Current Policavelitis Morbidit POLIOMYELITIS SURVEILLANCE REPORT Complete NO. 114+ batter THIRD YEAR JUNE 21, 1957

U.S. Department of Health, Education and Welfare Public Health Service Bureau of State Services figure a

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For the 1957 colerate year is 1133 cases, also the lowest since 1947 \circ

SPECIAL NOTE

The information in this report represents a factual summary of preliminary data reported to the Poliomyelitis Surveillance Unit from State Health Departments, Epidemic Intelligence Service Officers, participating laboratories and other pertinent sources. It is understood that the contents of these reports will not be released to the press, except by the Office of the Surgeon General, Public Health Service, U. S. Department of Health, Education and Welfare. State Health Officers, of course, are free to release any information they may wish concerning data from their state.

r. G.E. McDaniel, Director, Division of Disease Control, South

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- 57) contributed to this Current Poliomyelitis Morbidity Trends
 - II. Routine Poliomyelitis Surveillance

individuals. Over 75% of the cases have occurred in white persons.

.a ili Triply-Veccinated Cases

I. Current Poliomyelitis Morbidity Trends

A total of 89 poliomyelitis cases was reported to the National Office of Vital Statistics for the week ending June 15, 1957. This represents the fourth consecutive week that national incidence has shown a small increase for each week with 59, 61, 64, and 74 cases reported for the preceding weeks since 5-18. Figure 1 presents national poliomyelitis incidence by weeks since April, 1957, with similar weekly figures for April to July of the years 1952 through 1956.

The total of 89 cases last week represents the lowest incidence for the 24th week of the year since 1947 when 45 cases were reported. The totals for this week during the years 1948 through 1956 ranged between 162 (in 1951) and 421 (in 1954) cases. The national cumulative total for the 1957 calendar year is 1133 cases, also the lowest since 1947 when 1045 cases had been reported.

Total nati	onal repo	rted poli	o incidence 1948 t	hru 1956
	1957	1947	Minimum	Maximum
24th Week	89	45	162 (1951)	421 (1954)
Cumulative total through 24th Week	1133	1045	1707 (1948)	3656 (1954)
Total for whole year	_	10,789	15,463(1956)	57,440 (1952)

Incidence by states and regions for the past six weeks is presented in Table 1, with six-week totals for the comparable periods of the previous four years. During the past week scattered slight increases in polio incidence relative to the previous week were reported from seven North Central and three South Eastern states. In addition, Texas incidence increased again to 30 cases, following the totals of 32 and 20 reported for the preceding weeks ending 6-1 and 6-8.

* * * *

Dr. G.E. McDaniel, Director, Division of Disease Control, South Carolina State Board of Health, has reported preliminary data of interest concerning South Carolina polio incidence. Through June 19 a cumulative total of 37 cases have been reported for the 1957 calendar year. This total has been exceeded only once (1954) during the years 1945 through 1956. A relatively heavy incidence during the winter months of January and February (see PSU Report No. 106, March 1, 1957) contributed to this present high cumulative total. Seven of the 1957 cases occurred in Richland County (Columbia), 7 in Aiken County (near Augusta, Ga.), 3 in Dillon County and the remainder scattered among 12 additional counties. Of the 34 cases reported through 6-15, 22 were paralytic, 4 non-paralytic, and 8 as yet unspecified. Only 3 of the total occurred in vaccinated individuals. Over 75% of the cases have occurred in white persons.

II. Routine Poliomyelitis Surveillance

During the week June 13 - 20, the Polio Surveillance Unit received reports of nine poliomyelitis cases occurring within 30 days of a polio vaccine inoculation. Of these nine cases, three were non-paralytic and six were paralytic.

The six paralytic cases are listed in detail in Table 2. Specific lot numbers of vaccine used has been determined for three of the cases; no other cases have been reported to PSU in association with these three lots. One of the paralytic cases developed quadriparesis; in the remaining five cases there was no correlation of site of last vaccine inoculation with site of first paralysis.

