



POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 208

AUGUST 26, 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

There was a twenty percent increase in total cases of poliomyelitis reported to NOVS this week. The actual number of paralytic cases did not increase, but there was an increase in unspecified cases, a fair proportion of which are undoubtedly paralytic. The total for the current week was 154 cases, of which 94 were paralytic. For the previous week, the total was 128, including 96 paralytic.

The increase reflects the official reporting of the outbreak in Kentucky, which was described in PSU Report No. 207, a newly reported outbreak in Somerset County, Pennsylvania, and moderate increases in New York, Indiana, and California. All other previously reported outbreaks have shown decreased activity.

Narrative reports are included from Rhode Island, New York City, Pennsylvania-Maryland, New Jersey, Indiana, Kentucky, Wyoming and California.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

(Note: The preliminary figures of 123 total cases, 91 paralytic, reported to NOVS last week have been revised to 128 total cases, 96 paralytic - SEE TABLE I).

A total of 154 cases, 94 paralytic, was reported to the National Office of Vital Statistics during the 33rd week of 1960, ending August 20. There is a 20 percent increase in the total number of cases compared to figures for the previous week. Although there was no increase in paralytic cases, there was an increase from 7 to 22 unspecified cases, many of which are now known to be paralytic. During the corresponding week in 1959, a total of 486 cases, 285 paralytic, was reported to NOVS.

The 1960 cumulative total now stands at 1,235 cases, of which 865 are paralytic. It appears that aseptic meningitis is increasingly being reported as an entity distinct from nonparalytic poliomyelitis. This is reflected in the higher proportion of total cases reported as paralytic. Cumulative totals for the past five years are presented below:

	<u>1960</u>	<u>1959</u>	<u>1958</u>	<u>1957</u>	<u>1956</u>
Paralytic	865	2,201	835	1,057	3,437
Total	1,235	3,401	1,691	3,242	7,169
% Paralytic	70.0	64.7	49.4	32.6	47.9

2. REPORTS

A. Rhode Island

Dr. R.F. McAteer, Medical Director, Division of Communicable Diseases, Rhode Island Department of Health, reports 5 cases of poliomyelitis during

the past week in the metropolitan Providence area. This brings the total number of cases reported to the State Health Department through August 23, to 85, of which 68 are paralytic.

There remain an additional 19 cases, of which only 6 are paralytic, under investigation by Dr. Joseph Oren, Chief, Poliomyelitis Surveillance Unit, CDC. Of the total 74 paralytic cases, 42 percent have received no vaccine, while 15 percent have had three or more injections of Salk vaccine. The remaining 43 percent have had one or two injections, most of which were given during recent mass vaccination programs. These cases, investigated by Dr. Jack Pickering, EIS Officer, constitute the majority of under 30-day cases reported to the Polio Surveillance Unit this week (See Section 4).

It is noted by Dr. Oren that 6 of the last 14 cases reported are over 20 years of age. Of these 6, three are nonparalytic and scattered throughout the State. Over half the paralytic cases remain in the pre-school age group.

