



POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 228

July 7, 1961

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SPECIAL NOTE

This report is intended for the information and administrative use of those involved in the investigation and control of poliomyelitis and polio-like diseases. It presents a summary of provisional information reported to CDC from State Health Departments, Virology Laboratories, Epidemic Intelligence Service Officers, and other pertinent sources. Since much of the information is preliminary in nature, confirmation and final interpretation should be determined in consultation with the original investigators prior to any further use of the material.

SUMMARY

The unusually low incidence of poliomyelitis in 1961 continued during the 26th week ending July 1 with telegraphic reports of 18 cases, 8 paralytic.

Cases continue to occur in Atlanta, Georgia. Reports from Georgia, Louisiana, and Florida are included.

A concentration of Coxsackie B-5 isolates in Virginia has been reported. A summary of this and other enterovirus surveillance findings to date is presented in Section 5.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

A total of 18 cases, 8 paralytic, was reported during the 26th week ending July 1 continuing the unusually low current incidence depicted in Figure 1. This brings the yearly total to date to 237 cases, 147 paralytic, as summarized in the table below.

POLIO (CUMULATED WEEKLY) THROUGH THE 26th WEEK FOR PAST FIVE YEARS

	<u>1961</u>	<u>1960</u>	<u>1959</u>	<u>1958</u>	<u>1957</u>
Paralytic	147	346	694	333	628
Total	237	469	1026	644	1413

Only 11 of 49 reporting States contributed to the weekly total. Georgia reported 5 cases, and Louisiana, Missouri, and Oregon 2 each. Single case reports were received from New York, Ohio, Michigan, West Virginia, Kentucky, Texas, and California.

2. REPORTS

A. Georgia

Atlanta polio continues. According to Dr. W. J. Murphy, Director of Epidemiology, Georgia Department of Public Health, the 5 cases reported this week include 1 paralytic and 3 nonparalytic cases from the greater metropolitan Atlanta area. In addition, a further paralytic case not yet reflected in morbidity figures is under investigation. These bring the Atlanta total to 14 cases, 6 paralytic, as shown in the tabular summary on the following page.

<u>Age</u>	<u>Race</u>	<u>Sex</u>	<u>Onset Date</u>	<u>Paralytic Status</u>	<u>Vaccination Status</u>	<u>Laboratory Results</u>
26	W	M	3-23	P	OV	Type 3 sera rise
3	N	F	5-6	P	2V	(*Type 1 vaccine strain (Type 1 and 3 sera rise
3	N	F	5-27	P	OV	Type 3
3	N	M	5-28	NP	OV	Coxsackie B-4
1 mo.	N	F	6-9	NP	OV	Unidentified virus
2	N	F	6-12	P	OV	Type 3
3	N	M	6-13	NP	OV	
11	N	M	6-14	NP	3V	
6	W	M	6-18	NP	4V	Unidentified virus
17 days	N	M	6-20	NP	OV	Unidentified virus
2½	N	M	6-26	NP	OV	
5	N	M	6-26	P	1V	
1½	N	M	6-28	NP	1V	
1½	W	M	6-30	P	1V	

*Patient inadvertently received Type 1 oral poliovaccine on 5-11, 5 days after onset of illness. (See PSU Report No. 225)

The isolation of Coxsackie B-4 from one of the early nonparalytic cases is especially notable. The high nonparalytic case incidence thus may reflect a mixed enterovirus outbreak. No additional identifications have been reported, but specimens from all reported cases are being processed.

B. Louisiana

Detailed information on the 2 Evangeline Parish paralytic cases officially reported this week was described in PSU Report No. 227. According to Dr. John M. Bruce, Epidemiologist, Louisiana State Department of Health, a number of aseptic meningitis cases are also being seen in Ville Platte and surrounding area in Evangeline Parish. Preliminary information indicates that children are primarily involved. Stool specimens and acute blood sera are being collected for virologic study.

C. Florida

A concentration of 5 paralytic cases in Manatee County (Bradenton), Florida, has been unofficially reported by Dr. James O. Bond, Epidemiologist, Florida State Board of Health. Two of the patients involved have been severely paralyzed. Case onsets include 2 in mid-April, 1 in mid-June, and 2 in late-June. In addition, 4 suspect nonparalytic cases are under study. Laboratory evaluations are still in progress.

