

Morbidity and Mortality

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Weekly
Report

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

Prepared by the **COMMUNICABLE DISEASE CENTER** 634-5131

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ATLANTA 22, GEORGIA

Vol. 12, No. 20

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED MAY 18, 1963

BRUCELLOSIS - The incidence of human brucellosis cases in the United States thus far during 1963 continues the decline noted since 1947. Through the 20th week, 131 cases have been reported; notably 69, over fifty per cent of these, have been recorded in Iowa.

Cumulative cases for the first 20 weeks for 1959-1963 in the United States and for Iowa alone, and total U. S. cases for the years 1959-1962 are shown in the table below.

Cases Through 20th Week	1963	1962	1961	1960	1959
United States	131	148	213	332	290
Iowa	69	37	77	187	79
Annual Total -					
United States		412*	636	751	892

EPIDEMIOLOGICAL REPORTS

Shigellosis - Washington State

An outbreak of shigellosis was recognized in a town in southwestern Washington State when school absenteeism rose sharply in three of the town's elementary schools on February 1, 1963 (Fig. 1). There was no significant change in the number of absentees at other schools in the vicinity.

Following recognition of the outbreak, an extensive case study was conducted on children absent on Friday, February 1, from the three schools. Twenty (71 percent) of 28 stool cultures obtained from suspect cases were positive for *Shigella sonnei*. Subsequently, 89 percent of those families with children absent on February 1 were interviewed by telephone, or in person, four days and again three weeks after the acute illness. A 10 percent

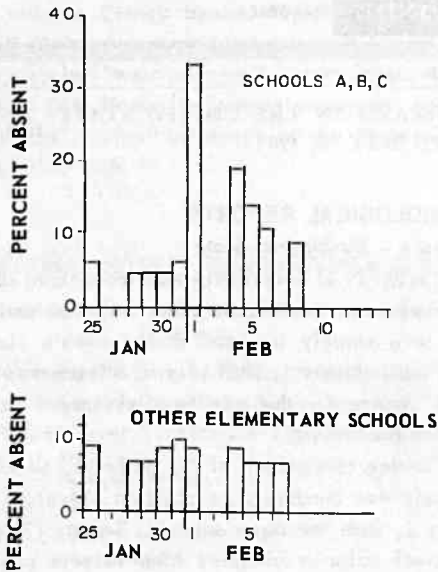
Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous week)

Disease	20th Week			Cumulative		
	Ended	Ended	Median 1958 - 1962	First 20 weeks		
	May 18, 1963	May 19, 1962		1963	1962	Median 1958 - 1962
Aseptic meningitis.....	36	22	---	443	375	---
Brucellosis.....	8	8	16	131	148	272
Diphtheria.....	3	7	7	109	190	286
Encephalitis, infectious.....	31	25	28	566	564	564
Hepatitis, infectious and serum.....	759	1,023	930	19,578	26,266	15,559
Measles.....	16,204	20,601	15,376	263,473	333,933	283,157
Meningococcal infections.....	50	44	44	1,173	984	1,099
Poliomyelitis, total.....	2	8	18	50	123	299
Paralytic.....	2	8	14	45	92	215
Nonparalytic.....	-	-	2	2	15	52
Unspecified.....	-	-	2	3	16	32
Streptococcal sore throat and Scarlet fever.....	7,069	6,773	---	183,904	167,243	---
Tetanus.....	3	7	---	75	60	---
Tularemia.....	2	3	---	72	92	---
Typhoid fever.....	5	13	13	136	159	206
Typhus fever, tick-borne, (Rocky Mountain spotted).....	5	5	---	12	19	---
Rabies in Animals.....	102	100	68	1,587	1,723	1,646

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

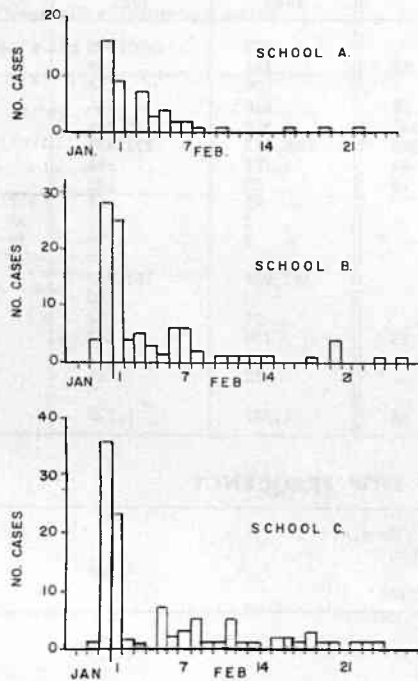
Anthrax:	Cum.	Psittacosis: Oreg.-1	Cum.
Botulism:	1	Rabies in Man:	25
Malaria: N.Y.-1, Pa.-1, Iowa-1, Calif.-2	5	Smallpox:	-
Plague:	39	Typhus, murine:	3
	-		

FIGURE I
PERCENT ABSENTEEISM
SIX ELEMENTARY SCHOOLS
 January-February 1963



sample of those present in school on February 1 was contacted in addition. By these means, a total of 137 primary cases in school children and 105 secondary cases in their families have been discovered to date. The epidemic curves for cases from the three schools are shown in Figure 2.