B. New York City

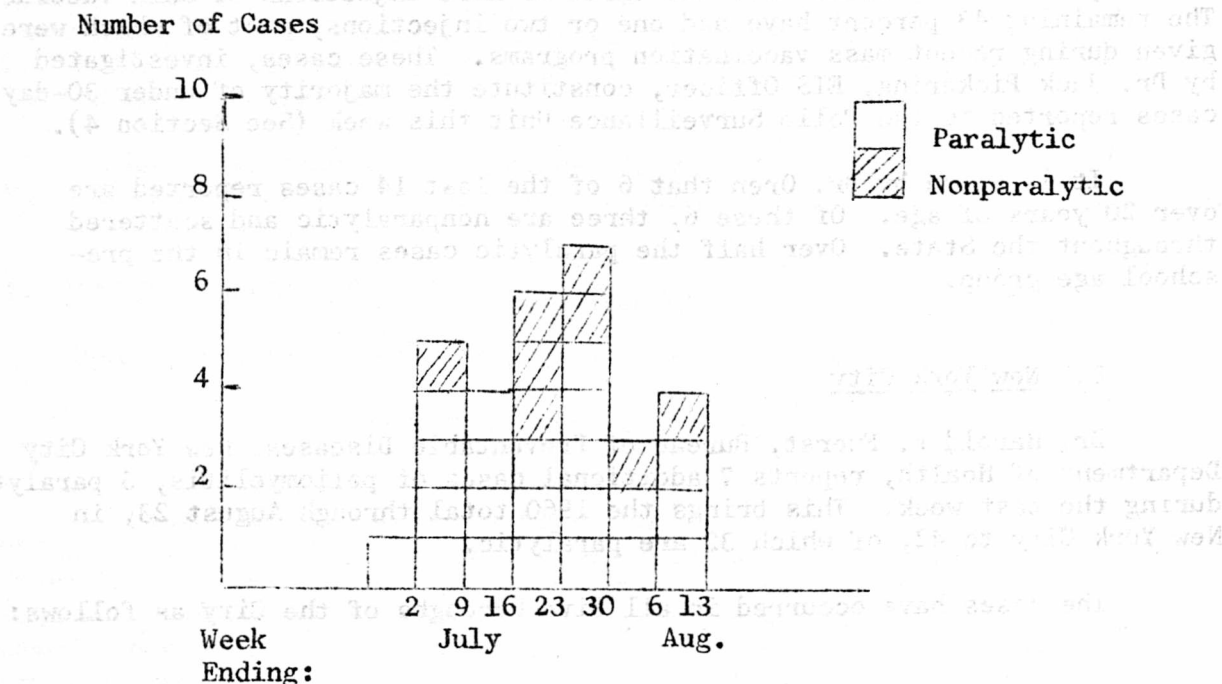
Dr. Harold F. Fuerst, Bureau of Preventable Diseases, New York City Department of Health, reports 7 additional cases of poliomyelitis, 5 paralytic, during the past week. This brings the 1960 total through August 23, in New York City to 42, of which 32 are paralytic.

The cases have occurred in all five boroughs of the City as follows:

<u>Borough</u>	<u>Month of Onset</u>				<u>Total</u>
	<u>Jan-May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	
Manhattan	1	0	13	2	16
Kings	3	2	4	4	13
Bronx	1	1	5	1	8
Queens	3	0	1	0	4
Richmond	1	0	0	0	1
Total	9	3	23	7	42

The 30 cases which have had onset since the end of June appear as follows by paralytic status:

New York City Poliomyelitis Cases by Week of Onset



Fifty percent of the paralytic cases with known vaccination status (14 out of 28) are unvaccinated while one-fourth have received three or more doses of vaccine. There have been 19 Type I poliovirus isolations, and 1 Type II isolation thus far in 1960.

Week Ending	Paralytic	Nonparalytic	Total
July 2	0	1	1
July 9	1	3	4
July 16	2	2	4
July 23	3	3	6
July 30	2	4	6
August 6	1	2	3
August 13	1	3	4

C. Pennsylvania-Maryland

Dr. William D. Schrack, Jr., Director, Communicable Disease Control, Pennsylvania Department of Health, reports that of the 12 cases reported to NOV5 for the week ending August 20, 8 are from Somerset County in Southwestern Pennsylvania. There have now been 11 cases in this county thus far in 1960, all of which are paralytic. These cases are listed as follows:

<u>Date of Onset</u>	<u>Town</u>	<u>Age</u>	<u>Race</u>	<u>Sex</u>	<u>Vaccination Status</u>	<u>Paralytic Status</u>	<u>Comments</u>
5-13	Somerset	3	W	F	3V	P	Type III isolation
6-19	Gray	4	W	M	0V	P	Type III isolation
7-22	Boswell	6	W	F	0V	P	Type III isolation
7-22	Meyersdale	9	W	F	0V	P	
7-27	Somerset	10	W	M	2V	P	Bulbar-Type III
7-31	Somerset	4	W	M	2V	P	Type III isolation
8-8	Meyersdale	4	W	M	0V	P	Bulbar
8-9	Meyersdale	1	W	F	0V	P	
8-10	Berlin	6	W	F	3V	P	
8-11	Somerset	10	W	F	3V	P	Fatality
8-12	Rockwood	5	W	M	0V	P	

The five isolations of Type III poliovirus constitute the heaviest concentration of Type III poliovirus in the nation reported thus far this year. Polio in this area of Pennsylvania was largely due to Type III poliovirus during 1959. Dr. Michael Regan, Assistant Chief, Poliomyelitis Surveillance Unit, is in Somerset County, assisting in the investigation.

There have also been 6 cases of poliomyelitis in neighboring Garrett and Allegany Counties, Maryland. Dr. Glen E. Gresham, EIS Officer assigned to the Maryland State Health Department, reports that 5 of these are paralytic and none have received more than one dose of vaccine. These cases have had onset 7-23, 8-9, 8-13, 8-16, 8-17, and 8-20. Laboratory specimens are under study.

