CTC POLIONYELITIS SURVEILLANCE REPORT

NO. 129

OCTOBER 4, 1957.

U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
Public Health Service Bureau of State Services

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SPECIAL NOTE

Information presented in this report represents a summary of preliminary data regarding poliomyelitis and polio-like diseases reported to CDC from State Health Departments, participating diagnostic and reference laboratories, Epidemic Intelligence Service Officers, National Office of Vital Statistics, and other pertinent sources. It is to be emphasized that these data are provisional and intended for the information and administrative use of physicians involved in investigation and control of poliomyelitis and polio-like diseases. Anyone desiring to quote this information is urged to contact the person or persons responsible for the items reported in order that the exact interpretation of the report and the current status of the investigation be obtained.

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A. CURRENT POLIONYELITIS MORBIDITY TRENDS

National incidence of poliomyelitis remained stable during the past five weeks, with 231 cases reported to NOVS for the week ending September 28, following 213 for the week of September 21 and 282, 244 and 276 cases reported for the three preceding weeks. Figure 1 presents national incidence by weeks for 1947 and 1952 through 1957.

The number of cases for the 39th week and the cumulative total for the 1957 calendar year may be compared with similar data for last year and the low years 1947 and 1942:

TOTAL NATIONAL REPORTED POLIO INCIDENCE

	1957	1956	1947	1942
39th week	231	655	792	217
Cumulative thru 39th week	4,881		7,242	2,832
Total for the year	or os il love	15,463	10,789	4,190

Incidence by states and regions, with six week totals for the comparable periods of the past four years, is presented in Table 1.

The number of cases categorized as paralytic increased from 82 cases for the week ending September 21 to 105 cases for the week ending September 28. This represents the highest weekly total recorded this year. During the comparable week of last year, 248 paralytic cases were recorded; the peak of paralytic disease had already been passed. The cumulative case totals of 1585 paralytic, 2516 nonparalytic and 788 unspecified, through the 39th week of this year, may be compared with 5247 paralytic, 4750 nonparalytic and 2184 unspecified for last year.

The Southeast Region experienced a decided increase in incidence of paralytic disease, from 26 to 46 cases, with the largest group of paralytic cases, ten, reported from West Virginia.

Dr. Mason Romaine of the Virginia State Health Department indicates that of the total of 10 Virginia cases reported last week, three were unvaccinated siblings, aged 8 mos. (paralytic), 22 mos. (paralytic) and 3 years (nonparalytic) from a family of 11 children.

B. ROUTINE POLIOMYELITIS SURVEILLANCE

1. Under-30-day vaccinated cases - During the week ending October 2, PSU received no reports of paralytic poliomyelitis cases with onset of symptoms within 30 days of a polio vaccine inoculation. Seven such non-paralytic cases were listed.

- 2. <u>Triply-Vaccinated Cases</u> Preliminary reports of 16 triply-vaccinated polio cases, one paralytic and 15 nonparalytic, were received by PSU during the week ending October 2. The paralytic case and two revisions are listed in Table 2. Cumulative totals of 63 paralytic and 359 nonparalytic cases have been reported in triply-vaccinated individuals in 1957.
- 3. <u>Vaccine Distribution</u> Current and cumulative vaccine releases, shipments and inventory estimates are presented in Table 3.

C. ASEPTIC MENINGITIS

New York (see PSU Report No. 128) - Progress Report

Dr. Gunter Bach, Health Officer, Croghan, New York and Dr. Jerome Klein, EIS Officer, have investigated an outbreak of aseptic meningitis in Croghan. Cases were first reported September 8 and a total of twenty-five had been reported through September 22. Visits were made to 16 households. Age distribution ranged from two to 38 years involving eight males and eight females. Frequency of signs and symptoms are shown below. The headache was described as extremely severe.

FREQUENCY OF SIGHS AND SYMPTOMS IN 16 CASES OF ASEPTIC MEMINGITIS CROCHAN, NEW YORK

Symptoms		Signs	
Fever Headache Sore throat Myalgia Nausea Vomiting	16 14 11 11 12 6	Stiff ne ck Increased reflexes Rash	16 6 1

In family groups, there appeared to be high secondary attack rates. Concomitant with the appearance of the complete syndrome marked by nuchal rigidity in one or more members of a family group, other members would demonstrate symptomatology that was similar, but did not include nuchal rigidity. These would experience a spectrum of disease including gastro-intestinal complaints, headache (apparently less severe than in those noted to have nuchal rigidity), sore throat, and malaise. Various combinations of these were apparent within a family group. In one family group, the mother had the complete syndrome, including nuchal rigidity, while a four year old son was noted to have a fleeting, fine erythematous rash with fever, headache, malaise and vomiting but without nuchal rigidity. In another family group the father, mother, sister-in-law and hired man were affected with the syndrome, including meningismus. The two children in the family, ages $3\frac{1}{12}$ and 5 years, had a generalized illness, but no meningismus.

Laboratory studies are underway at the New York State Health Department Laboratories and further developments will be reported.

