

POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 210

SEPTEMBER 9, 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 sharp increase in both total and paralytic cases of poliomyelitis reported to NOVS this week. The total for the current week was 210 cases of which 116 were paralytic. For the previous week, the total was 148, including 88 paralytic.

This 32 percent rise in paralytic cases represents general increases in many areas throughout the nation with further investigation revealing cases being scattered in these areas with no newly reported outbreaks. Increases in New York, Chio, Illinois and West Virginia represent cases appearing thoughout those states with no concentrations in evidence. A sudden rise in Texas may be attributed to delayed reports, a majority of which are nonparalytic. Delayed cases are also reported from Kentucky, most of which are from the previously described Taylor County outbreak.

Narrative reports are included from Rhode Island, New York, Chio, Illinois, West Virginia and South Carolina.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

A total of 210 cases, 116 paralytic, was reported to the National Office of Vital Statistics during the week ending September 3. This is an increase in both total and paralytic cases over the number reported last week and brings the cumulative 1960 total to 1,594 cases of which 1,075 are paralytic. These figures are presented in the following table:

	1960	1959	1958	1957	1956
Paralytic	1,075	1959 2,828	1,108	1,229	4,108
Total				3,915	9,003

As can be seen from the above table and Figure I, while the cumulative total and paralytic cases reported in 1960 are lower than the past four years, the sharp increase in paralytic cases reported the current week has surpassed the number of paralytic cases reported during the corresponding week in 1957.

The 32 percent increase in paralytic cases and 42 percent increase in total cases seen this week is reflected mainly in the East North Central and West South Central regions. The rise in total cases in the East South Central region is due to unspecified reports received from Kentucky.

2. REPORTS

A. Rhode Island

Through September 6, 1960, a total of 111 poliomyelitis cases, 77 paralytic, have been reported from the three-month old epidemic in Rhode Island. Of this total, 91 cases have been reported to the National Office of Vital Statistics and 20 are not yet reported or still under investigation.

B. New York

Through September 1, 1960, there has been a total of 71 cases of poliomyelitis reported in New York (exclusive of New York City), of which 56 are paralytic, 11 nonparalytic and 4 unspecified. Of these cases reported in 1960, 16 paralytic, 3 nonparalytic and 1 unspecified are delayed reports from 1959.

Thus, 51 cases, 40 paralytic, have had onset in 1960. There has been no concentration of cases throughout the state with 8 cases (6 paralytic) in Cattaraugus County being the highest total in any one county. Polio Surveillance Reports have been received on all 51 cases with onset in 1960 and reveal that only 28 of these have had onset since August. This is shown below:

Week Ending	Pr	<u>8-6</u>	8-13	8-20	8-27	<u>9-3</u>
Paralytic cases	mag Am	6	4	7	1	0
Nonparalytic cases	•	3	1	3	0	0
Unspecified		0	0	1	1	1

C. Ohio

Dr. Winslow Bashe, Chief, Communicable Diseases, Ohio Department of Health, reports that the increase to 19 cases reported last week to NOVS represents no concentration of cases in any one area of the state. The 1960 cumulative total now stands at 62 cases, of which only 48, 20 paralytic, have had onset in 1960.

There have been 4 cases each reported from Van Wert and Cuyahoga Counties and 3 cases each from both Medina and Licking County. These cases have not all had recent onset and represent the highest number of cases reported from any one county. In Ohio this year, poliomyelitis has occurred in predominantly rural areas with most cases being unvaccinated.

D. Illinois

Dr. Norman J. Rose, Chief, Bureau of Epidemiology, Illinois Department of Public Health, reports 22 cases of poliomyelitis, 12 paralytic, to NOVS for the week ending September 3. Although a substantial increase compared to the 9 cases, 6 paralytic, reported the previous week to NOVS, there is no apparent cluster of cases throughout the state.

The 1960 total of 85 cases is broken down as follows:

	Paralytic	Nonparalytic	Total
Illinois (exclusive of Chicago	Chicago) 40 <u>18</u>	25 25 2	65 20
State Total	agnon E .privy58 inc	27	85

Exclusive of Chicago, there have been 9 cases in Cook County, 8 cases in Macon County and 4 cases in Champaign County. Of the 8 cases in Macon, 5 have occurred in the city of Decatur over the past two months. No other county has had more than two cases reported.

