



POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 200

June 24, 1960

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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, the National Office of Vital Statistics, 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 national incidence of poliomyelitis, both total and paralytic cases, remains low although the initial seasonal upturn expected in early summer is reflected in figures reported to NOVS this past week.

The cluster of cases in the metropolitan Providence area, Rhode Island, remains the only concentration of cases within the continental United States. The major epidemic in Puerto Rico continues to spread.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

A total of 37 cases, 30 paralytic, was reported to the National Office of Vital Statistics during the 24th week of 1960, ending June 18. This increase in cases, which approximately doubles the total of 19 cases, 16 paralytic, reported last week represents the anticipated initial seasonal upturn in poliomyelitis incidence during the early summer (Figure I).

The 1960 cumulative total has now reached 392 cases, including 284 paralytic. This paralytic total remains lower than those for the comparable 24 weeks during the past four years with the exception of 1958.

	<u>Total Through 24th Week for Five Years</u>				
	<u>1960</u>	<u>1959</u>	<u>1958</u>	<u>1957</u>	<u>1956</u>
Paralytic	284	519	262	535	1,214
Total	392	736	512	1,137	2,276

Although this first upturn for 1960 has appeared, the six-week totals, both for paralytic and total cases, remain below those for any recent year.

	<u>Total for 19th-24th Week for Five Years</u>				
	<u>1960</u>	<u>1959</u>	<u>1958</u>	<u>1957</u>	<u>1956</u>
Paralytic	87	228	102	175	375
Total	116	327	215	418	767

Six-week totals remain below those for 1959 in all national regions except New England and the Pacific (Table I). The rise in New England reflects the concentration of cases in Metropolitan Providence, Rhode Island. (See later report on Rhode Island, Section 2.) The other increase, in the Pacific region, is due to thirteen California cases which show no evidence of unusual concentration, and four widely scattered cases in Oregon.

2. REPORTS

A. Rhode Island

Dr. R.A. McAteer, Medical Director, Division of Communicable Diseases, Rhode Island Department of Health, reported a total of 18 cases, of which 16 are paralytic, in the metropolitan Providence area through June 23, 1960. This represents an increase of 8 cases over the 10 Rhode Island cases previously reported. (PSU #199).

All the cases, except one, have had onset during June and no paralytic case has received a full series of Salk Vaccine inoculations. The cases are listed below by order of occurrence:

<u>Date of Onset</u>	<u>Initials</u>	<u>Age</u>	<u>Race</u>	<u>Sex</u>	<u>Vaccine Status</u>	<u>Paralytic Status</u>
5/28	J.M.	3	N	M	OV	Spinal
6/1	D.D.	5	W	F	2V	Spinal
6/1	W.T. ¹	3	W	M	OV	Bulbar
6/3	D.C. ¹	6	W	F	1V	Spinal
6/4	E.C. ¹	5	W	M	OV	Bulbar
6/4	M.T. ²	2	W	M	2V	Bulbar
6/4	T.R.	3	W	M	OV	Spinal
6/4	P.B.	5	W	F	1V	Spinal
6/5	K.Mc ³	3	W	M	1V	Spinal
6/10	D.L. ³	1	W	F	OV	Bulbo-Spinal
6/10	C.G. ²	4	W	F	OV	Spinal
6/12	D.R. ²	5	W	M	OV	Spinal
6/12	R.V.	4	W	M	OV	Spinal
6/13	R.D.	12	W	M	4V	Non-paralytic
6/13	B.S. ³	7	W	F	3V	Unspecified
6/16	D.N.L. ³	3	W	F	2V	Bulbo-Spinal
6/16	P.L.	3	W	M	2V	Bulbar
6/18	C.G.	6	W	F	OV	Bulbar

1 - Siblings

2 - Siblings

3 - Siblings

Although the number of paralytic cases is small, the high proportion with bulbar involvement is of interest. Also of interest is the number of cases occurring among siblings.

Of the first sixteen cases, nine are within the city limits of Providence, three from Warwick, two from Pawtucket and two from Riverside. Vaccination clinics are being held in these areas.