There have also been 7 paralytic cases in Baltimore with onset over the past six weeks. Five of these cases are in the Negro population and two have yielded Type III poliovirus.

D. New Jersey

Dr. William J. Dougherty, Director, Preventable Disease Control, New Jersey State Department of Health, reports that only one case of paralytic poliomyelitis has occurred in the Jersey City-Hoboken area during the past week. This brings the yearly total in Hudson County for 1960 to 10 paralytic cases. A previously reported nonparalytic case has been proven to be a Coxsackie infection. During this sudden and short-lived outbreak in Hudson County, there were over 7,000 doses of vaccine given in Hoboken and over 10,000 doses given in Jersey City.

Through August 25, there have now been 36 cases in New Jersey, of which 30 are paralytic. Of these 30 paralytic cases, 23 are unvaccinated and 19 have occurred since July 2, as follows:

Week Ending:	7-9	7-15	7-22	7-30	8-6	8-13	8-20
No. of Paralytic Cases:	1	1	7	5	1	2	2

Dr. Ronald Altman, EIS Officer, assigned to the New Jersey State Health Department, has been active in the investigation of this outbreak.

E. Indiana

Dr. Googins, epidemiologist, Indiana State Board of Health, reports an additional 12 cases of poliomyelitis during the past week (through August 23). This brings the 1960 state total to 31 cases, of which 15 are paralytic, 6 nonparalytic, and 10 unspecified at this time.

Of the 31 cases, 14 have occurred in Indianapolis since July 11. Of these 14, 8 are paralytic, 1 is nonparalytic, and 5 are unspecified. None of the paralytic cases have received any vaccine and are predominantly of pre-school age.

There is no concentration of cases elsewhere in the state.

F. Kentucky

Dr. Jack Evans, EIS Officer, assisting Dr. Patrician Conlan and Mr. Clifford Todd, Bureau of Medical Services, Kentucky State Department of Health, reports a total of 21 cases of poliomyelitis in Taylor County, Kentucky since July 29. Of these cases, 9 are paralytic and 12 nonparalytic and have occurred as follows:

Week Ending:	7-30	8-6	8-13	8-20
Paralytic Cases:	1	0	5	3
Nonparalytic Cases:	0	1	4	7
Total	1	1	9	10

Although 19 of the 21 cases have had onset during the past two weeks, there have been no new cases during the current week through August 25. Of the 21 cases, 18 are unvaccinated and the other 3 have

not received more than two doses of vaccine. There have been 5,880 doses of vaccine given since the start of the outbreak.

The age distribution by paralytic status is as follows:

<u>Age</u>	<u>Paralytic</u>	<u>Nonparalytic</u>	<u>Total</u>
0-4	1	0	1
5-9	2	2	4
10-19	3	6	9
20-29	1	3	4
30+	<u>2</u>	<u>1</u>	<u>3</u>
Total	9	12	21

Although this is an unusual age distribution for poliomyelitis, type I poliovirus has been isolated from two nonparalytic cases and from the brother of a paralytic case.

G. Wyoming

Dr. Cecil R. Reinstein, Director, Division of Preventive Medicine, Wyoming Department of Public Health, reports that of the 6 cases of poliomyelitis reported to NOVS during the past month, 3 have occurred in the City of Casper.

These three paralytic cases were all unvaccinated and had onsets on July 30, August 3, and August 5. There have been no additional cases in Casper since this time.

H. California

Dr. Henry R. Renteln, Surveillance Unit, Bureau of Acute Communicable Diseases, California State Department of Public Health, reports a total of 208 paralytic cases of poliomyelitis in California during the first 33 weeks of the year (through August 20). This total is an increase of 41 cases over the number of paralytic cases reported for the comparable time period last year. The attack rate for this period has slightly risen from 1.1 per 100,000 in 1959 to 1.3 in 1960.

The greatest number of cases reported this year has been from the densely populated areas in Southern California. Los Angeles County has reported 99 paralytic cases (46 of which are from the City of Los Angeles), San Diego has reported 15 and Orange County has reported 16 cases. These three counties account for 63 percent of the cases reported thus far for this year, while these same counties account for an estimated 50 percent of the state's total population.