FIGURE II
CASES OF SHIGELLOSIS BY DATE OF ONSET
THREE ELEMENTARY SCHOOLS
 January-February 1963



The abrupt peak of cases in the three schools on January 31 suggested a common source exposure. A school lunch seemed to be the most probable source. School lunches served at the three affected schools (A, B, and C) are prepared at school B and distributed to the other two schools. Secondary cases, in families of primary cases, occurred as early as February 4.

A significant difference in attack rates was found between those children who customarily eat lunch at the school and those who do not eat lunch, as shown in the table below:

		Total No.	No. Ill	Percent Attack Rate
School A	Ate Lunch	91	45	50
	Did not eat Lunch	103	10	10
School B	Ate Lunch	122	56	46
	Did not eat Lunch	90	2	2
School C	Ate Lunch	33	23	70
	Did not eat Lunch	46	1	2
Total	Ate Lunch	246	124	50
	Did not eat Lunch	239	13	5

The clinical illness was characterized by abrupt onset with high fever, diarrhea, vomiting and severe abdominal cramps. Most children recovered in 3-5 days, but a small number of cases have had repeated bouts of diarrhea after 1-3 days of well-being. The table below shows the frequency of symptoms in 75 cases where this information was obtained:

Symptom	No. With Symptom	Percent With Symptom
Abdominal cramps	68	91
Diarrhea	71	95
Fever	64	85
Nausea	52	69
Headache	51	68
Chills	41	54
Vomiting	38	51
Muscle Aching	23	31
Bloody stool	10	13

The three food handlers at School B were cultured 10 days after onset of the epidemic. Two had negative cultures. The third, whose culture was positive for *Shigella sonnei*, had not eaten any of the lunches and denied having clinical symptoms of gastroenteritis. This food handler did not assist in the preparation of the meals, but only transported prepared food from the kitchen to one of the three schools.

Although no single food item or source of contamination could be implicated with certainty, the epidemic curve with the abrupt onset and the high attack rates for

those students eating school lunches indicate that this was a common source, food-borne outbreak.

(Reported by Dr. E. A. Ager, Head, Communicable Disease Control, and Dr. W. R. Giedt, Acting Head of Laboratories, Washington State Department of Health; and a team from the Communicable Disease Center.)

Salmonella Derby Infections in Hospitals

The interstate hospital-associated outbreak of *Salmonella derby* infections (See MMWR, Vol. 12, p. 159) appears to be subsiding, with the onset of the last known primary case on May 10. Cases have been investigated and identified as hospital-acquired in 14 hospitals in 5 States, and are tabulated below. A total of 64 cases are clearly related to hospitalization. There have been three deaths among these patients.

S. DERBY - PRIMARY CASES

Hospital	Hospital-Associated Cases	Date of Onset	Deaths
NEW YORK			
1	6	3/16-3/29	0
2	3	4/20-4/26	0
3	6	4/14-5/2	1
4	2	3/25-4/2	0
5	7	3/10-5/10	0
6	6	4/21-5/6	0
7	2	4/7-4/26	0
NEW JERSEY			
8	1	4/13	0
INDIANA			
9	1	4/10	0
PENNSYLVANIA			
10	3	4/11-5/1	1
11	4	4/16-4/21	0
12	1	5/8	0
13	21	3/3-4/22	1
CONNECTICUT			
14	1	5/2	0
TOTAL	64		3

To date in 1963, 128 other isolations of *S. derby* have been reported to the Salmonella Surveillance Unit of the CDC. Seventy-nine of these have been investigated and are probably not hospital-associated cases. The remaining 49 isolations are being investigated.

In one of the hospitals, secondary cases have continued to occur among patients. A total of 77 isolations have now been reported from 51 cases and 26 asymptomatic carriers, with approximately 60 percent from patients admitted for diseases other than gastroenteritis. The remaining 40 percent has been reported from the staff personnel.

Non-human isolations of *S. derby* have been made primarily from poultry and swine during the past year. There has been no significant change in this pattern during the recent months.

Investigations are continuing in an attempt to identify a vehicle common to these 14 hospitals.

