

POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 217

November 14, 1960

Table of Contents

SUMMARY

- CURRENT POLIOMYELITIS MORBIDITY TRENDS
- REPORTS
- 3. 1960 POLIOMYELITIS CASES REPORTED TO PSU
- 4. ROUTINE POLIOMYELITIS SURVEILLANCE



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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

Reports of total and paralytic cases of poliomyelitis received by the NOVS during the 44th week indicate the downward trend of disease incidence expected at this time of year.

Descriptive accounts of a recent outbreak in Missouri and of the declining epidemic in Baltimore are included along with a report from Pennsylvania.

The fatalities reported to PSU thus far in 1960 are presented by age group and vaccination history.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

A total of 87 cases of poliomyelitis, 63 paralytic, was reported to the National Office of Vital Statistics during the 44th week ending November 5. As illustrated in Figure I, the number of total and paralytic cases reported this week continues the declining trend expected at this time of year. The Figure demonstrates also that while the number of total cases of poliomyelitis during the current week has fallen below the comparable total of 1957, paralytic case incidence remains above that of 1957.

The table below compares current six-week summations of total and paralytic cases with those of recent years. The greater reporting of paralytic disease this year than in 1957 is supported also by these seasonal figures.

POLIOMYELITIS

TOTAL FOR 39th THROUGH 44th WEEKS FOR PAST FIVE YEARS

	1960	1959	1958	1957	1956
Paralytic	543	1,273	905	476	1,060
Total	778	1,721	1,767	916	2,683

A decrease in case reporting is evident from 8 of the 9 National Regions (Table I), with delayed reports from Colorado accounting for a small increase in the Mountain Region. Aside from continued occurrence of cases in Baltimore City and a newly reported outbreak in Missouri, no concentrations of disease are apparent.

2. REPORTS

A. Missouri

A concentration of 10 cases of poliomyelitis, 9 paralytic, has occurred in Howell County, Missouri, according to Dr. E. A. Belden, epidemiologist, Missouri Department of Public Health and Welfare. The great majority of these patients reside in rural areas of the county. A preliminary line listing of the cases is presented below.

Age	Race	<u>Sex</u>	Onset Date	Paralytic Status	Vaccination Status
1	W	F	9-19	P	ov ·
9	W	M	9-26	P	OV) Siblings
6	W	M	9-30	P	ov) Storrings
$1\frac{1}{2}$	W	M	10-5	P	?
17	W	M	10-13	P	OV)
19	W	\mathbf{F}	10-13	P	ov) Siblings
8	W	M	10-14	P	?
3	W	M	10-20	NP	ov) Siblings
13	W	F	10-20	P	ov) Sibilings
12	W	F	10-21	P	OV

Preliminary 1960 census estimates indicate the population of Howell County to be 21,847 giving a paralytic attack rate of 41.2/100,000, one of the more sizable rural attack rates this year. Most of the onset dates fall in October, and no case has been reported with onset after October 21. Of interest are the occurrence of disease in three sibling pairs as shown in the listing, the notably poor vaccination status, and the distribution of cases into age groups somewhat older than might be expected considering the nation-wide experience.

Age Group	Cases
0-4	3
5-9	3
10-14	2
15-19	2

B. Maryland

During the ten-day period from October 26 to November 4, only 4 additional paralytic cases of poliomyelitis were reported to the Maryland State Health Department from the city of Baltimore. This brings the total number of cases in Baltimore during 1960 to 95 of which 91 are paralytic.

The outbreak continues to be confined mainly to the lower socioeconomic areas with the Negro attack rate of 14.4/100,000 approximately double the attack rate of 7.8/100,000 among the white population. As of this date, the latest case has had onset on October 24. The paralytic cases are shown below by age group and vaccination status:

Age	,	Dos	ses of		the matter contract that is a second		
Group	0	1	2	3	4+	Unk.	Total
- 44404							The second secon
0-4	22	6	11	6	3	2	50
5-9	8	0	2	8	2	0	20
10-14	1	0	0	5	1	0	7
15-19	0	0	0	0	0	1	1
20+	12	0	1	0	0	0	13
Total	43	6	14	19	6	3	91.
Percent							The street of the same and the same of the same
Doses	48.9	6.8	15.9	21.6	6.8	- 2-3,	100.0

C. Pennsylvania

THE PROPERTY OF THE PARTY OF TH

A total of 113 cases of poliomyelitis, 92 paralytic, has been reported to the Pennsylvania Department of Health according to Dr. I. F. Gratch, Chief, Section of Epidemiology. Of the 7 cases reported this week, 3 are from Allegheny, 2 from Philadelphia, and 1 each from Susquehanna and Potter Counties. No concentration locally within these counties has been evident.