Individual case reports have been received by the California State Department of Public Health on 155 paralytic cases having onset of illness in 1960. Almost three-fourths of the cases have been in children

under 15 years of age and nearly one-half of the cases have been in the pre-school age group, 0-4 years of age. Fifty-seven percent of the 155 cases had never had any vaccine at all, while 20 percent had received three or more injections of Salk vaccine. In the pre-school age group, 62 percent of the cases are unvaccinated, while only 8 percent had received three or more injections of Salk vaccine. It is estimated that approximately 60 percent of the population in this 0-4 age group have received three or more injections of vaccine. The age distribution and vaccination status of these cases are shown as follows:

Age Group	Vaccination Status					Total
	0V	1V	2V	3V	4+V	
0-4	45	9	10	7	2	73
5-9	18	2	5	10	1	36
10-19	1	3	2	5	-	11
20-29	11	1	1	4	-	17
30+	13	3	-	-	2	18
Total	88	18	18	26	5	155

These three paralytic cases were all unvaccinated and had onset on July 30, August 3, and 5, respectively. There have been no additional cases in California since this time.

California

Dr. Henry R. Remick, Surveillance Unit, Bureau of Communicable Diseases, California State Department of Public Health, reports a total of 308 paralytic cases of poliomyelitis in California during the first 10 months of the year (through August 10). This total is an increase of 61 cases over the number of paralytic cases reported for the comparable time period last year. The attack rate for this period has roughly tripled from 1.1 per 100,000 in 1952 to 3.3 in 1953.

The greatest number of cases reported this year has been from the densely populated areas in Southern California. Los Angeles County has reported 89 paralytic cases (46 of which are from the City of Los Angeles). San Diego has reported 15 and Orange County has reported 12 cases. These three counties account for 83 percent of the cases reported thus far for this year, while those same counties account for an estimated 50 percent of the state's total population.

Individual case reports have been received by the California State Department of Public Health on 155 paralytic cases having onset of illness in 1953. Almost three-fourths of the cases have been in children under 15 years of age.

3. 1960 POLIOMYELITIS CASES REPORTED TO PSU

Through August 22, there have been 778 cases of poliomyelitis with onset in 1960 reported to PSU on individual case forms. Of these cases, 586 are paralytic, 168 nonparalytic, and 24 unspecified. Thus 63 percent of the total cases reported to NOVS through August 20 have been reported to PSU.

Detailed analysis of the cases reported to NOVS in 1960 reveal that approximately 100 cases actually had onset in 1959. Therefore, considering only those cases with onset in 1960, 69 percent of the cases reported to NOVS have been reported to PSU.

TABLE 3

POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP
AND VACCINATION STATUS REPORTED ON PSU FORMS
(Through August 22, 1960)

Age Group	Paralytic						Tot
	Doses of Vaccine						
	0	1	2	3	4+	Unk	
0-4	159	39	30	31	9	13	281
5-9	50	9	15	32	19	6	131
10-14	11	3	4	18	5	4	45
15-19	14	5	3	5	1	3	31
20-29	30	4	4	5	2	4	49
30-39	21	4	4	1	2	2	34
40+	13	-	-	1	-	1	15
Unk.	-	-	-	-	-	-	-
Total	298	64	60	93	38	33	586
PER CENT DOSES	53.9	11.6	10.8	16.8	6.9	-	100.0

Age Group	Nonparalytic						Tot
	Doses of Vaccine						
	0	1	2	3	4+	Unk	
0-4	17	4	7	10	6	4	48
5-9	5	3	4	14	9	5	40
10-14	3	2	-	12	6	-	23
15-19	3	-	2	9	6	1	21
20-29	3	1	3	7	2	5	21
30-39	2	1	1	4	3	-	11
40+	3	-	1	-	-	-	4
Unk.	-	-	-	-	-	-	-
Total	36	11	18	56	32	15	168
PERCENT DOSES	23.5	7.2	11.8	36.6	20.9	-	100.0

4. ROUTINE POLIOMYELITIS SURVEILLANCE

A. CASES WITH ONSET WITHIN 30 DAYS OF VACCINATION

During the past week, the Poliomyelitis Surveillance Unit was notified of 22 cases of poliomyelitis, 21 paralytic, with onset within 30 days of vaccination. The 1960 total now stands at 45. Of these, 35 are paralytic (5 correlated) and 10 nonparalytic.

It must be noted that 14 of the cases listed this week are from the epidemic area in Rhode Island, scene of mass vaccination programs. These cases have occurred throughout the epidemic with the majority appearing during July. Of these Rhode Island cases, 8 are associated with two lots of vaccine---Pittman-Moore 175B137 and Merke, Sharpe and Dohme 63788. Investigation by Dr. Jack Pickering, EIS officer, reveals that, due to the epidemic conditions, there has been no unusual association with any one vaccine.

The paralytic cases reported this week are presented in Table II. Additional information is also listed on three previously reported under-30-day cases.