ERRATUM

On page 6, PSU Report No. 128 in which the incidence of reported poliomyelitis in Caddo Parish, Louisiana, was described by paralytic status for the years 1951-1957, the paralytic column was inadvertently labeled as nonparalytic and the nonparalytic as paralytic.

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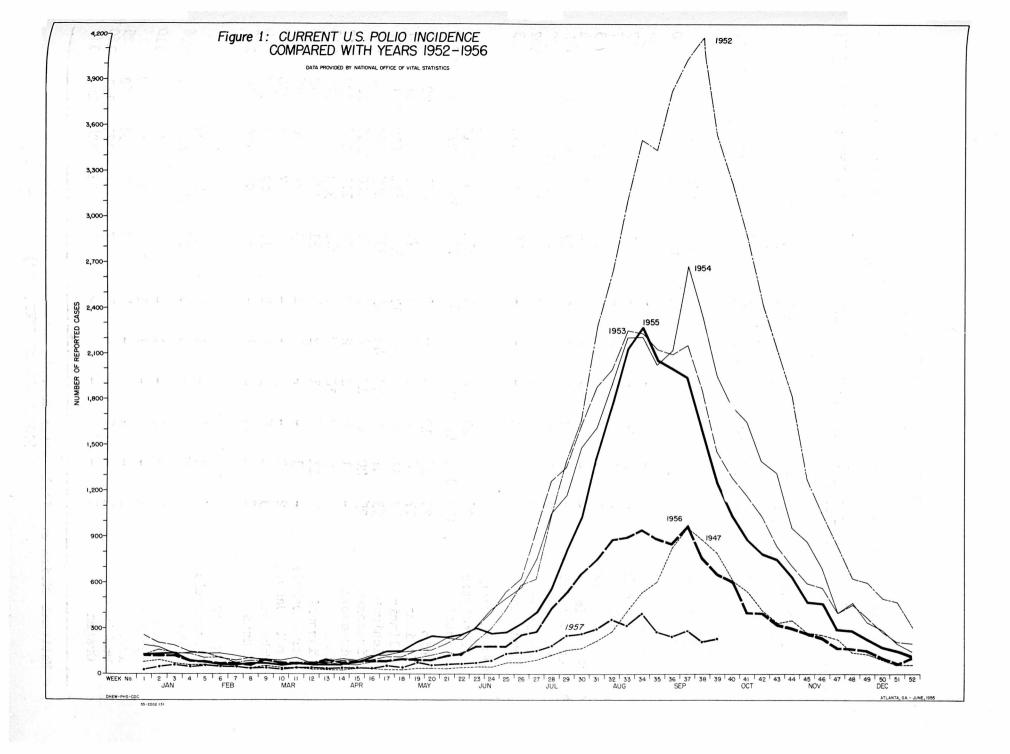


Table 1 TREND OF 1957 POLIO TOLINIS INCLUMENT

State Cases Reported to TOVS* and for eak Ending:						Six Tecl-	Teek cok Yotals in:				
legion	J-21	-31		9-14		9-28	Total		1955		1953
WITED STATES Paralyvic Forperalytic Unspecified Cotal	95 233 69 397	77 144 55 273	73 121 1:7 21:1	90 148 44 282	82 5h 37 213	10 5 95 31 231	522 638 283 1643	1857 2211 1005 5073	35'95 44.83 3058 11136	1333 3	11936
WORTH BAST Paralytic Total	10 41	ە 39	بر 28	12 26	5 13	6 21	1:7 163	15 1 574	1241 1.353	કોમેલ્ટ	2850
Maine Mew Hampshire Termont Massachusetts Rhode Island Connecticut Mew York Mew Jersey Pennsylvania	2 - 1 - 3 22 3 5 7	1 1 6 19 0 4	1 1 1 3 12 9 1	- 6 - 2 - - 2	1 15.6	2 2 11 6	3 1 2 11 - 17 03 10	6 - 32 2 39 300 111 72	81 97 57 1774 100 313 13/3 322 346	43 32 24 435 139 000 299 500	139 29 47 243 154 144 1239 302 553
MORTH CENTRAL Paralytic Total	28 1 92	22 143	22 1.15	ກຳ5 ກ່5	25 96	3 3 34	172 772	739 2458	1212	<u>5</u> 261	5250
Ohio Indiana Indiana Illinois Ifichigan Wisconsin Minnesota Ioua Missouri Morth Dakota South Dakota Lebraska Kansas	29 17 42 52 52 55 65 65 23 8	16 6 31. 47 20 1 2 11. 3 2	10 32 25 16 7 8	13 26 25 43 12 2 10 1	9513 4252 221 1	9 17 25 336 41 2	36 72 165 235 82 12 42 31 5 9 17	277 163 618 295 260 112 353 194 22 7 67	75 167 632 509 1436 236 169 101 20 23 93	996 314 101h 796 265 299 610 240 15 50 363 264	1043 267 795 886 348 999 198 297 81 09 60 137
MORTH WEST Paralytic Total	ć 3	2 2	3	- 3	1	1	13 28	58 1 59	22l4 l;26	427	1,26
Nontana Vyoming Idaho Washington Oregon	1 1 1 1	2 -	1 1 2 1	3	1 - 1	1 !: 1	54 9 7 3	3 12 41 67 31	67 11 51 173 124	49 90 52 131 105	110 15 25 160 116