E. West Virginia

Dr. L. A. Dickerson, Director of Preventive Medical Services, West Virginia State Department of Health, reports 8 cases of poliomyelitis, 6 paralytic, with onsets since August 7. Though the majority have occurred since August 21, there is no apparent concentration within the State. The State total now stands at 30 for the year.

Two of the 8 cases have been reported from Preston County and 1 from Mineral County; both of these counties lie near the Pennsylvania border and Somerset County, Pennsylvania, site of a recent outbreak of poliomyelitis (see PSU Report #209).

No virus has been isolated as yet from these recent cases, but poliovirus type I was found in earlier cases in the State.

F. South Carolina

Dr. G. E. McDaniel, Director, Division of Disease Control, South Carolina State Board of Health, reports 8 cases of poliomyelitis, 6 paralytic, to NOVS for the week ending September 3, bringing the State total to 94 cases. The 8 cases have had onsets since August 5, and are scattered in the western part of the State, scene of an outbreak earlier this year.

Poliovirus type I has been isolated from many previously reported cases.

3. 1960 POLIOMYELITIS CASES REPORTED TO PSU

During the week ending September 5, 136 cases of poliomyelitis were reported to PSU on individual case forms bringing the 1960 total to 1,007 cases. Of these cases, 740 are paralytic, 242 nonparalytic and 25 unspecified as to paralytic status. Thus, 69 percent of the paralytic cases reported to NOVS through September 3, have been reported to PSU.

These cases are presented below:

TABLE 3

POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP AND VACCINATION HISTORY REPORTED ON PSU FORMS (Through September 3, 1960)

				Par	alytic		
Age			I	oses of	Vaccin	ne	
Group	0	1	2	3	4+	Unk	Tot
0-4	196	48	34	38	11	17	344
5-9	61	14	19	40	22	8	164
10-14	18	5	3	23	6	8	63
15-19	21	4	4	6	1	7	43
20-29	40	5	7	7	2	4	65
30-39	29	5	4	1	2	2	43
40+	15	-	-	1	-	2	18
Unk.	-	-	_	_	-	-	_
Total	380	81	71	116	44	48	740
PER	54.9	11.7	10.3	16.8	6.4	-	100.0
CENT							
DOSES							

	Nonparalytic Doses of Vaccine										
Age											
Group	0	1	2	3	4+	Unk	Tot				
0-4	27	6	7	12	9	5	66				
5-9	7	6	5	19	18	8	63				
10-14	4	3	-	14	11	-	32				
15-19	3	_	4	9	9	1	26				
20-29	7	2	4	12	3	5	33				
30-39	4	2	2	4	3	1	16				
40+	5	-	1	-	-	-	6				
Unk.	-	-	-	_	-	-	-				
Total	57	19	23	70	53	20	242				
PER CENT	25.7	8.6	10.4	31.5	23.9	-	100.0				
CENT											

DOSES

4. ROUTINE POLIOMYELITIS SURVEILLANCE

A. Cases with Onset within 30 Days of Vaccination

During the week ending September 5, the Poliomyelitis Surveillance Unit was notified of 10 cases of poliomyelitis, 7 paralytic, with onset within 30 days of vaccination. The 1960 total now stands at 60. Of these, 47 are paralytic (6 correlated) and 13 nonparalytic.

The paralytic cases reported this week are presented in Table II. The two cases from Bristol County, Massachusetts, both fatalities, are siblings who received their inoculation on the same date. Information is being sought concerning unknown information.

B. Vaccine Distribution

The summary of current and cumulative data concerning poliomyelitis vaccine and quadruple antigen vaccine shipped is presented in Table III.

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4					21	
			No.			20-29
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(This report was prepared by the Poliomyelitis and Poliolike Diseases Surveillance Unit, Michael J. Regan, M.D., and Mr. Leo Morris, Statistician, with the assistance of Statistics Section, CDC.)