A review of Philadelphia reports this year shows occurrence of 6 cases of poliomyelitis, 5 paralytic, in the city since early August as shown below.

Age	Race	Sex	Onset Date	Paralytic Status	Vaccination Status
1	N	M	8-8	P	3V
22	N	\mathbf{F}	8-15	NP	4V
28	W	F	8-16	P	ov
18	W	M	9-31	P	OV
12	N	M	10-7	P	3V
22	W	M	10-28	P	OV Fatality

Philadelphia has been the scene of an intensive vaccination program, and response has been good according to local health authorities. The cases reported show no localization in the city, and make up a lower total to date than any other in recent years.

3. 1960 POLIOMYELITIS CASES REPORTED TO PSU

Through October 29, 1960, there have been 2,154 cases of poliomyelitis reported to the Poliomyelitis Surveillance Unit on individual case forms. Of these cases, 1,614 are paralytic, 487 nonparalytic and 53 unspecified as to paralytic status.

Thus, 77 percent of the 2,813 total cases reported to NOVS through October 29, have been reported to PSU. In addition, the 1,614 paralytic cases reported to PSU is 84 percent of the 1,922 paralytic cases reported to NOVS at that date. The cases reported to PSU are presented below in Table 3:

TABLE 3

POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP
AND VACCINATION HISTORY REPORTED ON PSU FORMS
(Through October 29, 1960)

	,		Par	ralytic		1.7	
Age	ył.		Doses of	f Vaccine			
Group	0	11	2	3	4+	Unk	Tot
0-4	397	80	83	86	28	36	710
5 -9	149	26	41	90	47	19	372
10-14	32	13	10	42	17	12	126
15-19	48	8	6	17	2	6	87
20-29	128	17	12	12	5	8	182
30-39	73	7	6	5	4	4	99
40+	32	0	0	1	0	4	37
Unk	1	0	0	. 0	0	0	1
Total	860	151	158	253	103	89	1614
PERCENT	56.4	9.9	10.4	16.6	6.7	_	100.0
DOSES							

			Nonpa	ralytic				
Age			Doses of	Vaccine				
Group	0	1	2	3	4+	Unk	V 1 3	Tot
0-4	55	13	12	19	16	8		123
5-9	25	12	15	36	34	10		132
10-14	7	6	1	26	24	1		65
15-19	15	1	7	20	11	0		54
20-29	21	7	5	24	12	8		77
30-39	7	2	5	5	6	2		27
40+	6	0	101	0	0	0		7
Unk	C	0	0	1	165 1 i	0		2
Total	136	41	46	131	104	29		487
PERCENT	29.7	9.0	10.0	28.6	22.7	-		100.0
DOSES								

There have been 122 fatalities due to poliomyelitis reported to PSU through October 29, 1960. In contrast to the great number of cases occurring in the pre-school age group, only 23 percent of the fatalities have been under 5 years of age. Of 117 fatalities with known vaccination history, 63 percent were unvaccinated while 18 percent had three or more doses of vaccine.

Attempts at virus isolation on 32 fatalities yielded 25 with poliovirus. Of these, 18 were type I poliovirus and 7 were type III. The fatalities are presented below by age group and vaccination status.

Age	4314	FR D	Dos	es of	Vacci	ne	
Group	0	1.1	2	3	4+	Unk	Tot
0-4	16	4	1	5	2	0	28
5-9	5	2	1	6	2	0	16
10-14	2	2	1111	3	- 1of	0	9
15-19	4	2	0	0	0	0	6
20-29	20	3	1	2	0	2	28
30-39	15	2	3	0	0	1	21
40+	12	0	0	0	0	2	14
Total	74	15	7	16	5	5	122