(Reported by Dr. Harold Fuerst, New York City Health Department; Dr. Robert Albrecht, New York State Department of Health; Dr. Sylvan Fish, Philadelphia Department of Public Health; Dr. Wm. Schrack, Pennsylvania State Department of Health; Dr. Wm. J. Dougherty, New Jersey State Department of Health; Dr. A. L. Marshall, Jr., Indiana State Department of Health; Dr. Mila E. Rindge, Connecticut State Department of Health; other State Public Health personnel; and teams from the Communicable Disease Center.)

Equine Influenza - Follow-up Report

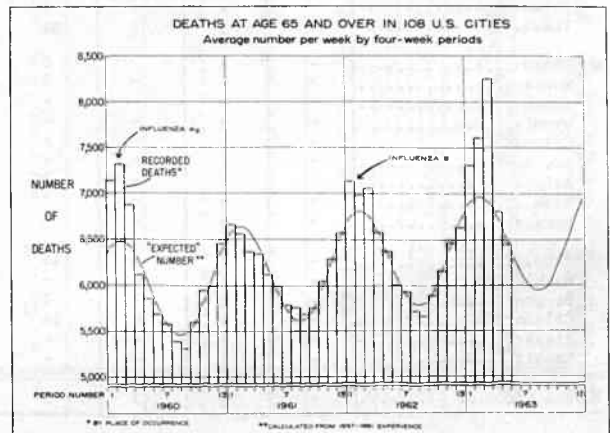
Reports of equine influenza (See MMWR, Vol. 12, Page 157) continued to come in from Illinois, Michigan, Ohio, Pennsylvania, New York and Massachusetts during the past week. The disease still has not been reported West of the Mississippi River. Most of the new cases are being seen in horses that have not been racing previously, and the disease is also being seen at horse shows. There is no evidence of transmission of the infection to man although this is still under investigation.

(Continued on page 172)

SUMMARY OF DEATHS AMONG PERSONS 65 YEARS AND OVER IN 108 U. S. CITIES

The weekly average number of deaths among persons 65 years and over in 108 cities for the four-week period ending May 18 was 6,452 as compared with an expected weekly average of 6,513.

	WEEK ENDING				4 Week Total	Weekly Average
	4/27	5/4	5/11	5/18		
Observed	6,688	6,519	6,366	6,233	25,806	6,452
Expected	6,607	6,545	6,481	6,418	26,051	6,513
Excess	81	-26	-115	-185	-245	-61



(See table, page 171)

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED

MAY 18, 1963 AND MAY 19, 1962

Area	Poliomyelitis, total cases				Poliomyelitis, paralytic				Poliomyelitis, nonparalytic		Aseptic Meningitis	
	20th week		Cumulative First 20 weeks		20th week		Cumulative First 20 weeks		20th week		20th week	
	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962
UNITED STATES.....	2	8	50	123	2	8	45	92	-	-	36	22
NEW ENGLAND.....	-	-	-	1	-	-	-	1	-	-	-	1
Maine.....	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	1
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island.....	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	1	-	-	-	1	-	-	-	-
MIDDLE ATLANTIC.....	-	-	6	30	-	-	6	17	-	-	1	2
New York.....	-	-	4	30	-	-	4	17	-	-	1	-
New Jersey.....	-	-	1	-	-	-	1	-	-	-	-	-
Pennsylvania.....	-	-	1	-	-	-	1	-	-	-	-	2
EAST NORTH CENTRAL.....	1	-	13	10	1	-	11	6	-	-	5	2
Ohio.....	-	-	4	4	-	-	3	4	-	-	-	1
Indiana.....	-	-	1	3	-	-	-	2	-	-	-	-
Illinois.....	-	-	5	2	-	-	5	-	-	-	1	1
Michigan.....	-	-	2	-	-	-	2	-	-	-	4	-
Wisconsin.....	1	-	1	1	1	-	1	-	-	-	-	-
WEST NORTH CENTRAL.....	-	-	1	7	-	-	1	4	-	-	1	1
Minnesota.....	-	-	-	1	-	-	-	1	-	-	-	1
Iowa.....	-	-	-	3	-	-	-	2	-	-	1	-
Missouri.....	-	-	1	3	-	-	1	1	-	-	-	-
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	-	-	-	-	-
Kansas.....	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	-	1	6	11	-	1	5	9	-	-	7	4
Delaware.....	-	-	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia..	-	-	-	1	-	-	-	-	-	-	4	-
Virginia.....	-	-	1	2	-	-	1	2	-	-	1	1
West Virginia.....	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina.....	-	-	2	2	-	-	2	2	-	-	-	-
South Carolina.....	-	-	-	-	-	-	-	-	-	-	-	1
Georgia.....	-	-	1	2	-	-	-	2	-	-	-	-
Florida.....	-	1	2	4	-	1	2	3	-	-	2	2
EAST SOUTH CENTRAL.....	-	-	3	3	-	-	2	2	-	-	6	3
Kentucky.....	-	-	-	1	-	-	-	1	-	-	5	2
Tennessee.....	-	-	1	1	-	-	1	-	-	-	1	-
Alabama.....	-	-	2	1	-	-	1	1	-	-	-	-
Mississippi.....	-	-	-	-	-	-	-	-	-	-	-	1
WEST SOUTH CENTRAL.....	1	5	12	40	1	5	12	36	-	-	9	1
Arkansas.....	-	-	-	1	-	-	-	1	-	-	-	-
Louisiana.....	1	-	10	5	1	-	10	5	-	-	-	-
Oklahoma.....	-	-	-	-	-	-	-	-	-	-	2	-
Texas.....	-	5	2	34	-	5	2	30	-	-	7	1
MOUNTAIN.....	-	-	-	6	-	-	-	5	-	-	-	1
Montana.....	-	-	-	2	-	-	-	1	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-	-
Colorado.....	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico.....	-	-	-	-	-	-	-	-	-	-	-	-
Arizona.....	-	-	-	3	-	-	-	3	-	-	-	1
Utah.....	-	-	-	1	-	-	-	1	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	-	2	9	15	-	2	8	12	-	-	7	7
Washington.....	-	-	-	-	-	-	-	-	-	-	-	-
Oregon.....	-	1	1	1	-	1	1	1	-	-	-	-
California.....	-	1	8	14	-	1	7	11	-	-	7	7
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	-	-	2	5	-	-	2	5	-	-	-	-