III. Triply-Vaccinated Cases

A total of twenty 1957 triply-vaccinated cases has been reported to PSU through June 19, 1957. Of these 20 cases, 7 were reported as paralytic and 13 as non-paralytic. The paralytic cases, one each from the states of Missouri, California (4 inoculations), New Mexico (fatal), Kansas, Texas, Nebraska, and New York, are listed in Table 3. Of these 7 cases, 4 (3V Nos. 27, 29, 34, and 37) were previously listed in PSU Reports Nos. 108 and 110. It may be noted that laboratory evidence suggested Type III poliovirus infection in the fatal New Mexico case (3V-34).

The 13 non-paralytic 1957 triply-vaccinated cases were reported from 7 states; 4 cases from Arizona, 3 from Nebraska, 2 from Louisiana, and one each from California. Iowa. Oregon and Washington.

During the past month five additional 1956 paralytic polio cases have been reported to PSU, bringing to 35 the total of reported 1956 triply-vaccinated paralytic cases (including two possible paralytic cases).

(This Report was prepared by Dr. Lauri David Thrupp and Miss Helen Forester, with assistance from the Statistics Section, CDC.)

LDT (700)

ATLANTA, GA. - JUNE, 1955

DHEW-PHS-CDC

Table 1 and Trend OF 1957 POLIOMYELITIS INCIDENCE

State	9FC	Case	es Repo				7887 ·	Six		ompara		
and Region	5.	-11	for We	ек <u>Е</u> т	6-1	6-8	6-15	Week Total		eek To 1955		
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ONTIED STATES		71	59	OI	64	74	89	418	759	1509	1727	1404
NORTH EAST	4	6	1	2	1	1	3	14	48	163	56	124
Maine		_				- "			1	2		7
New Hampshire		_			_ ``	~	_	-	-	0 1 2	2	6
Vermont		1	-	1	_	-	-	2	1	1	917.	000-
Massachusetts		ı	- 0	= 0	-	- 0	1	_ 2	7	4	3	11
Rhode Island	6	<u>~</u>	- 3	- F	- 0	- 6	-	_	-	2		Hene
Connecticut	è	1	· - è	- "		- Î	-	ī	5	-	7	10
New York		1	- 8	ા ે	1 ,		2	5	21	91	28	65
New Jersey	1.1	<u> </u>	- }			1	_	1	5	16	7	10
Pennsylvania		2	1	- 8		- S		3	8	47	9	15
NORTH CENTRAL	259	781	7 _{ξε}	10 5	ε 6 ς	4 0	14	48	129	273	223	298
Ohio		1,	1	_ 。	1 .	_	2	5	13	46	43	44
Indiana	67	- U.J.	- '	- '	- 5	-	1	1	5	17	9	20
Illinois		50	1	2	- 3	1	_	4	41	47	20	30
Michigan	3.0	£ 2	, 4	1	3	-	3	11	14	42	51	22
Wisconsin	378	138	- 08	- 6	2 - 3	e = 8	<u> </u>	1 23	14	24	15	11
Minnesota		1					· -	1.	7	20	7.	47
Iowa	7/1	- 1007	1	-	- ·	- "	2	3	14	23	25	27
Missouri		2		3 -	1 -	1.	2	9	10	14	17	45
North Dakota		-	-	- 0	-		-	ř - C	_	4	2	5
South Dakota	5 7.7	+ .	_		- 0	2	-	2	1	11	2	4
Nebraska	\$	ĭ		4	-	-	3	8	7	13	17	18
Kansas	Î	1	- 1	-	1 _	-	1	3	3	12	15	25
NORTH WEST	691	4	. - 81	1	1 1	15	1	8	25	125	33	34
Montana			tra randikomen lara malika irin l	en Località parti mila				er ergistania Kenjulia del cintra	1	4	1	4
Wyoming		3	-	-	-	_	_	3	1	2	3	5
Idaho		ĺ	_	_	-	-	_	3	6	64	4	2
Washington		-	-	_	_	_	-		7	26	15	10
Oregon		-		1	1	7 ~	1	4	10	29	10	13

^{*} National Office of Vital Statistics

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Table 1 (Continued)