B. Puerto Rico

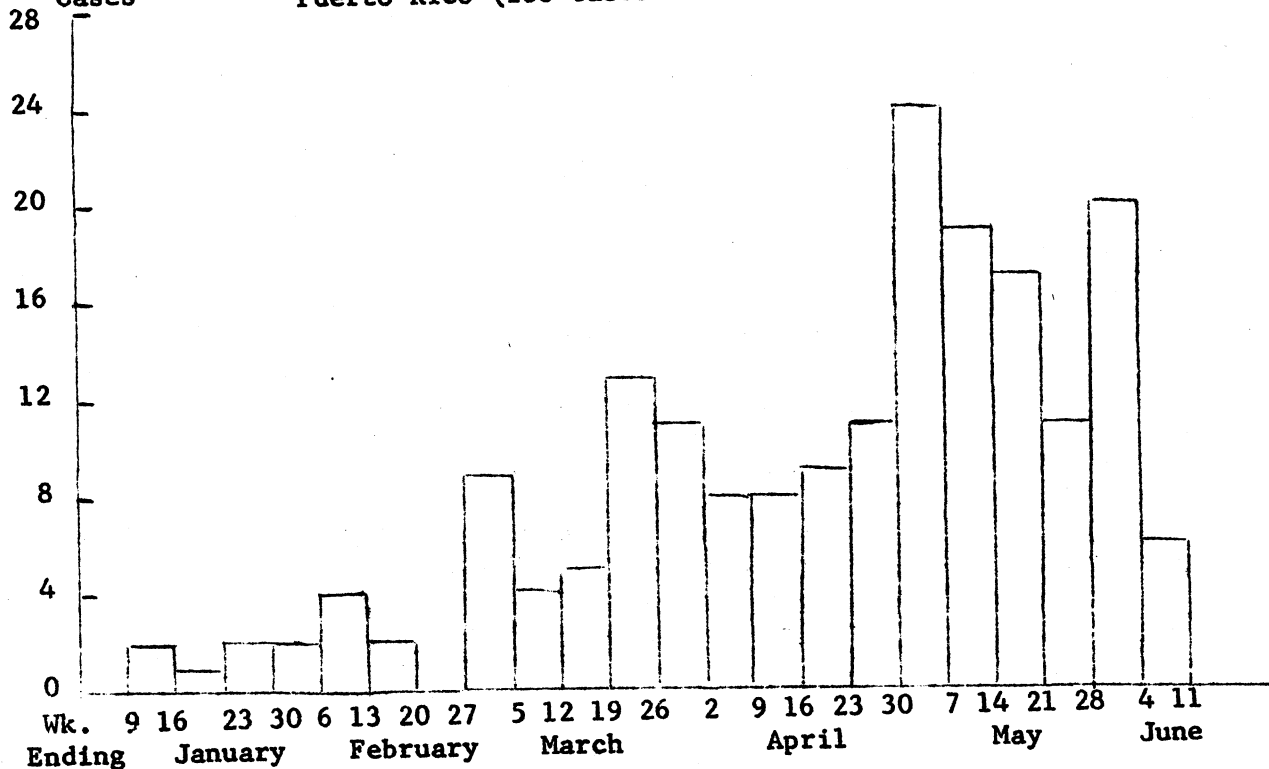
The previously reported epidemic in Puerto Rico continues at a steady pace. Through June 22, 1960, Dr. Rafael Timothee, Chief, Bureau of Communicable Disease Control, Puerto Rico Department of Health, reports the occurrence of 224 paralytic cases of poliomyelitis with onset in 1960. This represents a substantial increase of 53 cases during the past two weeks.

The date of onset is now known for 188 cases and is presented in Figure 2B. The peak week is now the week ending May 7, and the increased incidence during May overshadows the previous high during the week ending March 26. It must be noted that onset of symptoms is not known for 36 of the more recently reported cases which tends to indicate an actual peak occurring in late May or early June.

The age distribution and vaccination status has not changed. There continues to be a predominance of cases among pre-school, unvaccinated children. Of the 220 cases with age known, 86 percent have been in the group under 5 years and 63 percent in the group under 3 years of age. Only 4.1 percent of those with known vaccination status have received three or more doses of vaccine and 89.7 percent have received none.

Figure 2B

Number of Cases
Paralytic Poliomyelitis Cases by Date of Onset
Puerto Rico (188 Cases with Known Onset)



3. 1960 POLIOMYELITIS CASES REPORTED TO PSU

Through June 22, there have been 206 cases of poliomyelitis with onset in 1960 reported to PSU on individual case forms. Of these cases, 168 or 82 percent are paralytic.

4. ROUTINE POLIOMYELITIS SURVEILLANCE - 1960

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 1960 remains at three, all paralytic, including one case which is correlated.

