

POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 239

SEPTEMBER 22, 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

A marked increase in total and paralytic case reporting was evident during the 37th week ending September 16, with telegraphic reports of 98 cases, 62 paralytic.

Cases continue to occur in the tri-county outbreak in Upstate New York. Reports from New York and Wisconsin are included in Section 2.

A report from the West German Health Office has been received, and details of the increased incidence noted this year in West Germany are presented in Section 5.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

Telegraphic reports for the 37th week, ending September 16, 1961, showed a marked increase in cases over the previous two weeks. A total of 98 cases, 62 paralytic, was reported as compared to 62 cases, 37 paralytic, reported last week. The corresponding week in 1960 brought a report of 176 total cases, 114 paralytic.

The cumulative total for polio noted during the last six weeks for this year is shown in the table below, with comparative figures for the preceding four years. Despite the current weekly increase, the seasonal figures remain far below those of previous years.

Six Week Totals (32nd through 37th week) for Past Five Years

1801 - Anto	1961	1960	1959	1958	1957
Paralytic	275	632	1855	839	489
Total	415	960	3023	1746	1877

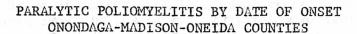
The report from New York, 46 cases, 27 paralytic, has again accounted for the largest part of the weekly total. Only three other States reported more than three cases -- California (5), Mississippi (4), and Texas (4). No epidemic foci have been noted outside of Upper New York State.

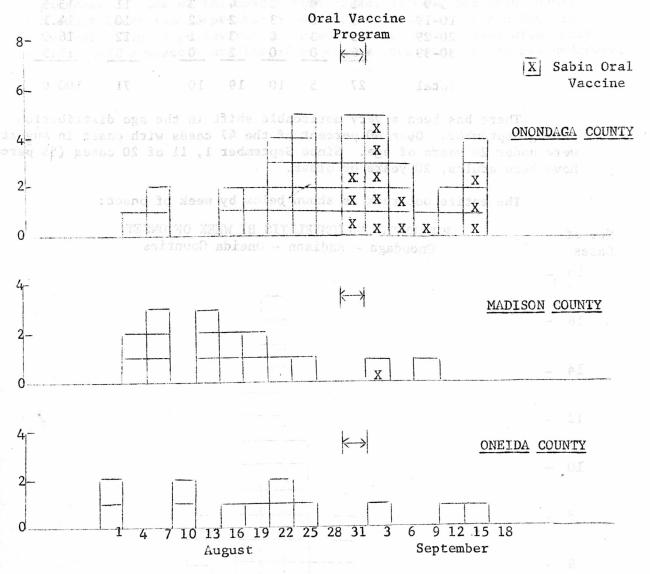
2. REPORTS

A. New York State

Poliomyelitis continues to occur in Onondaga, Madison and Oneida Counties. Dr. Robert M. Albrecht, Director, Office of Epidemiology, New York State Department of Health, reports 11 additional paralytic cases in the tri-county area. Through Wednesday, September 20, 71 cases of paralytic poliomyelitis have occurred in these three counties. Of the 71 cases, 41 have occurred in Onondaga County (28 in Syracuse), 17 in Madison County and 13 in Oneida County. Type I poliovirus has been isolated from 13 cases.

Twenty-five cases have occurred since the oral immunization program on August 28-31. The epidemic curve is shown below for each county by date of onset in three-day periods. Eighteen of the 25 cases which occurred subsequent to the oral program received oral vaccine and are depicted by an "X" in the histogram. Seventeen of the 18 cases occurred in more populous Onondaga County where cases continue to occur.





The histogram includes the 67 paralytic cases with onset since August 1. The 21 cases since August 29 are shown below in relation to the oral vaccine program.

No	Interval	in	Days	Be	tween	Oral	Vacc	ine	and	Onset	of	Symptoms
Vaccine	Same Day	p.	1	2	3	4 5	6	7	14	+		0
10	Same Day 2	rosi	0	3	3	$\overline{1}$	₁ 1	1	to Each	3		32 O M
					a Service		2.40					