	000		rted		VOX		Six			ble	
Comparable Mas	all	for we			in Moon	11.70	Week			tals	
Region	5-11 5	5-18 5	-25	6-1	6-8 6	-15	Total	1956	1955	1954	195
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Delaware Maryland	14	· - ε	<u>-</u> 1	- 1	S.		3	2 4	15 ₀ 21	2AH 1	THOM
O. C.	-	-	-	2	-		_	- 8	3 22	17	1
Virginia √est Virginia	<u>1</u>				1 T	ī	5	6	13	12	10
North Carolina	2	ı	3	-	2	2	8	10	17	2000s	4
South Carolina	-	_	2	2	3	5	12	9	13	28	COLUMN COLUMN
Georgia	4	1	1	-	-	3	5	5	34	63	3
florida	5 1	2 _S	1	- I	6	2	16	38	71	133	4
rentucky	1	ī	- <u>I</u>	1	ī	3	5 3	11	24 14	16 17	1 3
Cennessee Alabama	<u> </u>	_	2	_	2 -	<u> </u>	4	. 5	29	44	9
SOUTH CENTRAL	26	3 0 A.	19	42 ^à	32 ^{O.}	39	188	259	389	524	44
Misrissippi	2	1 3	***	3	3	ı	10	13	37	38	oid Mat
Arkansas	2 1 8	5		2	- 0	- 7	8	2	24	35	2
Louisiana	8	1 ,	1	4 8	5	6	25	52	55	60	5
Oktanoma	7			1	4	2 *	- 7	14	14	43	4
l'exas	15	23	18	32	20	30	138	178	259	348	27
OUTH WEST	21	16 $_{\text{S}}^{-}$	19	9	20	15	100	192	283	344	24
Colorado	6	1 S	2	ı	2	_ ~	6	3	30	12	isefi L
New Mexico	2	1	1	-	2	1	7	5	4	31007	19.19
rizona	1	- 7	-	2	1 .	-,3	4	11	12	22	in all
Jtah SI SI		- 7	4	- T	- 44	1	5	3	4	6	ens
Nevada	_	-	- 7	-		-	-	1	21	8	
California	18	14	12	6	15 [13	78	169	212	289	119
TERRITORIES	2	-			nath man	-	3		N. Sandar		onte Vomi
6 64 4	-1					-	1.	2	2	8	daho
llaska Hawaii				-	estat distan	100	-	3 5	8	39	idaa
uerto Rico	4	- I		- 1	71	, 500	ī	8	36		2894

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^{*} National Office of Vital Statistics.

PARALYTIC POLIOMYELITIS OCCURRING WITHIN 30 DAYS OF LAST VACCINE INOCULATION

Concernment of the PSU Type 12 through Type 20 1057

Sach all company of the	Cases Reported to PS	U June 13 through June 20,	1957
Hypes I. II. and	[] [] [] [] [] [] [] [] [] []	Completed in the series of	rein magaciya bo iyras i ama ii
To the same of the	*		

PSU Case No.	County	Ini- tials	Age	Sex	Date Inoc.	Date 1st Symp.	Date 1st Para.	Site Inoc.	Site lst Inoc.	Mfr.	Lot No.	ca c ks of Picon bis	Remarks
	Platopat				s were chir	acheria			r berrior				As. No
W.Va-28	McDowell	PLP	1	F	4-13-57 5-28-57	6-1	6-1	? Arm	RL	SD	39177	10 12	2 cells
N.Y-258	Nassau	MS	22	F	8-20-56 9-25-56 6-6-57	6-10	6-10	? ? LA	Legs	? ? SD	39176		653800
N.Y257	Dutchess	ММ	6	F	7-21-56 5-21-57	5-24	5-24	LA LA	Legs	-L -L	697783		658259 658259 571,778 14 - 160
Utah-16	Salt Lake	SF	19	F	? 4-10 - 57	4-23	?	?	Bulbar	? L	?		
Tex-153	Hidelgo	JB	6 mos	M	5 -15-57	5 -18	5-24	ro'it	Arms Legs	SD	?		
Utah-17	Salt Lake	GR _J	22	F	? 3-28-(?)	14-22	ng! ngj	?	Spinal	. Ya	? ?	124	Lot Mo.