^{*} National Office of Vital Statistics. (COMTINUED ON HEXT PAGE)

Table 1 (Continued)

Thate and	Cases leported to 1005* for Teek Ending:						Si	x ek		Comparable Six Week Totals in:			
Region	6-24			9-14		9-28		tal	1956		1954	1953	
SOUTH BAST Paralytic Total	32 61	19 36	21 3 6	16 42	26 47	1.5° 73		159 295	291 613	304 956	2148	1417	
Delaware Maryland Dist. of Col. Virginia West Virginia Worth Carolina South Carolina Georgia Florida Kentucky Tennessee Alabama	2 7 11 12 1 7 7 7 6 2	32612178	751532733		116514524667	37 10 12 98 33 98 -		7 30 21 41 23 18 26 36 36	12 42 5 99 12 107 39 71 71 59 42 26	11 94 22 33 83 135 90 23 74 124 98	18 100 35 230 103 243 75 227 415 318 213	12 212 19 234 167 177 36 104 172 93 116 75	
SOUTH CENTRAL Paralytic Total	11	15 32	-16 36	3 27	9 19	11 22		7 0 137	30½ 600	242 659	1149	666	
liississippi Arkansas Louisiana Oklahoma Texas	11 2 30 30	1 12 2 16	2 3 0 22	1 6 2 17	1 07 # INO	2 6 6 8		37 37 32 101	97 73 139 52 239	26 45 70 87 423	94 81 107 145 722	60 86 83 120 317	
SOUTH WEST Paralytic Total	7 1 1	10 24	6 23	12 42	16 35	9 25		61 193	314 664	292 702	1902	1327	
Colorado New Mexico Arizona Utah Nevada California	2 1 - 11	1 1 1 20	2 2 3 16	7 1 - 3l;	1 2 2 - 30	3 3 2 1h		16 6 10 6 155	05 27 22 66 9 475	76 42 42 21 14 507	161 102 68 108 34 1429	50 33 96 69 10 1061	
TERRITORIES	1	-	6	-	3	1		11	15	29			
Alaska Hawaii Puerto Rico	- 1	-	1 2 !;	=	1 2	- 1		<u>1</u> 3 0	3 5 9	22 22 3	ച ച	ა 3 8	

^{*} Mational Office of Vital Statistics.

Table 2

1957 PARALYTIC POLIOMYELITIS CASES FOLLOWING THREE INCCULATIONS OF VACCINE (Reports September 26 through October 2, 1957)

3 V Case	State	County	Ini- tials	Age	Sex	Date 1st Symp.	Cerebro- spinal Fluid	Site of Para.	Dates of Vacc. Inoc.	Mfr.	Lot Na
			* * * * *	1		REVISIO	ns	7			
50	Arkansas	White	SS	. ,7	F	6-8-57	1,,	?	?	?	?
	Com	ment: Poliov	virus Type	e I wa	s isola	ted from th	is patient's s	stool spec	March '57 imen.	?	?
49	Dropped -	Not Policmyel	litis.								
						NEW CAS	E	,			
105	D.C.	Washington	RW	2	M	8-28-57	a figure of y	?	?	?	?
	1 1 1 1 1	Prelimin	nary Repor	rt.	2 1 1 X 12 2 1 2 2 2		1		?	?	?

Table 3
POLIOMYELITIS VACCINE REPORT through 9-27-57

(Data provided by the Polio Vaccine Activity, BSS, USPHS. Listed in 1000's of cc's of Net Bottled Vaccine)

VACCINE RELEASED										
Period	Lilly	Parke, Davis	Pitman- Moore	Wyeth_	Sharpe & Dohme	Cutter				
July August September 1—27	5,047 5,840 8,251	1,843 3,704 1,273	1,239 1,339 2,664	378 394 257	1,015 864 488	- - -				
Cumulative to date 12	27 , 835	31,406	32,191	9,623	9,865	401				
VACCINE SHIPPED										
Period		NFIP	Public Agencies	Commercia Channels	el Export	Total				
1955	13,541	7,893	6,233	-	27,667					
1956	194	45,588	24,784	6,477	77,043					
1957 January - June July August September 1-20	151 36,044 23,760 - 4,642 4,903 - 4,133 4,037 585 2,454 3,294		6,385 327 1,099 577	66,970 9,871 9,269 6,326						
Cumulative Total	s	13,886	101,384	67,010	14,867	197,147				
VACCINE INVENTORY										
Week Unshipp Ending Manufac			and Local epartments	In Commercia and Physicia						
9-6-57 7,7 9-13-57 6,9 9-20-57 11,7	142	6, 6, 5,		17,783 17,902 23,639						

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