B. Vaccine Distribution

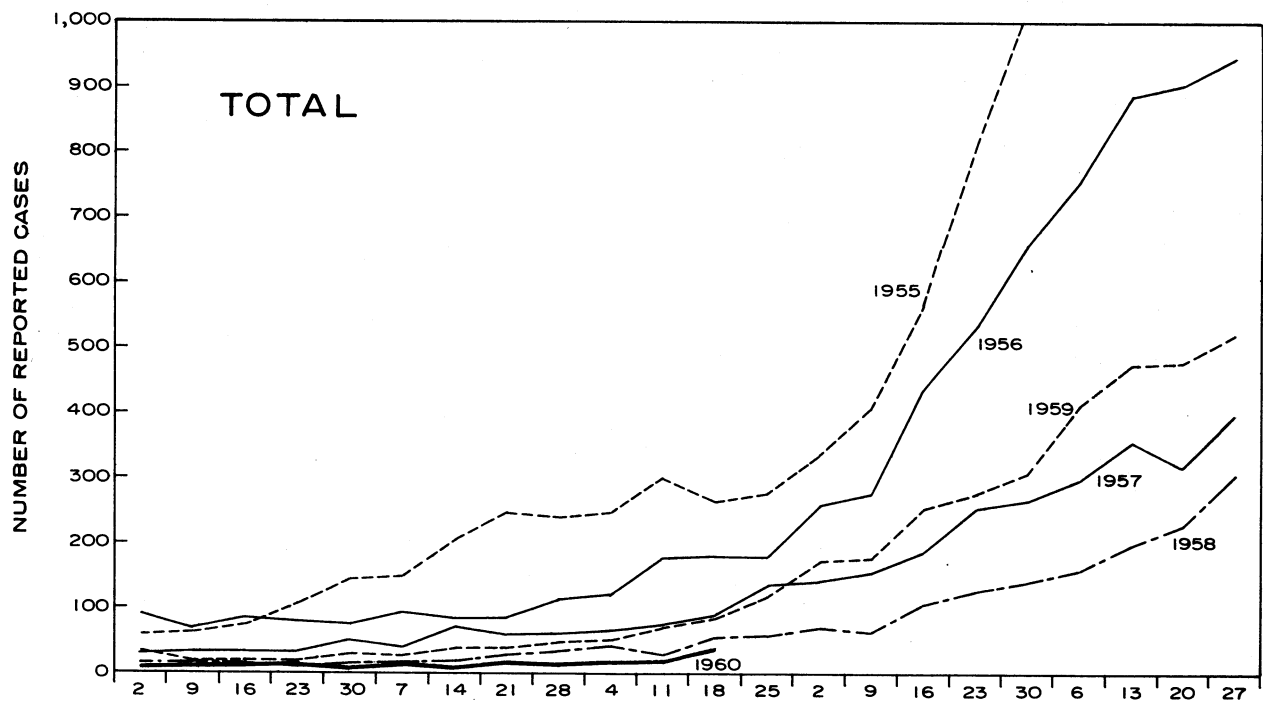
A summary of current and cumulative data concerning vaccine released, shipped and inventoried is presented in Table II. Also included are releases and shipments of quadruple antigen.

(This report was prepared by the Poliomyelitis and Polio-like Diseases Surveillance Unit, Joseph Oren, M.D., and Leo Morris, Statistician, with the assistance of Statistics Section, CDC.)

Figure 1

CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1955-1959; APRIL-AUGUST, BY WEEK