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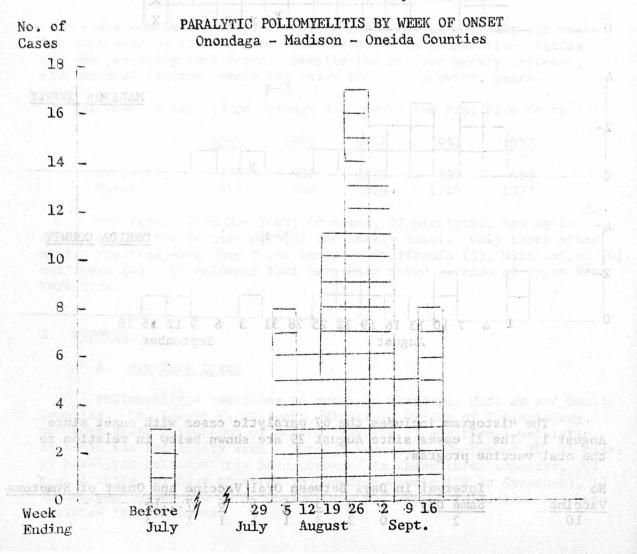
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In addition to the 71 paralytic cases, there are ten nonparalytic cases in Onondaga County, six in Oneida County and two in Madison County. There have been three deaths. The age and vaccination history of the 71 paralytic cases are shown in the following table:

	Age	Vac	cinat	tion I	listo:	ry	community of	in more p
Group	0	1	2	3	4+	Total	<u>%</u>	
	0-4	12	2	4	0 POE	1 TY JASL 2 4	30	42.3
	5-9	1	0	3	4	3	11	15.5
	10-19	i Kassins	0	3	2	2	10	14.1
	20-29	msrg5rq	3	0	3	1	12	16.9
	30-39	6	0	0	_2_	0	8	11.3
	Total	27	5	10	19	10	71	100.0

There has been a very noticeable shift in the age distribution during September. Over 80 percent of the 47 cases with onset in August were under 20 years of age. Since September 1, 11 of 20 cases (55 percent) have been adults, 20 years or older.

The entire outbreak is shown below by week of onset:



B. Wisconsin

The three cases reported this week from Wisconsin are all from the city of Milwaukee. According to Dr. Josef Preizler, Epidemiologist, Wisconsin State Board of Health, the 1961 total reported from Milwaukee now stands at seven cases, all paralytic. Field investigation is still in progress on some of the most recent cases; no case has been reported with onset later than September 5, and no localization within the city is evident. Type I poliovirus has been isolated from a case with onset in June, and laboratory studies of specimens from other cases are underway.

| Annual Server | Annual Serve

(This Surveillance Report was prepared by the Poliomyelitis and Poliolike Diseases Surveillance Unit, Michael J. Regan, M.D., Chief, James A. Bryan, II, M.D., and Mr. Leo Morris, Statistician, with the assistance of Statistics Section, CDC.)

3. 1961 POLIOMYELITIS CASES REPORTED TO PSU

Through September 16, there have been 536 cases of poliomyelitis with onset in 1961 submitted on individual case forms to the Poliomyelitis Surveillance Unit. Of these 536 cases, 409 (76 percent) are paralytic, 113 nonparalytic and 14 unspecified as to paralytic status.

These cases are presented in Table 3 by paralytic status, age group and vaccination history. Over 40 percent of the paralytic cases continue to occur among preschool children. A distinct difference in age distribution is evident between the paralytic and nonparalytic cases.

POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP AND VACCINATION STATUS REFORTED ON PSU FORMS (Through September 16, 1961)

Paral vtic

Age								
Group	0	1	2	Doses 3	of Va	Unk	TOTAL	Percent
0-4	101	15	16	18	16	8	174	42.5
5-9	24	6	7	18	20	4	79	19.3
10-14	16	2	5	12	14	2	51	12.5
15-19	8	0	5	5	3	1	22	5.4
20-29	26	0	3	6	2	1	38	9.3
30-39	18	5	1	0	2	3	29	7.1
40+	13	0.	0	1	0	2	16	3.9
TOTAL	206	28	37	60	57	21	409	100.0
PERCENT					- Aller			
DOSES	53.1	7.2	9.5	15.5	14.7		100.0	
A					ralyti			
Age				Doses			mo m A Y	
Group	0	1	2	3	4+	Unk	TOTAL	Percent
0-4	11	0	5	6	1	1	24	21.2
5-9	5	0	1	9	10	3	28	24.8
10-14	0	3	3	6	7	4	23	20.4
15-19	1	0	2	3	4	0	10	8.8
20-29	6	0	1	5	4	2	18	15.9
30-39	5	0	0	2	0	1	8	7.1
40+	0	0	0	0	2	0	2	1.8
TOTAL	28	3	12	31	28	11	113	100.0
PERCENT DOSES	27.5	2.9	11.8	and to		art ves	100.0	This Surve

4. ROUTINE POLIOMYELITIS SURVEILLANCE

A. Cases With Onset Within 30 Days of Vaccination

Two cases of paralytic poliomyelitis with onset within 30 days of vaccination have been reported to the Poliomyelitis Surveillance Unit during the past week ending September 16. This brings the 1961 total to 11 cases, of which 10 are paralytic (two correlated).