B. VACCINE DISTRIBUTION

The summary of current and cumulative data concerning poliomyelitis vaccine and quadruple antigen vaccine shipped is presented in Table III. Also included in this week's report is Figure II which depicts quarterly shipments of poliomyelitis vaccine since 1955.

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

FIG. 1 CURRENT U.S. POLIO INCIDENCE
 COMPARED WITH YEARS 1955-1959, APR.-DEC., BY WEEK

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS

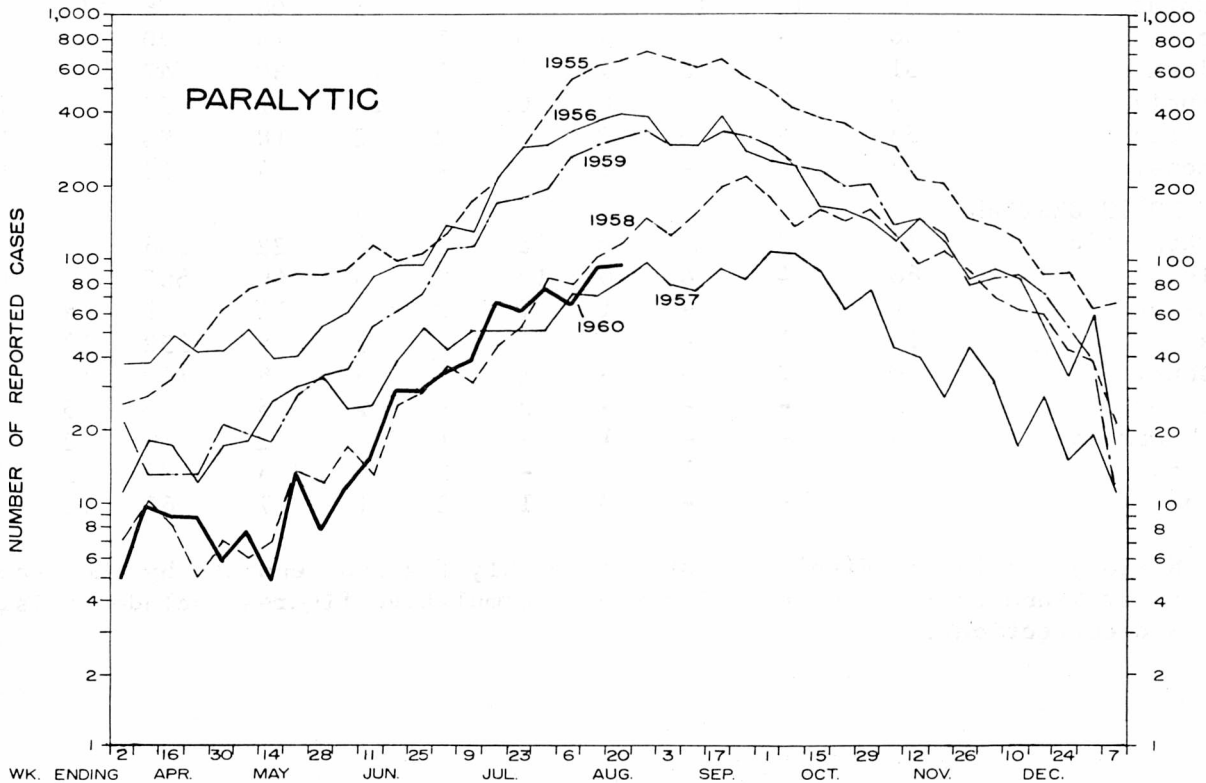
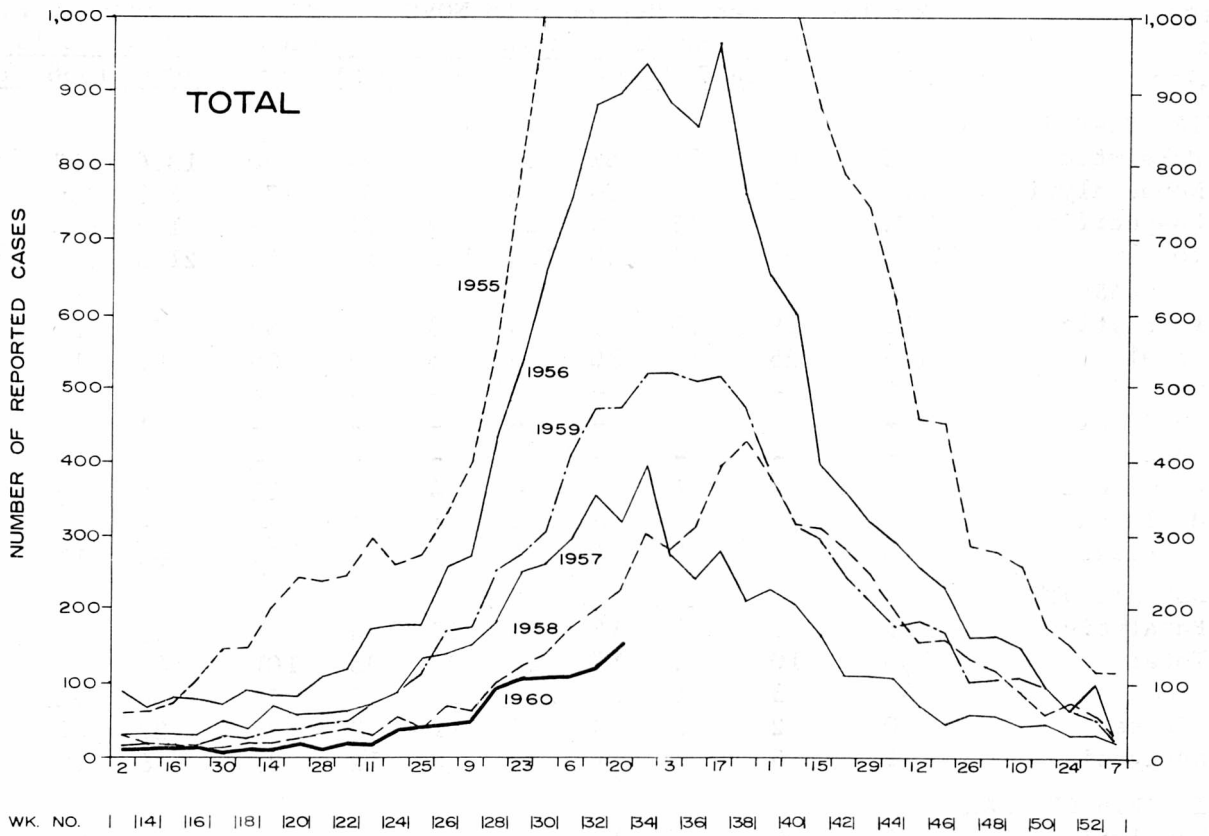