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS



Wk. No. | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |

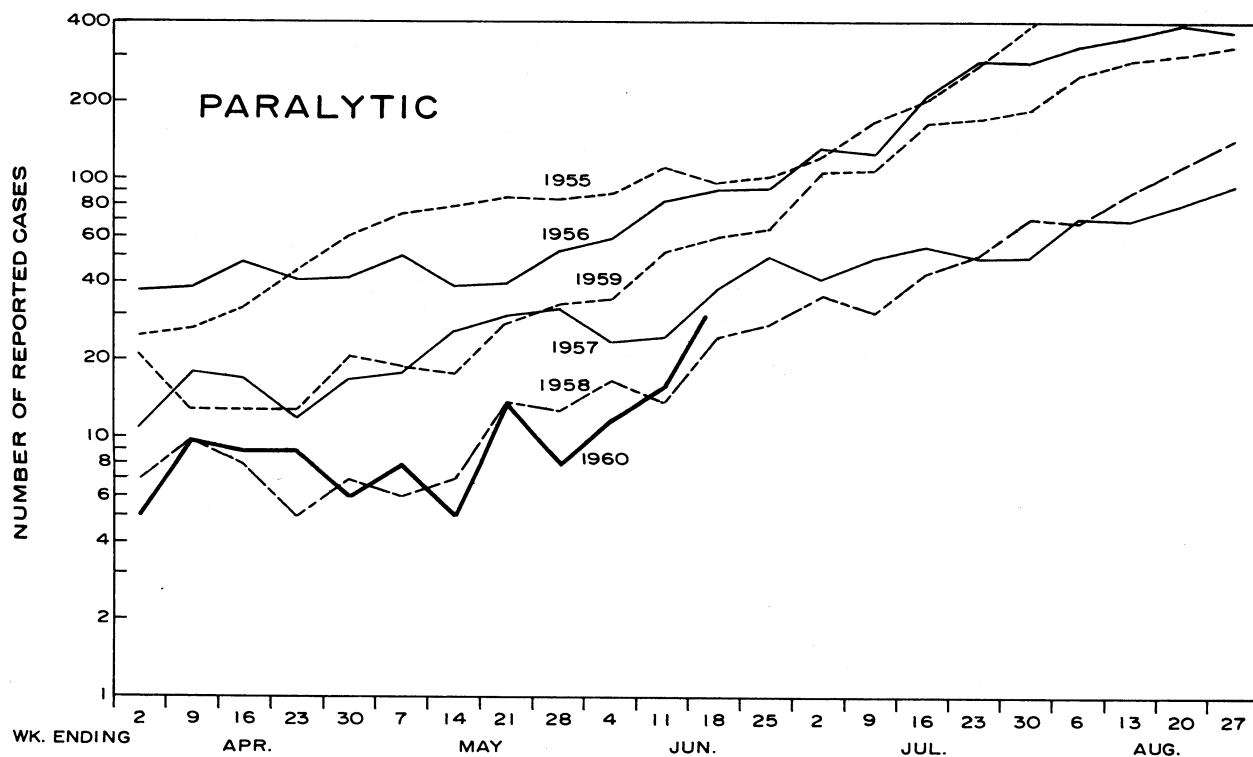


Table I

TREND OF 1960 POLIOMYELITIS INCIDENCE

State and Region	Cumulative 1960	Cases Reported to NOVS*						Six Week Total	Comparable Six Weeks Totals in:		
		For Week Ending							1959	1958	1957
		5-14	5-21	5-28	6-4	6-11	6-18				
UNITED STATES											
Paralytic	284	5	14	10	12	16	30	87	228	102	175
Nonparalytic	71	4	2	3	6	2	5	22	75	80	193
Unspecified	37	-	2	1	1	1	2	7	24	33	50
Total	392	9	18	14	19	19	37	116	327	215	418
NEW ENGLAND											
Paralytic	20	1	1	-	-	5	5	12	2	2	2
Total	20	1	1	-	-	5	5	12	2	2	5
Maine	5	1	-	-	-	-	-	1	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	2
Massachusetts	6	-	1	-	-	1	-	2	-	-	2
Rhode Island	9	-	-	-	-	4	5	9	2	-	-
Connecticut	-	-	-	-	-	-	-	-	-	2	1
MIDDLE ATLANTIC											
Paralytic	29	-	1	-	-	-	-	1	8	5	3
Total	42	1	1	-	-	-	1	3	11	10	9
New York	33	1	1	-	-	-	-	2	6	6	5
New Jersey	6	-	-	-	-	-	-	-	5	4	1
Pennsylvania	3	-	-	-	-	-	1	1	-	-	3
EAST NORTH CENTRAL											
Paralytic	17	3	-	-	-	-	4	7	13	4	7
Total	44	5	-	-	1	-	4	10	34	13	22
Ohio	19	2	-	-	1	-	NR	3	14	1	5
Indiana	-	-	-	-	-	-	-	-	4	1	1
Illinois	9	-	-	-	-	-	3	3	3	6	4
Michigan	13	2	-	-	-	-	1	3	11	5	11
Wisconsin	3	1	-	-	-	-	-	1	2	-	1
WEST NORTH CENTRAL											
Paralytic	13	-	1	-	-	1	2	4	40	4	9
Total	22	-	1	-	1	2	3	7	58	10	26
Minnesota	10	-	-	-	-	-	2	2	5	-	1
Iowa	5	-	-	-	-	1	-	1	33	4	3
Missouri	4	-	1	-	-	1	-	2	4	1	9
North Dakota	-	-	-	-	-	-	-	-	-	-	-
South Dakota	1	-	-	-	-	-	-	-	1	-	2
Nebraska	-	-	-	-	-	-	-	-	7	5	8
Kansas	2	-	-	-	1	-	1	2	8	-	3

* National Office of Vital Statistics: weekly figures reported by the states as of Wednesday of the specified week; cumulative figures include revisions and corrections.