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MAY 18, 1963 AND MAY 19, 1962 - (Continued)

Area	Brucellosis		Diphtheria		Encephalitis, infectious		Hepatitis, infectious and serum				Measles	
	20th week	Cumulative 20 weeks	20th week	Cumulative 20 weeks	20th week		20th week			20th week		
							Under 20 yr.	20 & over	Total			
	1963	1963	1963	1963	1963	1962	1963	1963	1963	1962	1963	1962
UNITED STATES.....	8	131	3	109	31	25	370	323	759	1,023	16,204	20,601
NEW ENGLAND.....	-	-	-	4	1	2	35	25	64	55	715	2,659
Maine.....	-	-	-	-	-	-	16	6	22	22	22	295
New Hampshire.....	-	-	-	-	-	-	4	2	7	7	5	43
Vermont.....	-	-	-	-	-	-	-	-	-	-	57	90
Massachusetts.....	-	-	-	2	-	-	10	12	24	21	248	1,023
Rhode Island.....	-	-	-	2	1	2	1	1	3	-	64	130
Connecticut.....	-	-	-	-	-	-	4	4	8	5	319	1,078
MIDDLE ATLANTIC.....	-	4	-	19	5	9	56	62	118	187	1,996	4,412
New York.....	-	3	-	13	2	6	33	41	74	80	759	2,283
New Jersey.....	-	-	-	1	-	-	6	9	15	38	711	1,711
Pennsylvania.....	-	1	-	5	3	3	17	12	29	69	526	418
EAST NORTH CENTRAL.....	-	10	1	11	3	3	79	40	121	189	6,336	3,283
Ohio.....	-	-	1	1	1	-	22	9	32	57	621	791
Indiana.....	-	1	-	3	-	-	16	5	21	23	320	352
Illinois.....	-	8	-	3	1	-	10	9	19	48	580	756
Michigan.....	-	1	-	3	1	3	30	15	45	57	2,076	955
Wisconsin.....	-	-	-	1	-	-	1	2	4	4	2,739	429
WEST NORTH CENTRAL.....	7	95	1	31	-	-	24	21	55	58	985	1,133
Minnesota.....	-	7	-	15	-	-	4	-	7	19	80	101
Iowa.....	7	69	-	1	-	-	2	2	5	19	529	851
Missouri.....	-	4	-	1	-	-	11	9	22	10	168	14
North Dakota.....	-	-	-	1	-	-	-	-	-	2	204	160
South Dakota.....	-	4	1	9	-	-	4	3	7	2	2	3
Nebraska.....	-	5	-	4	-	-	1	2	7	1	2	4
Kansas.....	-	6	-	-	-	-	2	5	7	5	NN	NN
SOUTH ATLANTIC.....	-	2	1	20	6	3	49	26	81	174	1,329	1,181
Delaware.....	-	-	-	-	-	-	-	-	-	-	27	16
Maryland.....	-	-	-	-	3	-	11	2	13	14	100	108
District of Columbia..	-	-	-	-	2	-	1	-	1	4	5	36
Virginia.....	-	-	-	-	-	-	7	6	19	32	323	356
West Virginia.....	-	-	-	1	-	-	12	7	19	19	612	457
North Carolina.....	-	1	-	1	-	1	7	7	14	74	66	50
South Carolina.....	-	-	1	4	-	-	2	-	2	-	128	39
Georgia.....	-	-	-	6	-	-	-	1	1	5	-	37
Florida.....	-	1	-	8	1	2	9	3	12	26	68	119
EAST SOUTH CENTRAL.....	-	3	-	9	1	-	37	39	77	107	724	1,490
Kentucky.....	-	-	-	-	-	-	8	7	15	18	323	133
Tennessee.....	-	2	-	2	1	-	19	12	32	45	335	1,119
Alabama.....	-	1	-	7	-	-	7	6	13	34	52	134
Mississippi.....	-	-	-	-	-	-	3	14	17	10	14	104
WEST SOUTH CENTRAL.....	1	9	-	13	2	-	26	20	46	76	749	2,153
Arkansas.....	1	3	-	1	-	-	2	3	5	11	49	4
Louisiana.....	-	-	-	2	-	-	8	2	10	16	3	6
Oklahoma.....	-	2	-	5	1	-	-	1	1	6	17	37
Texas.....	-	4	-	5	1	-	16	14	30	43	680	2,106
MOUNTAIN.....	-	4	-	1	1	-	10	12	63	40	1,622	1,420
Montana.....	-	-	-	-	-	-	3	5	9	5	65	291
Idaho.....	-	-	-	-	-	-	-	-	9	1	187	35
Wyoming.....	-	1	-	-	-	-	-	-	-	3	16	5
Colorado.....	-	-	-	-	-	-	1	3	23	12	699	465
New Mexico.....	-	-	-	1	-	-	4	2	6	11	NN	NN
Arizona.....	-	2	-	-	-	-	-	-	12	4	577	338
Utah.....	-	1	-	-	1	-	2	2	4	4	73	286
Nevada.....	-	-	-	-	-	-	-	-	-	-	5	-
PACIFIC.....	-	4	-	1	12	8	54	78	134	137	1,748	2,870
Washington.....	-	-	-	-	1	1	9	18	28	15	211	842
Oregon.....	-	1	-	-	-	-	9	6	16	23	185	695
California.....	-	3	-	1	11	7	33	53	86	94	1,283	1,167
Alaska.....	-	-	-	-	-	-	2	-	2	4	23	59
Hawaii.....	-	-	-	-	-	-	1	1	2	1	46	107
Puerto Rico.....	-	-	1	9	-	-	14	5	19	18	11	140