One of the cases is a 32 year old male from Jackson County, Michigan, with onset on 6-9-61. He received an inoculation of vaccine on 5-13-61 in the right arm and suffered weakness in both legs and the right arm. At 60 days following onset, this patient had minor residual paralysis.

The second case is a seven-month old male from Monroe County, New York, who received his third dose of vaccine on 8-18-61 and had onset of symptoms on 9-1-61. The manufacturer and lot number of the vaccines used are being investigated as part of routine poliomyelitis surveillance.

B. Vaccine Distribution

A summary of current and cumulative shipments of poliomyelitis single and multiple antigen vaccines through August, 1961, is presented in Table II. Also included in this report are the monthly shipments of vaccine since January, 1959, which are presented in Figure II.

5. FOREIGN REPORTS -- West Germany

A considerable increase in total and paralytic case reports has been evident this year in West Germany. Through August 23, a total of 2,016 cases, 1,519 paralytic, has been reported to the Federal Health Office. At this same time in 1960, the figures stood at only 1,089 cases, 852 paralytic.

According to Dr. Werner Anders, Epidemiologist, West German Department of Health, a total of 769 cases has been reported from the State of Nordrhein-Westfalen, adjacent to Belgium and the Netherlands. Baden-Wuerttemberg, with 418 cases, has also accounted for a sizeable portion of the total morbidity.

The following table summarizes State reports through August 23. The eleven German States are listed in geographic order from north to south. Although Nordrhein-Westfalen has accounted for over one-third of total reports, higher attack rates are evident in less populous Bremen, Saarland, and Baden-Wuerttemberg.

State moidenfoosV l	Population*		Attack Rate (per 100,000)
Schleswig-Holstein	2.271	Teran 290 Res	260 or 1.3
Hamburgu opmifiliovae a sisifova			
Niedersachsen and sanitad skill			
Bremen (beaslown			
Nordrhein-Westfalen			
Hessen Wanted northal mort el			
Rheinland-Pfalz			
Baden-Wuerttemberg dood at sas			
Bayerng Isubiger router bad the.			
Saarland	1,000		10.0
West-Berlin) common mort slow to Jeans bad has 10-51-8 no e			
of number of the vaccilArorsed of the vaccillance.	53,814	2,016	-8 no 83.7 gmys

* 1956 Estimates

Within Nordrhein-Westfalen the areas including Duesseldorf, Aachen, and Arnsberg have contributed the majority of cases. The table below summarizes cumulative reporting through August 23 within this State as compared to similar reports in 1960:

15-19	1961	1960	
Area	<u>Total</u>	FOREIGN REPORCE - West	
Duesseldorf	221	51	
as Koelnger saso bitylered bus Li	sse illetore	Of considerate incre	
Machen sor s . 23 taugua diguorn	176 mm 10	ident this year 2 0 West G	V9
Muenster I Israbal and at bed	roge74 need	ses, 1,519 paral8tic, has	60
Steed at only 1,089 dloors	the fetures	this same time 25 1960.	11
	178	ralytic, <u>25</u>	
Epidemiologist, Wes LATOThen Per			
en reported from the State of	ases has be	Health, a total of 769 c	

Nordencin-Westfalen, adjacent to Belgium and the Wesherlands. Baden-Wwesttemberg, with 418 cases, has also accounted for a sireable portion of the total morbidity.

The following table summarizes State reports through August 23. The eleven German States are listed in geographic order from north to south. Although Nordrhein-Westfalen has accounted for over one-third of total reports, higher attack rates are evident in less populous Bromen, Starland, and Baden-Wuerttemberg.

CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1955-1960, April - December, by week