3. 1961 POLIOMYELITIS CASES REPORTED TO PSU

Through July 5, there have been 141 cases of poliomyelitis with onset in 1961 submitted to the Poliomyelitis Surveillance Unit on individual case forms. Of these 141 cases, 109 (77 percent) are paralytic.

Three additional poliovirus isolates were reported on the 31 case forms received during the past two weeks. Of these, there was a type I poliovirus isolation in Phillipsburg, Missouri (February onset) and two type III isolations in South Carolina. One of the cases in South Carolina with type III isolated had onset in May in Columbia with the other occurring in June in Little Mountain. Previous poliovirus isolates obtained from 1961 cases were presented in PSU Report No. 226 (June 23, 1961).

4. ROUTINE POLIOMYELITIS SURVEILLANCE

A. Cases with Onset Within 30 Days of Vaccination

There have been no new under-30-day cases reported to the Poliomyelitis Surveillance Unit during the past week. Thus, the total number reported in 1961 remains at two, both paralytic.

5. ENTEROVIRUS SURVEILLANCE

Total enterovirus isolations from 1961 specimens reported to PSU stands at 100, including 20 type I and 18 type III polioviruses. A tabular summary is presented on the following page.

Dr. W.F. Skinner, Director, Bureau of Laboratories, and Dr. Mason Romaine, Director, Bureau of Communicable Disease Control, Virginia Department of Health, have reported 11 Coxsackie B-5 isolates among 28 specimens received from a Naval Base in King George County. An outbreak apparently occurred in late May, but no clinical or epidemiologic details are yet available. Of the specimens received, 26 have yielded viruses; 15 of these remain to be identified. Further details of this outbreak will be included in forthcoming PSU Reports.

A total of 4 Coxsackie B-2 isolates from the Lind, Washington (See PSU Reports Nos. 226 and 227), outbreak has also been reported. Dr. K. R. Berquist states that a number of additional specimens have yielded viruses but identification is not complete.

Enterovirus Isolations from 1961 Specimens

State	Poliovirus			ECHO**	Cox-*** sackie	Other and Unsp.	Total	Reported by
	I	II	III					
Florida	1	-	2	-	-	-	3	N. Schneider
Georgia	-	-	2	-	1	-	3	W. Murphy
Hawaii	2	-	-	-	1	2	5	K. Wilcox
Idaho	4*	-	1	-	-	-	5	A. Klotz
Illinois	1	-	-	-	-	-	1	H. Shaughnessy
Indiana	1	-	-	-	-	-	1	A. Marshall
Louisiana	1	-	-	-	-	-	1	J. Bruce
Maryland	-	-	-	2	1	2	5	C. Perry
Mass.	1	-	-	-	-	5	6	R. MacCready
Minn.	2	-	2	2	-	2	8	H. Bauer
Mississippi	1	-	-	-	-	-	1	CDC Virus Diagnostic Unit
Missouri	1	-	-	-	-	-	1	I. Adams
N. H.	-	-	-	-	1	-	1	R. Miliner
N. J.	1	-	-	-	-	-	1	M. Goldfield
N. C.	1	-	-	-	1	-	2	L. Maddry
Ohio	1	-	-	-	1	1	3	L. Ey
Oregon	1	-	1	-	-	1	3	G. Brandon & M. Skinner
Pa.	-	-	1	-	2	-	3	K. Hummeler
S. C.	-	-	2	-	-	-	2	G. McDaniel
Texas	1	-	2	-	-	1	4	G. Irons
Utah	-	-	1	-	-	-	1	A. Jenkins
Virginia	-	-	-	-	11	15	26	W. Skinner
Washington	-	-	4	-	5	-	9	W. Giedt and K. Berquist
Wisconsin	-	-	-	4	1	-	5	A. Evans
TOTAL	20	0	18	8	25	29	100	

* One family with one clinical case accounted for all isolates.

** Specific types include ECHO 1 and 14 in Minnesota, two ECHO 11 in Maryland and one in Wisconsin, two ECHO 10 and one ECHO 4 in Wisconsin.

*** Specific types include eleven Coxsackie B-5 in Virginia, two in Pennsylvania, and one each in Maryland, Ohio, and Washington; four Coxsackie B-2 in Washington and one in New Hampshire; one Coxsackie B-4 in Georgia; Coxsackie A - unspecified in Hawaii and North Carolina, and B - unspecified in Wisconsin.