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED

MAY 18, 1963 AND MAY 19, 1962 - (Continued)

Area	Meningococcal Infections		Streptococcal Sore Throat & Scarlet Fever		Tetanus	Tickborne Typhus (Rocky Mt. Spotted)	Tularemia	Typhoid Fever		Rabies in Animals		
	20th wk.	Cumulative 20 weeks	20th week	week	20th wk.	20th wk.	20th wk.	20th wk.	Cumulative 20 weeks	20th week	week	Cumulative 20 weeks
	1963	1963	1963	1962	1963	1963	1963	1963	1963	1963	1962	1963
UNITED STATES.....	50	1,173	7,069	6,773	3	5	2	5	136	102	100	1,587
NEW ENGLAND.....	3	77	879	526	-	-	-	1	6	5	-	17
Maine.....	-	12	56	21	-	-	-	-	-	-	-	1
New Hampshire.....	-	2	14	6	-	-	-	-	-	5	-	12
Vermont.....	-	2	2	22	-	-	-	-	1	-	-	4
Massachusetts.....	1	37	126	91	-	-	-	1	4	-	-	-
Rhode Island.....	1	7	46	47	-	-	-	-	-	-	-	-
Connecticut.....	1	17	635	339	-	-	-	-	1	-	-	-
MIDDLE ATLANTIC.....	9	170	505	391	-	-	-	-	17	-	2	42
New York.....	-	75	291	182	-	-	-	-	13	-	1	31
New Jersey.....	2	25	110	78	-	-	-	-	1	-	-	-
Pennsylvania.....	7	70	104	131	-	-	-	-	3	-	1	11
EAST NORTH CENTRAL.....	7	188	792	670	1	1	-	-	7	11	32	240
Ohio.....	2	54	107	75	1	-	-	-	2	7	23	144
Indiana.....	1	24	101	100	-	-	-	-	1	-	5	24
Illinois.....	1	25	145	114	-	1	-	-	2	2	4	33
Michigan.....	1	61	263	184	-	-	-	-	1	2	-	26
Wisconsin.....	2	24	176	197	-	-	-	-	1	-	-	13
WEST NORTH CENTRAL.....	1	71	198	157	-	-	-	-	8	30	19	361
Minnesota.....	-	12	33	29	-	-	-	-	3	5	11	94
Iowa.....	1	4	73	69	-	-	-	-	1	11	2	133
Missouri.....	-	26	-	2	-	-	-	-	4	6	-	66
North Dakota.....	-	3	83	55	-	-	-	-	-	2	-	10
South Dakota.....	-	4	3	-	-	-	-	-	-	2	5	46
Nebraska.....	-	17	-	-	-	-	-	-	-	1	1	4
Kansas.....	-	5	6	2	-	-	-	-	-	3	-	8
SOUTH ATLANTIC.....	7	214	572	352	1	3	-	3	30	14	16	264
Delaware.....	-	1	-	-	-	-	-	-	1	-	-	-
Maryland.....	3	33	20	12	-	-	-	-	3	-	-	-
Dist. of Columbia.....	-	4	-	7	-	2	-	-	-	-	-	-
Virginia.....	-	52	167	164	-	1	-	1	4	3	6	96
West Virginia.....	-	12	126	51	-	-	-	-	5	1	8	81
North Carolina.....	4	37	125	12	-	-	-	-	3	-	-	4
South Carolina.....	-	13	14	16	-	-	-	2	2	1	-	6
Georgia.....	-	11	3	-	-	-	-	2	2	7	1	30
Florida.....	-	51	117	90	1	-	-	-	10	2	1	47
EAST SOUTH CENTRAL.....	2	92	963	948	-	-	-	-	12	11	8	134
Kentucky.....	-	20	108	50	-	-	-	-	1	7	3	65
Tennessee.....	-	41	783	841	-	-	-	-	7	3	4	57
Alabama.....	2	15	11	20	-	-	-	-	4	1	1	12
Mississippi.....	-	16	61	37	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL.....	7	124	628	687	-	-	2	1	23	21	15	331
Arkansas.....	1	8	-	-	-	-	1	-	9	-	1	20
Louisiana.....	-	49	6	2	-	-	-	-	5	4	-	32
Oklahoma.....	4	26	9	16	-	-	1	-	2	-	-	29
Texas.....	2	41	613	669	-	-	-	1	7	17	14	250
MOUNTAIN.....	-	40	1,218	1,257	-	1	-	-	2	4	2	30
Montana.....	-	3	38	46	-	-	-	-	-	-	-	-
Idaho.....	-	3	102	106	-	-	-	-	-	-	-	-
Wyoming.....	-	1	22	21	-	1	-	-	-	-	-	-
Colorado.....	-	11	547	521	-	-	-	-	1	-	-	-
New Mexico.....	-	2	295	253	-	-	-	-	1	2	2	15
Arizona.....	-	6	107	137	-	-	-	-	-	2	-	15
Utah.....	-	11	106	173	-	-	-	-	-	-	-	-
Nevada.....	-	3	1	-	-	-	-	-	-	-	-	-
PACIFIC.....	14	197	1,314	1,785	1	-	-	-	31	6	6	168
Washington.....	-	15	521	598	-	-	-	-	-	-	-	-
Oregon.....	1	11	15	39	-	-	-	-	2	-	1	1
California.....	13	161	669	1,111	1	-	-	-	26	6	5	158
Alaska.....	-	5	71	7	-	-	-	-	1	-	-	9
Hawaii.....	-	5	38	30	-	-	-	-	2	-	-	-
Puerto Rico.....	-	4	43	6	2	-	-	1	6	-	-	5

Morbidity and Mortality Weekly Report

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Table 4 (D). TOTAL DEATHS AMONG PERSONS 65 YEARS AND OVER IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)^o