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

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS

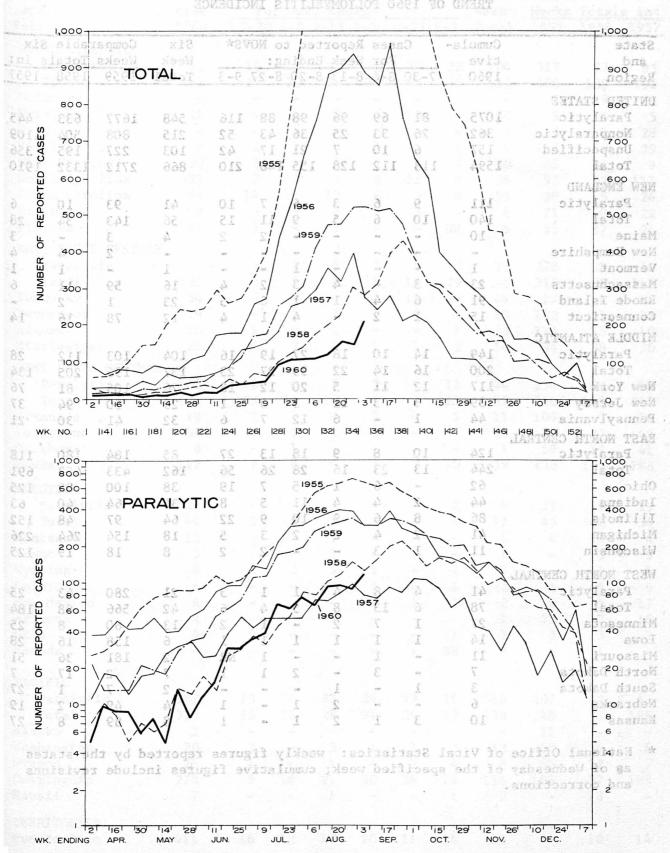


Table 1
TREND OF 1960 POLIOMYELITIS INCIDENCE

State	Cumula-	C	ases	Repor	rted	to NO	VS*	Six		rable	
and	tive		For	Week	Endi	ng:		Week		Total	
Region	1960	7-30	8-6	8-13	8-20	8-27	9-3	Total	1959	1958	1957
UNITED STATES											
Paralytic	1075	81	69	96	98	88	116	548	1677	633	445
Nonparalytic	362	26	33	25	36	43	52	215	808	504	1109
Unspecified	157	6	10	7	21	17	42	103	227	195	356
Total	1594	113	112	128	155	148	210	866	2712	1332	1910
NEW ENGLAND											
Paralytic	111	9	6	3	6	7	10	41	93	10	6
Total	140	10	6	5	9	11	15	56	143	34	28
Maine	10	•	-	_		2	2	4	3	-	3
New Hampshire	-		• -	(, -	_	-	-	-	2	4	4
Vermont	1	•	-	-	1	-		1	-	1	1
Massachusetts	23	3	•	4	3	2	4	16	59	11	6
Rhode Island	91	6	4	1	1	6	5	23	1	2	-
Connecticut	15	1	2	_	4	1	4	12	78	16	14
MIDDLE ATLANTIC											
Paralytic	149	14	10	18	27	19	16	104	103	112	28
Total	200	16	14	22	35	27	23	137	196	205	134
New York	117	12	11	5	20	12	16	76	105	81	76
New Jersey	39	3	3	11	3	8	1	29	50	94	37
Pennsylvania	44	1	-	6	12	7	6	32	41	30	21
EAST NORTH CENTRAL								est file it			
Paralytic	124	10	8	9	18	13	27	85	184	180	118
Total	244	13	23	16	28	26	56	162	433	453	691
Ohio	62	-	6	1	5	7	19	38	100	82	125
Indiana	44	2	4	4	11	- 5	8	34	64	40	63
Illinois	86	8	6	9	10	9	22	64	97	48	152
Michigan	41	2	4	2	2	3	5	18	154	264	226
Wisconsin	11	1	3	-	-	2	2	8	18	19	125
WEST NORTH CENTRAL											
Paralytic	41	4	8	4	1	1	3	21	280	43	25
Total	78	6	13	8	5	4	6	42	566	88	184
Minnesota	27	1	7	2	-	1	2	13	80	8	25
Iowa	14	1	1	1	1	1	1	6	158	16	28
Missouri	11	-	1	-	-	1	NR	2	181	36	51
North Dakota	7	-	3	-	2	1	1	7	2	17	7
South Dakota	3	1	-	1	-	-	_ `	2	7	1	27
Nebraska	6	-	-	2	1	-	1	4	49	2	19
Kansas	10	3	1	2	1	-	1	8	89	8	27