(This surveillance report was prepared by the Poliomyelitis and Polio-like Diseases Surveillance Unit, Michael J. Regan, M.D., Chief, David G. Miller, M. D., and Mr. Leo Morris, Statistician, with the assistance of Statistics Section, CDC.)

Figure 1

CURRENT U.S. POLIO INCIDENCE
 COMPARED WITH YEARS 1955-1960; APRIL-AUGUST, BY WEEK

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS
 AND COMMUNICABLE DISEASE CENTER

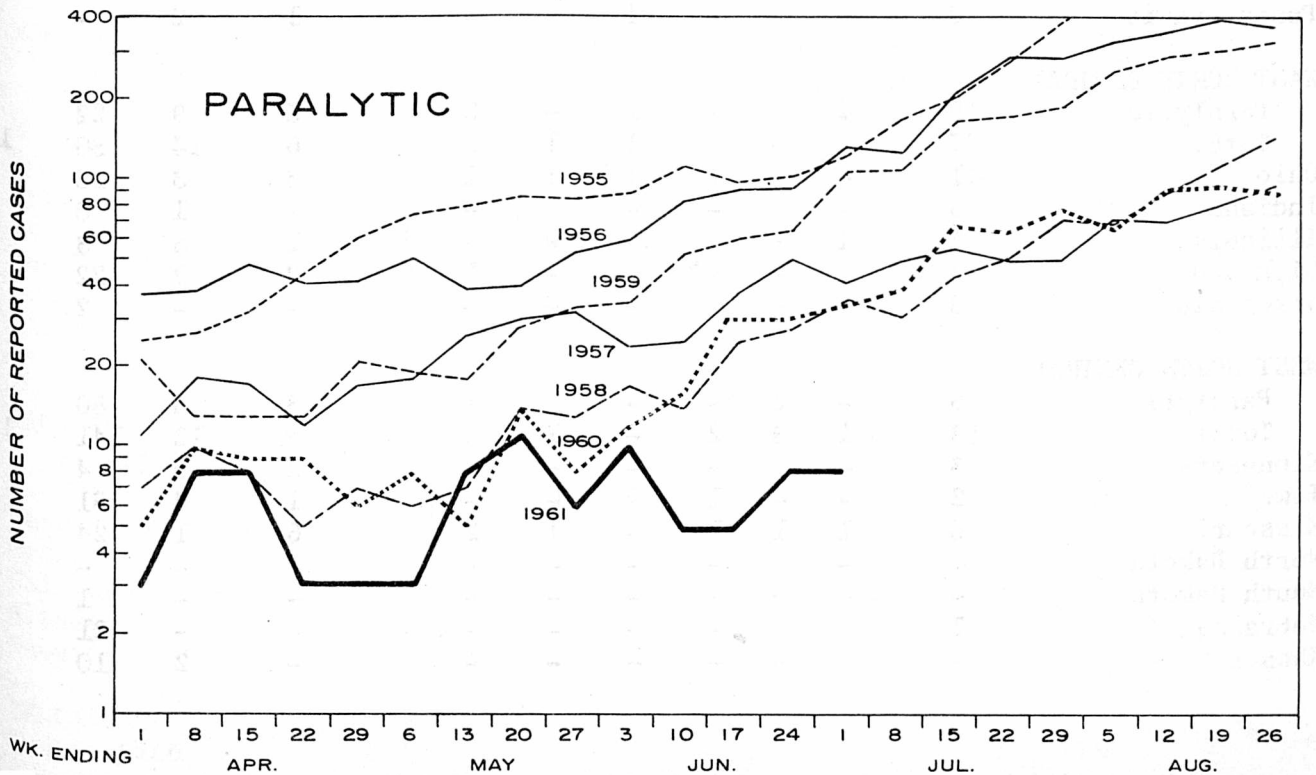
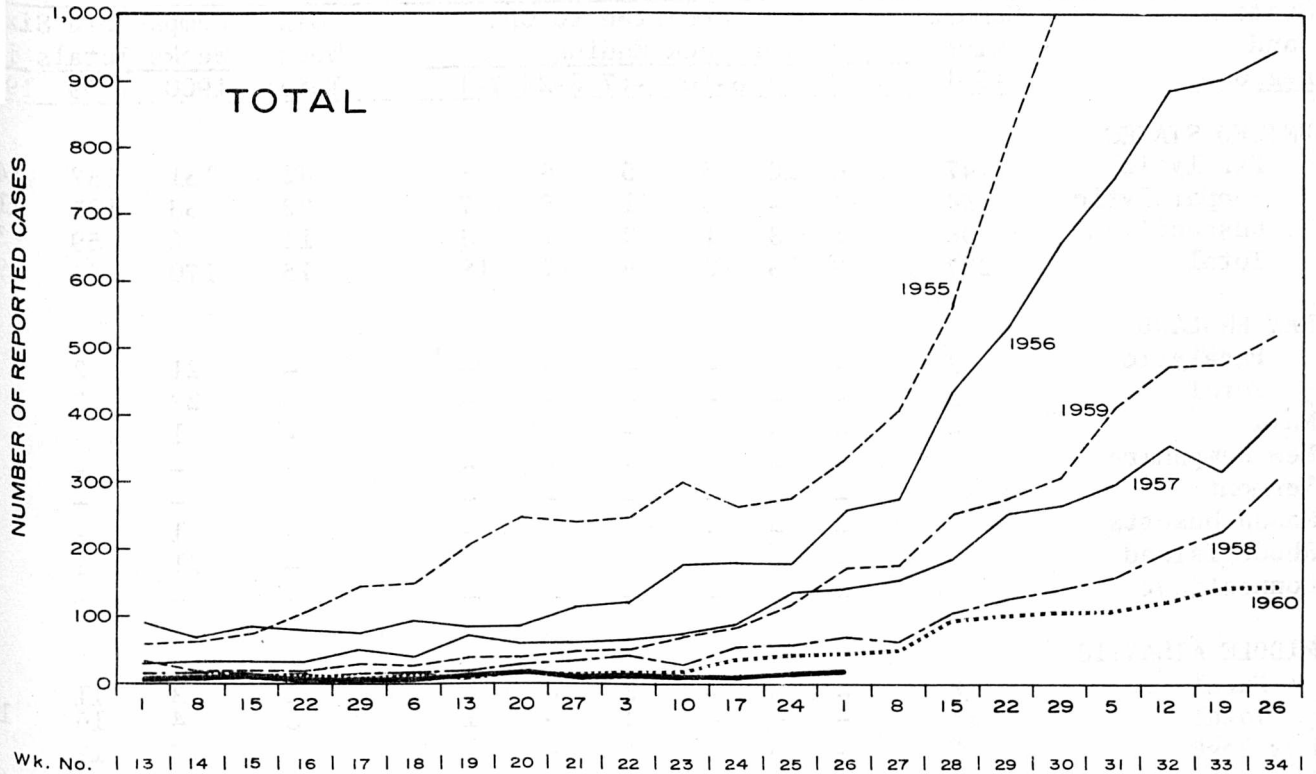