Area	For weeks ending				Area	For weeks ending			
	4/27	5/4	5/11	5/18		4/27	5/4	5/11	5/18
NEW ENGLAND:					SOUTH ATLANTIC:				
Boston, Mass.....	121	132	136	136	Atlanta, Ga.....	39	65	50	66
Bridgeport, Conn.....	24	20	29	22	Baltimore, Md.....	140	119	131	126
Cambridge, Mass.....	19	17	34	16	Charlotte, N.C.....	21	10	18	11
Fall River, Mass.....	23	18	21	25	Jacksonville, Fla.....	24	34	29	25
Hartford, Conn.....	34	33	28	27	Miami, Fla.....	59	36	53	31
Lowell, Mass.....	17	11	18	15	Norfolk, Va.....	18	24	15	23
Lynn, Mass.....	23	19	16	20	Richmond, Va.....	47	37	51	33
New Bedford, Mass.....	23	24	20	17	Savannah, Ga.....	12	18	17	13
New Haven, Conn.....	28	26	26	30	St. Petersburg, Fla.....	59	67	47	61
Providence, R.I.....	43	30	32	45	Tampa, Fla.....	36	56	41	37
Somerville, Mass.....	13	9	11	8	Washington, D.C.....	105	93	93	103
Springfield, Mass.....	36	27	21	34	Wilmington, Del.....	17	23	27	19
Waterbury, Conn.....	19	17	22	18	EAST SOUTH CENTRAL:				
Worcester, Mass.....	44	33	29	30	Birmingham, Ala.....	41	34	43	37
MIDDLE ATLANTIC:					Chattanooga, Tenn.....	28	26	21	16
Albany, N.Y.....	22	25	26	37	Knoxville, Tenn.....	23	25	18	21
Allentown, Pa.....	18	23	20	27	Louisville, Ky.....	45	91	37	63
Buffalo, N.Y.....	109	100	75	88	Memphis, Tenn.....	62	59	62	77
Camden, N.J.....	27	26	21	23	Mobile, Ala.....	14	26	20	15
Elizabeth, N.J.....	17	16	15	16	Montgomery, Ala.....	10	14	15	15
Erie, Pa.....	24	21	22	25	Nashville, Tenn.....	37	34	40	42
Jersey City, N.J.....	38	38	38	33	WEST SOUTH CENTRAL:				
Newark, N.J.....	58	47	31	41	Austin, Tex.....	22	20	31	17
New York City, N.Y.....	991	999	929	900	Baton Rouge, La.....	20	14	16	21
Paterson, N.J.....	21	23	29	20	Corpus Christi, Tex.....	13	11	15	14
Philadelphia, Pa.....	349	214	269	271	Dallas, Tex.....	69	59	70	68
Pittsburgh, Pa.....	120	170	78	113	El Paso, Tex.....	20	23	17	15
Reading, Pa.....	35	34	15	19	Fort Worth, Tex.....	29	33	38	33
Rochester, N.Y.....	65	67	68	57	Houston, Tex.....	73	94	65	54
Schenectady, N.Y.....	15	13	12	19	Little Rock, Ark.....	37	34	37	24
Scranton, Pa.....	36	26	26	23	New Orleans, La.....	87	67	75	73
Syracuse, N.Y.....	42	33	44	35	Oklahoma City, Okla.....	36	40	33	46
Trenton, N.J.....	19	28	31	31	San Antonio, Tex.....	54	47	46	49
Utica, N.Y.....	11	23	23	14	Shreveport, La.....	31	23	21	16