^{*} 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 1 (Continued)

State	Cumula-							Six Week		rable Total	
and Region	1960			8-13				Total		1958	195
SOUTH ATLANTIC	**************************************	11016			gr in			20.56			
Paralytic	182	14	15	21	12	20	22	104	317	87	95
Total	262	24	22	26	18	33	30	153	406	180	260
	u I		_	_	_	_	_		1	9	2
Maryland	21	-	1	13	8Œ 4	10	4	20	9	6	3
D. C.		dol.	TIK	. 5.0			2A 2	Isli	Vinty O	1	28
Virginia	9	2	1	3	_ 1	. 1	. 1	9	117	40	29
West Virginia	30	3	Wye	0 - 3 3	2	3	9	20	48	42	5
North Carolina	Jol. 88 362	2	9	4	2	11	8	36	93	32	
South Carolina	94	14	11	12	8	5	8	58	29	5	24
The register of the control of the c	1-8 94	Jilli .	stau	09421	-8 J	3	9 -	4	71	8	22
Georgia	41	3	_	3	_	-	NR	, ₁ 6	151. 35.	37	24
Florida , May 00-0.	1-8 12	dau 3. x	nu o	gew g	so .	9 -	TIME	.W.L	Pulaski	ું અ	aud de
EAST SOUTH CENTRAL				stol		1 4		W, 5	24		19.2
Paralytic	55	5	2	. 8	3	4	5	27	228	28	36
Total 10 00-8	<u></u> 8109	. das	33	28-60	-818		0129	. 0 . 78	~315s		113
Kentucky	54	-	-	-	14	10	22	46	10 16 or	•	40
Tennessee	19	-	1	3	3	4	4	15	152	31	33
Alabama Jan 03-1	72-710 -00	2021 gd	li d	03-11	- Jr.	T -	8 1	. A. A3	1113		10
Mississippi	26 000	224	2	4	1	1	2	14	34	38	30
WEST SOUTH CENTRAL	Γ.	(00-			ient	pati	:389	mmoD)			
Paralytic	105	12	6	8	5	1	12	44	238	102	69
- InTotal Man 03-		୍ତ23 ଏ	13	10		M 2	25	82	360	169	248
locar	19556	22	1	_	3	_	5	11	106	3	16
Arkansas	40	408	- 3	beit		pati	: 300		37	22	43
Louisiana	8	-	1	_	_	7	_	1	59	19	41
Oklahoma		00127C	8	08-55	-73	M 2	20	59	158	125	148
Texas	- 117	755	0	,	,	2	20	37	130	123	140
MOUNTAIN											
Paralytic	21	-	-	2	-	-	2	4	27	19	19
Total	44	3	2	5	2	1	4	17	45	42	56
Montana	13	` -	-	1	-	-	-	1	4	18	4
Idaho	5	_	_	1	_	_	-	1	-	3	9
Wyoming	8	1	2	2	1	-	1	7		1	4
Colorado						o ha a	tasak	not 2	6	fand4d	155/9
New Mexico	-5 STY 14	t .m.	u Person	nem T al	rkoa z o		d ft 8	2	Jalu9.c	1 15	93 17
Arizona	4	<u>-</u> 33114131		1	-	v (2000a)	_			n.Cmber	
Utah	4	2	_	_	_	_	1	3	3	3	3
Nevada	-	-	-	-	-	-	NR	-	-	1	_
Diame											
PACIFIC	007	1.2	17	22	26	22	10	110	207	50	49
Paralytic	287	13	14	23	26	23	19	118	207	52 72	
Total	333	13	16	28	31	29	22	139	248	73	196
Alaska	2	-	-	-	-	-	2	12	11	-	7
Washington	20	3	-	5	1	1	3	13	65	6	6
Oregon	26	1	-	1	-	2	4	8	66	12	100
California	278	9	16	21	30	26	14	116	106	37	183
Hawaii	7	-	-	1	-	-	1	2	-	18	•
TERRITORIES											
Puerto Rico	411	16	12	10	20	11	14	83		10	14
- JOILO RICO	724	20	~ ~								

