Fla.-----	114	66	-	4
Lowell, Mass.-----	25	14	-	3	Norfolk, Va.-----	49	28	6	2
Lynn, Mass.-----	21	17	1	1	Richmond, Va.-----	90	49	4	5
New Bedford, Mass.-----	20	13	1	1	Savannah, Ga.-----	37	22	4	-
New Haven, Conn.-----	46	27	1	1	St. Petersburg, Fla.-----	88	74	3	1
Providence, R. I.-----	62	39	6	3	Tampa, Fla.-----	65	37	5	3
Somerville, Mass.-----	15	10	1	-	Washington, D. C.-----	171	74	7	1
Springfield, Mass.-----	42	35	5	-	Wilmington, Del.-----	58	31	1	4
Waterbury, Conn.-----	32	22	-	2	<b>EAST SOUTH CENTRAL:</b>	649	367	29	30
Worcester, Mass.-----	59	42	1	1	Birmingham, Ala.-----	87	49	3	9
<b>MIDDLE ATLANTIC:</b>	3,404	1,984	141	102	Chattanooga, Tenn.-----	65	33	6	3
Albany, N. Y.-----	55	34	1	2	Knoxville, Tenn.-----	33	19	-	5
Allentown, Pa.-----	45	27	4	2	Louisville, Ky.-----	122	73	14	-
Buffalo, N. Y.-----	148	72	6	6	Memphis, Tenn.-----	162	89	3	5
Camden, N. J.-----	47	23	2	6	Mobile, Ala.-----	47	31	1	1
Elizabeth, N. J.-----	43	23	-	2	Montgomery, Ala.-----	41	20	2	2
Erie, Pa.-----	38	20	5	3	Nashville, Tenn.-----	92	53	-	5
Jersey City, N. J.-----	59	32	1	3	<b>WEST SOUTH CENTRAL:</b>	1,232	623	39	90
Newark, N. J.-----	62	31	4	4	Austin, Tex.-----	44	23	5	1
New York City, N. Y.-----	1,783	1,048	72	42	Baton Rouge, La.-----	54	24	-	3
Paterson, N. J.-----	58	33	2	5	Corpus Christi, Tex.-----	32	15	-	4
Philadelphia, Pa.-----	488	291	8	9	Dallas, Tex.-----	187	98	5	13
Pittsburgh, Pa.-----	168	87	9	8	El Paso, Tex.-----	43	15	2	7
Reading, Pa.-----	48	28	1	-	Fort Worth, Tex.-----	80	36	5	7
Rochester, N. Y.-----	124	86	11	3	Houston, Tex.-----	227	91	4	14
Schenectady, N. Y.-----	36	25	4	2	Little Rock, Ark.-----	48	29	2	5
Scranton, Pa.-----	38	16	-	-	New Orleans, La.-----	165	86	2	13
Syracuse, N. Y.-----	75	47	2	2	Oklahoma City, Okla.-----	87	46	1	10
Trenton, N. J.-----	31	18	8	1	San Antonio, Tex.-----	130	75	1	9
Utica, N. Y.-----	24	16	1	2	Shreveport, La.-----	67	43	9	1
Yonkers, N. Y.-----	34	27	-	-	Tulsa, Okla.-----	68	42	3	3
<b>EAST NORTH CENTRAL:</b>	2,672	1,482	71	134	<b>MOUNTAIN:</b>	508	279	24	30
Akron, Ohio-----	73	46	-	8	Albuquerque, N. Mex.-----	66	33	10	2
Canton, Ohio-----	32	13	3	1	Colorado Springs, Colo.-----	31	18	2	2
Chicago, Ill.-----	677	367	13	29	Denver, Colo.-----	130	72	3	11
Cincinnati, Ohio-----	173	98	4	12	Ogden, Utah-----	16	11	1	-
Cleveland, Ohio-----	201	86	3	19	Phoenix, Ariz.-----	104	53	-	-
Columbus, Ohio-----	183	100	-	9	Pueblo, Colo.-----	27	19	4	3
Dayton, Ohio-----	110	62	-	5	Salt Lake City, Utah-----	70	35	3	8
Detroit, Mich.-----	389	209	11	11	Tucson, Ariz.-----	64	38	1	4
Evansville, Ind.-----	39	25	3	3	<b>PACIFIC:</b>	1,557	946	29	63
Flint, Mich.-----	47	29	4	3	Berkeley, Calif.-----	21	13	-	-
Fort Wayne, Ind.-----	49	31	2	2	Fresno, Calif.-----	51	24	1	3
Gary, Ind.-----	37	19	3	2	Glendale, Calif.-----	27	23	1	-
Grand Rapids, Mich.-----	63	52	3	2	Honolulu, Hawaii-----	34	11	-	2
Indianapolis, Ind.-----	126	60	1	14	Long Beach, Calif.-----	101	68	1	1
Madison, Wis.-----	54	28	8	3	Los Angeles, Calif.-----	432	278	10	13
Milwaukee, Wis.-----	140	86	6	3	Oakland, Calif.-----	95	46	2	2
Peoria, Ill.-----	46	27	2	2	Pasadena, Calif.-----	36	24	1	1
Rockford, Ill.-----	31	20	1	-	Portland, Oreg.-----	128	86	2	6
South Bend, Ind.-----	31	17	-	2	Sacramento, Calif.-----	62	35	1	2
Toledo, Ohio-----	100	57	2	4	San Diego, Calif.-----	96	53	-	9
Youngstown, Ohio-----	71	50	2	2	San Francisco, Calif.-----	205	112	5	12
<b>WEST NORTH CENTRAL:</b>	858	513	24	46	San Jose, Calif.-----	42	27	-	2
Des Moines, Iowa-----	50	32	2	4	Seattle, Wash.-----	130	85	4	6
Duluth, Minn.-----	38	28	3	1	Spokane, Wash.-----	51	32	-	2
Kansas City, Kans.-----	39	15	2	4	Tacoma, Wash.-----	46	29	1	2
Kansas City, Mo.-----	129	75	5	4	<b>Total</b>	12,675	7,230	439	562
Lincoln, Nebr.-----	19	10	-	-	<b>Expected Number</b>	12,841	7,431	455	512
Minneapolis, Minn.-----	124	76	3	8	<b>Cumulative Total</b> (includes reported corrections for previous weeks)	244,774	142,599	10,180	10,739
Omaha, Nebr.-----	86	58	4	4					
St. Louis, Mo.-----	243	140	-	13					
St. Paul, Minn.-----	80	49	1	5					
Wichita, Kans.-----	50	30	4	3					
Las Vegas, Nev.*	23	9	-	1					