Table 1

TREND OF 1961 POLIOMYELITIS INCIDENCE

State and Region	Cumulative 1961	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		5-27	6-3	6-10	6-17	6-24	7-1		1960	1959	1958
UNITED STATES											
Paralytic	147	6	10	5	5	8	8	42	131	357	149
Nonparalytic	54	2	-	4	1	8	7	22	33	127	112
Unspecified	36	1	3	1	2	1	3	11	6	59	38
Total	237	9	13	10	8	17	18	75	170	543	299
NEW ENGLAND											
Paralytic	3	-	-	-	-	-	-	-	21	2	4
Total	3	-	-	-	-	-	-	-	23	2	4
Maine	-	-	-	-	-	-	-	-	1	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	2	-	-	-	-	-	-	-	1	-	2
Rhode Island	-	-	-	-	-	-	-	-	21	2	-
Connecticut	1	-	-	-	-	-	-	-	-	-	2
MIDDLE ATLANTIC											
Paralytic	14	-	-	-	2	-	-	2	3	11	8
Total	18	-	-	-	2	-	1	3	4	16	14
New York	8	-	-	-	1	-	1	2	2	12	9
New Jersey	5	-	-	-	-	-	-	-	-	4	5
Pennsylvania	5	-	-	-	1	-	-	1	2	-	-
EAST NORTH CENTRAL											
Paralytic	18	2	-	-	1	-	2	5	9	22	5
Total	27	2	-	-	1	1	2	6	14	50	16
Ohio	11	-	-	-	1	1	1	3	3	15	1
Indiana	3	-	-	-	-	-	-	-	1	8	-
Illinois	7	1	-	-	-	-	-	1	8	3	7
Michigan	3	1	-	-	-	-	1	2	2	22	8
Wisconsin	3	-	-	-	-	-	-	-	-	2	-
WEST NORTH CENTRAL											
Paralytic	6	-	2	-	-	-	1	3	5	80	4
Total	13	1	3	2	-	1	2	9	12	141	14
Minnesota	3	-	2	-	-	-	-	2	5	4	6
Iowa	2	-	-	1	-	-	-	1	4	81	1
Missouri	6	1	1	1	-	1	2	6	1	24	-
North Dakota	-	-	-	-	-	-	-	-	-	-	1
South Dakota	-	-	-	-	-	-	-	-	-	1	5
Nebraska	2	-	-	-	-	-	-	-	-	21	-
Kansas	-	-	-	-	-	-	-	-	2	10	1

Table 1 (Continued)

State and Region	Cumula- tive 1961	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		5-27	6-3	6-10	6-17	6-24	7-1		1960	1959	1958
SOUTH ATLANTIC											
Paralytic	21	-	2	3	1	4	1	11	14	58	30
Total	33	-	2	3	1	7	6	19	17	76	67
Delaware	2	-	-	-	-	-	-	-	-	1	1
Maryland	-	-	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-	-	-
Virginia	1	-	-	-	-	1	-	1	-	12	8
West Virginia	4	-	-	1	-	-	1	2	3	6	5
North Carolina	4	-	-	-	-	-	-	-	4	14	11
South Carolina	4	-	-	1	-	2	-	3	5	4	2
Georgia	14	-	2	1	1	3	5	12	1	16	10
Florida	4	-	-	-	-	1	-	1	4	23	30
EAST SOUTH CENTRAL											
Paralytic	8	-	2	-	-	2	-	4	1	39	5
Total	23	-	2	-	2	2	1	7	3	54	22
Kentucky	16	-	-	-	1	-	1	2	2	4	5
Tennessee	2	-	-	-	1	-	-	1	-	14	8
Alabama	1	-	-	-	-	1	-	1	-	17	2
Mississippi	4	-	2	-	-	1	-	3	1	19	7
WEST SOUTH CENTRAL											
Paralytic	23	2	1	-	1	1	3	8	15	88	46
Total	40	3	1	3	1	3	3	14	27	129	94
Arkansas	2	-	-	-	-	1	-	1	1	22	3
Louisiana	11	1	-	-	-	2	2	5	10	23	8
Oklahoma	-	-	-	-	-	-	-	-	-	23	9
Texas	27	2	1	3	1	-	1	8	16	61	74
MOUNTAIN											
Paralytic	12	-	2	-	-	-	-	2	5	17	4
Total	20	-	2	-	-	-	-	2	7	28	10
Montana	1	-	-	-	-	-	-	-	4	2	2
Idaho	4	-	-	-	-	-	-	-	-	3	-
Wyoming	-	-	-	-	-	-	-	-	-	1	-
Colorado	3	-	-	-	-	-	-	-	1	1	2
New Mexico	1	-	-	-	-	-	-	-	1	7	3
Arizona	5	-	2	-	-	-	-	2	1	14	2
Utah	6	-	-	-	-	-	-	-	-	-	1
Nevada	-	-	-	-	-	-	-	-	-	-	-
PACIFIC											
Paralytic	42	2	1	2	-	1	1	7	58	40	43
Total	60	3	3	2	1	3	3	15	63	47	58
Washington	9	-	2	-	-	1	-	3	-	4	2
Oregon	7	1	-	-	-	1	2	4	4	7	5
California	42	2	1	2	1	1	1	8	55	36	35
Alaska	-	-	-	-	-	-	-	-	2	-	-
Hawaii	2	-	-	-	-	-	-	-	2	-	16
TERRITORY											
Puerto Rico	4	1	-	-	-	-	-	1	152	-	5