Table 1

TREND OF 1960 POLIOMYELITIS INCIDENCE

State and Region	Cumulative 1960	Cases Reported to NOV5*						Six Week Total	Comparable Six Weeks Totals in:		
		For Week Ending							1959	1958	1957
		7-16	7-23	7-30	8-6	8-13	8-20				
UNITED STATES											
Paralytic	865	69	71	81	69	96	94	480	1396	467	379
Nonparalytic	269	21	29	26	33	25	38	172	627	360	1002
Unspecified	101	5	13	6	10	7	22	63	175	154	294
Total	1235	95	113	113	112	128	154	715	2198	981	1675
NEW ENGLAND											
Paralytic	93	19	10	9	6	3	5	52	56	10	5
Total	113	25	14	10	6	5	8	68	87	18	22
Maine	6	-	-	-	-	-	-	-	1	-	2
New Hampshire	-	-	-	-	-	-	-	-	1	1	3
Vermont	-	-	-	-	-	-	-	-	-	1	-
Massachusetts	17	-	1	3	-	4	3	11	20	3	7
Rhode Island	80	24	11	6	4	1	1	47	-	2	-
Connecticut	10	1	2	1	2	-	4	10	65	11	10
MIDDLE ATLANTIC											
Paralytic	111	7	3	14	10	18	24	76	83	72	16
Total	150	10	4	16	14	22	35	101	140	125	83
New York	89	3	1	12	11	5	20	52	80	52	46
New Jersey	30	2	2	3	3	11	3	24	22	57	22
Pennsylvania	31	5	1	1	-	6	12	25	38	16	15
EAST NORTH CENTRAL											
Paralytic	82	6	8	10	8	9	18	59	125	86	90
Total	162	10	18	13	23	16	28	108	276	215	482
Ohio	36	-	3	-	6	1	5	15	70	47	98
Indiana	31	1	8	2	4	4	11	30	47	14	44
Illinois	55	7	1	8	6	9	10	41	53	26	99
Michigan	33	2	6	2	4	2	2	18	94	117	139
Wisconsin	7	-	-	1	3	-	-	4	12	11	102
WEST NORTH CENTRAL											
Paralytic	37	2	3	4	8	4	1	22	256	21	25
Total	68	4	4	6	13	8	5	40	505	51	158
Minnesota	24	-	-	1	7	2	-	10	61	4	26
Iowa	12	1	-	1	1	1	1	5	152	13	22
Missouri	10	2	3	-	1	-	-	6	160	15	43
North Dakota	5	-	-	-	3	-	2	5	2	5	4
South Dakota	3	-	-	1	-	1	-	2	6	2	23
Nebraska	5	1	1	-	-	2	1	5	57	2	18
Kansas	9	-	-	3	1	2	1	7	67	10	22