\*Mortality data are being collected from Las Vegas, Nev., for possible inclusion in this table, however, for statistical reasons, these data will be listed only and not included in the total, expected number, or cumulative total, until 5 years of data are collected.

† Delayed Report for Week ended May 1, 1971

## INFLUENZA B — (Continued from page 165)

The illness was characterized by rapid onset of fever (86 percent), headache (78 percent), and malaise (71 percent), followed by dry cough (74 percent), sore throat (64 percent), coryza (60 percent), and anorexia (79 percent). Less frequent symptoms included vomiting (46 percent), mild diarrhea (46 percent), and myalgia (40 percent). The illness usually lasted less than 1 week.

Peak incidence occurred on March 15, when school absenteeism reached 59 percent (Figure 3); the younger age groups were the most frequently affected (Table 3). Virus

isolations from 7 of 9 throat cultures have been identified as Influenza B.

Widespread outbreaks of respiratory illness were reported from many areas in Alaska in March. Twelve isolations of Influenza B have been reported from elsewhere in the State since March 1.

Table 3  
Distribution of Influenza Cases, by Age  
Skagway, Alaska — Feb. 23-April 7, 1971

Age Group	Number Ill	Number Not Ill	Percent
0-9	48	13	79
10-19	51	5	91
20-29	26	12	68
30-39	15	16	48
40-49	18	9	67
50-59	12	7	63
60-69	7	3	70
70-79	2	4	33
Unknown	5	6	45
Total	174	75	70

Figure 3  
INFLUENZA CASES, BY DATE OF ONSET  
SKAGWAY, ALASKA — FEB. 23-APRIL 7, 1971