Yonkers, N.Y.....	20	14	25	20	Tulsa, Okla.....	30	33	45	29
EAST NORTH CENTRAL:					MOUNTAIN:				
Akron, Ohio.....	39	32	42	34	Albuquerque, N. Mex.....	21	11	14	10
Canton, Ohio.....	24	27	22	24	Colorado Springs, Colo...	15	10	15	15
Chicago, Ill.....	393	404	401	402	Denver, Colo.....	58	71	71	68
Cincinnati, Ohio.....	84	99	108	86	Ogden, Utah.....	19	12	10	14
Cleveland, Ohio.....	133	116	117	109	Phoenix, Ariz.....	51	41	57	45
Columbus, Ohio.....	72	62	55	71	Pueblo, Colo.....	12	9	8	5
Dayton, Ohio.....	37	33	39	37	Salt Lake City, Utah.....	33	30	31	24
Detroit, Mich.....	182	219	174	188	Tucson, Ariz.....	32	20	23	20
Evansville, Ind.....	18	31	30	31	PACIFIC:				
Flint, Mich.....	18	17	29	21	Berkeley, Calif.....	12	13	14	9
Fort Wayne, Ind.....	24	31	26	19	Fresno, Calif.....	31	32	24	22
Cary, Ind.....	18	9	20	11	Glendale, Calif.....	37	23	26	34
Grand Rapids, Mich.....	35	21	48	29	Honolulu, Hawaii.....	11	11	15	13
Indianapolis, Ind.....	87	74	84	76	Long Beach, Calif.....	39	36	35	31
Madison, Wis.....	16	10	22	12	Los Angeles, Calif.....	331	330	296	285
Milwaukee, Wis.....	76	71	75	76	Oakland, Calif.....	68	80	48	70
Peoria, Ill.....	17	9	14	13	Pasadena, Calif.....	22	22	20	27
Rockford, Ill.....	11	15	24	13	Portland, Oreg.....	78	74	45	87
South Bend, Ind.....	26	32	36	31	Sacramento, Calif.....	34	47	34	37
Toledo, Ohio.....	64	55	59	55	San Diego, Calif.....	45	63	62	48
Youngstown, Ohio.....	25	33	39	29	San Francisco, Calif.....	121	114	116	116
WEST NORTH CENTRAL:					San Jose, Calif.....	21	24	26	25
Des Moines, Iowa.....	46	48	45	36*	Seattle, Wash.....	91	95	99	72
Duluth, Minn.....	26	20	20	19	Spokane, Wash.....	46	26	33	39
Kansas City, Kans.....	21	26	18	24	Tacoma, Wash.....	32	30	24	30
Kansas City, Mo.....	58	65	82	68	San Juan, P.R.....				
Lincoln, Nebr.....	27	20	15	24		10	26	10	17
Minneapolis, Minn.....	82	78	56	67	^o Current Week Mortality for 108 Selected Cities				
Omaha, Nebr.....	39	41	55	49	4(A) Total Mortality, all ages.....	11,199			
St. Louis, Mo.....	138	138	124	130	4(B) Pneumonia-Influenza Deaths, all ages.....	408			
St. Paul, Minn.....	52	39	56	48	4(C) Total Deaths under 1 Year of Age.....	709			
Wichita, Kans.....	34	19	34	29	4(D) Total Deaths, Persons 65 years and over.....	6,233			