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

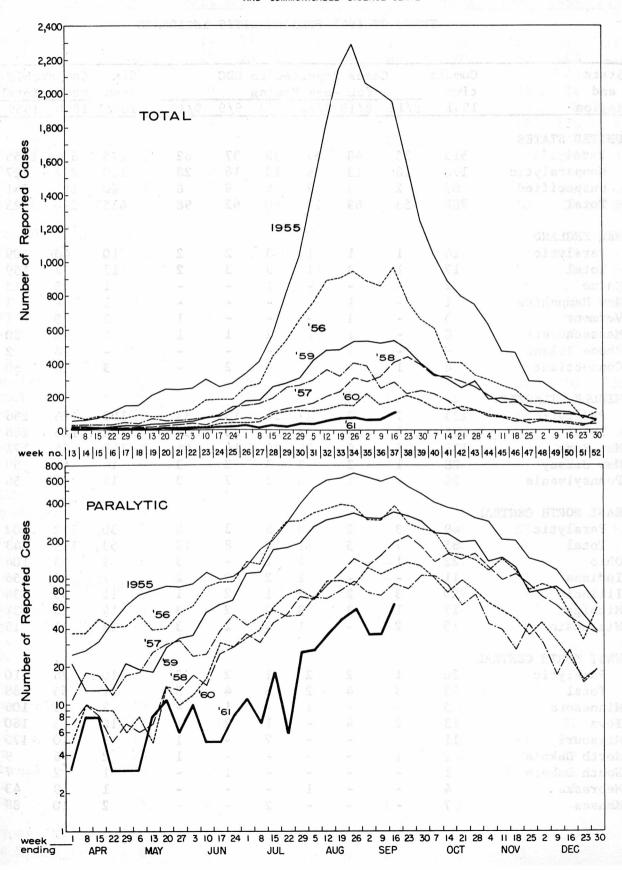


Table 1
TREND OF 1961 POLIOMYELITIS INCIDENCE

State	Cumula-	- 0	ases I	Report	ed to	CDC		Six	Compa	rable	Six
and	tive			leek E				Week	Weeks	s in	
Region	1961	8/12		8/26 9/2		9/9 9/16		Total		1959	1958
ALCOHOL PAUL DE								10	46.		
UNITED STATES	Calleria a									1, 2	000
Paralytic	513	35	48	57	36	37	62	275	632	1855	839
Nonparalytic	178	16	13	9	18	16	28	100	217	927	669
Unspecified	89	2	8	7	6	9	8	40	111	241	238
Total	780	53	69	73	60	62	98	415	960	3023	1746
NEW ENGLAND											
	14	1	1	,	2	•	•	1.0	4.0	109	17
Paralytic	14	1	1	1	3	2	2	10	48		43
Total	17	1	3	1	3	3	2	13	72	159	-
Maine	1	-	-	-	1	-	-	1	15	13	4
New Hampshire	1	-	1	-	-	-	-	1		3	3
Vermont	3	-	1	- A25	· -	-	1	2	5	1	
Massachusetts	8	-	1	1	2	1	1	6	16	80	10.5 A. 10. C. SHINE
Rhode Island		·	-			-			18	2	2
Connecticut	4	1	_	•	-	2		3	18	60	18
MIDDLE ATLANTIC											
Paralytic	133	7	7	27	14	15	33	103	126	156	153
Total	185	7	12	33	25	23	52	152	165	286	274
New York	131	6	9	24	20	14	46	119	84	171	104
New Jersey	28	1	2	3	3	2	3	14	41	59	130
가게 하는 사람들이 되는 가는 가게 하는 것이 없는 것이 없다면 하는데 없다.	26	1	1	6	2	7	3	19	40	56	40
Pennsylvania	20	-	1	0	2	,	3	19	40)0	
EAST NORTH CENTR											240
Paralytic	49	3	2	8	6	3	8	30	112	202	268
Total	85	7	5	11	10	8	12	53	193	543	701
Ohio	22	1	•	4	1	-	3	9	43	104	125
Indiana	11	-	•	1	2	2	2	7	50	56	48
Illinois	20	3	2	2	1	2	1	11	63	136	83
Michigan	17	1	3	3	2	2	3	14	26	231	425
Wisconsin	15	2		1	4	2	3	12	11	16	20
WEST NORTH CENTR	ΑΤ.										
Paralytic	20	1	2	2	1	2	2	10	26	310	58
Total	43	3	4	2	5	4	3	21	55	588	7
		-	4	1			3	21	13	106	- 0
Minnesota	5					1	1/1/1			160	-1
Iowa	13	2	4	-	1	2	/ 1	10	5		10
Missouri	11	-	•	•	2	-	1	3	10	175	01
North Dakota	2	1	-	• • •	-	-	1	2	6	9	
South Dakota	1	*	-	-	-	1	•		2	7	
Nebraska	4	-		1	-	•	•	1	9	43	
Kansas	7	•		-	2	•		2	10	88	11