4. ROUTINE POLIOMYELITIS SURVEILLANCE

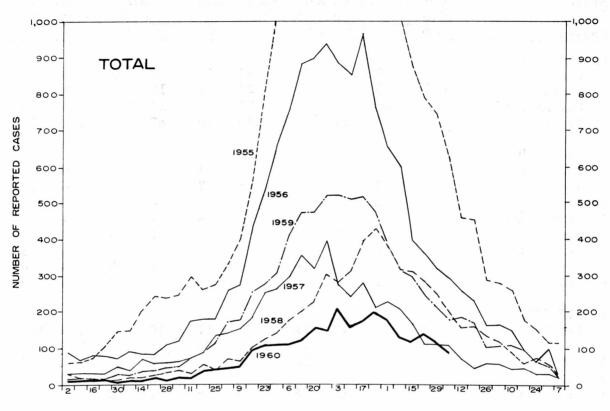
During the period October 18 through 29, the Poliomyelitis Surveillance Unit received accounts of 20 cases of poliomyelitis, 17 paralytic (1 correlated), with onsets within 30 days after inoculation. This brings the yearly total to date to 123 cases, 96 paralytic (9 correlated).

These newly reported cases and additional information on previously reported cases are presented in Table II.

(This report was prepared by the Poliomyelitis and Polio-like Diseases Surveillance Unit, Joseph Oren, M.D., Chief, 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



WK. NO. | |14| |16| |18| |20| |22| |24| |26| |28| |30| |32| |34| |36| |38| |40| |42| |44| |46| |48| |50| |52| |

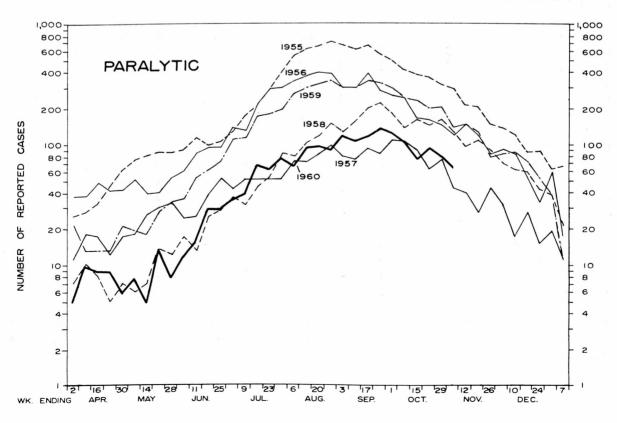


Table I
TREND OF 1960 POLIOMYELITIS INCIDENCE

State	Cumula	_ (Cases	Repor	ted to	NOVS*		Six	Compa	rable	Six
and	tive		For	Week	Ending		V	leek	Weeks	Total	s in
Region	1960	10-1	10-8	10-15	10-22	10-29	11-5	Cotal	1959	1958	1957
UNITED STATES											
Paralytic	1986	127	103	78	93	79	63	543	1273	905	476
Nonparalytic	602	30	24	26	22	19	10	131	342	599	302
Unspecified	311	22	5	17	25	21	14	104	106	253	133
Total	2899	179	132	121	140	119	87	778	1721	1767	91.6
NEW ENGLAND											
Paralytic	171	5	1	2	7	5	4	24	96	17	6
Total	218	7	3	3	8	7	4	32	106	19	12
Maine	43	2	ì	ĭ	4	5	_	13	47	2	1
New Hampshire	-	_	_	_		_	-	_	1	_	_
Vermont	9	_	1		_	-	2	3	3	3	1
Massachusetts	29	1	ī	-	1	_	-	3	36	6	4
Rhode Island	102	3	_	_		2	1	6	. 4	_	_
Connecticut	35	ì	_	2	3	-	ī	7	15	8	6
MIDDLE ATLANTIC											
Paralytic	302	21	20	11	10	17	10	89	188	102	33
Total	429	27	30	20	22	23	15	137	238	203	84
New York	236	11	15	10	12	11	7	66	159	90	54
New Jersey	80	3	5	2	4	4	í	19	30	81	16
Pennsylvania	113	13	10	8	6	8	7	52	49	32	14
EAST NORTH CENTRA	T.										
Paralytic	288	32	16	8	16	11	8	91	158	289	120
Total	493	38	21	16	26	23	16	140	297	802	287
Ohio	112	5	8	3	4	5	1	26	56	141	55
Indiana	120	12	2	4	9	8	9	44	35	43	52
Illinois	137	6	6	3	5	2	4	26	96	80	72
Michigan	89	9	4	4	8	5	i	31	94	518	96
Wisconsin	35	6	1	2		3	1	13	16	20	12
WEST NORTH CENTRA	T.										
Paralytic	97	9	7	7	1	6	5	35	158	72	30
Total	167	13	8	11	2	7	6	33 47	239	115	57
Minnesota	53	5	5	2	í	3	1	17	68	30	12
Iowa	21	2	3	2	_	3		2	44	10	10
Missouri	41	2	3	3	-	4	5	17	94	64	16
North Dakota	14	1	3	4	_	4					2
South Dakota	4		_	4	-	_		5	2	9 2	2
Nebraska	15	ī	-	ī	ī	-	_	-	7.0		
Kansas	19	2	_	1	T	-	_	3	19	11	8
nono do	19	4	-	1	_		-	3	12	9	7