1.0010

Table 3 1957 Paralytic Poliomyelitis Following Three Inoculations of Vaccine (Reports through June 19, 1957)

3 V Case No.	State	County	Ini- tials	Age	Sex	Date 1st Symp.	Sp	rebro- inal uid	Site of Para.	Dates of Vacc. Inoc.	Mfr.	Lot No.
27 	Mo.	St. Louis	BD DB	7 -	F	1-4-57 2-72-23	5-18 5-18	WBC 63% L	RL, LL Teds	6-?-56 7-?-56 12-28-56	L L L	? ? 679914
29 14	Cal.	Durchess SP.W. Lake	МН	11	E F	1-10-24 1-10-57 2-81-24 4-81-29	p=03 0	WBC normal protein	Bulbo-Barra Spinal	4-25-55 3-28-56 4-4-56 5-10-56	C L L	? 658259 658259 671708

On discharge, pharyngeal paresis had cleared but muscle examination revealed slight weakness of neck flexors and right shoulder.

34 N.M.	Tesserv	TM	6	M	1-19-57	294 V.BC	Bulbar	12-15-55	L	653800
					S S. L.	100% L	(Expired	1 - 17 - 56	${f L}$	65 3 800
1.4.4.00	The state of the s				50857		1-25)	9-14-56	PD	1993

Case To.

Rapid progression of involvement necessitated tracheotomy on 1-24, and respirator care on 1-25. Comment: Histopathological findings were characteristic of acute anterior polio-encephalomyelitis. No stool specimen from the patient was available. However, the CDC Virus and Rickettsia Section, Montgomery. Alabama examined stool and serum specimens obtained from three contacts of the patient. Each stool yielded Type III poliovirus but neutralization tests showed a significant rise in antibody against Type III virus in only one of the contacts. The single serum specimen obtained from the patient 5 days after onset revealed neutralizing antibody titers of 216, 128 and 512 to Types I, II, and III, respectively. Complement fixation tests were negative to Types I and II but showed a 1:2 titer against Type III. Dr. M. Schaeffer has reported that this positive CF test may be of some significance in view of the high neutralizing ab titer to Type III, and that the total picture is strongly suggestive of Type III infection in the patient.

Table 3 (Continued)

3 V Case	Stata	Country	Ini-	A 90	Corr	Date 1st	Cerebro- Spinal	of	Dates of Vacc.)/A	T - 1 - 37 -
No.	State	County	tials	Age	Sex	Symp.	Fluid	Para.	Inoc.	Mfr.	Lot No.
37	Kan.	Ford	RB	6	M	2-22-57	*	R L, LL, Trunk	11-10-55 12-1-56	L L	?
								II uik	1-12-57	?	?
	Comment:	Private	Physician	rep	orts	that approx.	six weeks	after onset	there remained	· · · · · · · · · · · · · · · · · · ·	•
44	Tex.	Smith	BF	7	F	5-27-57		RL, LL, Trunk	4-27-56 6-1-56	L L	?
								Trunk	1-18-57	L	?
45	Neb.	Daw.	CR	9	F	3-10-57	28 V/BC	RA	4-25-55	L	?
-12	-,•			•			80% L	(mild)	9-12-55	$ar{ extbf{L}}$?
							,	(,	7-?-56	$\widetilde{ extbf{L}}$?
	Comment:	antibody	titer ro	se f	rom :				Virus Lab was a diagnostic		
46	N.Y.	Nass.	MS	22	F	6-10-57		Legs	8-20-56 9-25-56	?	?
	Comment:	Patient	two month	s pr	egnar	nt.			6 - 6-57	SD	39176

Comment: Pattent two morths pregnant	Mex. Messa.	Comments Stool specimen collected 3-	TE MERITAL DEM'ST. 018 0.	th Lex* Surty Bh	Comment: Fravete Protection reports	
pa pregnant.			.a0		sid edinocen a	
	72-05-0	arable2. The examines parter of the felling of a greeners of the felling of th	3~10~23 - 52 ABC	100 PA-75-2	siporox, six weeks	5-55-74
	े हुए हुद्ध भूठ	end-ft-9 (not n ((my1q)	Hrwari 18	44. 3	
200-21 SD	2-25-26 0-20-26	rise). Typ		7-15-21 2-1-20 7-51-20	Tare remained dome-residue	
307.16		Types II and III	\$ -D -D	1949 A	agenciesw ls	o •o