State and	Cumula- Cases Reported to CDC tive For Week Ending							Six Week	Comparable Six Weeks Totals in			
Region	1961	9/72					9/16	Total	1960	1959	1958	
	1301	0/14	6/19	0/20	9/4	9/9	9/10	IOCAL	1900	1939	1.300	
SOUTH ATLANTIC		1947.8			20/24	ATL II	C. N. S.					
Paralytic	101	14	21	8		6	4	5.3	115	362	112	
Total	137	17	23	11	3	8	8	70	154	464	210	
Delaware	2	-	_	(8,00	000	1-1-7	_	_	_	3	1.3	
Maryland	23	3	6	4	_	1	1	15	32	14	(
D.C.	1	_	_	667	1.184	Build.	_		_	6		
Virginia	9	4	2	_	_	_	1	7	12	126	43	
West Virginia	18	4	TLUM	3	_	3	i	, 11	16	91	62	
North Carolina	13	WEGIT	1	_	3	TIA	2	6	32	90	3]	
South Carolina	15	of 1	817		3	ī	3	8		33	51	
Georgia	27	3	2	1 2	9J.6	1	Month		43			
Florida	29	_			eppering which	_	Total Control of the	8	9	65	16	
PRE PIP IVA	£ 29	2.5.5	. 9	1	878	3	A, 47L	15	10	36	36	
EACT COURT OFFICE	-											
EAST SOUTH CENTRAL			_	_		_	>		ibaq	gine	.00	
Paralytic	37	_	3	1	9	1	5	19	24	229	37	
Total	61	_	4	2 1	9.	3	7	25	77	326	92	
Kentucky	22	_	-	1	1.	-	2	4	48	19	100	
Tennessee	13	6. f . f .	. ∈ 2 1	-	5.40	3	075.1	5	17	172	38	
Alabama	9	-	1	-	2	_	1	4	3	104	15	
Mississippi	17	e e .	₂ 1	1	6	(1)	4	12	9	31	32	
Maria City					and the second	ti salah dan						
WEST SOUTH CENTRAL	Ĺ											
Paralytic	57	4	- 8	5	2	3	3	25	37	210	115	
Total	109	10	12	5 8	2	3 6	7	47	61	314	167	
Arkansas	11	_	3	2	2	1	_	8	10	101	3	
Louisiana	36	7	3	5	2 1	2	3	21	2	39	20	
OKTahoma	3	63	ì	_	550	SOUL.	700	1	4	46	13	
Texas	59	3	5	1.	1	3	4	17	45	128	131	
				_		, ,	•					
MIATMUOM						TODIA						
Paralytic	23	*HILE	2			LINGARI	i pliki	4	7	33	19	
Total	40	3	2	1	JUU ,	2		8	25	61	5]	
Montana	3		_	_	_		_	_	1	3	23	
-daho	13	2	1			G/C/L	_	4	ī	_	-6	
Wyoming	10	_				-	_	- -	14		2	
010mada	6	IA, 75.	ī	ī	. V C	PYET	_	3	5	11	2	
Werico	3	14,75 16,73 13,41	-	_	0.0	20,19		3	2	12	4	
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Cah		188.8E	_	_	0.1	27,2	-					
Nevada	. 8	6,448	-		100	8 ,1	-	1	1	6 2	3	
	- 8	6,556	-	-	78	24,6	-	,	0.0 <u>15</u> U		_]	
PACIFIC		4,23				33,8						
Paralytic	79	203.4	2	4	10	5	5	21	137	244	58	
Total			4									
Washington	103	5		4	10	5	7	26	158	282	81	
4 ChOn	19	1	-	2	1	ε 1 1	1	6	12	84	5	
d I formi	12	2	1	_	- Te8	a L I	-	4	odste 7:0	67	11	
Alaska	69	2	3	2	-	3	5	15	137	126	46	
Hawaii	-	-	-	-	-	-	-	-	_	5	-	
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TERRITORY												
Puerto Rico	-						-		~7		7	
oo MTGO	6	-		-	-	-	1	1	71			

Table II

THE NATIONAL FOUNDATION

MONTHLY REPORT OF POLIOMYELITIS VACCINE RELEASED AND SHIPPED (1,000 cc's)

If we t

August, 1961

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86 - 18 84 - 18	Public	Agenci	es	1,279	179,664		3	_1	,147	13	1,282	180,811
	Commer	cial Ch	annels	2,508	181,500	12	8	13	,313		2,516	194,813
LLS	Dome	stic To	tal	3,788	375,425	8	11	14	,460	57	3,799	389,885
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		ugust			24,525			4	,599			olavluas9
20.07		eptember	21		23,091	0.		22				
LB		ctober	G75		19,565	10		F		SI		Con
	N.	ovember			16,319	.50%		elle.		O.F.		

^{*} Excludes outdated vaccine removed from inventory.

15,669

December

MONTHLY SHIPMENTS OF POLIOMYELITIS VACCINE; 1959-61