^{*} 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- Cases Reported to NOVS tive For Week Ending:							Six	Comparable Six		
and	tive					10.00	11 5	Week	Weeks Totals in		
Region	1960	10-1	10-8	10-15	10-22	10-29	11-5	Total	1959	1958	1957
SOUTH ATLANTIC											
Paralytic	414	33	35	26	33	20	19	166	233	138	104
Total	536	38	38	27	41	23	24	191	270	215	163
Delaware	_	-	- ·	_	-	-	_	-	2	6	
Maryland	141	21	21	15	18	7	8	90	18	9	14
D. C.	5	_	_	2	-	3	_	5	-	_	17
Virginia	38	4	2	1	7	4	3	21	53	49	32
West Virginia	55	2	4	2	6	4	5	23	45	67	22
North Carolina	87	2	6	3	4	i	1	17	79	23	30
South Carolina	126	7.	5	-	1	1	2	16	17	7	19
Georgia	20	1	-	2	-	ī	1	5	34	15	13
Florida	64	1	-	2	5	2	4	14	22	39	15
	04	T	- T.			2	4	14	22	39	
EAST SOUTH CENTRAL											
Paralytic	93	3	4	3	7	7	1	25	138	64	37
Total	232	20	7	20	17	16	5	85	169	100	68
Kentucky	129	17	-	14	10	7	4	52	44	26	25
Tennessee	44	1	4	5	1	3	1	15	86	31	34
Alabama	21	1	1	-	6	-	-	8	23	9	4
Mississippi	38	1	2	1	, · · , -	6	_	10	16	34	- 5
WEST SOUTH CENTRAL											
	165	10	6	11	5	3	4	39	92	116	60
Paralytic	265	15	11	14	6	5	4	55	157	156	97
Total	31	2	1	4	-	2	-	9	52		8
Arkansas		_	4	-	1	-	1	6	22	7 19	
Louisiana	49										20
Oklahoma	17	2	-	2	-	-	1	5	17	6	14
Texas	168	11	6	8	5	3	2	35	66	124	55
MOUNTAIN											
Paralytic	45	5	1	2	3	-	6	17	15	23	15
Total	86	5	1	2	5	4	7	24	28	47	36
Montana	21	2	-	-	2	2	1	7	3	8	2
Idaho	9	_	_	_	2	1	1	4	1	3	6
Wyoming	19	_	_	_	1		-	1		6	1
Colorado	19	2	_	2	-	_	4	.8	6	5	g
New Mexico	7	1	_		-	_	_	1	5	10	3
Arizona	5	_	_	_	_	_	1	î	9	11	13
Utah	6		1	etin _ 1 -	_	1		2	2	3	2
Nevada	0	_	-	_	_	+	_	_	2	1	4
	-	-	_	_	_	_	_	-	4	1	-
PACIFIC	101	. 43.			- 5				222		
Paralytic	411	9	13	8	11	10	6	57	195	84	71
Total	473	16	13	8	13	11	, 6	67	217	110	112
Alaska	2	-	-	-	-	-	-	-	7	-	-
Washington	34	-	4	-	1	1	NR	6	66	16	5
Oregon	34	3	-	1	-	1	1	6	43	8	5
California	396	13	9	7	12	9	5	55	101	75	98
Ḥawaii	7	•	-	-	-	-				11	4
Mann i man											
TERRITORIES	4.00		0	2	2	2	_	07	-	1.	
Puerto Riço	480	5	8	3	3	3	5	27	1	1	- 3