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

Dr. M. M. Sigel, University of Miami, previously reported that an isolate recovered during the Miami outbreak belongs to the influenza A group on the basis of complement fixation tests. The first virus isolate from an outbreak in Kentucky, recovered by Dr. E. R. Doll, University of Kentucky, has been submitted to the Respiro-virus Unit, Laboratory Branch, CDC. While complement fixation tests are not completed, preliminary HI tests indicated that this isolate is not related to any of the known human group A influenza virus strains. Further studies of these isolates are in process.

(Reported by Drs. Sigel and Doll; the State Health Departments of Illinois (Dr. Franklin Yoder), Michigan (Dr. Donald Coohon), New York (Dr. Donald Dean), Ohio (Dr. Paul Schnurrenberger), and Pennsylvania (Dr. Ernest Witte); the Respiro-virus Unit, Laboratory Branch, CDC; and, a team from the Communicable Disease Center.)

INTERNATIONAL NOTES - QUARANTINE MEASURES

Smallpox - Scandinavia

Sweden - Stockholm was declared a smallpox infected area on May 16. A seaman who returned from Indonesia in late March is the apparent source of an outbreak which has now spread through two generations of transmission and has resulted in one fatality. Preliminary information on cases to date, received from the Ministry of Health, Sweden, and forwarded by Dr. Reimert T. Ravenholt, Epidemiologic Consultant, Division of Foreign Quarantine, U.S. Public Health Service, Paris, is given below:

Case No.	Age	Sex	Date of Onset	Presumed Source of Infection	Last Vaccination
1	30	M	April 6	Indonesia	3 years ago
*2	50	F	April 21	Case # 1	Childhood
3	80	F	April 21	Case # 1	Childhood
4	25	F	April 24	Case # 1	Childhood
5	20	F	Not known	Case # 1	Childhood
6	52	M	May 3	Case # 2	Never
7	19	M	May 5	Case # 2	Never
8	50	F	May 6	Case # 3	Not known
9	60	F	May 6	Case # 3	Not known
10	65	F	May 6	Case # 3	Not known
11	72	F	May 8	Case # 3	Childhood
12	25	M	May 11	Case # 4	Never

* Fatality

The outbreak was recognized on May 13 when the diagnosis of smallpox was first suspected in Case #7. The disease was sufficiently mild in Cases 1, 4, 5 and 12 that medical assistance was not sought. The only fatality to date occurred in Case #2 who apparently suffered an acute hemorrhagic form of the disease, diagnosed as smallpox in retrospect.

This outbreak is of unique interest in that it represents one of the few epidemics in Western nations in recent years not evidencing a predominant spread among hospital contacts. Recent immunization programs among hospital personnel presumably have altered the

pattern of hospital spread observed in other recent outbreaks. The mildness of the disease in several of the earlier cases, resulting in the failure of these patients to seek medical care and hospitalization, has contributed to the pattern of community transmission.

The outbreak emphasizes the sinister role of mild or vaccine-modified cases of smallpox in initiating and propagating outbreaks of severe disease. Since the outbreak was discovered during the second generation of indigenous cases, it is possible that Americans recently in Stockholm have been unknowingly exposed to the disease, and cases of suspicious febrile illness in such individuals should receive the utmost scrutiny by clinicians and public health authorities.

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