182 14 15 21 12 20 22 104 317 87

Table II

PARALYTIC POLIOMYELITIS OCCURRING WITHIN 30 DAYS OF LAST VACCINE INOCULATION (Cases Reported to PSU from August 30 through September 5, 1960)

State	County	Ini- tials	Age	Sex	Date Inoc.	Mfr.	Lot No.	Date First Symp.	Site as	
Calif. 0A 24 32 117	Los Angeles	.H.Q ⁹	14 mos.	F. 2	7-18-60	Wyeth	AV-110 05 Joleh	8-10-60 1 362	right v	left arm
Illinois	Douglas	R.C.	8 6 E	м.	8-13-60	unk.	unk.	8-14-60	Carolic unk.	unk.
Kentucky	Pulaski	.W.L	11 -	F.	one week			08-16-8 A	da. SOUTH CE	
Maryland	Balti- more Cit	R.C.	10 mos.		4*			8-28-60	left arm vio	left
15 .sam 38 30	Bristol	EA.A.		F	7-12-60	Lilly	7 3090 - 0 755 922	7-27-60	unk. BE	
		(Comm	ent: I	patie	nt died	7-29-6	50)	JAHW		
	238rd 1058jrd	II	2 -		7-12-60 nt died 8		755 922	8-7-60	sas iana	. unk. Arkan Louis
Tenn. ESI	Tipton	w.T.	2 6 20	М.	7-27-60	Lilly	7 9001 755 922	8-5-60	left arm	tongue legs & back

Additional information received on Texas Case D.A. listed in Report 209 indicates site of inoculation - left arm, vaccine manufacturer - Parke-Davis, and vaccine lot number - 05839A.

OF

PI

139

Meyada

PACIFIC

Washington

California

Puerto Rico

ttswall

Paralytic

18 &

73 -196

105-127-183

Table III

POLIOMYELITIS AND QUADRUPLE ANTIGEN VACCINE REPORTS
(Data provided by the Polio Vaccine Activity, BSS, USPHS, through August 26, 1960)

POLIOMYELITIS VACCINE SHIPPED (1000's cc's)

	National	Public	Commercial	Domestic	
Period	Foundation	Agencies	Channels	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
Week Ending					
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
8-12	1	120	417	538	50
8-19		1,376	473	1,849	47
1960 Total to Date	1	15,169	19,017	34,187	6,864
Cumulative Total	14,253	163,369	153,958	331,580	80,857
QU	JADRUPLE ANTI	GEN VACCINE	SHIPPED (100	0'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
Week Ending		1.4	1/0	160	
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
8-12		23	153	176	4
8-19		36	150	186	3
1960 Total to Date		430	4,284	4,714	163
Cumulative Total		587	8,304	8,891	222

FOLLOWYELITIS AND QUADRUPLE ANTIGEN VACCINE REPORTS

POLICHMENTE VACCINE SHIFTED 6 700's ec's)

		Larbarana, O		Issolvali	
Acres della				13,761	955
		24,784	388,24	961	335
	88,242		30,026	1.54	100
	47,085				258
101,10	63,873	37,553	1161,08		626
					960
2,782				*1.4*	
864.6	15,912		941,4	yla eta	
23 C PF 3 C	4475		22.64		
					eek Troing
80.1			1,175	44.00	
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			120		
			1,376	2 1 m	
A38, U	34,187		15,109		
128,08	331,580-	829,287	265,265		
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					960
 (1)	1,426	1,308			Jan-Harch
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					eek Ending 7-8
	291	148			
	28 E				
2	123	148			
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2	152 133 152 179	148 124 149 149	A1 9 21 01		7-8 7-15 7-22 7-26 8-3
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