PARALYTIC POLIOMYELITIS OCCURRING WITHIN 30 DAYS OF LAST VACCINE INOCULATION (Cases Reported to PSU from October 18, through October 29, 1960)

State	County	Ini- tials	⊕⊥ Age	Sex	Date Inoc.	Mfr.	Lot No.	Date First Symp.	Site Inoc.	Site First Para.
1 9	- COULLY	Ú P		JULI	84.	1	200 1101	<u> </u>	1.1.001	1. 181
Ark.	Pulaski	J.F.	2 2 6	M	10-3-60	Lilly	755922	10-8-60	right arm	left arm
Calif.	Los Angeles	A.K.	30	F	9-1-60	Wyeth	36506	9-17-60	right deltoid	stiff neck
Calif.	Los Angeles	P.C.	24	F	9-12-60	MS&D	63757	9-22-60	left arm	both legs
Calif.	Los	s.K.	11	M	9-10-60	Wyeth	37206-2-	9-30-60	left	right
	Angeles					. ~ ' 	2460		arm	leg & back
Calif.	San Diego	G.J.	7	M	9-8-60	P-D	060495В	10-1-60	left upper arm	right leg
	X21				à i					
Conn.	Wind- ham	D.E.	5	M	8-31-60	P-M	175D137	9-10-60	arm	legs
111.	Rock Island	M.W.	1	ė M	2/1960	unk.	unk.	3-27-60	buttocks	s unk.
Ind.	Lake	T.S.	4	F	9-23-60	P-D	060111	9-26-60	left arm	face
Ky.	Barren	J.E.	8	F	9-30-60	P-D	063289	10-5-60	arm	lower
					an a					mities
N.Y. City	Kings	S.B.	2	M	10-7-60	unk.	unk.	10-13-60	unk.	unk.
N.C.	Rutherfor	rd R.C	. 3	M	8-3-60	unk.	unk.	8-27-60	unk.	facial
Óhio Óil	Jackson	в.м.	18 mos.	F	9-7-60	unk.	unk.	10-1-60	hip	right leg & foot
Pa.	West- moreland	S.L.	8 mos.	F	7-26-60	P-D	4-1993-1	8-5-60	right buttock	

Table II Continued

State	County	Ini- tials	Age	Sex	Date Inoc	Mfr.	Lot No.	Date First Symp.	Site Inoc.	Site First Para.
Texas	Bexar	О.В.	1	М	10-11-60	Pfize	er unk.	10-17-60	left arm	neck &
	Cor	mment:	Patient	die	ed 10-19-	60				
Wash.	Spokane	L.P.	24	M	8-31-60	P-D	060496-A	9-20-60	palate	right arm
West Va.	Poco-	F.R.	4	M	9-22-60	MS&D	63788-	9-25-60	right	left

Additional information received on Illinois Case R.M. listed in Report 213 indicates Site of Inoculation - upper left arm, Site of First Paralysis - upper right arm, Vaccine Manufacturer and Lot Number - Pittman-Moore 175B138 or Pfizer 5364.

F 9-10-60 unk. unk.

52031B

hip

arm

9-26-60 left

leg

left arm

hontas

K.S.

3

West Va. Preston

Maryland Case M.S. listed in Report 215 has been deleted as an under 30-day case.

		and a substitution in a sure of the particular of the	en e	on the state of th		granium in Egyptiche (etgen) 7	and the same of the same of
					-Jul		
	Service of the servic		oort xs3				
5	alof 00-01-01						
ಸ್ಥಾಪರ				And ALT			

ingti jesolog vö≈ 01 -+ k-Alkü	o 0.43.09-15-6 B ,48	. From English $(0,1)$
G745		
723- 9-25-80 /tmbs left: 0312 - 5'0 - Legs	A M 9-22-50 LS6D 6.	.n.4
old distribution , ve	3 E 9-10-69 ank. v	et Va.) reston K.S.

iditions: information received an Tillinds Case A.M. Listed in Report 713 advaces Site.of Engelation - apper 18th arm, Lite of Furer Lardiesis - apper 18th arm. Vaccine Manufacturer and Let Recour - Dittman-Monte 1753151 or Pfizer sta.

gyland Case st.S. Hated to Report Rub has been bisted as an under 10-day case.