* 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:		
		7-16	7-23	7-30	8-6	8-13	8-20		1959	1958	1957
		SOUTH ATLANTIC									
Paralytic	140	9	13	14	15	21	12	84	240	79	70
Total	199	15	26	24	22	26	18	131	310	195	266
Delaware	-	-	-	-	-	-	-	-	1	8	2
Maryland	7	-	-	-	1	1	4	6	7	3	3
D. C.	-	-	-	-	-	-	-	-	3	4	15
Virginia	7	-	-	2	1	3	1	7	82	34	24
West Virginia	18	1	2	3	-	3	2	11	30	28	9
North Carolina	39	-	4	2	9	4	2	21	80	30	123
South Carolina	81	12	15	14	11	12	8	72	18	5	37
Georgia	6	-	1	-	-	-	1	2	49	4	19
Florida	41	2	4	3	-	3	-	12	40	79	34
EAST SOUTH CENTRAL											
Paralytic	46	6	7	5	2	8	3	31	205	25	34
Total	65	6	7	5	3	8	18	47	254	87	119
Kentucky	22	-	-	-	-	-	14	14	15	3	39
Tennessee	11	1	1	-	1	3	3	9	106	29	33
Alabama	9	4	1	1	-	1	-	7	111	14	10
Mississippi	23	1	5	4	2	4	1	17	22	41	37
WEST SOUTH CENTRAL											
Paralytic	92	7	13	12	6	8	5	51	255	97	76
Total	157	12	22	23	13	10	9	89	397	163	278
Arkansas	14	3	2	2	1	-	3	11	97	4	20
Louisiana	40	3	4	4	3	1	3	18	40	15	36
Oklahoma	8	1	3	-	1	-	-	5	65	21	49
Texas	95	5	13	17	8	9	3	55	195	123	173
MOUNTAIN											
Paralytic	19	-	4	-	-	2	-	6	21	16	16
Total	39	-	4	3	2	5	2	16	44	47	59
Montana	13	-	2	-	-	1	-	3	4	28	2
Idaho	5	-	-	-	-	1	-	1	2	4	10
Wyoming	7	-	-	1	2	2	1	6	-	-	13
Colorado	5	-	2	-	-	-	1	3	5	3	6
New Mexico	2	-	-	-	-	-	-	-	10	6	23
Arizona	4	-	-	-	-	1	-	1	21	3	12
Utah	3	-	-	2	-	-	-	2	-	3	2
Nevada	-	-	-	-	-	-	-	-	2	-	1
PACIFIC											
Paralytic	245	13	10	13	14	23	26	99	155	61	47
Total	282	13	14	13	16	28	31	115	185	80	208
Alaska	2	-	-	-	-	-	-	-	10	-	-
Washington	16	-	-	3	-	5	1	9	40	5	2
Oregon	20	-	2	1	-	1	-	4	48	5	12
California	238	12	12	9	16	21	30	100	87	44	194
Hawaii	6	1	-	-	-	1	-	2	-	26	-
TERRITORIES											
Puerto Rico	388	19	31	16	12	10	20	108	-	8	15

Table II

PARALYTIC POLIOMYELITIS OCCURRING WITHIN 30 DAYS OF LAST VACCINE INOCULATION
(Cases Reported to PSU from August 16 through August 22, 1960)