Table I (Continued)

State and Region	Cumulative 1960	Cases Reported to NOVS For Week Ending						Six Week Total	Comparable Six Weeks Totals in:		
		5-14	5-21	5-28	6-4	6-11	6-18		1959	1958	1957
SOUTH ATLANTIC											
Paralytic	44	-	1	2	1	1	3	8	44	19	21
Total	57	1	1	4	1	1	4	12	53	46	48
Delaware	1	-	-	-	-	-	-	-	-	1	-
Maryland	1	-	-	-	-	-	-	-	-	-	-
D. C.	-	-	-	-	-	-	-	-	-	1	-
Virginia	-	-	-	-	-	-	-	-	10	4	5
West Virginia	4	-	-	1	-	-	NR	1	5	4	2
North Carolina	16	-	-	-	1	1	-	2	8	7	8
South Carolina	6	-	-	1	-	-	3	4	1	1	12
Georgia	3	-	-	-	-	-	-	-	5	2	5
Florida	26	1	1	2	-	-	1	5	24	26	16
EAST SOUTH CENTRAL											
Paralytic	11	-	3	-	-	-	-	3	20	5	5
Total	14	-	3	1	-	-	1	5	28	19	22
Kentucky	8	-	-	1	-	-	1	2	4	3	5
Tennessee	1	-	1	-	-	-	-	1	9	6	3
Alabama	1	-	-	-	-	-	-	-	7	1	4
Mississippi	4	-	2	-	-	-	-	2	8	9	10
WEST SOUTH CENTRAL											
Paralytic	32	-	3	2	2	4	1	12	58	30	91
Total	49	-	4	3	7	5	1	20	85	63	178
Arkansas	2	-	-	-	-	-	-	-	13	3	8
Louisiana	15	-	2	2	4	1	-	9	10	4	25
Oklahoma	3	-	-	-	-	-	-	-	13	7	7
Texas	29	-	2	1	3	4	1	11	49	49	138
MOUNTAIN											
Paralytic	11	-	-	-	1	2	-	3	12	4	10
Total	21	-	2	-	1	3	1	7	18	14	26
Montana	9	-	2	-	-	3	-	5	2	2	-
Idaho	4	-	-	-	-	-	-	-	1	-	1
Wyoming	1	-	-	-	-	-	-	-	-	-	3
Colorado	1	-	-	-	-	-	-	-	-	2	6
New Mexico	2	-	-	-	-	-	1	1	3	-	7
Arizona	3	-	-	-	1	-	-	1	12	7	4
Utah	1	-	-	-	-	-	-	-	-	2	5
Nevada	-	-	-	-	-	-	-	-	-	1	-
PACIFIC											
Paralytic	107	1	4	6	8	3	15	37	31	29	27
Total	123	1	5	6	8	3	17	40	38	38	82
Alaska	2	-	-	1	-	1	-	2	-	-	-
Washington	7	-	1	-	-	-	-	1	3	-	-
Oregon	16	-	-	-	-	-	4	4	6	1	4
California	94	1	4	4	7	2	13	31	29	25	78
Hawaii	4	-	-	1	1	-	-	2	-	12	-
Puerto Rico	213	14	9	18	20	25	36	122	-	14	1

Table II

POLIOMYELITIS AND QUADRUPLE ANTIGEN VACCINE REPORTS*

(Data provided by the Polio Vaccine Activity, BSS, USPHS, through June 17, 1960)

POLIOMYELITIS VACCINE SHIPPED (1000's cc's)

Period	National Foundation	Public Agencies	Commercial Channels	Export	Total
1955	13,541	7,893	6,223	--	27,657
1956	194	45,588	24,784	6,477	77,043
1957	154	50,026	38,062	12,784	101,026
1958	203	18,533	28,319	33,571	80,626
1959	160	26,160	37,553	21,161	85,034
1960					
Jan-March	--	4,298	5,371	2,782	12,451
April	--	1,786	2,991	1,294	6,071
May	--	2,093	3,496	1,099	6,688
<u>Week Ending</u>					
6-3	--	420	579	80	1,079
6-10	--	158	654	137	949
Total to Date	--	8,755	13,091	5,392	27,238
Cumulative Total	14,252	156,955	148,032	79,385	398,624

* Excludes amounts of outdated unshipped vaccine.

QUADRUPLE ANTIGEN VACCINE SHIPPED (in cc's)

Period	Public Agencies	Commercial Channels	Export	Total
1959	157,251	4,019,577	59,143	4,235,971
1960				
Jan-March	117,915	1,307,923	64,700	1,490,538
April	43,317	502,731	1,989	548,037
May	60,156	604,436	27,117	691,709
<u>Week Ending</u>				
6-3	3,038	187,092	9,273	199,403
6-10	20,542	160,108	1,374	182,024
Total to Date	244,968	2,762,290	104,453	3,111,711
Cumulative Total	402,219	6,781,867	163,596	7,347,682