State	County	Ini- tials	Age	Sex	Date Inoc.	Mfr. Lot No.	Date First Symp.	Site Inoc.	Site First Para.
Calif.	Los Angeles	D.H.	4	M	7-25-60	Wyeth 1G471A or B	7-29-60	left arm	right leg
Conn.	Windham	J.B.	4	M	8-6-60	PM 175D137	8-12-60	arm	left leg
Ohio	Medina	M.H.	10mos.	M	7-29-60	PD 061737A	8-3-60	hip	not localized
					(Comment: patient died 8-12-60)				
R.I.	Providence	L.H.	4	F	6-25-60	PM 175B137	6-27-60	left arm	back
R.I.	Providence	J.H.	2	F	6-23-60	MSD 63788	6-25-60	right arm	right facial
R.I.	Kent	G.B.	2	M	6-20-60	Lilly unk.	6-29-60	left arm	unk.
R.I.	Providence	H.C.	4	M	6-29-60	unk. unk.	7-5-60	unk.	left arm pector- alis deltoid
R.I.	Providence	S.C.	4	F	6-25-60	PM 175B137	7-6-60	left arm	back
R.I.	Providence	R.K.	3	M	6-25-60	PM 175B137	7-12-60	unk.	left facial
R.I.	Providence	D.G.	1	F	6-13-60	MSD 63788	7-3-60	right arm	right arm
R.I.	Kent	L.L.	2	F	7-15-60	PM 175B137	7-17-60	unk.	right facial
R.I.	Providence	R.H.	8mos.	M	7-18-60	PM 175B137	7-21-60	left arm	facial
R.I.	Kent	E.F.	8mos.	F	6-27-60	unk. unk.	7-19-60	unk.	unk.
R.I.	Providence	W.A.	2	M	7-18-60	PM 175B137	7-19-60	left arm	general- ized
R.I.	Providence	R.I.	2	M	7-6-60	MSD 63788	7-21-60	left arm	left facial

Table II (Continued)

State	County	Ini- tials	Age	Sex	Date		Mfr. Lot No.	Date First Symp.	Site Inoc.	Site First Para.
					Inoc.	Inoc.				
R.I.	Washington	H.W.	7 mos.	F	7-23-60	unk.	unk.	7-30-60	unk.	unk.
		(Comment: patient died 8-5-60)								
R.I.	Providence	S.P.	9	F	7-6-60	unk.	unk.	7-27-60	unk.	unk.
S.C.	York	A.T.	9	F	7-18-60	unk.	unk.	7-28-60	unk.	unk.
S.C.	Spartanburg	E.P.	2	F	8-2-60	Wyeth	unk.	8-5-60	left arm	L.L. R.L. resp.
S.C.	Pickens	J.F.	22	M	7-30-60	Wyeth	unk.	8-5-60	left arm	bulbar
S.C.	Cherokee	M.M.	4	M	7-15-60	unk.	unk.	7-18-60	unk.	unk.

Additional information received on Massachusetts Case E.W. listed in Report 207 indicates site of inoculation - right arm and vaccine manufacturer - Lilly or Wyeth.

Additional information received on South Carolina Case R.C. listed in Report 205 indicates site of first paralysis - respiratory muscles and vaccine lot number - 37101.

Additional information received on South Carolina Case R.M. listed in Report 205 indicates site of first paralysis - weakness back muscles and legs and vaccine lot number - 37101.

Table III

POLIOMYELITIS AND QUADRUPLE ANTIGEN VACCINE REPORTS

(Data provided by the Polio Vaccine Activity, BSS, USPHS, through August 12, 1960)

POLIOMYELITIS VACCINE SHIPPED (1000's cc's)

Period	National Foundation	Public Agencies	Commercial Channels	Domestic Total	Export
1955	13,541	7,893	6,223	27,657	--
1956	194	45,588	24,784	70,566	6,477
1957	154	50,026	38,062	88,242	12,784
1958	203	18,533	28,319	47,055	33,571
1959	160	26,160	37,553	63,873	21,161
1960					
Jan-March	--	4,298	5,371	9,669	2,782
April-June	--	6,149	9,763	15,912	3,498
<u>Week Ending</u>					
7-8	--	480	621	1,101	95
7-15	--	1,175	500	1,675	106
7-22	--	245	608	853	70
7-29	--	839	553	1,392	158
8-5	--	487	711	1,198	58
1960 Total to Date	--	13,673	18,127	31,800	6,767
Cumulative Total	14,252	161,873	153,068	329,193	80,760

QUADRUPLE ANTIGEN VACCINE SHIPPED (1000's cc's)

1959		157	4,020	4,177	59
1960					
Jan-March		118	1,308	1,426	65
April-June		165	1,928	2,093	62
<u>Week Ending</u>					
7-8		14	148	162	2
7-15		9	124	133	13
7-22		13	149	162	1
7-29		10	169	179	3
8-5		42	155	197	10
1960 Total to Date		371	3,981	4,352	156
Cumulative Total		528	8,001	8,529	215
GRAND TOTAL	14,252	162,401	161,069	337,722	80,975

FIGURE II
QUARTERLY SHIPMENTS OF POLIOMYELITIS VACCINE
1955 - 1960

MILLION cc's

